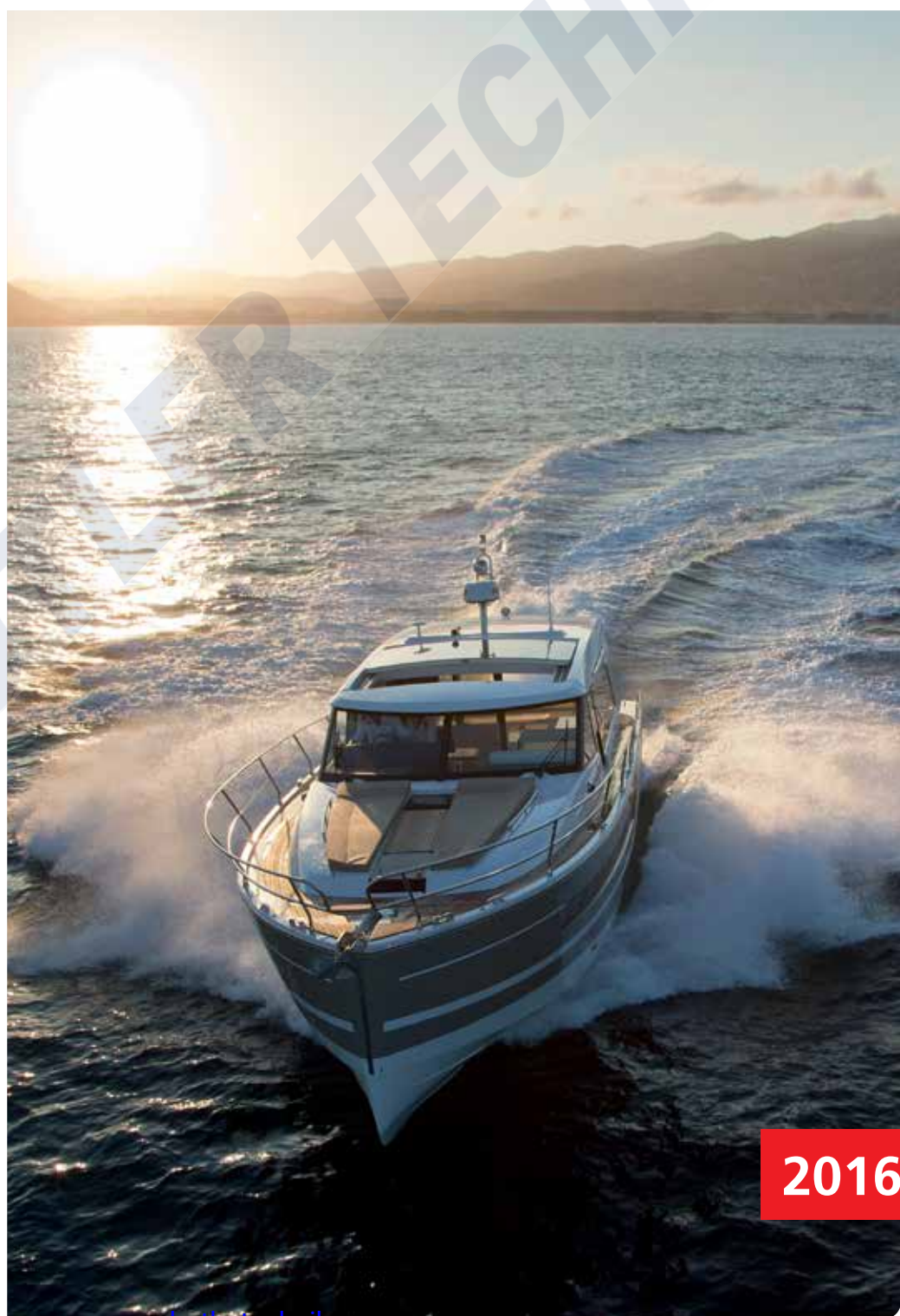
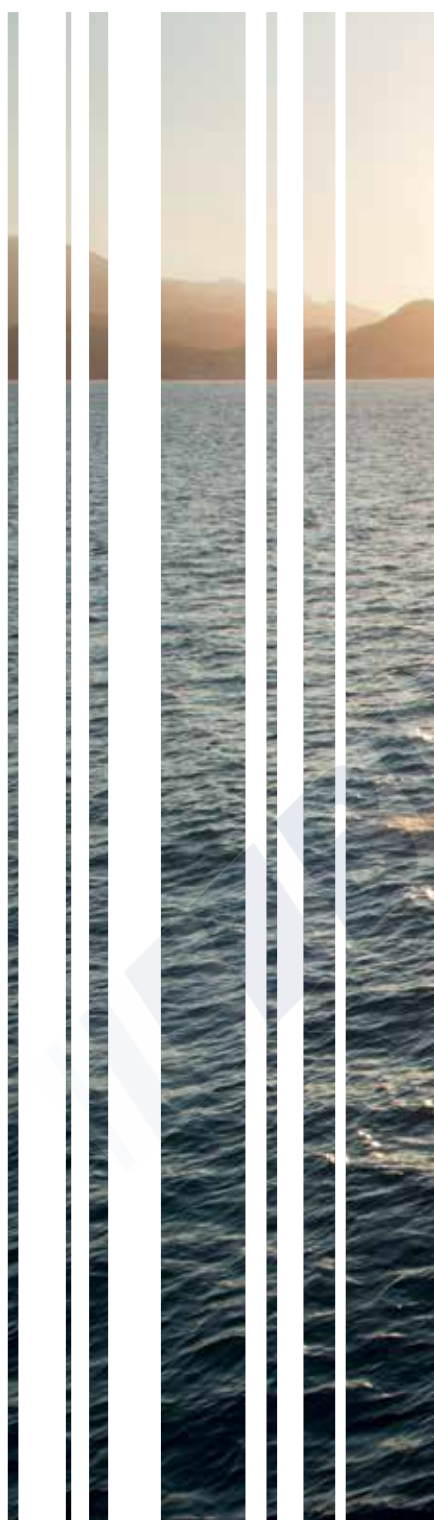


Marine Catalog



2016



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Cooling Accessories

Integrated solutions

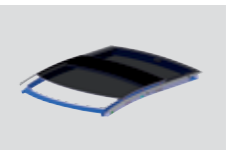
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Integrated Solutions

Roof solutions

143



Roof Solutions

Welcome to Webasto marine



Dear Customers, Dear Partners,

Consistently pursuing its long-term growth strategy based on innovation this year Webasto is once again launching several very interesting products, which enhance our complete on board climate solutions with numerous additional benefits. The latest illustration of this strategy comes with the very innovative character of our new variable speed BlueCool V-Series chiller which has just been distinguished by the marine industry with the IBEX product innovation award 2014.

In this new marine catalog 2016 you will find not only all the information about this new revolutionary air-conditioning system but also complete, practical insight in our large marine product portfolio. The purpose of this catalog is to enable you to build complete climate solutions adapted to the demands of your customers for heating, cooling, light and fresh air on board. Should you require a custom-made solution for a special project, our engineering teams also have the capability to develop customized products to support you. Just get in touch with us!

International service and consistent quality of support are an essential part of our customer excellence programs. The marine catalog is only one element of the complete set of tools and services with which we systematically provide to every Webasto marine partner. Please don't hesitate to register for our technical training sessions, request access to our dealer portals as well as our Marine Navigator DVD, our diagnosis and calculation tools, our product information and marketing materials. We are here to support your business so that your customers can enjoy the same high quality service with our products worldwide.

Our financial strength, our unique product portfolio, our large international dealer network and our understanding of your key strategic challenges for the future have positioned us as your supplier of choice when it comes to complete comfort solutions. We would like to thank you again for your continuous feedback and your trust in our products. Your success is our success!

Your Webasto Marine Team

What's new?

The new marine catalog provides you with detailed information on our core products as well as on our added-value accessories. You can then build safe applications and deliver fast, professional assistance to your own customers. As every year, Webasto brings you great new products:

NEW

New BlueCool V50 M: the universal unit self-adapting to all climates and continents

- Extra large power modulation range: 8,500 – 50,000 BTU
- Variable speed BLDC compressors controlled by inverter technology
- Zero electrical starting peak
- Super quiet operation
- High system availability via dynamic control of HP/LP boundary conditions
- Adjustable amperage draw
- Preventive maintenance monitoring system
- Condensate free operation
- Easy installation and maintenance
- Low service and operation costs
- Light and compact
- Integrates Webasto's BlueCool Expert diagnosis and set up tool

BlueCool S-Series: now 50/60 Hz compatible

- The S-Series have been technically updated to be fully 50/60 Hz compatible
- This makes them suitable for worldwide usage
- Key technical data like dimensions, weight and performance are unchanged
- Available from beginning 2016

New BlueCool 3-phase Soft Starts

- Reduction of electrical starting peak up to 53 %
- For all BlueCool 400 V 3-phase compressors
- Fully 50/60 Hz compatible for worldwide efficiency
- Self-adjusting software adapts to compressor type and frequency input
- Monitors supply voltage and protects against low voltage and locked rotor
- Can be ordered pre-installed for the P-Series chillers

BlueSky Hatch: new unique, electric sliding hatch

- Smooth operation ensures more comfort
- Plug-and-play installation resulting in short installation times
- Insulated panels for less heat inside the boat
- Attractive look of the panel
- Tilting and sliding mechanism
- The selected dimension ensure a good and easy fit on the wheelhouse or cockpit canopy

New MultiControl user interface

- Continuous heating or ventilation without limitation
- Programming of three different timers for seven days in advance
- Simple on/off functionality
- Feedback function
- Can be operated quickly and intuitively
- Easy installation without drilling holes
- With instant-on key: heat at the touch of a button
- Clearly arranged display of all start and stop times programmed and/or activated

New Air Top 2000 STC marine kits

- Low noise DP42 dosing pump with PWM operation
- New external temperature sensor with new design
- Transparent fuel hose for easy inspection
- Easy combination with new MultiControl
- Easy to service and maintain, diagnostic capability
- Improved combustion air silencer reduces noise level



BlueCool V50 M



S-Series 50/60 Hz update



BlueCool Soft Starts



BlueSky Hatch



MultiControl user interface



Air Top 2000 STC marine kits

We are here to develop your business



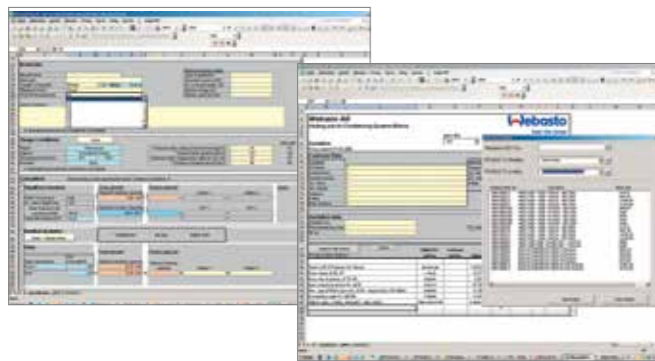
Marine Navigator: Your Webasto encyclopedia

- All available documentation concerning products, technical information, sales and marketing support
- Useful tools for proper calculation and quotation
- The essential business development tool



Marine training program and technical guidelines

- Powerful product training – also web-training
- Regular updates on new features
- Various modules adapted to audience
- Important guidelines for safe application engineering
- CAD model downloads



Webasto quote generator

- All the Webasto expertise at your finger tips
- Accurate quotations documented professionally
- Quick response to your customer requests
- Fresh air calculation included
- Accurate calculation of the cooling or heating demand
- The Webasto quote generator also exists for professional roof quotations



Marketing documentation and materials

- Marine marketing materials: product brochures, flyers, advertising templates, banners
- Marine animations
- Product data sheets
- Dealer packages



Dealer portal

- <http://dealers.webasto.com>
- Easy access to complete Webasto documentation
- Powerful search and download tools
- Login-protected access to technical data and applications

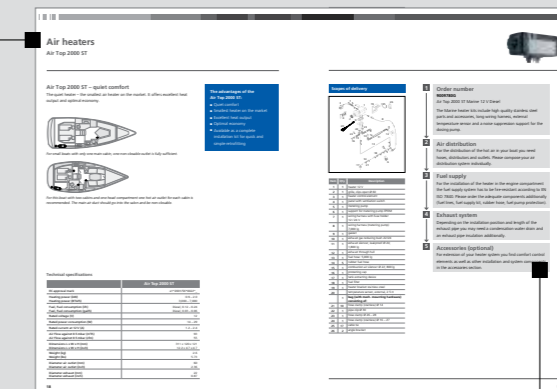


Marine website

- www.webasto-marine.com
- Quick and appealing product guide
- International dealer locator
- Multi-lingual access
- Marine configurator

This catalog has been designed to help you in defining a complete comfort solution for boats and yachts.

Page header indicates which part and type of information you reached within each product section:
Product overview, scopes of delivery, accessories, etc.



Colored labels give you direct access to the product range

Page indication for fast access to accessories, etc.



Heating products

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Which heater for your boat?



Along with specific marine installation kits we deliver innovative high-quality air and water heaters, which contribute to the enhancement of comfort on board. These two technologies offer economical, powerful and reliable solutions with heating outputs ranging from 2 kW up to 35 kW. Thus, there is a Webasto heating solution for every need.

Air heaters



- Short heating-up times thanks to effective output
- Available as a complete installation kit for quick and simple retrofitting
- Dehumidification of the cabins
- Silent operation
- Ideal for sailing and motor boats up to 45 feet
- Constant coziness thanks to an electronic thermostat
- Low operating costs
- Practical ventilation function
- Meet current requirements and standards relating to boats
- Simple to install
- Compact, space-saving design

or

Water heaters



- Heating comfort just like at home
- Even distribution of warmth by means of radiators
- Hot water for the shower and galley
- Silent operation
- Space-saving installation in the engine room
- Excellent possibilities for combining with Webasto BlueCool air-conditioning systems
- Separate temperature control in every cabin
- Low fuel consumption
- Compact design
- Preheating of the engine possible to avoid cold starts
- Meet current requirements and standards relating to boats
- Robust aluminum casing, resistant to high temperature or salt

Air heaters



3 Heaters in 1 with the Air Top Evo M control!

- Available as an upgrade on all Webasto Air Top Evo heaters
- Multi mode operation to match your individual heating power demands:
 - ECO mode for reduced electrical power consumption
 - Power mode PLUS for maximum heating power output
 - Ventilation mode to provide fresh and cool air to your cabins on a hot day
- Easy connection of Webasto Telestart and Thermocall possible
- Elegant design and easy operation
- Greater comfort with our innovative Webasto app. Run your air heater easily with a smartphone.



Air heaters

Product overview



■ Air Top 2000 STC

SEE PAGE 18

NEW



■ Air Top Evo 40

SEE PAGE 20

■ Air Top Evo 55

SEE PAGE 22

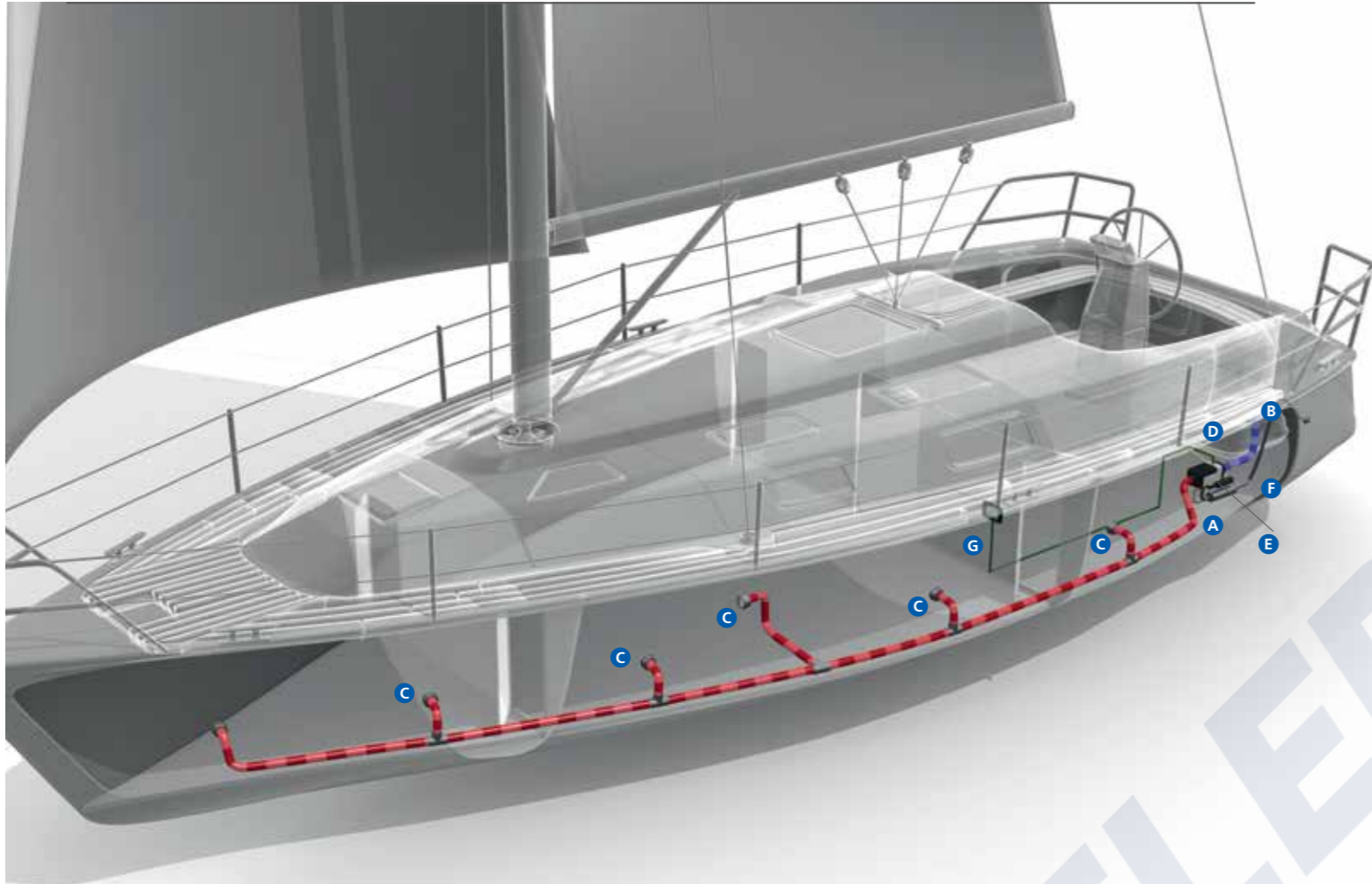
Technical specifications

| | Air Top 2000 STC | Air Top Evo 40* | Air Top Evo 55* |
|----------------------------------|---------------------|----------------------------|----------------------------|
| ECE R122 (Heater) | E1 122R- 00 0216 | E1 000385 | E1 000385 |
| ECE R10 (EMC) | | E1 035529 | E1 035529 |
| Heat output (kW) | 0.9 – 2.0 | 1.5 – 3.5 (4.0*) | 1.5 – 5.0 (5.5*) |
| Heat output (BTU/h) | 3,000 – 7,000 | 5,100 – 12,000 (13,600*) | 5,100 – 17,000 (18,800*) |
| Fuel, Fuel consumption (l/h) | Diesel, 0.12 – 0.24 | Diesel, 0.18 – 0.43 (0.49) | Diesel, 0.18 – 0.61 (0.67) |
| Fuel, Fuel consumption (gal/h) | Diesel, 0.03 – 0.06 | Diesel, 0.04 – 0.11 (0.12) | Diesel, 0.04 – 0.15 (0.17) |
| Rated voltage (V) | 12 | 12, 24 | 12, 24 |
| Rated power consumption (W) | 14 – 29 | 15 – 40 (55) | 15 – 95 (130) |
| Rated current (for 12 V) (A) | 1.2 – 2.4 | 1.3 – 3.3 (4.6) | 1.3 – 7.9 (10.8) |
| Rated current (for 24 V) (A) | – | 0.6 – 1.7 (2.3) | 0.6 – 4.0 (5.4) |
| Air Flow against 0.5 mbar (m³/h) | 93 | max. 132 (140) | max. 200 (220) |
| Air Flow against 0.5 mbar (cfm) | 55 | 77.7 (82) | 117.7 (129.4) |
| Dimensions L x W x H (mm) | 311 x 120 x 121 | 423 x 148 x 162 | 423 x 148 x 162 |
| Dimensions L x W x H (inch) | 12.2 x 4.7 x 4.7 | 16.6 x 5.8 x 6.3 | 16.6 x 5.8 x 6.3 |
| Weight (kg) | 2.6 | 5.9 | 5.9 |
| Weight (lbs) | 5.73 | 13 | 13 |
| Diameter air outlet (mm) | 60 | 90 | 90 |
| Diameter air outlet (inch) | 2.36 | 3.54 | 3.54 |
| Diameter exhaust (mm) | 22 | 24 | 24 |
| Diameter exhaust (inch) | 0.87 | 0.94 | 0.94 |

* Boost power level for a maximum duration of 6 h (Air Top Evo 40) or 30 min (Air Top Evo 55)

Air heaters

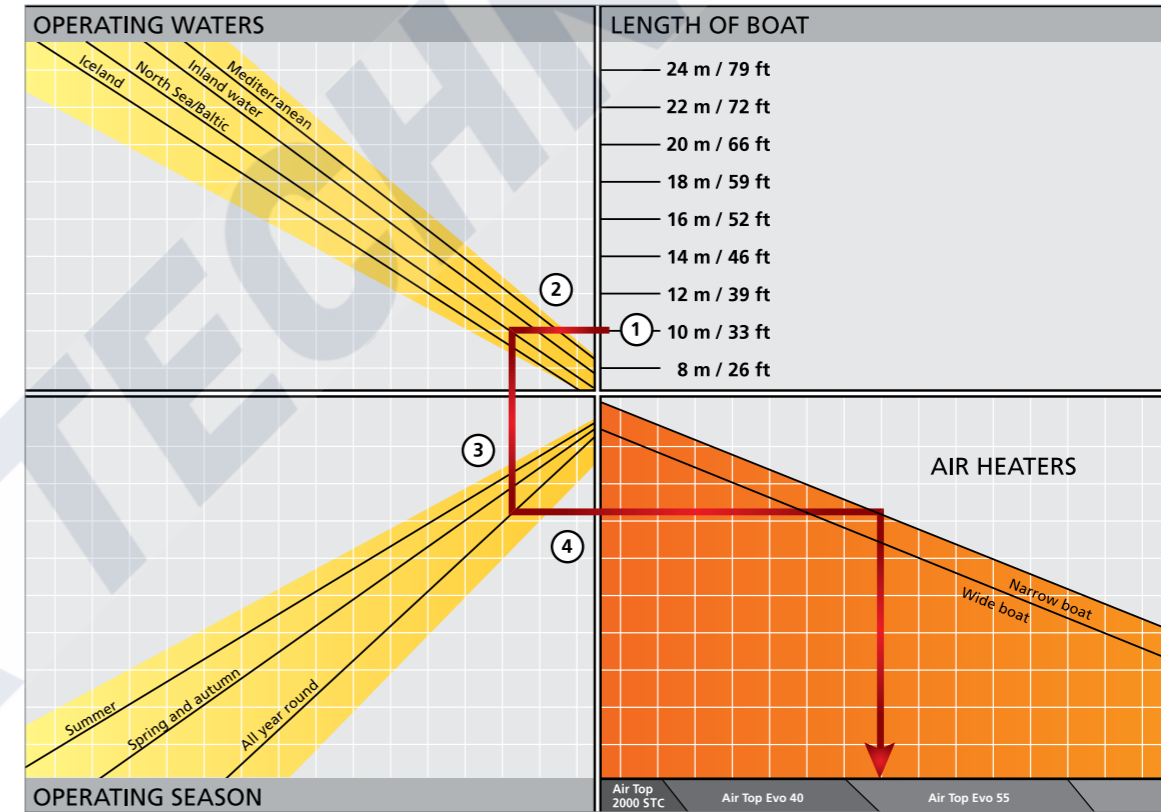
Application concept



- A** Space-saving and inconspicuous installation
- B** Intake for fresh air from outside
- C** Outlets for even distribution of warm air
- D** Safe and clean: the fuel system
- E** Combustion-air intake
- F** Stainless steel exhaust
- G** Controls – simple and logical to use

Air heaters

Selection tool



What's the best air heating system for my boat?

1. Select the length corresponding to your boat.
2. From there, trace a line to the left until you come to the line corresponding to the waters in which you plan to operate.
3. From there, trace a line vertically downwards until you come to the line corresponding to the season in which you plan to operate.
4. From there, trace a line to the right: You find the line corresponding to your type of boat in the upper section and then trace a line vertically downwards – that's the recommended system.

Our specialists can provide you with more information about this topic – for example about the influence of the water temperature in your operating waters on your choice of heating system. Simply contact one of our expert service points for individual advice, or consult the Marine Navigator DVD.



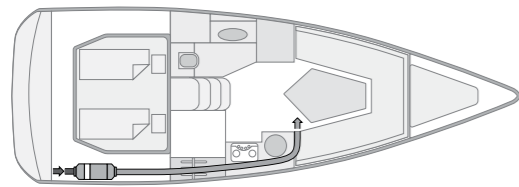
Air heaters

Air Top 2000 STC

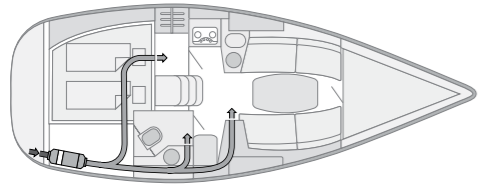


Air Top 2000 STC – quiet comfort

The quiet heater – the smallest air heater on the market. It offers excellent heat output and optimal economy.



For small boats with only one main cabin, one non-closable outlet is fully sufficient.



For this boat with two cabins and one head compartment one hot air outlet for each cabin is recommended. The main air duct should go into the salon and be non-closable.

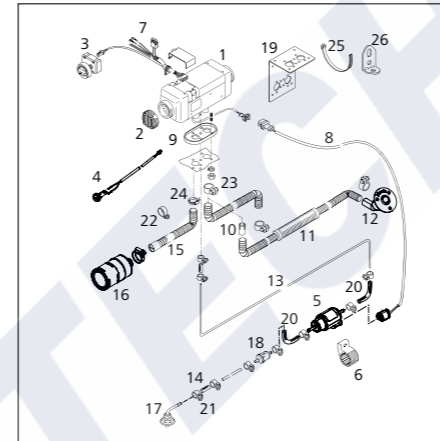
The new advantages of the Air Top 2000 STC marine kits

- Low noise dosing pump with PWM operation
- New external temperature sensor with new design
- Transparent fuel hose for easy inspection
- Easy combination with new MultiControl
- Easy to service and maintain, diagnostic capability
- Full W-bus compatibility of the heater
- Improved combustion air silencer reduces noise level

Technical specifications

| Air Top 2000 STC | |
|----------------------------------|---------------------|
| EC approval mark | E1 122R- 00 0216 |
| Heating power (kW) | 0.9 – 2.0 |
| Heating power (BTU/h) | 3,000 – 7,000 |
| Fuel, Fuel consumption (l/h) | Diesel, 0.12 – 0.24 |
| Fuel, Fuel consumption (gal/h) | Diesel, 0.03 – 0.06 |
| Rated voltage (V) | 12 |
| Rated power consumption (W) | 14 – 29 |
| Rated current at 12 V (A) | 1.2 – 2.4 |
| Air Flow against 0.5 mbar (m³/h) | 93 |
| Air Flow against 0.5 mbar (cfm) | 55 |
| Dimensions L x W x H (mm) | 311 x 120 x 121 |
| Dimensions L x W x H (inch) | 12.2 x 4.7 x 4.7 |
| Weight (kg) | 2.6 |
| Weight (lbs) | 5.73 |
| Diameter air outlet (mm) | 60 |
| Diameter air outlet (inch) | 2.36 |
| Diameter exhaust (mm) | 22 |
| Diameter exhaust (inch) | 0.87 |

Scopes of delivery



| Item | Qty | Description |
|------|-----|--|
| 1 | 1 | heater 12 V |
| 2 | 1 | grille, clips open Ø 60 |
| 3 | 1 | heater control element |
| 4 | 1 | Temperature sensor, external 2.5 m |
| 5 | 1 | metering pump |
| 6 | 1 | support for metering pump EPDM |
| 7 | 1 | wiring harness with fuse holder 12 / 24 V |
| 8 | 1 | wiring harness (metering pump) 7,000 lg |
| 9 | 1 | gasket |
| 10 | 1 | exhaust gas reducing bush 22/24 |
| 11 | 1 | exhaust silencer, leakproof Ø 24; 1,800 lg |
| 12 | 1 | exhaust through hull |
| 13 | 1 | transparent fuel hose: 5,000 lg |
| 14 | 5 | rubber fuel hose |
| 15 | 1 | Combustion air intake hose 300 lg |
| 16 | 1 | Combustion air intake silencer |
| 17 | 1 | tank extracting device |
| 18 | 1 | fuel filter |
| 19 | 1 | heater bracket stainless steel |
| 20 | | Vibration damper for fuel hose |
| | 1 | bag (with mech. mounting hardware) consisting of: |
| 21 | 10 | hose clamp (stainless) Ø 14 |
| 22 | 1 | pipe clip Ø 30 |
| 23 | 1 | hose clamp Ø 26 – 28 |
| 24 | 1 | hose clamp (stainless) Ø 16 – 27 |
| 25 | 17 | cable tie |
| 26 | 2 | angle bracket |

1

Order number

9032164A

Air Top 2000 STC Marine 12 V Diesel

NEW

The Marine heater kits include high quality stainless steel parts and accessories, long wiring harness, external temperature sensor and a noise suppression support for the dosing pump.

2

Air distribution

For the distribution of the hot air in your boat you need hoses, distributors and outlets. Please compose your air distribution system individually.

3

Fuel supply

For the installation of the heater in the engine compartment the fuel supply system has to be fire-resistant according to EN ISO 7840. Please order the adequate components additionally (fuel lines, fuel supply kit, rubber hose, fuel pump protection).

4

Exhaust system

Depending on the installation position and length of the exhaust pipe you may need a condensation water drain and an exhaust pipe insulation additionally.

5

Accessories (optional)

For extension of your heater system you find comfort control elements as well as other installation and system components in the accessories section.

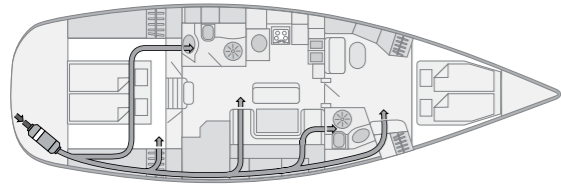
Air heaters

Air Top Evo 40

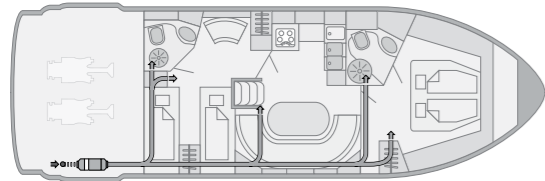


Air Top Evo 40 – the smart multi mode heater

High-output, compact and quiet, the heater is ideally suited for the most rigorous requirements. It can be upgraded with the new multi mode control panel to offer additional operation modes depending on individual heating requirements.



Each cabin and head compartment has its own air outlet. One outlet should be non-closable. The temperature sensor as well as the main air outlet is in the salon. The fresh air is taken in via the rear locker from outside.



In motor boats, the heater is usually placed in the engine compartment. The fresh air has to be taken in from outside the engine room. Special attention needs to be paid to a fire-resistant fuel supply system. One of the outlets should be non-closable.

Technical specifications

| | Air Top Evo 40* |
|-------------------------------------|---------------------------|
| EC approval mark ECE R122 (Heating) | E1 000385 |
| EC approval mark ECE R10 (EMC) | E1 035529 |
| Heating power (kW) | 1.5 – 3.5 (4.0*) |
| Heating power (BTU/h) | 5,100 – 12,000 (13,600*) |
| Fuel, Fuel consumption (l/h) | Diesel 0.18 – 0.43 (0.49) |
| Fuel, Fuel consumption (gal/h) | Diesel 0.04 – 0.11 (0.12) |
| Rated voltage (V) | 12, 24 |
| Rated power consumption (W) | 15 – 40 (55) |
| Rated current at 12 V (A) | 1.3 – 3.3 (4.6) |
| Rated current at 24 V (A) | 0.6 – 1.7 (2.3) |
| Air Flow against 0.5 mbar (m³/h) | 140 |
| Air Flow against 0.5 mbar (cfm) | 82.4 |
| Dimensions L x W x H (mm) | 423 x 148 x 162 |
| Dimensions L x W x H (inch) | 16.6 x 5.8 x 6.3 |
| Weight (kg) | 5.9 |
| Weight (lbs) | 13 |
| Diameter air outlet (mm) | 90 |
| Diameter air outlet (inch) | 3.54 |
| Diameter exhaust (mm) | 24 |
| Diameter exhaust (inch) | 0.94 |

* Boost power level for a maximum duration of 6 hrs.

The advantages of the Air Top Evo 40:

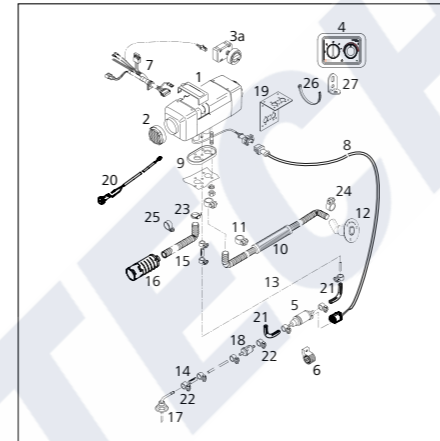
- 4.0 kW power for fast heating
- Very low electrical power consumption due to new Intelligent Blower Control
- New flame detection through exhaust gas temperature sensor
- Automatic cold start function for quick warm-up
- Improved air intake silencer
- Vibration dampers for fuel line
- Compatible to new MultiControl digital user interface
- Very silent operation due to lower blower speed and silent fuel pump (DP42)

What is the Intelligent Blower Control?

Thanks to the control of more parameters (more sensors), the heating regulation can now disconnect, to a certain extent, the heating output from the blower speed, resulting in:

- A lower electrical consumption and lower noise on regular operation (lower motor speed for same heat output).
- A higher heat output availability for applications with higher back pressure.

Scopes of delivery



| Item | Qty | Description |
|------|-----|--|
| 1 | 1 | heater 12 or 24 V |
| 2 | 1 | grille |
| 3a | 1 | standard heater control element |
| 4 | 1 | EVO M control element |
| 5 | 1 | metering pump 12 or 24 V |
| 6 | 1 | support for metering pump EPDM |
| 7 | 1 | wiring harness (heater); 9,500 lg |
| 8 | 1 | wiring harness (metering pump) 7,000 lg |
| 9 | 1 | gasket |
| 10 | 1 | exhaust silencer leakproof 1,800 lg |
| 11 | 1 | hose clamp Ø 28 – 35 |
| 12 | 1 | exhaust through hull |
| 13 | 1 | transparent fuel hose 12 V: 5,000 lg; 24 V: 8,000 lg |
| 14 | 5 | rubber fuel hose |
| 15 | 1 | combustion air intake hose 300 lg |
| 16 | 1 | combustion air intake silencer |
| 17 | 1 | tank extracting device |
| 18 | 1 | fuel filter |
| 19 | 1 | heater bracket stainless steel |
| 20 | 1 | temperature sensor, external 2.5 m |
| 21 | 2 | vibration damper for fuel hose |
| | 1 | bag (with mech. mounting hardware) consisting of: |
| 22 | 10 | hose clamp (stainless steel) Ø 14 |
| 23 | 1 | hose clamp Ø 16 – 27 (combustion air) |
| 24 | 2 | hose clamp Ø 26 – 28 (exhaust) |
| 25 | 1 | pipe clip (stainless steel) Ø 30 |
| 26 | 17 | cable tie |
| 27 | 2 | angle bracket |

1

Order number

9029249A
Air Top Evo 40 Marine 12 V Diesel

9029250A
Air Top Evo 40 Marine 24 V Diesel

9029251A
Air Top Evo 40 Marine 12 V Diesel with Air Top Evo M control

9029252A
Air Top Evo 40 Marine 24 V Diesel with Air Top Evo M control

The Marine heater kits include high quality stainless steel parts and accessories, long wiring harness, external temperature sensor and effective combustion and exhaust air silencers.

2

Air distribution

For the distribution of the hot air in your boat you need hoses, distributors and outlets. Please compose your air distribution system individually.

3

Fuel supply

For the installation of the heater in the engine compartment the fuel supply system has to be fire-resistant according to EN ISO 7840. Please order the adequate components additionally (fuel lines, fuel supply kit, rubber hose, fuel pump protection).

4

Exhaust system (optional)

Depending on the installation position and length of the exhaust pipe you may need a condensation water drain and an exhaust pipe insulation additionally.

5

Accessories (optional)

For extension of your heater system you find comfort control elements as well as other installation and system components in the accessories section.

Air heaters

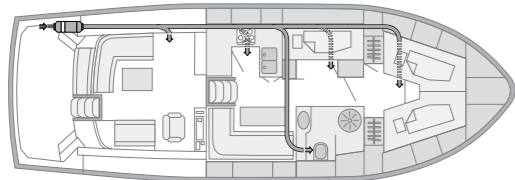
Air Top Evo 55



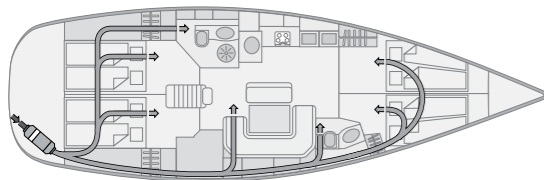
Air Top Evo 55 – for extreme conditions

Extremely powerful, compact and quiet, this heater ensures a comfortable climate for larger yachts even under the harshest conditions, and satisfies the most demanding requirements. It can be upgraded with the new multi mode user interface to offer additional operation modes depending on individual heating requirements.

Two Air Top heaters can be combined into one system for increased heating demand (up to 11 kW). The whole system can be operated via one central user interface.



Each of this five cabin yacht has an individual air outlet. The air duct to the salon as well as the front should have at least 80 mm Ø to ensure a good air flow and one of the outlets should be non-closable. The fresh air is taken in via the rear locker from outside.



With the heater in the engine compartment, the fuel supply system must be designed to be fire-resistant. The air outlet to the salon has to be non-closable. Air outlets for the other cabins or the head compartment may be closable to enable individual heat regulation.

Technical specifications

| | Air Top Evo 55* |
|-------------------------------------|---------------------------|
| EC approval mark ECE R122 (Heating) | E1 000385 |
| EC approval mark ECE R10 (EMC) | E1 035529 |
| Heating power (kW) | 1.5 – 5.0 (5.5*) |
| Heating power (BTU/h) | 5,100 – 17,000 (18,800*) |
| Fuel, Fuel consumption (l/h) | Diesel 0.18 – 0.61 (0.67) |
| Fuel, Fuel consumption (gal/h) | Diesel 0.04 – 0.15 (0.17) |
| Rated voltage (V) | 12, 24 |
| Rated power consumption (W) | 15 – 95 (130) |
| Rated current at 12 V (A) | 1.3 – 7.9 (10.8) |
| Rated current at 24 V (A) | 0.6 – 4.0 (5.4) |
| Air Flow against 0.5 mbar (m³/h) | 220 |
| Air Flow against 0.5 mbar (cfm) | 129 |
| Dimensions L x W x H (mm) | 423 x 148 x 162 |
| Dimensions L x W x H (inch) | 16.6 x 5.8 x 6.3 |
| Weight (kg) | 5.9 |
| Weight (lbs) | 13 |
| Diameter air outlet (mm) | 90 |
| Diameter air outlet (inch) | 3.54 |
| Diameter exhaust (mm) | 24 |
| Diameter exhaust (inch) | 0.94 |

* Boost power level for a maximum duration of 30 min.

The advantages of the Air Top Evo 55:

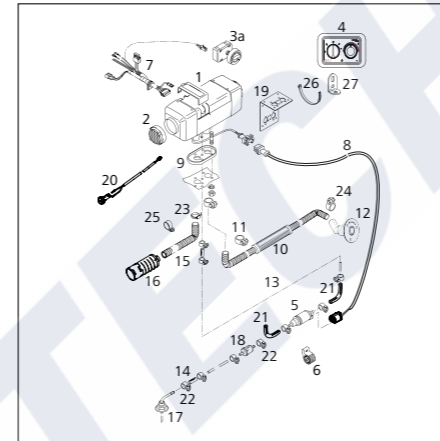
- 5.5 kW power for fast heating
- Very low electrical power consumption due to new Intelligent Blower Control
- New flame detection through exhaust gas temperature sensor
- Automatic cold start function for quick warm-up
- Improved air intake silencer
- Vibration dampers for fuel line
- Compatible to new MultiControl digital user interface
- Very silent operation due to lower blower speed and silent fuel pump (DP42)

What is the Intelligent Blower Control?

Thanks to the control of more parameters (more sensors), the heating regulation can now disconnect, to a certain extent, the heating output from the blower speed, resulting in:

- A lower electrical consumption and lower noise on regular operation (lower motor speed for same heat output).
- A higher heat output availability for applications with higher back pressure.

Scopes of delivery



| Item | Qty | Description |
|------|-----|--|
| 1 | 1 | heater 12 or 24 V |
| 2 | 1 | grille |
| 3a | 1 | standard heater control element |
| 4 | 1 | EVO M control element |
| 5 | 1 | metering pump 12 or 24 V |
| 6 | 1 | support for metering pump EPDM |
| 7 | 1 | wiring harness (heater); 9,500 lg |
| 8 | 1 | wiring harness (metering pump) 7,000 lg |
| 9 | 1 | gasket |
| 10 | 1 | exhaust silencer leakproof 1,800 lg |
| 11 | 1 | hose clamp Ø 28 – 35 |
| 12 | 1 | exhaust through hull |
| 13 | 1 | fuel hose 12 V: 5,000 lg; 24 V: 8,000 lg |
| 14 | 5 | rubber fuel hose |
| 15 | 1 | combustion air intake hose 300 lg |
| 16 | 1 | combustion air intake silencer |
| 17 | 1 | tank extracting device |
| 18 | 1 | fuel filter |
| 19 | 1 | heater bracket stainless steel |
| 20 | 1 | temperature sensor, external 2.5 m |
| 21 | 2 | vibration damper for fuel hose |
| | 1 | bag (with mech. mounting hardware) consisting of: |
| 22 | 10 | hose clamp (stainless steel) Ø 14 |
| 23 | 1 | hose clamp Ø 16 – 27 (combustion air) |
| 24 | 2 | hose clamp Ø 26 – 28 (exhaust) |
| 25 | 1 | pipe clip (stainless steel) Ø 30 |
| 26 | 17 | cable tie |
| 27 | 2 | angle bracket |

1

Order number

9029256A
Air Top Evo 55 Marine 12 V Diesel

9029257A
Air Top Evo 55 Marine 24 V Diesel

9029258A
Air Top Evo 55 Marine 12 V Diesel with Air Top Evo M control

9029259A
Air Top Evo 55 Marine 24 V Diesel with Air Top Evo M control

The Marine heater kits include high quality stainless steel parts and accessories, long wiring harness, external temperature sensor and effective combustion and exhaust air silencers.

2

Air distribution

For the distribution of the hot air in your boat you need hoses, distributors and outlets. Please compose your air distribution system individually.

3

Fuel supply

For the installation of the heater in the engine compartment the fuel supply system has to be fire-resistant according to EN ISO 7840. Please order the adequate components additionally (fuel lines, fuel supply kit, rubber hose, fuel pump protection).

4

Exhaust system (optional)

Depending on the installation position and length of the exhaust pipe you may need a condensation water drain and an exhaust pipe insulation additionally.

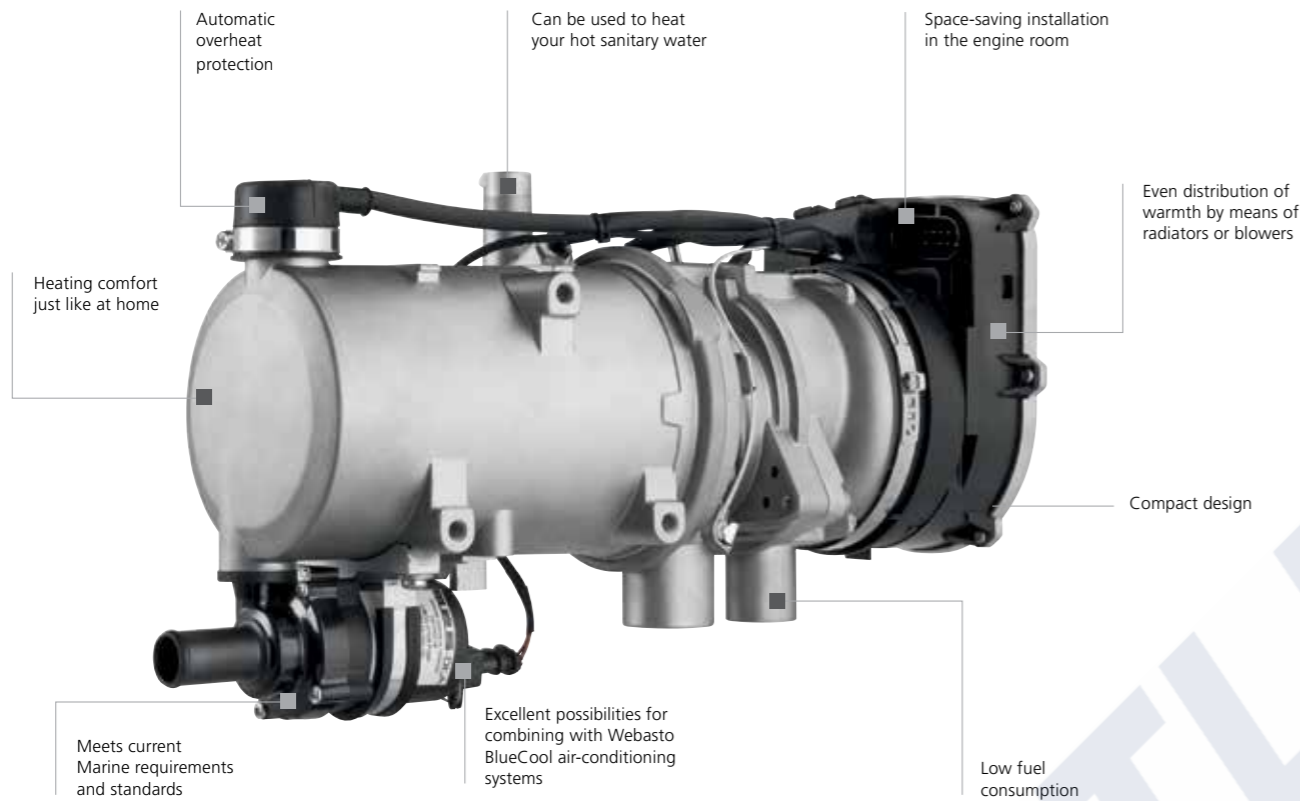
5

Accessories (optional)

For extension of your heater system you find comfort control elements as well as other installation and system components in the accessories section.

Water heaters

Thermo Pro 90: The renowned



Greater comfort with our innovative Webasto Thermo Call App. Run your water or air heater easily with a smartphone.



Water heaters

Product overview



- Thermo Top E
- Thermo Top C
- Thermo Pro 50 Eco

SEE PAGE 30



- Thermo Pro 90
- Thermo Pro 90 Chiller

SEE PAGE 32



- DBW 2010/2016

SEE PAGE 34



- Thermo 230/300/350

SEE PAGE 36

Water heaters

Product overview

| | Part no. | | EC approval mark | Heat output | | Fuel, Fuel consumption | Rated Voltage | Rated power consumption | | Flow rate of circulating pumps | Dimensions heater (L x W x H) | Dimensions control unit with mounting (L x W x H) | Weight heater incl. fuel pump |
|------------------------|-------------|-------------|---|--|------------------------|---|---------------|---|--|--|--|---|-------------------------------|
| | 12 V Diesel | 24 V Diesel | | part load | full load | | | part load | full load | | | | |
| Thermo Top E Marine | 9009334C | - | e1*2001/56*0003*_ | 2.5 kW 8,500 BTU/h | 4.2 kW 14,300 BTU/h | Diesel, 0.30 – 0.49 l/h Diesel, 0.08 – 0.12 gal/h | 12 V | 32 W 2.7 amps | 37 W 3.1 amps | 500 l/h against 0.14 bar 2.2 gal/min | 214 x 106 x 168 mm 8.4 x 4.2 x 6.6 inch | 95 x 61 x 61 mm 3.7 x 2.4 x 2.4 inch | 3.2 kg 7.1 lbs |
| Thermo Top C Marine | 9009335C | - | e1*2001/56*0002*_ | 2.5 kW 8,500 BTU/h | 5.2 kW 17,700 BTU/h | Diesel, 0.30 – 0.61 l/h Diesel, 0.08 – 0.16 gal/h | 12 V | 32 W 2.7 amps | 42 W 3.5 amps | 500 l/h against 0.14 bar 2.2 gal/min | 214 x 106 x 168 mm 8.4 x 4.2 x 6.6 inch | 95 x 61 x 61 mm 3.7 x 2.4 x 2.4 inch | 3.2 kg 7.1 lbs |
| Thermo Pro 50 E Marine | - | 9028080B | E1 00 0334 (ECE R122) E1 03 6271 (ECE R10) | 2.5 kW 8,500 BTU/h | 5 kW 17,100 BTU/h | Diesel, 0.30 – 0.60 l/h Diesel, 0.08 – 0.16 gal/h | 24 V | 28 W 1.2 amps | 46 W 1.9 amps | 500 l/h against 0.14 bar 2.2 gal/min | 218 x 91 x 144 mm 8.6 x 3.6 x 5.7 inch | - | 2.5 kg 5.3 lbs |
| Thermo Pro 90 Marine | 9029940A | 9029941A | E1 00 0320 (ECE R122) E1 04 6196 (ECE R10) | 1.8 – 7.6 kW 6,100 – 26,000 BTU/h | 9.1 kW 31,000 BTU/h | Diesel 0.18 – 1.08/1.3 l/h Diesel 0.05 – 0.24/0.34 gal/h | 12 V, 24 V | 20 – 83 W 3.0 – 6.9 amps at 12 V 1.5 – 3.5 amps at 24 V | 90 W 7.5 amps at 12 V 3.8 amps at 24 V | 700 l/h against 0.3 bar 3.1 gal/min | 352 x 131 x 232 mm 13.9 x 5.2 x 9.1 inch | 134 x 53 x 90 mm | 5.3 kg 11.7 lbs |
| Thermo Pro 90 Chiller | 9029942A | 9029943A | E1 00 0320 (ECE R122) E1 04 6196 (ECE R10) | 1.8 – 7.6 kW 6,100 – 26,000 BTU/h | 9.1 kW 31,000 BTU/h | Diesel 0.18 – 1.08/1.3 l/h Diesel 0.05 – 0.24/0.34 gal/h | 12 V, 24 V | 20 – 83 W 3.0 – 6.9 amps at 12 V 1.5 – 3.5 amps at 24 V | 90 W 7.5 amps at 12 V 3.8 amps at 24 V | 700 l/h against 0.3 bar 3.1 gal/min | 352 x 131 x 188 mm 13.9 x 5.2 x 7.4 inch | 134 x 53 x 90 mm | 4.9 kg 10.8 lbs |
| DBW 2010 | 9023677A | 9023679A | e1*2001/56*2004/78*0006_ | 11.6 kW 40,000 BTU/h | | Diesel, 1.5 l/h Diesel, 0.4 gal/h | 12 V, 24 V | 60 W 5.0 amps at 12 V 2.5 amps at 24 V | | 1,600 l/h against 0.15 bar 7 gal/min | 584 x 205 x 228 mm 23 x 8.1 x 9 inch | 111 x 117 x 49 mm 4.4 x 4.6 x 2 inch | 14.5 kg 33 lbs |
| DBW 2016 | 9012936A | 9012935A | e1*2001/56*2004/78*0006_ | 16.0 kW 54,600 BTU/h | | Diesel, 1.9 l/h Diesel, 0.5 gal/h | 12 V, 24 V | 90 W 7.5 amps at 12 V 3.8 amps at 24 V | | 1,600 l/h against 0.15 bar 7 gal/min | 584 x 205 x 228 mm 23 x 8.1 x 9 inch | 111 x 117 x 49 mm 4.4 x 4.6 x 2 inch | 14.5 kg 33 lbs |
| Thermo 230 | - | 9810065A | e1*2001/56*0007*_ | 23.0 kW 80,000 BTU/h | | Diesel, 2.5 l/h Diesel, 0.8 gal/h | 24 V | 65 W 2.7 amps at 24 V | | 5,200 l/h against 0.15 bar 6,000 l/h against 0.4 bar 23 gal/min against 0.15 bar 26.4 gal/min against 0.4 bar | 610 x 246 x 220 mm 24 x 9.7 x 8.7 inch | - | 19.0 kg 42 lbs |
| Thermo 300 | - | 9810066A | e1*2001/56*0008*_ | 30.0 kW 104,000 BTU/h | | Diesel, 3.3 l/h Diesel, 0.87 gal/h | 24 V | 110 W 4.6 amps at 24 V | | 5,200 l/h against 0.15 bar 6,000 l/h against 0.4 bar 23 gal/min against 0.15 bar 26.4 gal/min against 0.4 bar | 610 x 246 x 220 mm 24 x 9.7 x 8.7 inch | - | 19.0 kg 42 lbs |
| Thermo 350 | - | 9810067A | e1*2001/56*0009*_ | 35.0 kW 119,400 BTU/h | | Diesel, 3.7 l/h Diesel, 0.98 gal/h | 24 V | 140 W 5.8 amps at 24 V | | 5,200 l/h against 0.15 bar 6,000 l/h against 0.4 bar 23 gal/min against 0.15 bar 26.4 gal/min against 0.4 bar | 610 x 246 x 220 mm 24 x 9.7 x 8.7 inch | - | 19.0 kg 42 lbs |
| Water station T50/TP50 | 77054500 | 3395246A | e1*2001/56*0002*_ | 2.6 kW 8,800 BTU/h | 5.2 kW 17,700 BTU/h | Diesel, 0.29 – 0.59 l/h Diesel, 0.08 – 0.16 gal/h | 12 V, 24 V | 22 – 34 W 1.8 – 2.8 amps at 12 V 0.9 – 1.4 amps at 24 V | 32 – 50 W 2.6 – 4.2 amps at 12 V 1.3 – 2.1 amps at 24 V | - | 390 x 235 x 310 mm 15.4 x 9.3 x 12.2 inch | - | 15.0 kg 33.1 lbs |
| Water station TP90 | 3396567A | 3396568A | e1*2001/56*0019*_ | 1.8 – 7.6 kW continuous 9.1 kW boost mode 6,100 – 26,000 BTU/h continuous 31,000 BTU/h boost mode | | Diesel, 0.19 – 0.9 l/h Diesel, 0.05 – 0.24 gal/h | 12 V, 24 V | 37 W 3.1 amps at 12 V 1.6 amps at 24 V | 83/90 W* * boost mode 7/7.5 amps at 12 V 3.5/3.8 amps at 24 V | - | 390 x 235 x 310 mm 15.4 x 9.3 x 12.2 inch | - | 16.5 kg 36.4 lbs |



Thermo Top E Marine
Thermo Top C Marine



Thermo Pro 90 Marine



DBW 2010/2016



Thermo 230/300/350



Water stations T 50/TP 50/TP 90

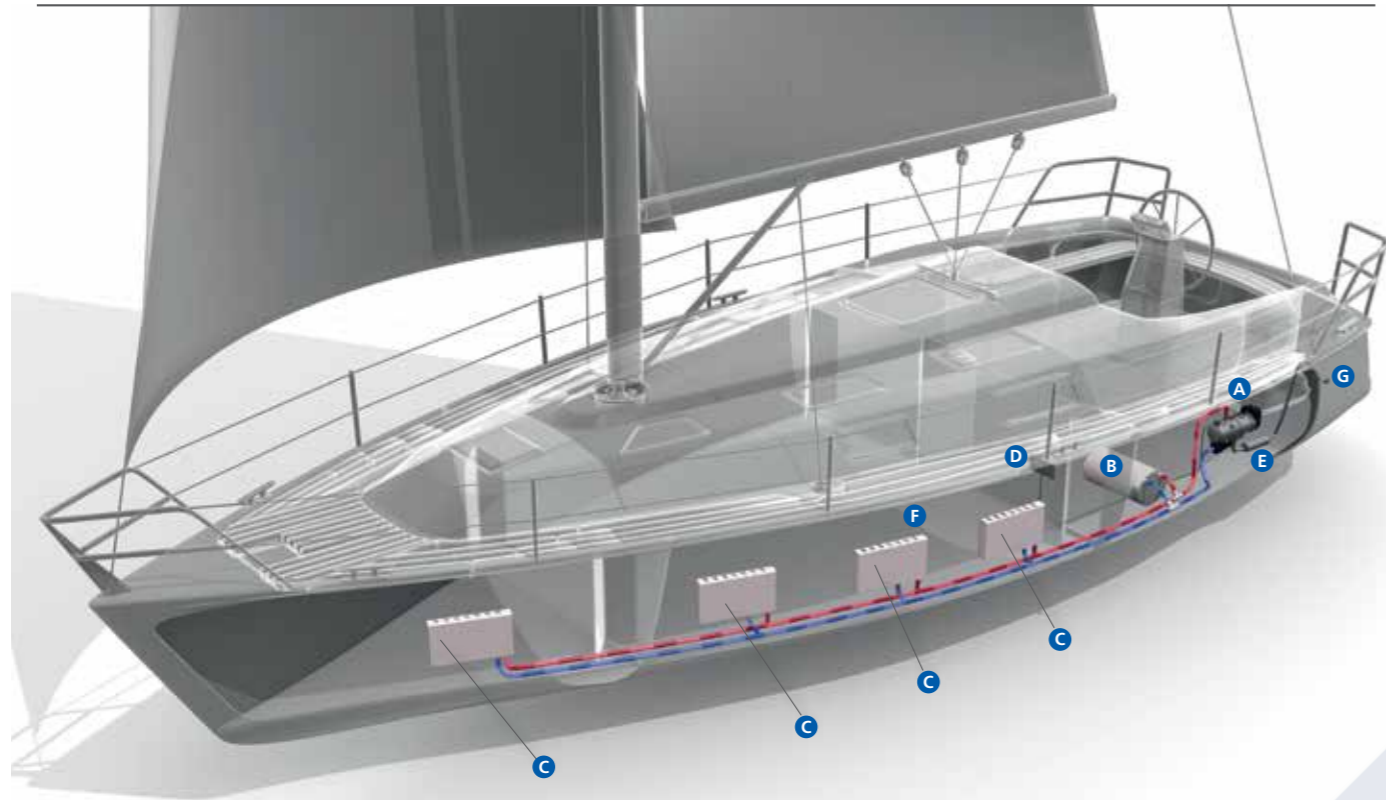


Water stations
DBW 2010/2016
Thermo S 160/230/300/350

Webasto water stations consist of a Webasto water heater unit, integrated in a complete system, to produce continuously hot water for various uses. For technical data please see page 39.

Water heaters

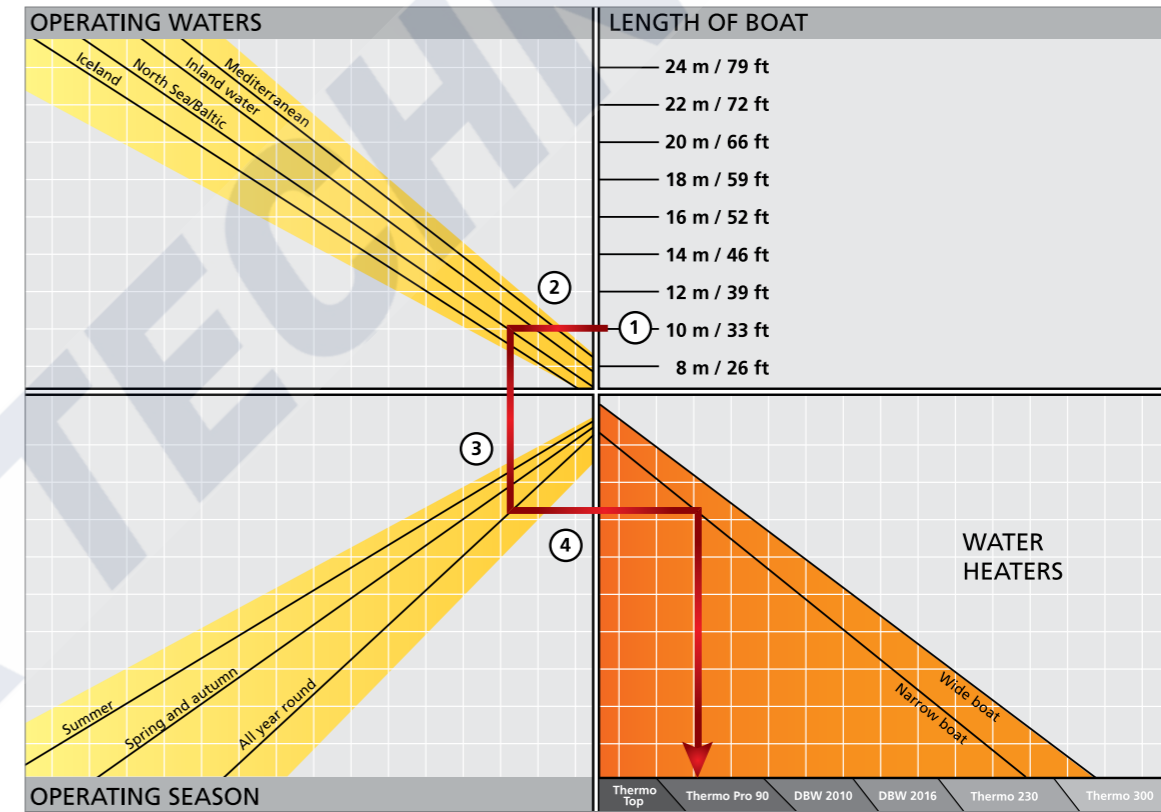
Application concept



- A** Space-saving and inconspicuous installation in the engine room
- B** Boiler for heating hot water – for extra comfort
- C** One radiator for each cabin allows an individual temperature control
- D** Controls – simple and logical to use
- E** Circulating pump
- F** Fresh water tank
- G** Stainless steel exhaust

Water heaters

Selection tool



What's the best water heating system for my boat?

1. Select the length corresponding to your boat.
2. From there, trace a line to the left until you come to the line corresponding to the waters in which you plan to operate.
3. From there, trace a line vertically downwards until you come to the line corresponding to the season in which you plan to operate.
4. From there, trace a line to the right: Select the line corresponding to your type of boat in the lower section and then trace a line vertically downwards – that's the recommended system.

Our specialists can provide you with more information about this topic – for example about the influence of the water temperature in your operating waters on your choice of heating system. Simply contact one of our expert service points for individual advice, or consult the Marine Navigator DVD.



Water heaters

Thermo Top E / Thermo Top C / Thermo Pro 50 Eco

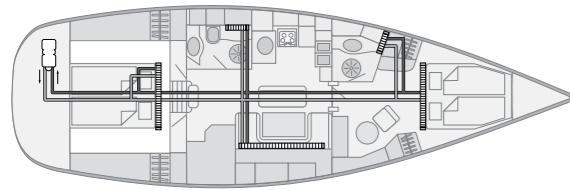


Thermo Top water heaters

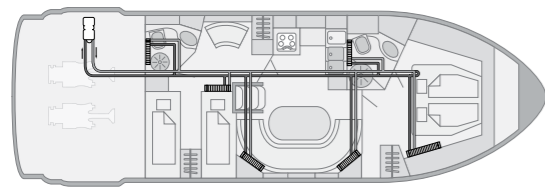
This compact 5 kW unit is ideal for the majority of marine applications. Compact design, variable temperature control, service friendly technology and low noise levels.

Thermo Top E Comfort Classic – the heater for integration into the BlueComfort Classic A/C system

For a BlueComfort Classic system, you need to order the Thermo Top E Comfort Classic heater and combine it into one system with the air-conditioning unit. This heater model has special temperature settings both for the air-conditioning unit as well as for a boiler integration.



The Thermo Top C is placed in the locker compartment of the boat. Radiators are used to heat up the boat, because electrical autonomy in this size of boat is often very important and radiators do not consume electricity of the battery.



The Thermo Top in the engine compartment is able to heat the entire boat. Each cabin has individually sized convectors to match the heating requirements.

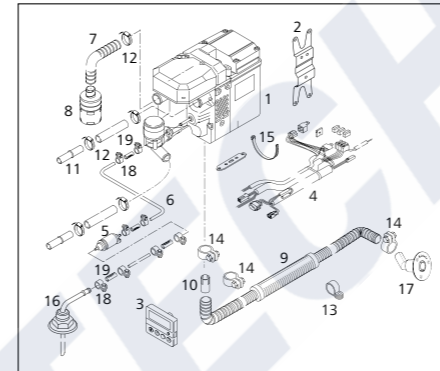
The advantages of water heaters:

- Heating comfort just like at home
- Even distribution of warmth by means of radiators
- Hot water for the shower and galley
- Silent operation
- Space-saving installation in the engine room
- Excellent possibilities for combining with Webasto BlueCool air-conditioning systems
- Separate temperature control in every cabin
- Low fuel consumption
- Compact design
- Preheating of the engine possible to avoid cold starts
- Meet current requirements and standards relating to boats
- Robust aluminum casing, resistant to high temperature or salt

Technical specifications

| | Thermo Top E | Thermo Top C | Thermo Pro 50 Eco |
|--|---------------------|---------------------|---|
| EC approval mark | e1*2001/56*003*_ | e1*2001/56*002*_ | ECE R122 (Heating) E1 00 0334 ECE R10 (EMV) E1 03 6271 |
| Heating power (kW) | 4.2 | 5.2 | 5.0 |
| Heating power (BTU/h) | 14,300 | 17,700 | 17,100 |
| Fuel consumption (l/h) | Diesel, 0.3 – 0.49 | Diesel, 0.29 – 0.59 | Diesel, 0.3 – 0.6 |
| Fuel consumption (gal/h) | Diesel, 0.08 – 0.12 | Diesel, 0.08 – 0.16 | Diesel, 0.08 – 0.16 |
| Rated voltage (V) | 12 | 12 | 24 |
| Rated power consumption (W) | 32 – 37 | 32 – 42 | 28 – 46 |
| Rated power consumption (amps) | 2.7 – 3.1 | 2.7 – 3.5 | 1.2 – 1.9 |
| Flow rate of circulating pump (against 0.14 bar) (l/h) | 500 | 500 | 500 |
| Flow rate of circulating pump (against 0.14 bar) (gal/min) | 2.2 | 2.2 | 2.2 |
| Flow rate of circulating pump (against 0.10 bar) (l/h) | – | – | 900 |
| Flow rate of circulating pump (against 0.10 bar) (gal/min) | – | – | 4 |
| Dimensions L x W x H (mm) | 214 x 106 x 168 | 214 x 106 x 168 | 218 x 91 x 144 |
| Dimensions L x W x H (inch) | 8.4 x 4.2 x 6.6 | 8.4 x 4.2 x 6.6 | 8.6 x 3.6 x 5.7 |
| Weight (kg) | 3.2 | 3.2 | 2.5 |
| Weight (lbs) | 7.1 | 7.1 | 5.3 |

Scopes of delivery



| Item | Qty | Description |
|------|-----|--|
| 1 | 1 | heater 12 V (including circulating pump and electronic control unit) |
| 2 | 1 | heater bracket |
| 3 | 1 | operating control set (not with 9019718A) |
| 4 | 1 | wiring harness |
| 5 | 1 | metering pump + EPDM support |
| 6 | 1 | fuel hose Øi 1,5 / Øa 5; 6,000 lg |
| 7 | 1 | air-intake hose HMA Øi 22 / Øa 25; 400 lg |
| 8 | 1 | air-intake silencer |
| 9 | 1 | exhaust silencer leak-proof Ø 24; 1,800 lg |
| 10 | 1 | exhaust reducer |
| | 1 | bag (mounting hardware) consisting of: |
| 11 | 2 | connection pipe, plastic Ø 18 x 27 |
| 12 | 7 | hose clamp (chrome) Ø 16 – 27 |
| 13 | 2 | pipe clip Ø 25 |
| 14 | 3 | pipe clip Ø 24 – 27 |
| 15 | 30 | cable tie 178 lg |
| 16 | 1 | tank extracting device |
| 17 | 1 | exhaust through hull |
| | 1 | bag (accessories) consisting of: |
| 18 | 8 | hose clamp (steel) Ø 14 |
| 19 | 4 | fuel hose 5 x 50 |

1 Order number

- 9009334C**
Thermo Top E Marine 12 V Diesel
- 9019718A**
Thermo Top E Comfort Classic 12 V Diesel
- 9009335C**
Thermo Top C Marine 12 V Diesel
- 9028080B**
Thermo Pro 50 Eco Marine 24 V Diesel

2 Water system

For the distribution of heat in your boat you may need extra hoses, valves, expansion tank, convectors, air handlers etc. Please compose your water system individually.

3 Fuel supply

For the installation of the heater in the engine compartment the fuel supply system has to be fire-resistant according to EN ISO 7840. Please order the adequate components additionally (fuel lines, fuel supply kit, rubber hose, fuel pump protection).

4 Exhaust system

Depending on the installation position and length of the exhaust pipe you may need a condensation water drain and an exhaust pipe insulation additionally.

5 Accessories (optional)

For extension of your heater system you find comfort control elements as well as other installation and system components in the accessories section.

Water heaters

Thermo Pro 90 / Thermo Pro 90 Chiller



Thermo Pro 90 Marine – state-of-the art controller and easy service

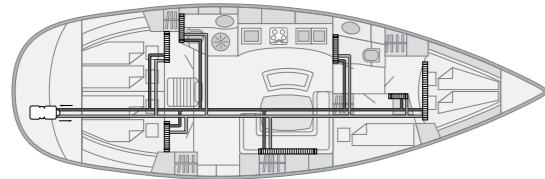
This device is ideal for daily use: infinitely variable power adjustment, high heat output, compact dimensions, service-friendly technology and an extremely low noise level.

Thermo Pro 90 Chiller – the heater for integration into an A/C system

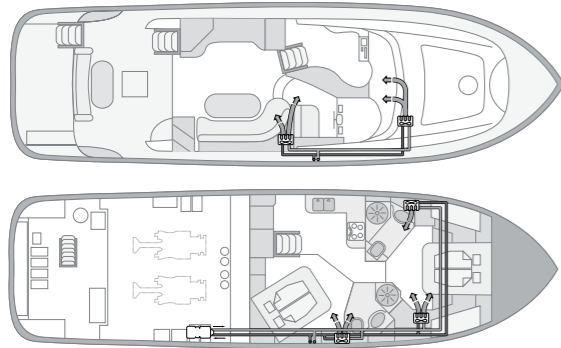
If you want to build a BlueComfort system with a Thermo 90 heater, use the Thermo Pro 90 Chiller version. It comes with a special electronic control unit and without the water pump which is not needed.

The advantages of the Thermo Pro 90:

- Ideal for daily use
- Infinitely variable power adjustment
- High heat output
- Compact dimensions
- Service friendly technology
- Extremely low noise level



This 44' sailing yacht uses convectors for all cabins to heat the boat. Convectors are noiseless and do not consume any electrical power off the battery, therefore resulting in a very high electrical autonomy.

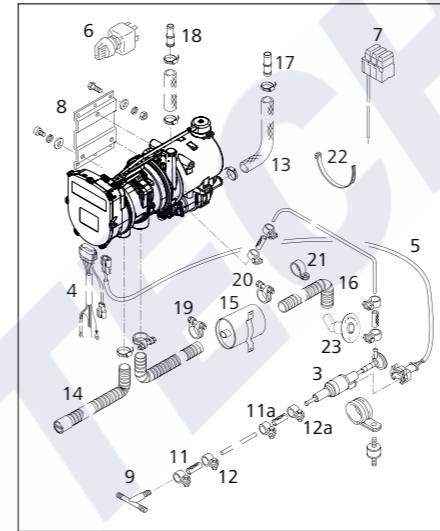


In this 40' motor yacht electrical fan blowers are used to heat up the boat. They are very compact and may be easily installed in small spaces, blowing hot air through air ducts into each cabin. The windscreen has a separate blower to demist and defrost.

Technical specifications

| | Thermo Pro 90 |
|---|--|
| Heating power (kW) | 1.8 – 7.6 kW; boost mode 9.1 |
| Heating power (BTU/h) | 6,100 – 26,000 BTU/h; boost mode 31,000 |
| Fuel, Fuel consumption, partial/full load/boost (l/h) | Diesel 0.18 – 1.08/1.3 |
| Fuel, Fuel consumption, partial/full load/boost (gal/h) | Diesel 0.05 – 0.24/0.34 |
| Rated voltage (V) | 12, 24 |
| Rated power consumption (W) | 20 – 83 (90 Boost), 3.0 – 6.9 amps (7.5 Boost) at 12 V, 1.5 – 3.5 amps (3.8 Boost) at 24 V |
| Flow rate of circulating pump (against 0.3 bar) (l/h) | 700 |
| Flow rate of circulating pump (against 0.3 bar) (gal/min) | 3.1 |
| Dimensions L x W x H (mm) | 352 x 131 x 232 |
| Dimensions L x W x H (inch) | 13.9 x 5.2 x 9.1 |
| Weight (kg) | 5.3 |
| Weight (lbs) | 11.7 |

Scopes of delivery



| Item | Qty | Description |
|------|-----|---|
| 1 | 1 | heater 12 or 24 V including circulating pump and electronic control unit (no circulating pump with Thermo Pro 90 Chiller) |
| 2 | 1 | electronic control unit |
| 3 | 1 | metering pump |
| 4 | 1 | wiring harness (heater, 570 lg) |
| 5 | 1 | wiring harness (metering pump, 5,000 lg) |
| 6 | 1 | switch with lamp 12 or 24 V (not with 9029942A and 9029943A) |
| 7 | 1 | fuse holder with wiring harness |
| 8 | 1 | heater bracket |
| 9 | 1 | T-piece + fuel hoses & hose clamps (8 x 5 x 8) |
| 10 | 1 | hose Ø 5 x 1.5; 6,000 lg |
| 11 | 4 | fuel hose Øi 4.5 / Øa 10.5; 50 lg |
| 11a | 2 | fuel hose Øi 8 / Øa 12; 70 lg |
| 12 | 8 | hose clamp (steel; Ø 10) |
| 12a | 4 | hose clamp (steel; Ø 12) |
| 13 | 1 | bent hose Øi 20 / Øa 29; 2,200 lg |
| 14 | 1 | air intake silencer PAK Øi 30,5 / Øa 38; 1,160 lg |
| 15 | 1 | exhaust silencer Øa 38 |
| 16 | 1 | flexible pipe (inoxyl.) Øi 38 / Øa 42; 1,600 lg (1 x 1,000 mm + 1 x 600 mm) |
| 17 | 2 | connection pipe Ø 18 x 20 |
| 18 | 2 | connection pipe Ø 20 x 20 |
| 19 | 7 | hose clamp Ø 23 ... 35 |
| 20 | 3 | hose clamp Ø 39 ... 42 |
| 21 | 2 | pipe clip Ø 42 |
| 22 | 15 | cable tie 178 lg |
| 23 | 1 | exhaust through hull |

1 Order number

- 9029940A**
Thermo Pro 90 Marine 12 V Diesel
- 9029941A**
Thermo Pro 90 Marine 24 V Diesel
- 9029942A**
Thermo Pro 90 Chiller 12 V Diesel
- 9029943A**
Thermo Pro 90 Chiller 24 V Diesel

2 Water system

For the distribution of heat in your boat you may need extra hoses, valves, expansion tank, convectors, air handlers etc. Please compose your water system individually.

3 Fuel supply

For the installation of the heater in the engine compartment the fuel supply system has to be fire-resistant according to EN ISO 7840. Please order the adequate components additionally (fuel lines, fuel supply kit, rubber hose, fuel pump protection).

4 Exhaust system

Depending on the installation position and length of the exhaust pipe you may need a condensation water drain and an exhaust pipe insulation additionally.

5 Control element

Please order an adequate control element. For the Thermo Pro 90 Chiller no control element is needed. The heater is activated via the air-conditioning control.

6 Accessories (optional)

For extension of your heater system you find comfort control elements as well as other installation and system components in the accessories section.

Water heaters

DBW 2010/2016

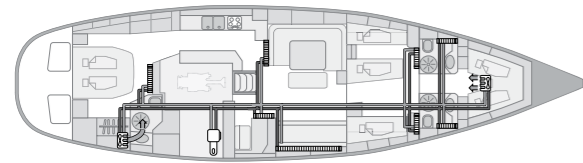


DBW 2010/2016 water heater – the robust classic

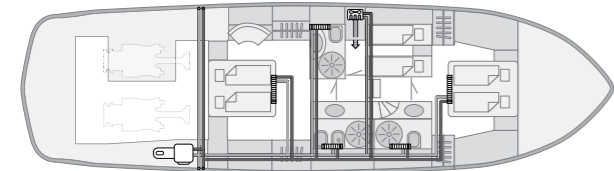
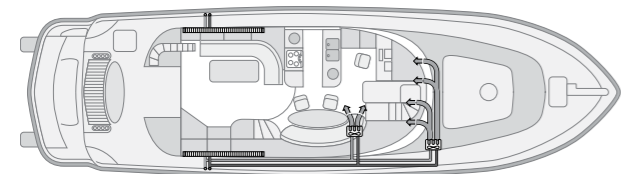
The most robust device on the market has proven itself through many years of use. The water heating system is also suitable for demanding applications with high heat output of 11.6 kW.

Expert recommendation: DBW 2010 water station

Used as a central unit, the Webasto water station is premounted on a tray for easy installation and comes with a soundproofed housing as well as a high performance circulation pump. In addition, the domestic water is heated in the Webasto calorifier as needed.



In this 64' sailing yacht the heater is installed in the technical compartment. Mainly convectors are used as heat exchangers. Fan blowers are only used in cabins with space restrictions or where quick heating up or air circulation is required.



The heater in this 50' motor yacht provides heating for both decks. A combination of convectors and fan blowers is used. For heating sanitary water as well, a Webasto water station could be used to easily integrate a calorifier.

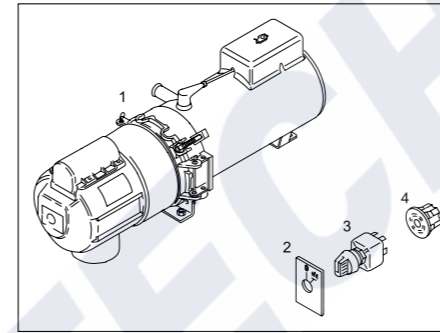
Technical specifications

| | DBW 2010 | DBW 2016 |
|--|--|--|
| EC approval mark | e1*2001/56*2004/78*0006*_ | e1*2001/56*2004/78*0006*_ |
| Heating power (kW) | 11.6 | 16.0 |
| Heating power (BTU/h) | 45,000 | 54,600 |
| Fuel, Fuel consumption (l/h) | Diesel, 1.5 | Diesel, 1.9 |
| Fuel, Fuel consumption (gal/h) | Diesel, 0.4 | Diesel, 0.5 |
| Rated voltage (V) | 12, 24 | 12, 24 |
| Rated power consumption (W) | 60 5 amps at 12 V 2.5 amps at 24 V | 90 7.5 amps at 12 V 3.7 amps at 24 V |
| Flow rate of circulating pump (against 0.15 bar) (l/h) | 1,600 | 1,600 |
| Flow rate of circulating pump (against 0.15 bar) (gal/min) | 7 | 7 |
| Dimensions L x W x H (mm) | 584 x 205 x 228 | 584 x 205 x 228 |
| Dimensions L x W x H (inch) | 23 x 8.1 x 9 | 23 x 8.1 x 9 |
| Weight (kg) | 14.5 | 14.5 |
| Weight (lbs) | 33 | 33 |

The advantages of the DBW 2010/2016:

- Most robust device on the market
- Especially suitable when high heat output is required

Scopes of delivery



| Item | Qty | Description |
|------|-----|--|
| 1 | 1 | heater 12 or 24 V |
| | 4 | hose clamps Ø 10 |
| | 1 | hose clamp Ø 29 |
| | 1 | gauge (for checking of spark setting) |
| | 1 | bag (with electrical hardware) consisting of: |
| | | plate (to item 3) |
| 2 | 1 | switch with lamp 12 or 24 V |
| 3 | 1 | central plug (to item 3) |
| 4 | 1 | plug connector |
| | 1 | connector housing |
| | 2 | insert, male |
| | 16 | insert, male |

1

Order number

- 9023677A**
DBW 2010 12 V Diesel
- 9023679A**
DBW 2010 24 V Diesel
- 9012936A**
DBW 2016 12 V Diesel
- 9012935A**
DBW 2016 24 V Diesel

2

Water system

In addition, the water pump U4846 or U4814 is needed. For the distribution of heat in your boat you may need extra hoses, valves, expansion tank, convectors, air handlers etc. Please compose your water system individually.

3

Fuel supply

Please compose the adequate system components for your boat individually. For the installation of the heater in the engine compartment the fuel supply system has to be fire-resistant according to EN ISO 7840.

4

Exhaust system

Please order exhaust hose, the exhaust silencer and skin fitting additionally. Depending on the installation position and length of the exhaust pipe you may need a condensation water drain and an exhaust pipe insulation additionally.

5

Accessories (optional)

For extension of your heater system you find comfort control elements as well as other installation and system components in the accessories section.

Water heaters

Thermo 230/300/350



Thermo 230/300/350 – for high heating power demands

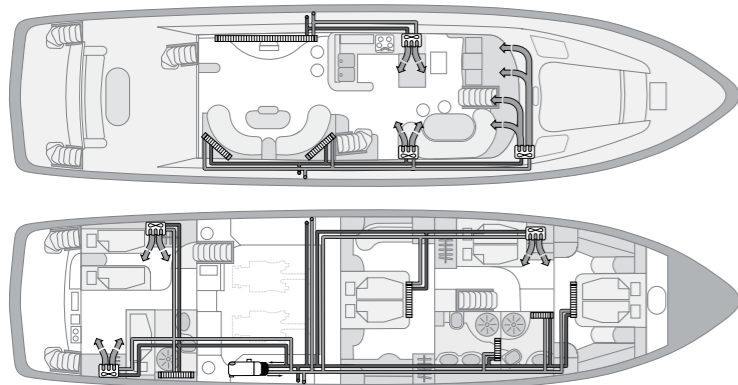
The device is suitable for very large boats. The heater has the power to keep every part of your boat warm and challenges even extreme weather conditions. In case one heater is not sufficient (e.g. very large boats) two heaters can be combined.

Expert recommendation: Thermo 230 water station

The powerful and proven Thermo 230 water station is particularly well suited for heating up large boats and yachts. It is warm and cozy on board with sufficient hot water for comfortable relaxation.

The advantages of the Thermo 230/300/350:

- Suitable for very large boats
- Challenges even extreme weather conditions

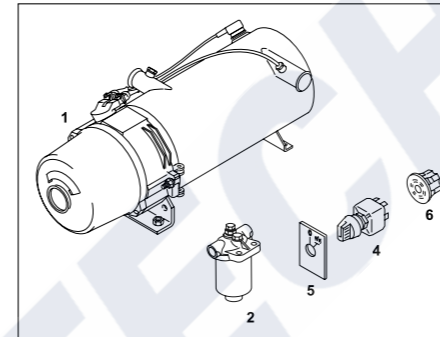


Five separate heating circuits branch off from the Thermo 230 heater in the engine room. This allows a precise water flow regulation for each segment of the boat. A combination of convectors and fan blowers is used. For the windscreen a separate fan blower ensures to quickly demist and defrost.

Technical specifications

| | Thermo 230 | Thermo 300 | Thermo 350 |
|--|-------------------|-------------------|-------------------|
| EC approval mark | e1*2001/56*0007*_ | e1*2001/56*0008*_ | e1*2001/56*0009*_ |
| Heating power (kW) | 23.0 | 30.0 | 35.0 |
| Heating power (BTU/h) | 80,000 | 104,000 | 119,400 |
| Fuel, Fuel consumption (l/h) | Diesel, 2.5 | Diesel, 3.3 | Diesel, 3.7 |
| Fuel, Fuel consumption (gal/h) | Diesel, 0.8 | Diesel, 0.87 | Diesel, 0.98 |
| Rated voltage (V) | 24 | 24 | 24 |
| Rated power consumption (W) | 65 | 110 | 140 |
| | 2.7 amps at 24 V | 4.6 amps at 24 V | 5.8 amps at 24 V |
| Flow rate of circulating pump (against 0.15 bar) (l/h) | 5,200 | 5,200 | 5,200 |
| Flow rate of circulating pump (against 0.15 bar) (gal/min) | 23 | 23 | 23 |
| Flow rate of circulating pump (against 0.4 bar) (l/h) | 6,000 | 6,000 | 6,000 |
| Flow rate of circulating pump (against 0.4 bar) (gal/min) | 26.4 | 26.4 | 26.4 |
| Dimensions L x W x H (mm) | 610 x 246 x 220 | 610 x 246 x 220 | 610 x 246 x 220 |
| Dimensions L x W x H (inch) | 24 x 9.7 x 8.7 | 24 x 9.7 x 8.7 | 24 x 9.7 x 8.7 |
| Weight (kg) | 19.0 | 19.0 | 19.0 |
| Weight (lbs) | 42 | 42 | 42 |

Scopes of delivery



| Item | Qty | Description |
|------|-----|--|
| 1 | 1 | heater 24 V |
| 2 | 1 | fuel filter |
| | 1 | bag (with mechanical connecting parts) consisting of: |
| | 2 | double pipe socket M14 x 1.5 |
| | 4 | nipple |
| | 4 | union nuts |
| | 2 | gasket rings etc. |
| | 1 | bag (with electrical hardware) consisting of: |
| 4 | 1 | switch with lamp 24 V |
| 5 | 1 | plate (to item 4) |
| 6 | 4 | central plug (to item 4) |
| | 8 | plug connector, 2 pole |
| | 1 | plug connector, 6 pole |
| | 1 | plug connector, 8 pole |
| | 14 | plug connector, 8 pole |
| | 8 | flat spring contacts |

1 Order number

- 9810065A**
Thermo 230 24 Volt Diesel
- 9810066A**
Thermo 300 24 Volt Diesel
- 9810067A**
Thermo 350 24 Volt Diesel

2 Water system

In addition a water pump e.g. from the Aquavent range is needed. For the distribution of heat in your boat you may need extra hoses, valves, expansion tank, convectors, air handlers etc. Please compose your water system individually.

3 Fuel supply

Please compose the adequate system components for your boat individually. For the installation of the heater in the engine compartment the fuel supply system has to be fire-resistant according to EN ISO 7840.

4 Exhaust system

Please order exhaust hose, the exhaust silencer and skin fitting additionally. Depending on the installation position and length of the exhaust pipe you may need a condensation water drain and an exhaust pipe insulation additionally.

5 Accessories (optional)

For extension of your heater system you find comfort control elements as well as other installation and system components in the accessories section.

Marine water stations

Plug & heat central heating units

The Webasto marine water stations are sophisticated robust solutions, designed to be used everyday, in every area and under all circumstances. The water stations have compact dimensions in all capacities (11.6 kW to 35 kW) and come with optional brackets for floor or wall mounting. The units are assembled on a stainless steel tray, fitted in a modern enclosure and operate very quietly.

Four versions in five different capacities (from 11.6 kW to 35 kW):

- Central heating
- Central heating + hot sanitary water through boiler
- Central heating + hot sanitary water through integrated plate heat exchanger
- Central heating for air-conditioner integration

The advantages of the water stations:

- Compact dimensions, robust construction
- Pre-mounted for easy installation
- Operate on 12 / 24 V battery power
- Winter mode with freeze protection
- Central heating and hot sanitary water in one system
- Circulation pump, fuel filter, dedicated electronics etc. already integrated

20 liter stainless steel buffer tank

- Included in scopes of delivery
- Fully insulated
- 800 W/230 V electric heating element for freeze protection

Control elements

- (1) Standard control element included in scopes of delivery
- (2) Programmable thermostat module as option. Fits Bticino cover frames



Water station example



Buffer tank



Robust, compact casing



Controls

Thanks to high heat output, large amounts of continuous hot water (at 60 °C) can be reached:
16 kW => 4.5 liter/min; 23 kW => 6.5 liter/min; 30 kW => 8.5 litre/min at 60 °C.

Technical specifications

| Type of marine water stations | Function | Order number | Voltage | Heat output | Fuel consumption | Electrical power consumption | Dimensions L x W x H | Weight |
|-------------------------------|----------|--------------|---------|--------------------------|-----------------------|------------------------------|---|------------------|
| DBW 2010 | CH | 3391617A | 12 V | 11.6 kW 40,000 BTU/h | 1.5 l/h 0.4 gal/h | 185 W 15.4 amps | 800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch | 38 kg 84 lbs |
| DBW 2010 | BC | 3391618A | 12 V | 11.6 kW 40,000 BTU/h | 1.5 l/h 0.4 gal/h | 185 W 15.4 amps | 800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch | 38 kg 84 lbs |
| DBW 2010 | CH | 3391620A | 24 V | 11.6 kW 40,000 BTU/h | 1.5 l/h 0.4 gal/h | 185 W 7.7 amps | 800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch | 38 kg 84 lbs |
| DBW 2010 | BC | 3391621A | 24 V | 11.6 kW 40,000 BTU/h | 1.5 l/h 0.4 gal/h | 185 W 7.7 amps | 800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch | 38 kg 84 lbs |
| DBW 2016 | CH | 3391623A | 12 V | 16.0 kW 54,000 BTU/h | 1.9 l/h 0.5 gal/h | 215 W 17.9 amps | 800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch | 38 kg 84 lbs |
| DBW 2016 | BC | 3391624A | 12 V | 16.0 kW 54,000 BTU/h | 1.9 l/h 0.5 gal/h | 215 W 17.9 amps | 800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch | 38 kg 84 lbs |
| DBW 2016 | T | 3391823A | 12 V | 16.0 kW 54,000 BTU/h | 1.9 l/h 0.5 gal/h | 215 W 17.9 amps | 800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch | 42 kg 92 lbs |
| Thermo S 160 | CH | 3391626B | 24 V | 16.0 kW 54,000 BTU/h | 1.6 l/h 0.42 gal/h | 175 W 7.3 amps | 800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch | 42 kg 92 lbs |
| Thermo S 160 | BC | 3391627B | 24 V | 16.0 kW 54,000 BTU/h | 1.6 l/h 0.42 gal/h | 175 W 7.3 amps | 800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch | 42 kg 92 lbs |
| Thermo S 160 | T | 3391824B | 24 V | 16.0 kW 54,000 BTU/h | 1.6 l/h 0.42 gal/h | 175 W 7.3 amps | 800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch | 44 kg 97 lbs |
| Thermo 230 | CH | 3391629A | 24 V | 23.0 kW 80,000 BTU/h | 2.5 l/h 0.8 gal/h | 190 W 7.9 amps | 800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch | 44 kg 97 lbs |
| Thermo 230 | T | 3391630A | 24 V | 23.0 kW 80,000 BTU/h | 2.5 l/h 0.8 gal/h | 190 W 7.9 amps | 800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch | 48 kg 106 lbs |
| Thermo 230 | C | 3391631A | 24 V | 23.0 kW 80,000 BTU/h | 2.5 l/h 0.8 gal/h | 190 W 7.9 amps | 800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch | 44 kg 97 lbs |
| Thermo 300 | CH | 3391633A | 24 V | 30.0 kW 104,000 BTU/h | 3.3 l/h 0.87 gal/h | 235 W 9.8 amps | 800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch | 44 kg 97 lbs |
| Thermo 300 | T | 3391825A | 24 V | 30 kW 104,000 BTU/h | 3.3 l/h 0.87 gal/h | 235 W 9.8 amps | 800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch | 48 kg 106 lbs |
| Thermo 350 | CH | 3391635A | 24 V | 35.0 kW 119,400 BTU/h | 3.7 l/h 0.98 gal/h | 265 W 11 a mps | 800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch | 44 kg 97 lbs |

Fuel = Diesel CH = central heating BC = central heating + boiler control T = central heating + tap C = central heating chiller integration

Marine water stations

Compact solutions for quick hot water production

The Webasto water station acts as a central unit for the heating of the vessel's warm water heating system (such as radiators & fan heat exchangers). Additionally, domestic warm water is heated on demand using a Webasto calorifier. The switch from central heating to domestic warm water heating is done automatically.

The Webasto calorifier quickly and efficiently heats the domestic warm water by a separate coil from the engine and a coil from the Webasto water heater circuit. The additional electrical 230 V immersion heater ensures the provision of domestic warm water at shore connection.

The Webasto water stations consist of a Webasto water heater unit (e.g. Thermo Top C/Thermo Pro 90), completely integrated into a stainless steel body. This provides a quick and easy installation of the system (plug & heat).

Advantages of the Webasto plug & heat system:

- Pre-mounted heating unit in stainless steel housing
- Direct connection to the Webasto boiler
- Product package includes a fully prefitted wiring harness, exhaust and installation kit
- Simple to install
- Low-noise operation
- Compact design
- Stainless steel calorifier with high quality insulation
- May be mounted horizontally or vertically



Thermo Pro 90 water station

This robust piece of equipment has proven itself through many years of use. The water heating system is especially suitable for demanding applications thanks to a high heat output of 9.1 kW.

Scopes of delivery

Thermo Pro 50/90 water stations

- Heater fitted in stainless steel enclosure
- Control panel
- Heat-only panel
- Control cable length = 10 m
- Exhaust silencer
- Flexible exhaust pipe stainless steel length = 1.8 m
- Exhaust insulation length = 1 m
- Through hull fitting
- Complete fuel system (mecanyl)

| Type | Order number | Voltage | Heat output | | Fuel consumption | | Fuel | Electr. power consumption | | Dimensions L x W x H | Weight |
|---------------|--------------|---------|---|--------------------------------------|--|-------------------------------------|--------|-----------------------------|----------------------------|--|---------------------|
| | | | part load | full load | part load | full load | | part load | full load | | |
| Thermo 50 | 77054500 | 12 V | 2.6 kW 8,900 BTU/h | 5.2 kW 17,700 BTU/h | 0.29 l/h 0.08 gal/h | 0.59 l/h 0.16 gal/h | Diesel | 22 W 1.9 amps (12 V) | 32 W 2.7 amps (12 V) | 390 x 235 x 310 mm 15.4 x 9.3 x 12.3 inch | 15.0 kg 33.1 lbs |
| Thermo Pro 50 | 3395246A | 24 V | 2.5 kW 8,500 BTU/h | 5.0 kW 17,000 BTU/h | 0.30 l/h 0.079 gal/h | 0.65 l/h 0.17 gal/h | Diesel | 28 W 1.2 amps (24 V) | 46 W 1.9 amps (24 V) | 390 x 235 x 310 mm 15.4 x 9.3 x 12.3 inch | 15.0 kg 33.1 lbs |
| Thermo Pro 90 | 3396567A | 12 V | 1.8 – 7.6 kW inf. variable 6,100 – 26,000 BTU/h | 9.1 kW Boost Mode 31,000 BTU/h | 0.18 l/h 0.05 gal/h 1.08 l/h 0.24 gal/h | 1.3 l/h 0.34 gal/h Boost Mode | Diesel | 20 – 83 W 3.0 – 6.9 amps | 90 W 7.5 amps | 390 x 235 x 310 mm 15.4 x 9.3 x 12.3 inch | 16.5 kg 36.4 lbs |
| Thermo Pro 90 | 3396568A | 24 V | 1.8 – 7.6 kW inf. variable 6,100 – 26,000 BTU/h | 9.1 kW Boost Mode 31,000 BTU/h | 0.18 l/h 0.05 gal/h 1.08 l/h 0.24 gal/h | 1.3 l/h 0.34 gal/h Boost Mode | Diesel | 20 – 83 W 1.5 – 3.5 amps | 90 W 3.8 amps | 390 x 235 x 310 mm 15.4 x 9.3 x 12.3 inch | 16.5 kg 36.4 lbs |

Isotemp hot water boilers



Isotemp water heaters

The Isotemp water heaters deliver high water heating performances thanks to thick insulation and smart design. Indeed, the engine water heat exchanger as well as the electrical heat element are positioned in the lowest part of the tank where the water is coldest in order to ensure an equal heating of all the water in the tank. The water in- and outlets are especially designed to minimize the mixture of cold and hot water.

Product specifications:

- Large range from 15 liter to 75 liter
- 4 product lines: Basic, Slim, Square, Spa
- Extra long, corrugated coils for high heat exchange efficiency
- Special 6.0 or 7.0 bar safety valve; simple winter drain
- Ultra-thick insulation for lowest temperature loss
- Electrical plug and play
- Immersion heating element especially designed to heat also the water at the bottom of the tank
- Thermostat mixing valve standard on Basic and Slim; optional on SQUARE and SPA
- Immersion heating element optional available in 750, 1,200, 2,000 W; 2,000 W heating element is compatible on 230 V versions only

Isotemp Double Coil boilers are the perfect option to be integrated into Webasto water heating systems. Select among three models: Basic 24 double coil, Basic 40 double coil or Basic 75 double coil.



Square 16



Slim



Spa

| Order number | Type | Volume | L x diameter D | Weight | Max. pressure | Immersion heater |
|--------------------|-----------|--------|---|---------|---------------|------------------|
| 601531S000003 | Slim 15 | 15 l | 520 x 295 mm | 10.5 kg | 7.0 bar | 230 V/750 W |
| 602031S000003 | Slim 20 | 20 l | 645 x 295 mm | 11.5 kg | 7.0 bar | 230 V/750 W |
| 602531S000003 | Slim 25 | 25 l | 765 x 295 mm | 13.5 kg | 7.0 bar | 230 V/750 W |
| 602431B000003 | Basic 24 | 24 l | 470 x 395 mm | 14.0 kg | 7.0 bar | 230 V/750 W |
| 603031B000003 | Basic 30 | 30 l | 535 x 395 mm | 17.0 kg | 7.0 bar | 230 V/750 W |
| 604031B000003 | Basic 40 | 40 l | 640 x 395 mm | 20.0 kg | 7.0 bar | 230 V/750 W |
| 605031B000003 | Basic 50 | 50 l | 760 x 395 mm | 23.0 kg | 7.0 bar | 230 V/750 W |
| 607531B000003 | Basic 75 | 75 l | 1050 x 395 mm | 29.0 kg | 7.0 bar | 230 V/750 W |
| Double coil | | | | | | |
| 602431BD000000 | Basic 24 | 24 l | 470 x 395 mm | 14.0 kg | 7.0 bar | 230 V/750 W |
| 604031BD000000 | Basic 40 | 40 l | 640 x 395 mm | 20.0 kg | 7.0 bar | 230 V/750 W |
| 607531BD000000 | Basic 75 | 75 l | 1050 x 395 mm | 29.0 kg | 7.0 bar | 230 V/750 W |
| Spa | | | | | | |
| 6P1531SPA0100 | SPA 15 | 15 l | 450 x 310 mm | 7.3 kg | 6 bar | 230 V/750 W* |
| 6P2031SPA0100 | SPA 20 | 20 l | 550 x 310 mm | 8.3 kg | 6 bar | 230 V/750 W* |
| 6P2531SPA0100 | SPA 25 | 25 l | 650 x 310 mm | 9.5 kg | 6 bar | 230 V/750 W* |
| 6P3031SPA0100 | SPA 30 | 30 l | 535 x 390 mm | 11.7 kg | 6 bar | 230 V/750 W* |
| 6P4031SPA0100 | SPA 40 | 40 l | 640 x 390 mm | 13.3 kg | 6 bar | 230 V/750 W* |
| Square | | | | | | |
| 601631Q000000 | Square 16 | 16 l | Dimension L x H x W 400 x 180 x 560 mm | 16.0 kg | 5.5 bar | 230 V/750 W |

* 115 V versions and 1,200 W electrical heating coils available on request



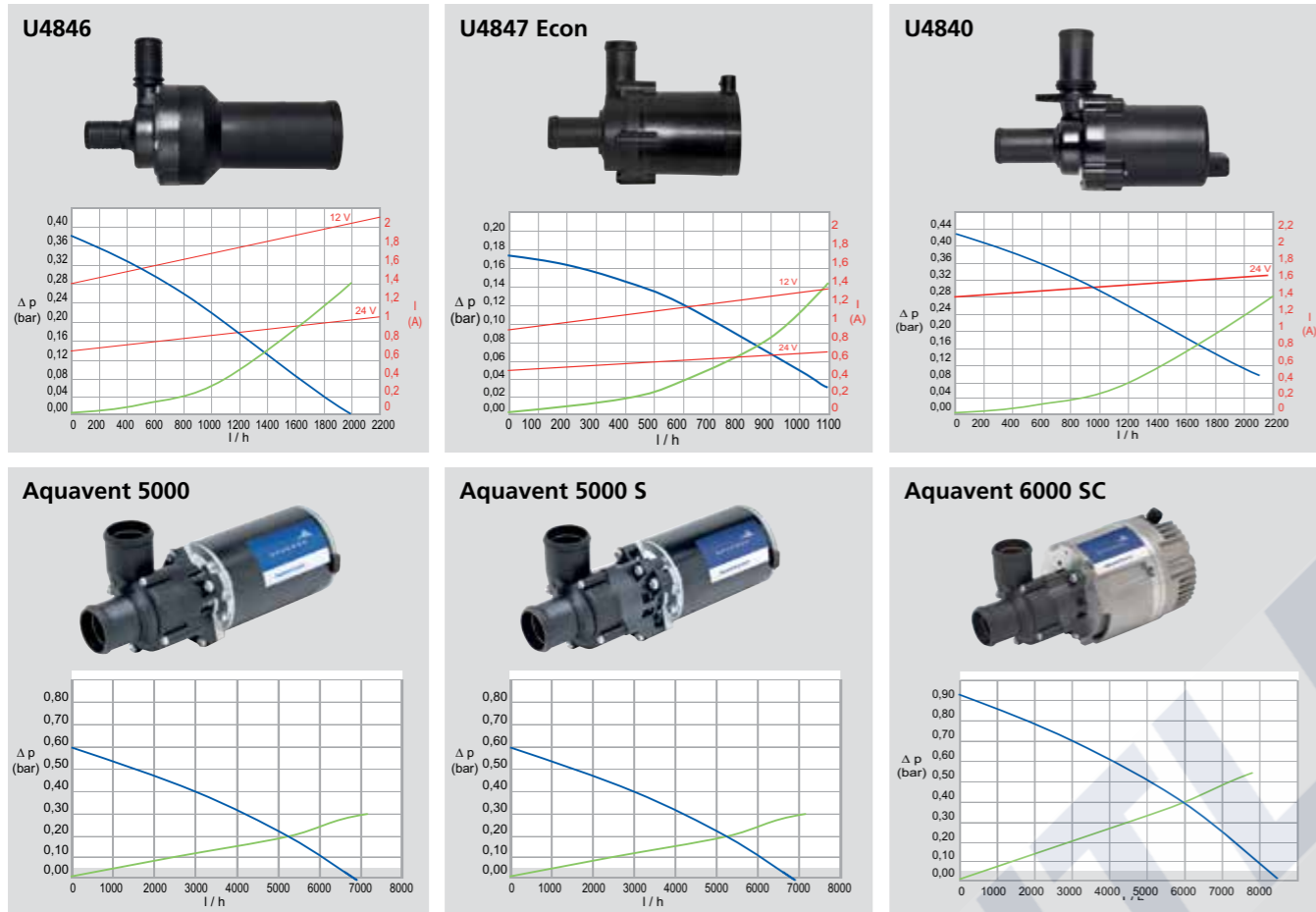
Accessories for heating systems

| | |
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| Circulating pumps | 44 |
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Circulating pumps

Technical features

These circulating pumps are suitable for hot water circulation. They are not designed for sea water use.



Volume flow with water/glycol mixture (50:50) 20 °C

Flow resistance when the pump is stationary

Rated power consumption

Technical data

| Model overview | U4846 | U4847 Econ | U4840 | Aquavent | | |
|---------------------------------|------------------------------------|---|---------------------------|----------------------------|----------------------------|-------------------------------|
| | | | | 5000 | 5000 S | 6000 S/6000 SC |
| Nominal voltage (V) | 12/24 | | | | | |
| Max rated power consumption (W) | 104 | | | | | |
| Volume flow (l/h) | 700 (against 0.3 bar) | 500 (against 0.14 bar) | 700 (against 0.34 bar) | 5,000 (against 0.2 bar) | 5,000 (against 0.2 bar) | 6,000 (against 0.4 bar) |
| Dimensions L x W x H (mm) | 180 x 74 x 112 | 95 x 65 x 85 (130° connection piece) | 134 x 53 x 90 | 249 x 100 x 105 | | 229 x 110 x 115 |
| Water connection, Ø (mm) | 20 | | | | | |
| Weight (kg) | 0.8 | 0.3 | 0.4 | 2.1 | 2.2 | 2.4 |
| Pump model | Kit U4846 incl. fastening material | U4847 Econ | U4840 | U4814 (AMP) | U4854 (AMP 6.2) | U4856.01 (AMP 6.3) with stand |
| Order number 12 V | 1322465A | 9002514B | 1321930A | 9810032A | n.a. | n.a. |
| Order number 24 V | 1322413A | 98237B | 1321932A | 9810033A | 9810179B | 1311280B |

Control elements

| | Air Top 2000 STC | Air Top Evo 40/55 | Thermo Top C | Thermo Pro 50 Eco | Thermo Pro 90 | DBW 2010/2016 | Thermo 230/300/350 | Order number |
|--|------------------|-------------------|--------------|-------------------|---------------|---------------|--------------------|--------------|
|  | | ■ | | | | | | 1322720A |
| Air Top Evo M control 12 / 24 V Marine version – To be used only in combination with Webasto Air Top Evo heaters – Multi mode operation to match your individual heating power demands } ECO mode for reduced electrical power consumption } Power mode PLUS for maximum heating power output } Ventilation mode to provide fresh and cool air to your cabins on a hot day – Easy connection of Webasto Telestart and Thermo Call possible | | ■ | | | | | | |
|  | | ■ | ■ | | | | | 1322581A |
| Rotary selector switch Standard 12 / 24 V – With switch function and light – Cover panel Ø 49 mm – Installation depth including plug: 55 mm | | ■ | ■ | | | | | |
|  | | ■ | | | | | | 92240A |
| Installation cover panel with switch for heating and ventilation mode – For rotary selector switch 1322581A – Black plastic | | ■ | | | | | | |
|  | | ■ | | | | | | 1320829A |
| Air Top standard control element Additional adapter cable harness for Evo heaters | | ■ | | | | | | |
|  | | ■ | ■ | | | | | 9030910B |
| Kit MultiControl Mar RV ATE Suitable for permanent heating | | ■ | ■ | | | | | |
|  | | | ■ | | | | | 9030911B |
| Kit MultiControl Mar RV TT Suitable for permanent heating | | | ■ | | | | | |
|  | | ■ | ■ | ■ | | | | 9030077A |
| MultiControl holding frame – Fastened by screws at the mounting point – MultiControl is clicked into the holding frame | | ■ | ■ | ■ | | | | |

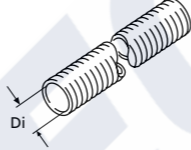
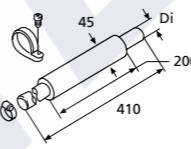
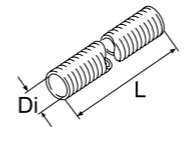
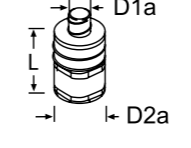
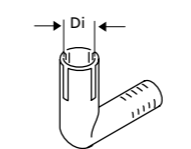
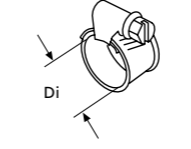
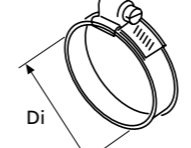
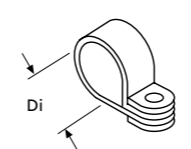
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Control elements

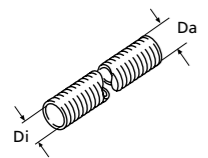
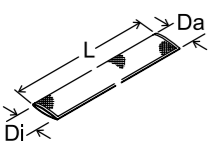
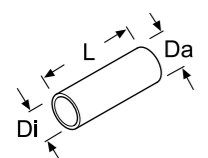
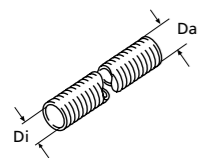
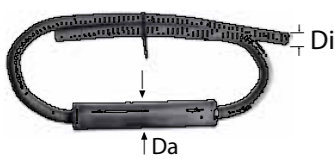
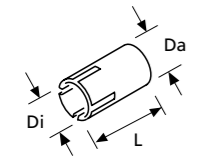
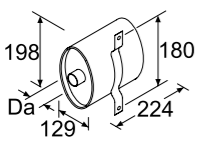
| | Air Top 2000 STC | Air Top Evo 40/55 | Thermo Top C | Thermo Pro 50 Eco | Thermo Pro 90 | DBW 2010/2016 | Thermo 230/300/350 | Order number |
|--|--|-------------------|--------------|-------------------|---------------|---------------|--------------------|--------------|
|  | Standard digital timer | | | | | | | |
| 12 V - Integrated wake-up function 3 preselectable on-times per day, programmable 7 days in advance - Continuous heating possible | | | | ■ | ■ | | | 88204A |
| 24 V - In the case of DBW 2010/2016 and Thermo 230/300/350, operation is only possible in combination with relays - Cover panel dimensions (L x W): 89 x 42 mm - Installation depth including plug: 51 mm - Limited availability due to end of production | | | | ■ | ■ | | | 1322636A |
|  | Small component kit for standard/combination timer | | | | | | | |
| For connection of standard and combination digital timers | ■ | ■ | | | | | | 88191B |
|  | Heater control electronic room thermostat | | | | | | | |
| - Switches vehicle blower, 10 to 30 V - In the case of DBW 2010/2016 and Thermo 230/300/350, operation is only possible in combination with relays - Cover panel dimensions (L x W): 89 x 42 mm - Installation depth including plug: 51 mm - Limited availability due to end of production | | | | ■ | ■ | ■ | ■ | 34875A |
|  | Remote control Telearstart T91 Holiday with continuous heating function | | | | | | | |
| 12 V - With check-back signal. Incl. 1 handheld transmitter with battery, receiver, self-adhesive window antenna and Y adapter | ■ | ■ | ■ | * | * | * | * | 9018150B |
|  | Telearstart T 100 HTM radio remote control | | | | | | | |
| - Including 1 hand-held transmitter with battery, receiver, self-adhesive window antenna, ESV adapter and temperature sensor HTM - Automatic heating time calculation | ■ | ■ | ■ | * | * | * | * | 1314637A |
|  | Remote control by phone Thermo Call TC4 | | | | | | | |
| Kit ThermoCall TC4 Entry - Inkl. GSM module, cable harness, pushbutton - Operation via app for iOS and Android | ■ | ■ | ■ | ■ | ■ | | | 9032129A |
| Kit ThermoCall TC4 Advanced - Inkl. GSM module, cable harness, GSM antenna, pushbutton - With HTM management - Operation via app for iOS and Android | ■ | ■ | ■ | ■ | ■ | | | 9032141A |
|  | Rotary switch with function indicator | | | | | | | |
| 12 V | | | | | ■ | ■ | ■ | 109995 |
| 24 V | | | | ■ | ■ | ■ | ■ | 109999 |
| - Switching current 15 amps - Green light to indicate operation - With switch position plate and connection plugs | | | | | | | | |

*connection adaptation on request


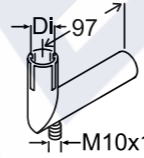
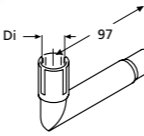
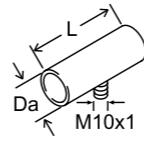
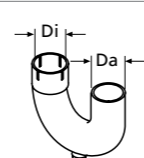
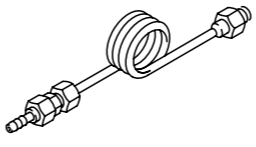


Combustion air system

| | Air Top 2000 STC | Air Top Evo 40/55 | Thermo Top C | Thermo Pro 50 Eco | Thermo Pro 90 | DBW 2010/2016 | DBW 2020/300/350 | Thermo 230/300/350 | Order number |
|---|---------------------------------|-------------------|--------------|-------------------|---------------|---------------|------------------|--------------------|--------------|
|  | Flexible pipe | | | | | | | | |
| Di = 18, L = 1,000, APGA-A | | | | ■ | | | | | 1319593A |
| Di = 22, L = 20,000, PAK | ■ | | ■ | | | | | | 1321565A |
| Di = 25, L = 5,000, PAK | | ■ | | | | | | | 1321587A |
| Di = 30, L = 5,000, PAK | | | | | ■ | | | | 1321557A |
|  | Air intake silencer, set | | | | | | | | |
| Di = 22, L = 410, with mounting parts | ■ | | | | | | | | 1313514A |
|  | Air intake silencer | | | | | | | | |
| Di = 22, L = 800, PAK, without penetration protection cap | ■ | | | | | | | | 1322455A |
| Di = 25, L = 650, AK / PAKL, with penetration protection cap | | ■ | | | | | | | 1319924A |
| Di = 30, L = 1,160, PAK / PAKL, without penetration protection cap | | | | | ■ | | | | 1319607A |
|  | Air intake silencer | | | | | | | | |
| D1a = 24, D2a = 52, L = 138, plastic, complete with 300 mm flexible pipe, D1a = 24 mm | | ■ | | | | | | | 9025956A |
|  | Combustion air elbow | | | | | | | | |
| Di = 22 | ■ | | | | | | | | 1320144A |
| Di = 25 | | ■ | | | | | | | 1320278A |
| Plastic | | | | | | | | | |
|  | Hose clamp | | | | | | | | |
| Di = 16 ... 27, 10 pieces | ■ | | ■ | ■ | | | | | 9015918A |
| Di = 23 ... 35, 20 pieces | | ■ | | ■ | | | | | 1320271A |
| W = 9, SW = 7, stainless steel, bolt head with hexagon and slot | | | | | | | | | |
|  | Hose clamp | | | | | | | | |
| Di = 40 ... 47 | | | | | ■ | | ■ | | 1320158A |
| Di = 48 ... 55 | | | | | | | ■ | | 1320159A |
| Di = 70 ... 90 | | | | | | | ■ | | 1320223A |
| SW = 8, W = 14.3, steel corrosion-resistant, bolt head with hexagon and cross-head slot | | | | | | | | | |
|  | Pipe clip | | | | | | | | |
| Di = 25, W = 15, stainless steel | ■ | | | ■ | | | | | 1320045A |
| Di = 29, W = 15, steel zinc coated / rubber, rubber-coated pipe clip, fastening hole 6.4 mm, 5 pieces | | ■ | | | | | | | 1320235A |
| Di = 33, W = 15, stainless steel, 6.5 mm fastening hole | | | | | ■ | | | | 1320064A |

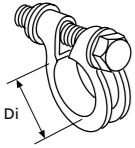
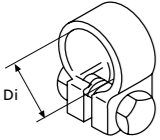
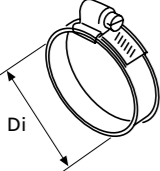
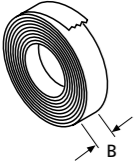
Exhaust system

| | Air Top 2000 STC | Air Top Evo 40/55 | Thermo Top C | Thermo Pro 50 Eco | Thermo Pro 90 | DBW 2010/2016 | DBW 2020/300/350 | Thermo 230/300/350 | Order number |
|---|--|-------------------|--------------|-------------------|---------------|---------------|------------------|--------------------|---|
|  | Flexible exhaust pipe (INOX), two-ply | | | | | | | | |
| | ■ | ■ | ■ | | | | | | 1322414A |
| | | ■ | | | | | | | 1321523A |
| | | | | ■ | ■ | | | | 1321540A |
| | | | | ■ | ■ | | | | 1321541A |
| | | | | ■ | ■ | | | | 1321539A |
| | | | | | | ■ | ■ | | 1321568A |
| | | | | | | ■ | ■ | | 1321567A |
| | | | | | | | | | Stainless steel |
|  | Heat protection hose | | | | | | | | |
| | ■ | ■ | ■ | ■ | ■ | ■ | | | 1319909A |
| | ■ | ■ | ■ | ■ | ■ | ■ | | | 1319910A |
| | ■ | ■ | ■ | ■ | ■ | ■ | | | 1320830A |
| | | | | | | | | | Da = 120, fiberglass |
|  | Flexible heat protection pipe | | | | | | | | |
| | ■ | ■ | ■ | | | | | | 1321601A |
| | | ■ | | ■ | ■ | | | | 1321602C |
| | | | | | | | | | L = 10,000 |
|  | Flexible heat protection pipe | | | | | | | | |
| | ■ | ■ | ■ | | | | | | 1319670A |
| | | | | | | | | | Di = 28, Da = 38, L = 324, with cover, non-flammable, interior resistant to temperatures up to 500 °C |
|  | Exhaust muffler | | | | | | | | |
| | ■ | ■ | ■ | ■ | | | | | 1322001A |
| | | | | ■ | ■ | | | | 1321823A |
| | | | | | | | | | Outside with partial fiberglass insulation |
|  | Exhaust gas reducing bush | | | | | | | | |
| | ■ | | | | | | | | 1320382A |
| | | | | | | | | | Di = 22, Da = 24, L = 40, stainless steel |
|  | Exhaust silencer | | | | | | | | |
| | | | | ■ | ■ | | | | 1321397A |
| | | | | | | | | | Da = 38, L = 270, W = 130, stainless steel |

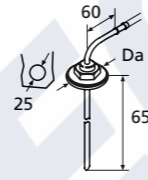
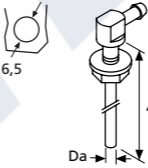
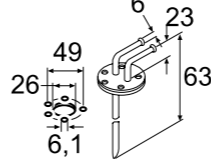
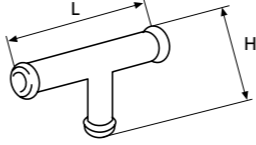
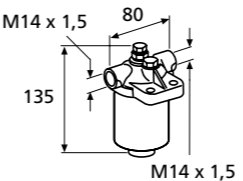
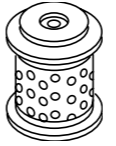
Exhaust system

| | Air Top 2000 STC | Air Top Evo 40/55 | Thermo Top C | Thermo Pro 50 Eco | Thermo Pro 90 | DBW 2010/2016 | DBW 2020/300/350 | Thermo 230/300/350 | Order number |
|---|---|-------------------|--------------|-------------------|---------------|---------------|------------------|--------------------|--|
|  | Insulation sleeve for exhaust silencer | | | | | | | | |
| | | | | | ■ | ■ | | | 9028104A |
| | | | | | | | | | Glas fiber heat protection, 550 x 440 mm, with snap fastener, for part 1319937A |
|  | Elbow | | | | | | | | |
| | | ■ | | | | | | | 1320378A |
| | | | | | | | | | Di = 24, L = 110, stainless steel, with condensation water drain |
|  | Elbow | | | | | | | | |
| | | ■ | | | | | | | 1320383A |
| | | | | | | | | | Di = 24, L = 110, stainless steel, without condensation water drain |
|  | Connection pipe | | | | | | | | |
| | | ■ | | | | | | | 1319937A |
| | | | | | | | | | Da = 24, L = 50, M6, stainless steel, without condensation water drain |
| | | ■ | | | | | | | 1319935A |
| | | | | | | | | | Da = 24, L = 65, steel, with anti-corrosion protection and condensate drain |
| | | ■ | | | | | | | 1320959A |
| | | | | | | | | | Da = 38, L = 65, stainless steel, for exhaust muffler 1320841A and 1320895A, with condensation water drain |
|  | Exhaust pipe | | | | | | | | |
| | | | | | ■ | ■ | | | 1319380A |
| | | | | | | | | | Di = 38, Da = 38, stainless steel |
|  | Condensation water drain | | | | | | | | |
| | | ■ | | | | | | | 92621A |
| | | | | | | | | | L = 128, M10 x 1 connection thread, copper, for exhaust connecting pipe 1319935A, with mounting parts |
|  | Through hull double walled straight | | | | | | | | |
| | | ■ | ■ | | | | | | 1320363A |
| | | | | | ■ | ■ | ■ | | 1320983A |
| | | | | | | | ■ | | 3393270A |
| | | | | | | | | | Stainless steel |
|  | Through hull double walled bended | | | | | | | | |
| | | ■ | ■ | ■ | | | | | 1320364A |
| | | | | | ■ | ■ | ■ | | 1320365A |
| | | | | | | | | | Stainless steel |

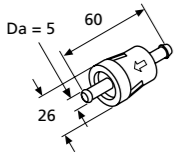
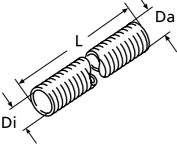
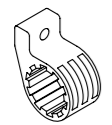
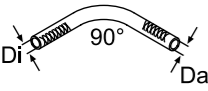
Exhaust system

| | Air Top 2000 STC | Air Top Evo 40/55 | Thermo Top C | Thermo Pro 50 Eco | Thermo Pro 90 | DBW 2010/2016 | DBW 2020/300/350 | Thermo 230/300/350 | Order number |
|---|------------------|-------------------|--------------|-------------------|---------------|---------------|------------------|--------------------|--------------|
|  <p>Hose clamp Di = 39 ... 42, W = 13.5, thread M8, steel corrosion-resistant, for flexible exhaust pipe, with screw</p> | | | | | ■ | ■ | | | 1320194A |
| | | | | | | | | ■ | 1320081A |
|  <p>Hose clamp Di = 24 ... 26, with carriage bolt</p> | ■ | | ■ | ■ | | | | | 1320165A |
| | | | ■ | | | | | | 1320220A |
|  <p>Hose clamp / reduce wrap Di = 70 ... 90, SW = 8, steel corrosion-resistant, bolt head with hexagon and slot</p> | | | | | | | ■ | ■ | 1320223A |
| | | | | | | | | | |
|  <p>Insulating lagging L = 50,000, W = 60, E-glass, white, usage temperature 450 °C, 550 °C for short periods, 2 mm thick</p> | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1320357A |





Fuel supply

| | Air Top 2000 STC | Air Top Evo 40/55 | Thermo Top C | Thermo Pro 50 Eco | Thermo Pro 90 | DBW 2010/2016 | DBW 2020/300/350 | Thermo 230/300/350 | Order number |
|---|------------------|-------------------|--------------|-------------------|---------------|---------------|------------------|--------------------|--------------|
|  <p>Tank extracting device, riser pipe Di = 2.6, Da = 5 Da = 8 L = 650, steel zinc coated, 90° extractor connection piece, only for installation in metal tanks</p> | | | | ■ | ■ | ■ | | | 1320399A |
| | | | | | | | ■ | ■ | 1319372A |
| | | | | | | | | | |
|  <p>Tank extracting device, riser pipe Di = 2.5, Da = 5, L = 409, thread M6, stainless steel, 90° extractor connection piece for mounting in tank fitting, suitable for plastic tank and metal tank</p> | ■ | ■ | ■ | ■ | | ■ | | | 1322632A |
| | | | | | | | | | |
|  <p>Tank extracting device, riser pipe Da = 6, L = 630, steel zinc coated, with sealing</p> | | | | | | ■ | ■ | ■ | 1322830B |
| | | | | | | | | | |
|  <p>Fuel extractor, T-piece L = 50, H = 26, 6 x 5 x 6 L = 50, H = 28, 8 x 5 x 8 L = 50, H = 28, 8 x 6 x 8 copper</p> | ■ | ■ | ■ | ■ | ■ | | | | 1319300A |
| | ■ | ■ | ■ | ■ | ■ | | | | 1319301A |
| | | | | | | ■ | | | 1320531A |
| | | | | | | | | | |
|  <p>Holder with housing for interchangeable filter L = 135, H = 80, M14 x 1.5 connection thread, light metal</p> | | | | | | ■ | ■ | ■ | 1319291A |
| | | | | | | | | | |
|  <p>Interchangeable filter For holder 1319291A</p> | | | | | | ■ | ■ | ■ | 1320031A |

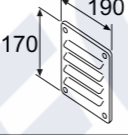
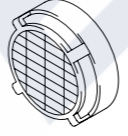
Fuel supply

| | Air Top 2000 STC | Air Top Evo 40/55 | Thermo Top C | Thermo Pro 50 Eco | Thermo Pro 90 | DBW 2010/2016 | DBW 2020/300/350 | Thermo 230/300/350 | Order number |
|--|------------------|-------------------|--------------|-------------------|---------------|---------------|------------------|--------------------|----------------------|
| Connecting parts (bag) Steel zinc coated, for soldered joints, Contents: double connection piece, union nuts, ring seals and sealing cone | | | | | | ■ | ■ | ■ | 1320539A |
|  Fuel filter Da = 5, plastic, transparent | ■ | ■ | ■ | ■ | ■ | | | | 1319466A |
|  Flexible heat protection pipe L = 20,000 L = 5,000 Di = 14.5, Da = 16.5, GA-A (aluminium foil and aluminium coated glass fabric) | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1321584B 1321585B |
|  Dosing pump mounting Very quiet mounting, bag of 1 piece | ■ | ■ | ■ | ■ | | | | | 1320193A |
|  Fuel line decoupling kit Di = 4.5, Da = 10.5, bag with two 90° elbows | ■ | ■ | | | | | | | 9026570B |

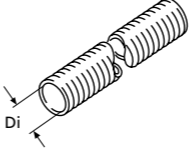
Fuel supply systems which are installed in the engine room of a boat need to be fire resistant according to EN ISO 7840. Please select the required parts from the items listed below.

| | | | | | | | | | |
|--|---|---|---|---|---|--|--|--|----------|
|  Mini Jacket fuel pump protector Protection device for fuel pumps with mufflers, required by ISO 7840 if the fuel system is installed in engine rooms | ■ | | | | | | | | 1319522A |
|  Metal fuel line kit for boats Di = 1.5, Da = 5, L = 5,000, EN ISO 7840, with screw fasteners, hoses and clips | ■ | ■ | ■ | ■ | ■ | | | | 66958B |
|  Fuel line for boats Di = 1.5, Da = 5, L = 5,000, stainless steel | ■ | ■ | ■ | ■ | ■ | | | | 1320860A |
|  Fuel hose for boats Di = 5, Da = 15, L = 50 | ■ | ■ | ■ | ■ | ■ | | | | 1320857A |

Warm air system

| | Air Top 2000 STC | Air Top Evo 40/55 | Order number |
|--|------------------|-------------------|--------------|
|  Air Intake Louvre plate L = 190, H = 170, aluminium | ■ | ■ | 1319269A |
|  Screen Di = 60, plastic, black, for intake and outlet openings of heater | ■ | | 1320163A |
| | | ■ | 1310581A |

Ducting

| | | | |
|---|---|---|----------|
|  Flexible pipe | | | |
| Di = 60, L = 25,000 APK, black | ■ | ■ | 1311892C |
| Di = 60, L = 10,000 APK, black | ■ | ■ | 1322083C |
| Di = 60, L = 2,000 APK, black | ■ | ■ | 1321574B |
| Di = 60, L = 5,000 APK, black | ■ | ■ | 1321575C |
| Di = 80, L = 25,000 APK, black | | ■ | 1311893C |
| Di = 80, L = 10,000 APK, black | | ■ | 1321718C |
| Di = 80, L = 2,000 APK, black | | ■ | 1321576C |
| Di = 80, L = 5,000 APK, black | | ■ | 1321577B |
| Di = 90, L = 25,000 APK, black | | ■ | 1311894C |
| Di = 90, L = 10,000 APK, black | | ■ | 1321719C |
| Di = 90, L = 2,000 APK, black | | ■ | 1321578C |
| Di = 90, L = 5,000 APK, black | | ■ | 1321579C |
| Di = 60, L = 3,000 PAHK, black | ■ | ■ | 1321511A |
| Di = 60, L = 25,000, PAKP, grey | ■ | ■ | 1311898C |
| Di = 60, L = 10,000, PAKP, grey | ■ | ■ | 1321727C |
| Di = 60, L = 2,000, PAKP, grey | ■ | ■ | 1321504A |
| Di = 60, L = 5,000, PAKP, grey | ■ | ■ | 1321505A |
| Di = 80, L = 25,000, PAKP, grey | | ■ | 1311900C |
| Di = 80, L = 10,000, PAKP, grey | | ■ | 1321729B |
| Di = 80, L = 2,000, PAKP, grey | | ■ | 1321582B |
| Di = 80, L = 5,000, PAKP, grey | | ■ | 1321583B |
| Di = 80, L = 10,000, PAK, black | | ■ | 1322147B |
| Di = 90, L = 25,000, PAKP, grey | | ■ | 1311902C |
| Di = 90, L = 10,000, PAKP, grey | | ■ | 1321731C |
| Di = 90, L = 2,000, PAKP, grey | | ■ | 1321506B |
| Di = 90, L = 5,000, PAKP, grey | | ■ | 1321508A |
| Insulated hoses | | | |
| Di = 80 | ■ | | 1321515A |
| Di = 90 | ■ | | 1321517A |
| L = 12,000, PAK | | | |

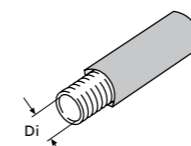
Hose specification

APK: Aluminium, Paper, Plastic – black, with white Webasto logo

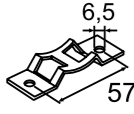
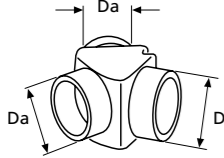
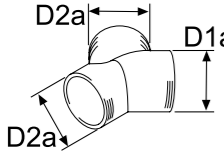
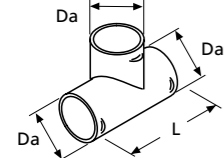
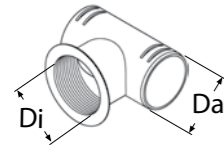
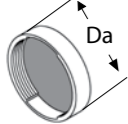
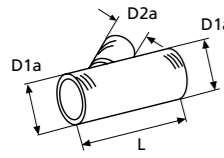
PAHK: Paper, Aluminium, High rigidity Aluminium, Plastic – black, with white Webasto logo

PAK: Paper, Aluminium, Plastic – black, with white Webasto logo

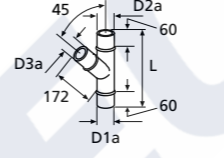
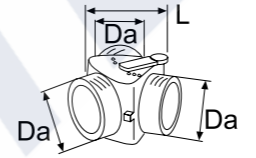
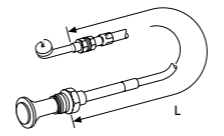
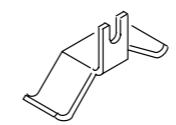
PAPK: Paper, Aluminium, Paper, Plastic – grey, with red and blue Webasto logo, extra strong 4 layer design



Warm air system

| | | Air Top 2000 STC | Air Top Evo 40/55 | Order number |
|---|--|------------------|-------------------|--|
| Ducting | | | | |
|  | Console For mounting flexible pipes with corresponding hose clip | ■ | ■ | 1321044A |
| Distributor | | | | |
|  | Distributor Y-unit Da = 55 Da = 80 Plastic, black | ■ | ■ | 1319416A 1319212A |
|  | Distributor Y-unit D1a = 80, D2a = 55, to be used in the secondary flow only D1a = 60, D2a = 60 D1a = 90, D2a = 80 D1a = 90, D2a = 90 D1a = 80, D2a = 60 Plastic, black | ■ | ■ | 1320753A 1320814A 1320375A 1320470A 1320471A |
|  | T-unit Da = 60 Da = 90 L = 110, 90°, plastic, black | ■ | ■ | 1320474A 1320473A |
|  | T-unit Di = 60, Da = 60, 90°, with thread Di = 60, Da = 90, 90°, with thread Plastic, black | ■ | ■ | 1320476A 1320475A |
|  | End Cap Da = 60 Da = 90 Plastic, black | ■ | ■ | 1320477A 1319870A |
|  | Junction fitting D1a = 60, L = 145 D1a = 90, L = 146 D2a = 60, 45°, plastic, black | ■ | ■ | 1320472A 1320707A |

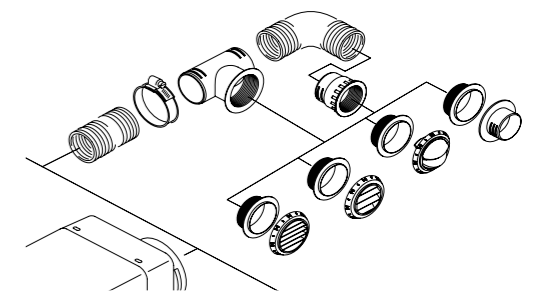
Warm air system

| | | Air Top 2000 STC | Air Top Evo 40/55 | Order number |
|---|--|------------------|-------------------|----------------------------------|
|  | Junction fitting D1a = 80, D2a = 60, D3a = 60, L = 350, to be used in the secondary flow only! D1a = 80, D2a = 80, D3a = 60, L = 350 D1a = 80, D2a = 80, D3a = 80, L = 370, 45°, steel corrosion-resistant | ■ | ■ | 1319314A 1320645A 1319315A |
|  | Distributor Da = 55, L = 95 Da = 80, L = 124 Plastic, black, with remote control flap valve | ■ | ■ | 1319224A 1319214A |
|  | Control cable L = 850 L = 1,500 For Distributor 1319224A und 1319214A, with grip and outer sleeve | ■ | ■ | 1320785A 1320786A |
|  | Clamp For Bowden Cable 1320785A und 1320786A | ■ | ■ | 1319688A |

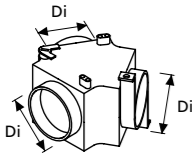
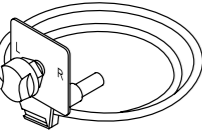
Quick-fit Hot Air Ducting System (HADS):

- High temperature resistance from -40 °C up to +140 °C
- PA6.6 GF30 glass fibre reinforced synthetic material
- Super easy fitting, no need for tools or screws
- Multiple combination possibilities to suit any application

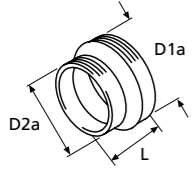
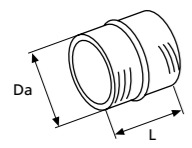


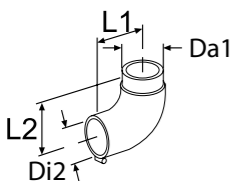
Webasto provides perfectly fitting, high quality components for an easy installation and high flexibility.



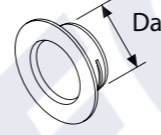
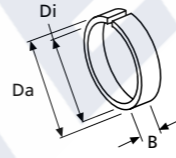
Warm air system

| | | Air Top 2000 STC | Air Top Evo 40/55 | Order number |
|---|--|------------------|-------------------|--------------|
|  | Distributor | | | |
| | Di = 60 | ■ | ■ | 1320352A |
| | Di = 90 | | ■ | 1320926A |
| | Plastic, black, with control butterfly valve | | | |
|  | Control device for distributor | | | |
| | L = 2,000, for Distributor 1320352A and 1320926A | ■ | ■ | 1319868A |


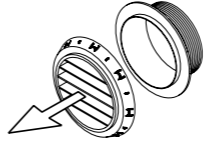
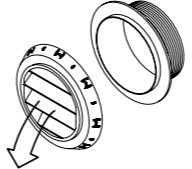
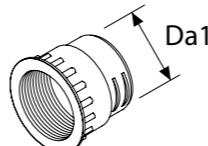
Adaptors

| | | | | |
|---|--|---|---|----------|
|  | Reducer for air hose | | | |
| | D1a = 60, D2a = 55, L = 35 | | ■ | 1320127A |
| | D1a = 90, D2a = 80, L = 45 | | ■ | 1320185A |
| | D1a = 80, D2a = 55, L = 82 | | ■ | 1319477A |
| | Plastic, black, for flexible pipe | | | |
|  | Hose connector | | | |
| | Da = 55, L = 55 | ■ | ■ | 1319473A |
| | Da = 60, L = 50 | | ■ | 1320469A |
| | Da = 80, L = 75 | | ■ | 1319476A |
| | Da = 90, L = 50 | | ■ | 1319869A |
| | Synthetic material | | | |
|  | Reduction adapter | | | |
| | Da = 60 | | ■ | 1320760A |
| | Da = 80 | | ■ | 1320925A |
|  | Elbow | | | |
| | Da = 90, 90°, plastic, black | | ■ | 1320706A |
|  | Elbow | | | |
| | Di2 = 80.5, Da1 = 79, L1 = 115, L2 = 120, 90°, steel corrosion-resistant | | ■ | 1319272A |

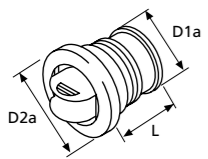
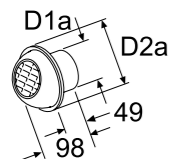
Warm air system

| | | Air Top 2000 STC | Air Top Evo 40/55 | Order number |
|---|---------------------------------------|------------------|-------------------|--------------|
|  | Wall feed-through | | | |
| | Da = 60 | ■ | ■ | 1320923A |
| | Da = 90 | | ■ | 1320924A |
| | Plastic, black | | | |
|  | Adaptor ring | | | |
| | Di = 55, Da = 60, for outlet 1320812A | ■ | ■ | 1320224A |
| | Di = 70, Da = 80, for outlet 1319946A | | ■ | 1320040A |
| | W = 17, plastic, black | | | |

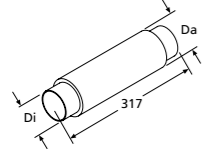
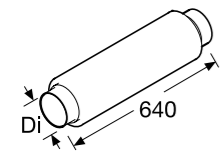
Outlets

| | | | | |
|---|--|---|---|----------|
|  | Air Outlet, closeable | | | |
| | Da = 60, black | ■ | ■ | 1320206A |
| | Da = 60, white | ■ | ■ | 1320207A |
| | Da = 60, grey | ■ | ■ | 1320937A |
| | Da = 90, black | | ■ | 1320355A |
| | Da = 90, white | | ■ | 1320713A |
| | Da = 90, grey | | ■ | 1320714A |
| | L = 30, plastic, outlet closeable, bag with wall feed through | | | |
|  | Air Outlet | | | |
| | Da = 60, black | ■ | ■ | 1320934A |
| | Da = 60, white | ■ | ■ | 1320935A |
| | Da = 60, grey | ■ | ■ | 1320936A |
| | Da = 90, black | | ■ | 1320932A |
| | Da = 90, white | | ■ | 1320712A |
| | Da = 90, grey | | ■ | 1320711A |
| | L = 30, plastic, straight air flow, bag with wall feed through | | | |
|  | Air outlet, 45° | | | |
| | Da = 60, black | ■ | ■ | 1320204A |
| | Da = 60, white | ■ | ■ | 1320205A |
| | Da = 60, grey | ■ | ■ | 1320933A |
| | Da = 90, black | | ■ | 1320709A |
| | Da = 90, white | | ■ | 1320710A |
| | Da = 90, grey | | ■ | 1320354A |
| | L = 30, plastic, 45°, bag with wall feed through | | | |
|  | Union nut for outlet | | | |
| | Da = 60 | ■ | ■ | 1320922A |
| | Da = 90 | | ■ | 1320468A |
| | L = 60, plastic, black | | | |

Warm air system

| | Air Top 2000 STC | Air Top Evo 40/55 | Order number |
|---|---|-------------------|--------------|
|  | Air outlet | | |
| | D1a = 55 | ■ | 1320812A |
| | D1a = 70, use for secondary flow only | ■ | 1319946A |
| | D2a = 100, L = 65, plastic, black, closable, with bushing | | |
|  | Air outlet | | |
| | D1a = 60, D2a = 92 | ■ | 1322405A |
| | D1a = 80, D2a = 120 | ■ | 1319327A |
| | plastic, black, rotatable, with bushing, with ball-type cover | | |


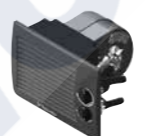






Silencer

| | | | |
|---|-------------------------------------|---|----------|
|  | Air ducting silencer | | |
| | Di = 90, Da = 122, L = 317, plastic | ■ | 1320996A |
|  | Air ducting silencer | | |
| | Di = 90, L = 600, aluminium/plastic | ■ | 1321734A |

Blower heat exchangers

The blower modules are the ideal combination for Webasto water heaters. Thanks to their powerful blowers, the cabins of boats and yachts can be heated up quickly. Most models have an adjustable blower speed to fine-tune the air flow according to individual needs. In addition to their compact dimensions they ensure an easy installation.

The product range

| | | | |
|---|---|---|---|
|  <p><i>Florida 3 – extra-silent single speed 3 kW model with very low power consumption</i></p> |  <p><i>Florida 5 – Compact 3-speed 5 kW model with blower speed and heat output regulation</i></p> |  <p><i>Florida 5 – Compact 3-speed 5 kW model without controls</i></p> |  <p><i>Whisperer – Very compact and silent 1,8 kW model with single speed axial fan</i></p> |
|  <p><i>Madeira 4 – Lightweight and variable 4 kW model, 3 blower speeds, choice of air outlet</i></p> |  <p><i>Madeira 8 – Lightweight and variable 7,3 kW model, 3 blower speeds, choice of air outlet</i></p> |  <p><i>BB4 – Compact 2,5 kW model with 3-speed blower regulation and metal casing</i></p> |  <p><i>BB8 – Powerful 8 kW model with 3-speed blower regulation and robust metal casing</i></p> |

Blower speed control

The blower speed control is the perfect match for all blower heat exchangers. It provides temperature regulated automatic blower speed control or manual 5-speed blower regulation. With a variable temperature setting, everybody can find his perfect comfort climate.



Scopes of delivery

- Control element
- Electronic PWM module
- Temperature sensor (5 meters)

Blower speed control – temperature-regulated blower speed control for the blower modules Florida 5 without controls, BB4, BB8. With separate mounting also possible for Madeira 4 and Madeira 8

Blower heat exchangers

| Model | Order number | Colour | Voltage (V) | Heat output at Q100 (kW) | Air flow at free discharge (m³/h) | Water connection diam. (mm) | Electrical power consumption (W) | Dimensions W x H x D (mm) | Weight (kg) |
|----------------------------|--------------|--------------------------|-------------|--------------------------|-----------------------------------|-----------------------------|----------------------------------|---------------------------|-------------|
| Florida 3 No Noise | 3200740A | light grey | 12 | 3 | 120 | 16 | 12 | 269 x 198 x 141 | 1.4 |
| | 3200741A | light grey | 24 | 3 | 120 | 16 | 12 | 269 x 198 x 141 | 1.4 |
| Florida 5 with controls | 3200679A | light grey | 12 | 5.2 | 285 | 16 | 120 | 269 x 198 x 218 | 2 |
| | 3200680A | light grey | 24 | 5.2 | 285 | 16 | 120 | 269 x 198 x 218 | 2 |
| Florida 5 without controls | 3200681A | light grey | 12 | 5.2 | 285 | 16 | 120 | 269 x 198 x 218 | 2 |
| | 3200682A | light grey | 24 | 5.2 | 285 | 16 | 120 | 269 x 198 x 218 | 2 |
| Whisperer | 3200673A | Inox (front) | 12 | 1.8 | 120 | 16 | 8.4 | 210 x 210 x 125 | 1.2 |
| | 3200674A | Inox (front) | 24 | 1.8 | 120 | 16 | 8.4 | 210 x 210 x 125 | 1.2 |
| BB4 | 71174000 | blue | 12 | 2.5 | 190 | 16 | 38 | 310 x 150 x 150 | 3.5 |
| | 71174500 | blue | 24 | 2.5 | 190 | 16 | 38 | 310 x 150 x 150 | 3.5 |
| BB8 | 71172000 | blue | 12 | 8 | 525 | 16 | 65 | 480 x 170 x 305 | 12 |
| | 71173000 | blue | 24 | 8 | 525 | 16 | 65 | 480 x 170 x 305 | 12 |
| Madeira 4 | 71174550 | light grey and dark grey | 12 | 4.6 | 200 | 16 | 70 | 275 x 115 x 203 | 1.8 |
| | 71174552 | light grey and dark grey | 24 | 4.6 | 200 | 16 | 70 | 275 x 115 x 203 | 1.8 |
| Madeira 8 | 71174554 | light grey and dark grey | 12 | 7.3 | 300 | 16 | 150 | 376 x 115 x 250 | 3.1 |
| | 71174556 | light grey and dark grey | 24 | 7.3 | 300 | 16 | 150 | 376 x 115 x 250 | 3.1 |

Outlet versions

| | | | | | | | | | |
|---------------------------------|----------|-------|--|--|--|--|--|--|--|
| Air grille 90 x 90 mm* | 3396524A | black | | | | | | | |
| Air hose connector diam. 55 mm* | 3396525A | black | | | | | | | |

*when ordering the Madeira 4 or Madeira 8, please specify the type and amount of desired air outlets. Madeira 4 requires 2 and Madeira 8 requires 4 outlets.

Control elements

| | | | | | | | | | |
|----------------------|----------|--|-------|--|--|--|--|---------------|-----|
| Blower speed control | 3391288A | | 12/24 | | | | | 123 x 80 x 40 | 0.4 |
|----------------------|----------|--|-------|--|--|--|--|---------------|-----|

*please refer to pictures of Madeira 4 and Madeira 8 for example of air grille and hose connectors, see previous page

Water system



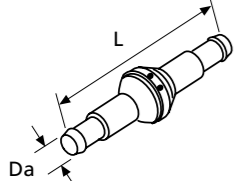
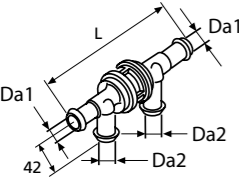
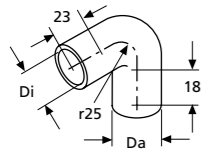
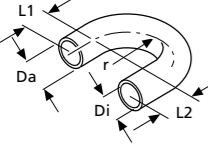
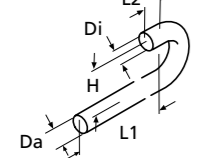
Accessories: Water system

Webasto offers a wide range of high-quality Hep₂O products.

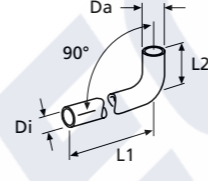
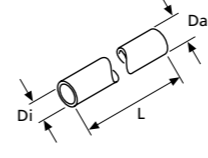
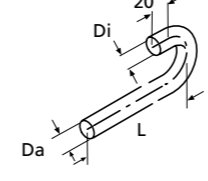
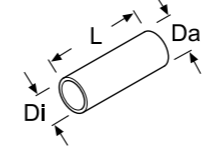
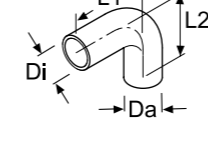
- Cabling ability – Hep₂O provides faster, safer and more cost effective installation
- Less jointing – Hep₂O flexible polybutylene pipe system requires less jointing, thus saves time and materials
- Joint security – the Hep₂O push-fit piping offers reliable jointing and safe assembly
- High resistance to impact and vibration – solder free, and the Hep₂O system is extremely strong and resistant to denting and accidental damage from impact or vibration
- Corrosion free – Hep₂O completely eliminates electrolytic corrosion and is highly resistant against aggressive salt-water and other corrosive media

For the complete overview of Hep₂O parts please refer to the water system section for BlueCool accessories in this catalog.

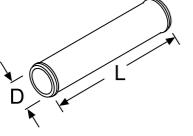
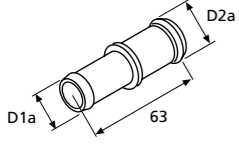
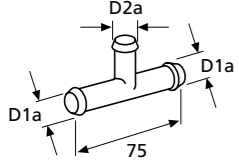
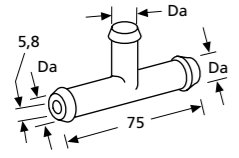
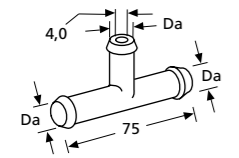
Water system

| | Thermo Top C | Thermo Pro 50 Eco | Thermo Pro 90 | DBW 2010/2016 | Thermo 230/300/350 | Order number |
|---|--|-------------------|---------------|---------------|--------------------|--------------|
|  | Check valve | | | | | |
| | Da = 15, L = 104 | ■ | ■ | ■ | ■ | 1320240A |
| | Da = 15, L = 104 | ■ | ■ | ■ | ■ | 1320239A |
| | Da = 18, L = 90 | ■ | ■ | ■ | ■ | 1319250A |
| | Da = 18, L = 100 | ■ | ■ | ■ | ■ | 1319484A |
| Plastic, without leak hole | | | | | | |
|  | Check valve | | | | | |
| | D1a = 18, D2a = 18, L = 146, plastic, black, with leak hole | ■ | ■ | ■ | ■ | 1319486A |
| | D1a = 20, D2a = 20, L = 162, brass, with leak hole | ■ | ■ | ■ | ■ | 1319595A |
| | D1a = 18, D2a = 18, L = 146, plastic, black, without leak hole | ■ | ■ | ■ | ■ | 1319485A |
| | H = 42 | | | | | |
|  | Molded hose | | | | | |
| | Di = 18, Da = 25, 90° | ■ | ■ | ■ | ■ | 1319418A |
|  | Molded hose | | | | | |
| | Di = 18, Da = 25, r = 25, L1 = 18, L2 = 18 | ■ | ■ | ■ | ■ | 1319401A |
| | Di = 20, Da = 27, r = 23.5, L1 = 88, L2 = 64 | ■ | ■ | ■ | ■ | 1319623A |
| 180° | | | | | | |
|  | Molded hose | | | | | |
| | Di = 15, Da = 25, L1 = 580, L2 = 17, H = 75, 180° | ■ | ■ | ■ | ■ | 1320790A |
| | Di = 18, Da = 25, L1 = 580, 180° | ■ | ■ | ■ | ■ | 1319421A |
| | Di = 18, Da = 25, L1 = 1,100, L2 = 17, H = 75 | ■ | ■ | ■ | ■ | 1322496A |
| Di = 20, Da = 29, L1 = 89, L2 = 20, H = 98 | ■ | ■ | ■ | ■ | 1319761A | |

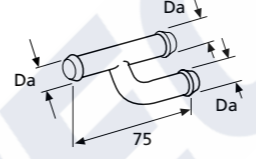
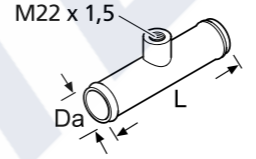
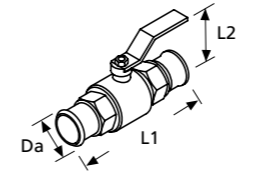
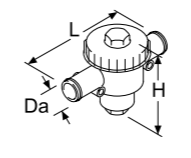
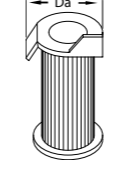
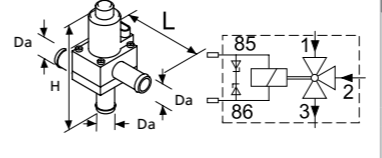
Water system

| | Thermo Top C | Thermo Pro 50 Eco | Thermo Pro 90 | DBW 2010/2016 | Thermo 230/300/350 | Order number | |
|---|---|-------------------|---------------|---------------|--------------------|--------------|--|
|  | Molded hose | | | | | | |
| | Di = 15, Da = 22, L1 = 1,020, L2 = 50 | ■ | ■ | ■ | ■ | 1320789A | |
| | Di = 18, Da = 25, L1 = 125, L2 = 90 | ■ | ■ | ■ | ■ | 1320907A | |
| | Di = 18, Da = 25, L1 = 500, L2 = 48 | ■ | ■ | ■ | ■ | 1319953A | |
| | Di = 18, Da = 27, L1 = 1,020, L2 = 50 | ■ | ■ | ■ | ■ | 1320794A | |
| | Di = 20, Da = 27, L1 = 70, L2 = 57 | ■ | ■ | ■ | ■ | 1319839A | |
| | Di = 20, Da = 27, L1 = 130, L2 = 57 | ■ | ■ | ■ | ■ | 1320147A | |
| | Di = 20, Da = 27, L1 = 187, L2 = 47 | ■ | ■ | ■ | ■ | 1319952A | |
| | Di = 20, Da = 27, L1 = 360, L2 = 47 | ■ | ■ | ■ | ■ | 1320961A | |
| | Di = 20, Da = 27, L1 = 615, L2 = 57 | ■ | ■ | ■ | ■ | 1320197A | |
| | Di = 22, Da = 29, L1 = 225, L2 = 57 | ■ | ■ | ■ | ■ | 1320911A | |
| | Di = 22, Da = 29, L1 = 1,020, L2 = 50 | ■ | ■ | ■ | ■ | 1320842A | |
| | 90° | | | | | | |
| |  | Hose | | | | | |
| Di = 15, Da = 22, L = 2,400 | | ■ | ■ | ■ | ■ | 1320300A | |
| Di = 18, Da = 25, L = 58 | | ■ | ■ | ■ | ■ | 1321789A | |
| Di = 18, Da = 27, L = 2,000 | | ■ | ■ | ■ | ■ | 1319379A | |
| Di = 20, Da = 27, L = 380 | | ■ | ■ | ■ | ■ | 1320960A | |
| Di = 38, Da = 50, L = 82 | | | | | | 1319591A | |
| Di = 38, Da = 50, L = 130 | | | | | 1319756A | | |
|  | Molded hose | | | | | | |
| | Di = 18, Da = 25, L = 110 | ■ | ■ | ■ | ■ | 1322493A | |
| | Di = 20, Da = 27, L = 70 | ■ | ■ | ■ | ■ | 1321031A | |
| Di = 20, Da = 27, L = 190 | ■ | ■ | ■ | ■ | 1322473A | | |
|  | Hose | | | | | | |
| | Di = 38, Da = 47, L = 65 | | | | ■ | 1319789A | |
| | Di = 38, Da = 47, L = 82 | | | | ■ | 1319970A | |
| | Di = 38, Da = 47, L = 110 | | | | ■ | 1319676A | |
| Silicone | | | | | | | |
|  | Molded hose | | | | | | |
| | L1 = 70, L2 = 105 | | | | ■ | 1319934A | |
| Di = 38, Da = 47, 90°, silicone | | | | | | | |

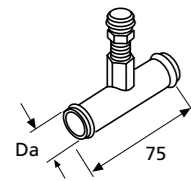
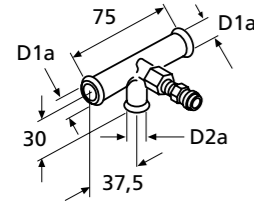
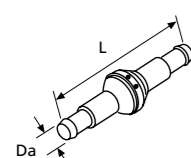
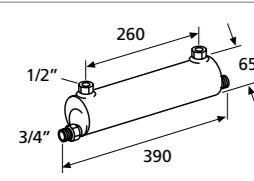
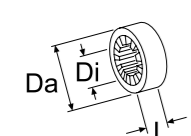
Water system

| | Thermo Top C | Thermo Pro 50 Eco | Thermo Pro 90 | DBW 2010/2016 | Thermo 230/300/350 | Order number |
|---|--------------------------------|-------------------|---------------|---------------|--------------------|--------------|
|  | Connecting pipe | | | | | |
| D = 15, L = 75 | ■ | ■ | ■ | ■ | ■ | 1319279A |
| Brass | | | | | | |
|  | Connecting pipe | | | | | |
| D1a = 15, D2a = 20 | ■ | | ■ | | | 1321000A |
| D1a = 17, D2a = 20, L = 63 | ■ | ■ | ■ | | | 1320143A |
| D1a = 18, D2a = 18 | ■ | ■ | | ■ | | 9006211A |
| D1a = 18, D2a = 20 | ■ | ■ | ■ | ■ | | 9005819C |
| D1a = 18, D2a = 22, L = 63 | ■ | ■ | | ■ | | 1320155A |
| D1a = 20, D2a = 20 | ■ | ■ | ■ | | | 1320342A |
| D1a = 20, D2a = 22, L = 63 | ■ | ■ | ■ | | | 1319594A |
| Black, plastic | | | | | | |
|  | T-piece | | | | | |
| D1a = 15, D2a = 15, steel corrosion-resistant | ■ | ■ | ■ | ■ | ■ | 1319289A |
| D1a = 18, D2a = 15, steel corrosion-resistant | ■ | ■ | ■ | ■ | ■ | 1320532A |
| D1a = 18, D2a = 18, plastic, black | ■ | ■ | ■ | ■ | ■ | 1321001A |
| D1a = 20, D2a = 10, steel corrosion-resistant | ■ | ■ | ■ | ■ | ■ | 1319846A |
| D1a = 20, D2a = 15, steel corrosion-resistant | ■ | ■ | ■ | ■ | ■ | 1319290A |
| D1a = 20, D2a = 20, brass | ■ | ■ | ■ | ■ | ■ | 1319602A |
| L = 75 | | | | | | |
|  | T-piece with restrictor | | | | | |
| Da = 20 | ■ | ■ | ■ | ■ | ■ | 1319817A |
|  | T-piece | | | | | |
| Da = 18, L = 75, steel corrosion-resistant, with restrictor, restrictor diameter 4 mm | ■ | ■ | ■ | ■ | ■ | 1319800A |

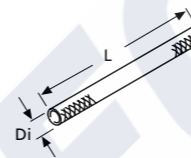
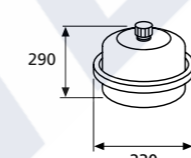
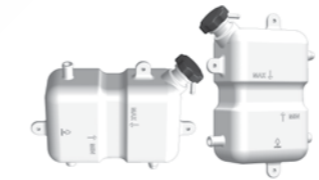


Water system

| | Thermo Top C | Thermo Pro 50 Eco | Thermo Pro 90 | DBW 2010/2016 | Thermo 230/300/350 | Order number |
|--|--------------------------|-------------------|---------------|---------------|--------------------|--------------|
|  | Connection pipe | | | | | |
| Da = 18, L = 75, steel corrosion-resistant | ■ | ■ | ■ | ■ | ■ | 1319266A |
|  | Connecting piece | | | | | |
| Da = 19 | | | | ■ | | 1320792A |
| Da = 38 | | | | ■ | | 1319286A |
| L = 100, M22 x 1.5 thread connection, steel corrosion-resistant, for thermostat | | | | | | |
|  | Manual stop valve | | | | | |
| Da = 38, L1 = 165, L2 = 85, brass, chrome plated casing | | | | | ■ | 1320027A |
|  | Shutoff valve | | | | | |
| Da = 38, L = 200, W = 85.5, H = 131, plastic PA66, operating pressure -0.5 to 4 bar, fluid temperature -30 to 110 °C, weight 0.5 kg, with filter | | | | | ■ | 1319931A |
|  | Filter insert | | | | | |
| Da = 38, for shutoff valve with filter 1319931A | | | | | ■ | 1319710A |
|  | Solenoid valve | | | | | |
| Da = 18, L = 84, W = 55, H = 101, 12 V, metal / plastic, plastic casing, 3/2-way, open without power, bag with electrical mounting parts | ■ | ■ | ■ | ■ | ■ | 9014606A |

Water system

| | Thermo Top C | Thermo Pro 50 Eco | Thermo Pro 90 | DBW 2010/2016 | Thermo 230/300/350 | Order number |
|---|---|-------------------|---------------|---------------|--------------------|--------------|
|  | Connecting pipe | | | | | |
| | Da = 15 | ■ | ■ | ■ | ■ | 1319221A |
| | Da = 18 | ■ | ■ | ■ | ■ | 1319219A |
| | Da = 20 | ■ | ■ | ■ | ■ | 1320989A |
| Steel corrosion-resistant, with bleeder valve | | | | | | |
|  | T-piece with bleed valve | | | | | |
| | D1a = 18, D2a = 15 | ■ | ■ | ■ | ■ | 1320600A |
|  | Check valve | | | | | |
| | Da = 18, L = 90, steel/brass | ■ | ■ | ■ | ■ | 1319429A |
| | Da = 20, L = 120, plastic, black | ■ | ■ | ■ | ■ | 1319554A |
| Without leak hole | | | | | | |
|  | Instant water heater with insulated cover | | | | | |
| | Without pipe connections, copper, max. 10 bar, 2 kg, max. 23,3 kW | ■ | ■ | ■ | ■ | 1321592A |
|  | Rubber ring (anti-chafing device) | | | | | |
| | Di = 25.5, Da = 45, EPDM-50, red, not permitted for exhaust systems | ■ | ■ | ■ | ■ | 1312780A |
| | Di = 22, Da = 46, not for exhaust system, chafing guard | ■ | ■ | ■ | ■ | 1320191A |
| | Di = 20.5, Da = 40, elastomer, black, not permitted for exhaust systems | ■ | ■ | ■ | ■ | 1312785A |
| | L = 20 | | | | | |

Water system

| | Thermo Top C | Thermo Pro 50 Eco | Thermo Pro 90 | DBW 2010/2016 | Thermo 230/300/350 | Order number |
|---|---|-------------------|---------------|---------------|--------------------|--------------|
|  | Woven protection hose | | | | | |
| | Di = 26 ... 30, L = 1,500, polyester, chafing guard for polyester water hoses | ■ | ■ | ■ | ■ | 1322409A |
|  | Expansion tank | | | | | |
| | 8 l, preset pressure 0,5 bar, total volume of system: max. 157 l | ■ | ■ | ■ | ■ | 1320545A |
|  | Header tank | | | | | |
| | L = 252, H = 343, vertical | ■ | ■ | ■ | ■ | 9024038A |
| | L = 343, H = 252, horizontal | ■ | ■ | ■ | ■ | 9024039A |
| W = 120, 5 l, net content 3 liter, made of polypropylene for high temperature resistance, tank kit includes 3 stainless steel mounting brackets | | | | | | |
|  | Header tank | | | | | |
| | D = 120, 10 l | ■ | ■ | ■ | ■ | 79289500 |
| | D = 230, 12 l | | | | ■ | 79289000 |
| H = 300 | | | | | | |
|  | Buffer tank | | | | | |
| | L 630, D = 295, 20 l | | | | | 3391438A |

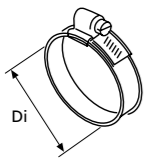
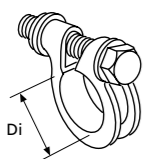
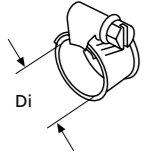
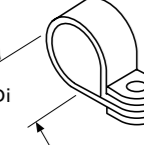
Mounting parts

| | Air Top 2000 ST | Air Top Evo 40/55 | Thermo Top C / E | Thermo Pro 50 Eco | Thermo Pro 90 | DBW 2010/2016 | DBW 2020 / 300 / 350 | Thermo 230/300/350 | Order number |
|---|-----------------|-------------------|------------------|-------------------|---------------|---------------|----------------------|--------------------|--------------|
| | | | | | | | | | 1320921A |
| Heater bracket | | | | | | | | | |
| Stainless steel | | | | | ■ | | | | |
| | | ■ | ■ | | | | | | 1319936A |
| Heater bracket | | | | | | | | | |
| Stainless steel, suitable for various installation options | ■ | ■ | | | | | | | |
| | | | | | | | | | 1320264A |
| Mounting bracket | | | | | | | | | |
| Stainless steel | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| steel zinc coated, 10 pieces | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1320232A |
| L = 46, W = 25, D = 26 | | | | | | | | | |
| | | | | | | | | | 1319818A |
| Mounting strip | | | | | | | | | |
| Stainless steel | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| Steel zinc coated, 10 pieces | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 9007918A |
| L = 100, W = 25 | | | | | | | | | |
| | | | | | | | | | 1301888A |
| Hose strip | | | | | | | | | |
| L = 178, B = 5.3, bag of 30 pieces | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| | | | | | | | | | 1320222A |
| Hose strip | | | | | | | | | |
| 1 piece | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| 10 pieces | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 9007917A |
| L = 400, B = 7.6 | | | | | | | | | |
| | | | | | | | | | 1320270A |
| Anti-vibration mount | | | | | | | | | |
| L = 53, M6 thread, not suitable for fastening heaters, 5 pieces | | | | | ■ | | | | |

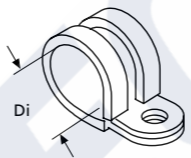
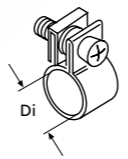
Mounting parts

| | Air Top 2000 ST | Air Top Evo 40/55 | Thermo Top C / E | Thermo Pro 50 Eco | Thermo Pro 90 | DBW 2010/2016 | DBW 2020 / 300 / 350 | Thermo 230/300/350 | Order number |
|---|-----------------|-------------------|------------------|-------------------|---------------|---------------|----------------------|--------------------|--------------|
| | | | | | | | | | 9023020A |
| Anti-vibration mount | | | | | | | | | |
| Da = thread M6 | ■ | ■ | ■ | | | | | | |
| Da = thread M8 | | | | ■ | | | | | 1319553A |
| L = 34, not suitable for fastening heaters, 5 pieces | | | | | | | | | |
| | | | | | | | | | 1320256A |
| Spacer nut | | | | | | | | | |
| L = 15 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| L = 20 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1320241A |
| L = 30 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1320083A |
| L = 40 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1319517A |
| SW = 17, full-length M6 thread, steel corrosion-resistant | | | | | | | | | |
| | | | | | | | | | 1320498A |
| Spacer bushing | | | | | | | | | |
| L = 5 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| L = 8 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1320499A |
| L = 10 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1320496A |
| L = 15 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1320090A |
| L = 20 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1320088A |
| L = 30 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1320089A |
| L = 40 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1319533A |
| Di = 8, Da = 20, aluminium | | | | | | | | | |
| | | | | | | | | | 1319317A |
| Mounting / fastening bracket | | | | | | | | | |
| Di = 86, L = 111, B = 25 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| | | | | | | | | | 1321732A |
| Hose clip | | | | | | | | | |
| Di = 32 ... 39, stainless steel | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| Di = 40 ... 47, steel corrosion-resistant | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1320158A |
| Di = 48 ... 55, steel corrosion-resistant | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1320159A |
| Di = 60 ... 80, steel corrosion-resistant | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 9026066A |
| Di = 70 ... 90, steel corrosion-resistant | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1320223A |
| Di = 72 ... 79, steel corrosion-resistant | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1320160A |
| Di = 80 ... 87, steel corrosion-resistant | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1320162A |
| Di = 90 ... 100, steel corrosion-resistant | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1320085A |
| Di = 98 ... 120, steel corrosion-resistant | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1320161A |
| W = 14.3, SW = 8, bolt head with hexagon and slot | | | | | | | | | |


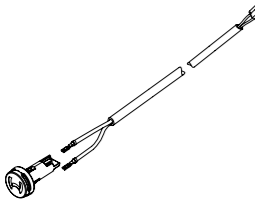
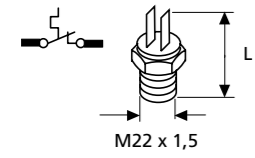
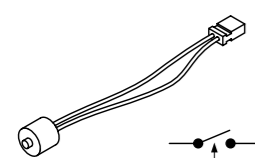
Mounting parts

| | Air Top 2000 ST | Air Top Evo 40/55 | Thermo Top C / E | Thermo Pro 50 Eco | Thermo Pro 90 | DBW 2010/2016 | DBW 2020 / 300 / 350 | Thermo 230/300/350 | Order number |
|---|-------------------|-------------------|------------------|-------------------|---------------|---------------|----------------------|--------------------|--------------|
|  | Hose clip | | | | | | | | |
| Di = 16 ... 24 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1320502A |
| Di = 40 ... 60 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1320746A |
| Di = 70 ... 90 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1320086A |
| Di = 80 ... 95 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 9023950A |
| Di = 100 ... 120 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1310876A |
| Steel | | | | | | | | | |
|  | Pipe clamp | | | | | | | | |
| Di = 39 ... 42, W = 13.5, M8 thread, steel corrosion-resistant, for flexible exhaust pipe, with screw | | | | | ■ | | | | 1320194A |
| Di = 68 ... 71, steel zinc coated | | | | | | | | ■ | 1320081A |
|  | Hose clamp | | | | | | | | |
| Di = 16 – 27, stainless steel | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 9015918A |
| Di = 28 – 35, stainless steel | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1320271A |
| Di = 16 – 24, chromium steel | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1320248A |
| Di = 40 – 50, chromium steel | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1321064A |
|  | Pipe clip | | | | | | | | |
| Di = 25, W = 15, stainless steel | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1320045A |
| Di = 33, W = 15, stainless steel, 6.5 mm fastening hole | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1320064A |
| Di = 38, W = 20, stainless steel | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1320129A |
| Di = 42, W = 12, stainless steel, 5.2 mm fastening hole | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1319693A |
| Di = 42, W = 15, stainless steel, 6.5 mm fastening hole, 5 pieces | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1320276A |
| Di = 52, W = 15, steel zinc coated, 6.5 mm fastening hole, 5 pieces | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1320265A |

Mounting parts

| | Air Top 2000 ST | Air Top Evo 40/55 | Thermo Top C / E | Thermo Pro 50 Eco | Thermo Pro 90 | DBW 2010/2016 | DBW 2020 / 300 / 350 | Thermo 230/300/350 | Order number |
|--|------------------|-------------------|------------------|-------------------|---------------|---------------|----------------------|--------------------|--------------|
|  | Pipe clip | | | | | | | | |
| Di = 5, stainless steel / rubber, rubber-coated pipe clip, 5.2 mm fastening hole | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1320195A |
| Di = 29, W = 15 rubber-coat | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1320235A |
| Di = 34, W = 20 rubber-coat | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1320236A |
| Di = 38, W = 15 rubber-coat | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1320402A |
|  | Hose clip | | | | | | | | |
| Di = 8, steel corrosion-resistant, 20 pieces | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1320244A |
| Di = 9, steel corrosion-resistant | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1320492A |
| Di = 14, steel corrosion-resistant, 20 pieces | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1320245A |
| Di = 12, steel corrosion-resistant, 20 pieces | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 1320246A |
| Di = 14, stainless steel, 10 pieces | ■ | ■ | | ■ | ■ | ■ | ■ | ■ | 1320249A |
| W = 9, SW = 7, bolt head with hexagon and cross-head slot | | | | | | | | | |

Electrical accessories

| | Air Top 2000 ST | Air Top Evo 40/55 | Thermo Top C/E | Thermo Pro 50 Eco | Thermo Pro 90 | DBW 2010/2016 | Thermo 230/300/350 | Order number |
|---|-----------------|-------------------|----------------|-------------------|---------------|---------------|--------------------|--|
|  <p>Installation frame kit, short</p> <ul style="list-style-type: none"> For standard/combination digital timer and room thermostat, 3 position controller With installation materials | | | | | | | | 474630 |
|  <p>Temperature sensor external</p> <p>L = 2.5 m</p> <p>L = 5.0 m</p> | ■ | ■ | | | | | | 9030881A 9030883A |
|  <p>Thermostat (control thermostat)</p> <p>35 – 42 °C, opener, L = 38</p> <p>50 – 55 °C, opener, L = 38</p> <p>62 – 70 °C, opener, L = 39,5</p> <p>71 – 76 °C, opener, L = 39,6</p> <p>73 – 78 °C, opener, L = 39,6</p> <p>Gasket ring, copper, 22 x 278</p> <p>M22 x 1,5</p> | | | | | ■ | ■ | | 1319409A 3396532A 1319326A 1319656A 1319657A 217336 |
|  <p>Thermostat</p> <p>40 °C, closer</p> | | | ■ | ■ | ■ | ■ | | 1322511A |

Service and diagnosis

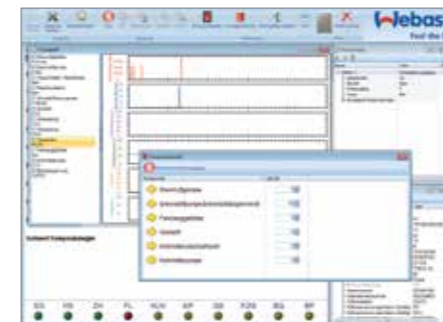
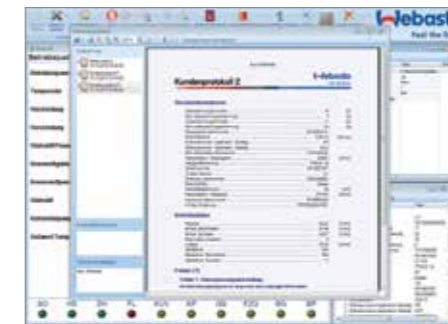
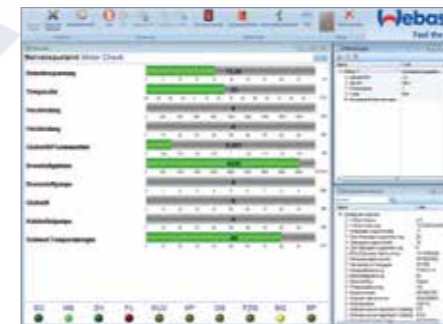
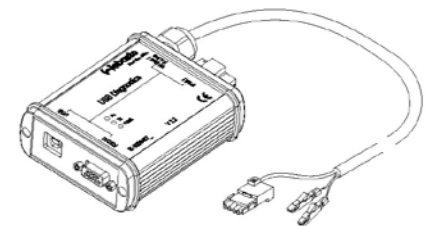
Spare part lists

All spare parts lists and other useful information about our heating systems are available on our Dealer Portal at <http://dealers.webasto.com> and on our **Marine Navigator DVD**.



Heater diagnosis module

Webasto provides a complete set of diagnosis tools to service and repair its heaters. The diagnosis module includes a hardware unit and various connecting adaptors for each heater model. For more details and the latest diagnosis visit our Dealer Portal at <http://dealers.webasto.com>



Screenshots from Webasto diagnosis software



Cooling products

| | |
|--|----|
| Which is the right air-conditioning system for your boat? | 76 |
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Which is the right air-conditioning system for your boat?



Our large product portfolio from compact air-conditioning systems up to large chiller systems leaves no wish unfulfilled. With our wide power range we provide cooling capacities from 5,000 BTU/h up to 572,000 BTU/h.

BlueCool self-contained units



- Perfect solution for vessels with one to three cabins
- Very compact
- Easy to retrofit
- Extremely efficient

or

BlueCool chiller systems



- Large power range to fit any size of boat or superyacht
- Best in marine AVC: Ability to provide adequate cooling wherever it is needed
- Ideal basis for our integrated BlueComfort solutions
- Uses minimal space in cabins since air handlers are smaller than self-contained units

How to choose the right air-conditioner

Example: You own a yacht and would like to aircondition a room of 5 m (length) x 5 m (width) x 2 m (height).

Step 1: Define the category of the cabin

Determine the **category of the cabin**. We give an example for a cabin with an average glass area, for example a deck saloon.

Category 2

Step 2: Define the net volume

Determine the **net volume of the room** (5 m x 5 m x 2 m = 50 m³; subtract 20 % for furniture in the room; 50 m³ – 10 m³ = 40 m³; If you want to air condition the whole boat, please calculate the **sum of your rooms**.

40 m³

Step 3: Define your climate region

Determine the **climate region** where you spend most of your time. For example the Mediterrean Sea is a "normal region" in the climate category.

Normal region

Step 4: Identify your cooling requirements

Result: You need an air conditioning system with a 20,000 BTU/h **cooling performance**.

20,000 BTU/h

Step 5: Decide between a self-contained and chiller system

Depending on the demands you can decide on a **self-contained or chiller system** with a cooling capacity of 20,000 BTU/h.

BlueCool S20

| Step 1 | Category 1 portlights only, cabin(s) all below deck [400 BTU/m ³] | Step 3 | | |
|--------|---|-------------------|--------|---------|
| | | region: normal | cold | hot |
| Step 2 | Volume of the rooms L x W x H (m ³) | 4,000 | 3,000 | 5,000 |
| | 10 | 8,000 | 6,000 | 10,000 |
| | 20 | 12,000 | 9,000 | 15,000 |
| | 30 | 16,000 | 12,000 | 20,000 |
| | 40 | 20,000 | 15,000 | 25,000 |
| | 50 | 24,000 | 18,000 | 30,000 |
| | 60 | 28,000 | 21,000 | 35,000 |
| | 70 | 32,000 | 24,000 | 40,000 |
| | 80 | 36,000 | 27,000 | 45,000 |
| | 90 | 40,000 | 30,000 | 50,000 |
| | 100 | 44,000 | 33,000 | 55,000 |
| | 110 | 48,000 | 36,000 | 60,000 |
| | 120 | 52,000 | 39,000 | 65,000 |
| | 130 | 56,000 | 42,000 | 70,000 |
| | 140 | 60,000 | 45,000 | 75,000 |
| | 150 | 64,000 | 48,000 | 80,000 |
| | 160 | 68,000 | 51,000 | 85,000 |
| | 170 | 72,000 | 54,000 | 90,000 |
| | 180 | 76,000 | 57,000 | 95,000 |
| | 190 | 80,000 | 60,000 | 100,000 |
| 200 | | | | |

For precise BTU calculation, please refer to our dedicated BTU calculation tool, available on the Marine Navigator.



The right cooling capacity

| Category 1 portlights only, cabin(s) all below deck (400 BTU/m ³) | Step 3 | | |
|---|-------------------|--------|---------|
| | region: normal | cold | hot |
| Volume of the rooms L x W x H (m ³) | 4,000 | 3,000 | 5,000 |
| 10 | 8,000 | 6,000 | 10,000 |
| 20 | 12,000 | 9,000 | 15,000 |
| 30 | 16,000 | 12,000 | 20,000 |
| 40 | 20,000 | 15,000 | 25,000 |
| 50 | 24,000 | 18,000 | 30,000 |
| 60 | 28,000 | 21,000 | 35,000 |
| 70 | 32,000 | 24,000 | 40,000 |
| 80 | 36,000 | 27,000 | 45,000 |
| 90 | 40,000 | 30,000 | 50,000 |
| 100 | 44,000 | 33,000 | 55,000 |
| 110 | 48,000 | 36,000 | 60,000 |
| 120 | 52,000 | 39,000 | 65,000 |
| 130 | 56,000 | 42,000 | 70,000 |
| 140 | 60,000 | 45,000 | 75,000 |
| 150 | 64,000 | 48,000 | 80,000 |
| 160 | 68,000 | 51,000 | 85,000 |
| 170 | 72,000 | 54,000 | 90,000 |
| 180 | 76,000 | 57,000 | 95,000 |
| 190 | 80,000 | 60,000 | 100,000 |
| 200 | | | |

| Category 2 average glass area, cabins partly below deck (500 BTU/m ³) | Step 3 | | |
|---|-------------------|--------|---------|
| | region: normal | cold | hot |
| Volume of the rooms L x W x H (m ³) | 5,000 | 3,750 | 6,250 |
| 10 | 10,000 | 7,500 | 12,500 |
| 20 | 15,000 | 11,250 | 18,750 |
| 30 | 20,000 | 15,000 | 25,000 |
| 40 | 25,000 | 18,750 | 31,250 |
| 50 | 30,000 | 22,500 | 37,500 |
| 60 | 35,000 | 26,250 | 43,750 |
| 70 | 40,000 | 30,000 | 50,000 |
| 80 | 45,000 | 33,750 | 56,250 |
| 90 | 50,000 | 37,500 | 62,500 |
| 100 | 55,000 | 41,250 | 68,750 |
| 110 | 60,000 | 45,000 | 75,000 |
| 120 | 65,000 | 48,750 | 81,250 |
| 130 | 70,000 | 52,500 | 87,500 |
| 140 | 75,000 | 56,250 | 93,750 |
| 150 | 80,000 | 60,000 | 100,000 |
| 160 | 85,000 | 63,750 | 106,250 |
| 170 | 90,000 | 67,500 | 112,500 |
| 180 | 95,000 | 71,250 | 118,750 |
| 190 | 100,000 | 75,000 | 125,000 |
| 200 | | | |

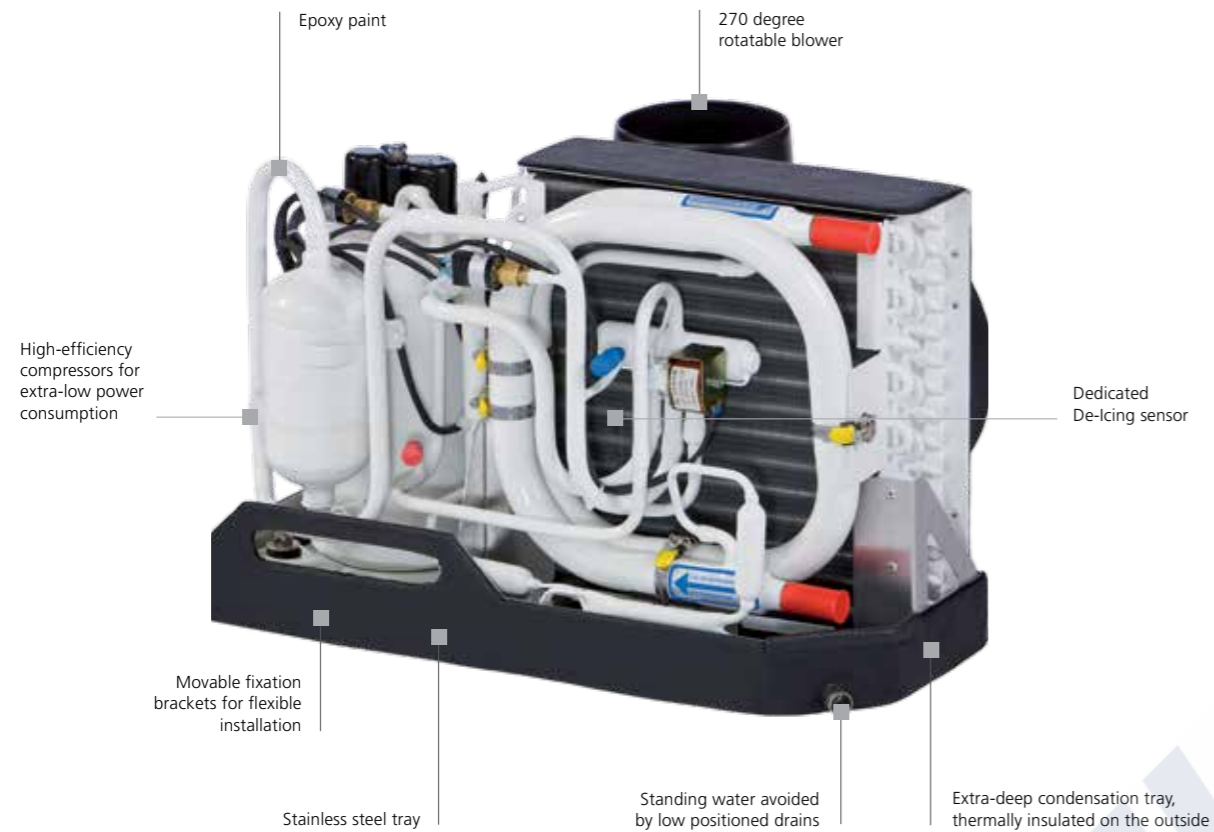
| Category 3 glass area above average, saloon above deck (600 BTU/m ³) | Step 3 | | |
|--|-------------------|--------|---------|
| | region: normal | cold | hot |
| Volume of the rooms L x W x H (m ³) | 6,000 | 4,500 | 7,500 |
| 10 | 12,000 | 9,000 | 15,000 |
| 20 | 18,000 | 13,500 | 22,500 |
| 30 | 24,000 | 18,000 | 30,000 |
| 40 | 30,000 | 22,500 | 37,500 |
| 50 | 36,000 | 27,000 | 45,000 |
| 60 | 42,000 | 31,500 | 52,500 |
| 70 | 48,000 | 36,000 | 60,000 |
| 80 | 54,000 | 40,500 | 67,500 |
| 90 | 60,000 | 45,000 | 75,000 |
| 100 | 66,000 | 49,500 | 82,500 |
| 110 | 72,000 | 54,000 | 90,000 |
| 120 | 78,000 | 58,500 | 97,500 |
| 130 | 84,000 | 63,000 | 105,000 |
| 140 | 90,000 | 67,500 | 112,500 |
| 150 | 96,000 | 72,000 | 120,000 |
| 160 | 102,000 | 76,500 | 127,500 |
| 170 | 108,000 | 81,000 | 135,000 |
| 180 | 114,000 | 85,500 | 142,500 |
| 190 | 120,000 | 90,000 | 150,000 |
| 200 | | | |

| Category 4 very large glass areas, saloon and wheel house above deck (750 BTU/m ³) | Step 3 | | |
|--|-------------------|---------|---------|
| | region: normal | cold | hot |
| Volume of the rooms L x W x H (m ³) | 7,500 | 5,625 | 9,375 |
| 10 | 15,000 | 11,250 | 18,750 |
| 20 | 22,500 | 16,875 | 28,125 |
| 30 | 30,000 | 22,500 | 37,500 |
| 40 | 37,500 | 28,125 | 46,875 |
| 50 | 45,000 | 33,750 | 56,250 |
| 60 | 52,500 | 39,375 | 65,625 |
| 70 | 60,000 | 45,000 | 75,000 |
| 80 | 67,500 | 50,625 | 84,375 |
| 90 | 75,000 | 56,250 | 93,750 |
| 100 | 82,500 | 61,875 | 103,125 |
| 110 | 90,000 | 67,500 | 112,500 |
| 120 | 97,500 | 73,125 | 121,875 |
| 130 | 105,000 | 78,750 | 131,250 |
| 140 | 112,500 | 84,375 | 140,625 |
| 150 | 120,000 | 90,000 | 150,000 |
| 160 | 127,500 | 95,625 | 159,375 |
| 170 | 135,000 | 101,250 | 168,750 |
| 180 | 142,500 | 106,875 | 178,125 |
| 190 | 150,000 | 112,500 | 187,500 |
| 200 | | | |

For extreme climatic conditions such as the Persian Gulf with sea-water temperatures of 32 °C and air temperatures of 40 °C, you have to add 25 to 30 % onto the calculated figure. On BlueCool P-Series units it is also recommended that the condenser is increased in size.

BlueCool self-contained units

BlueCool S-Series



BlueCool self-contained units

Product overview



- BlueCool Classic SC5

SEE PAGE 84



- BlueCool S-Series S8 - S27

SEE PAGE 84

NEW

The BlueCool S-Series:

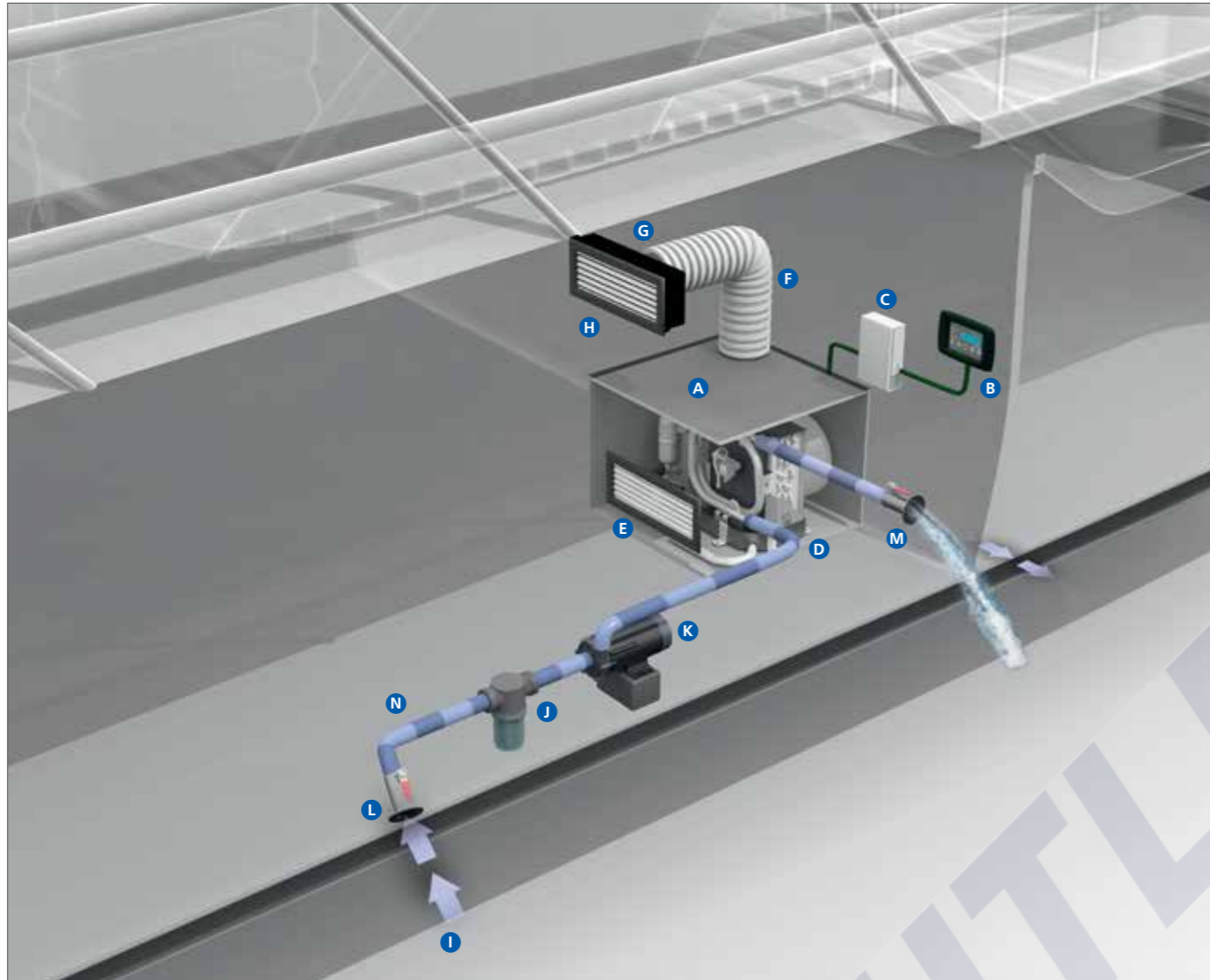
- Technically updated to be fully 50/60 Hz compatible
- Suitable for worldwide usage
- Very high efficiency, using R410a refrigerant
- Continuous operation even under tropical conditions
- USB diagnosis for easy servicing and parameter setting
- Quiet operation
- Robust design
- Soft start devices available as an option
- Vibration absorber kits available as an option

Self-contained air-conditioners:

- Stand alone unit
- Heating via reverse cycle integrated
- Extremely compact
- All components on one tray
- Seven sizes available
- Lowest power consumption
- Including electronics, blower and controls
- Evaporator temperature control in real time mode

BlueCool self-contained units

Application concept



Installation of a BlueCool self-contained unit is quite simple:
Each cabin has its own self-contained unit (A) providing cool air to this cabin.
It is controlled by an air control unit (B) which is also located in this cabin.
The generated heat is transferred into the sea via the sea water circuit (I to N).

Webasto BlueCool self-contained units

Webasto BlueCool self-contained air-conditioning units have one hermetically encapsulated compressor. The refrigerant circuit includes not only the compressor but also a condenser, a throttle element (capillary tube) as well as an evaporator. Self-contained units are extremely compact. All components (compressor, condenser, evaporator and blower) required for cooling a cabin, a salon, a lounge or another room are mounted on a stainless steel tray. Webasto self-contained units are available in different power ratings. This means you are sure to find the ideal system for the specific needs of almost all room sizes requiring cooling in a yacht.

BlueCool self-contained units

Application guidelines

For a complete self-contained unit, please select the following:

Core unit

Please select the core unit according to the required cooling capacity.

A Air-conditioning

SEE PAGE 84

B Display and control unit

SEE PAGE 112

Position **A** and **B** as well as the following components are included in the scope of delivery:

- Electric cable and control box
- Installation manual
- Remote cabin temperature sensor 3 m
- Display cable 4.5 m
- Operating manual

Accessories

Please order separately the accessories for the application consisting of:

C Soft Starts

SEE PAGE 110

D Vibration absorber

SEE PAGE 110

Air system

Please order separately the air ducting system for the application consisting of:

E Return air grille

SEE PAGE 119

F Air ducting

SEE PAGE 120

G Transition box

SEE PAGE 120

H Supply air grille

SEE PAGE 119

Sea water circuit

Please order separately the components for the sea water circuit consisting of:

I Sea water inlet

SEE PAGE 128

J Sea water strainer

SEE PAGE 128

K Sea water pump

SEE PAGE 114

L Closing valve

SEE PAGE 126

M Overboard discharge

SEE PAGE 128

N Water hose

SEE PAGE 122

BlueCool Classic & S-Series

Product overview

| Technical data | BlueCool Classic | | BlueCool S-Series | | | | |
|---|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | SC5 | S8 | S10 | S13 | S16 | S20 | S27 |
| Type | SC5 | S8 | S10 | S13 | S16 | S20 | S27 |
| Order numbers | WBCL005101G | WBCL120001C | WBCL120002C | WBCL120003C | WBCL120004C | WBCL120005C | WBCL120006C |
| Cooling capacity* (BTU/h) | 5,000 | 8,000 | 10,000 | 13,000 | 16,000 | 20,000 | 27,000 |
| Cooling capacity* (kW) | 1.5 | 2.4 | 2.9 | 3.8 | 4.7 | 5.9 | 7.9 |
| Voltage (V) | 230 | 230 | 230 | 230 | 230 | 230 | 230 |
| Frequency (Hz) | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 |
| Current draw running** (A) 50 Hz | 2.1 | 2.4 - 3.5 | 2.6 - 4.0 | 3.6 - 6.3 | 4.9 - 7.1 | 5.9 - 8.9 | 7.0 - 10.5 |
| Current draw max. peak (A) 50 Hz | 19 | 28 | 27 | 37 | 54 | 60 | 87 |
| Current draw RMS40**** (A) 50 Hz | 11 | 17 | 17 | 22 | 35 | 39 | 58 |
| Current draw RMS300**** (A) 50 Hz | 6 | 9 | 9 | 11 | 19 | 20 | 37 |
| Current draw max. peak with Soft Start (A) 50 Hz | 12 | 12 | 11 | 13 | 22 | 23 | 36 |
| Current draw RMS40**** with Soft Start (A) 50 Hz | 7 | 7 | 7 | 7 | 12 | 14 | 20 |
| Current draw RMS300**** with Soft Start (A) 50 Hz | 5 | 5 | 5 | 5 | 9 | 10 | 18 |
| Locked Rotor Amperage LRA (A) | - | 19 | 19 | 24 | 37 | 43 | 62 |
| Max. circuit breaker (A) | 8 | 16 | 16 | 16 | 16 | 16 | 20 (comp. only) |
| Air flow (free blowing) (m ³ /h) | 275 | 275 | 400 | 500 | 625 | 625 | 2 x 550 |
| Air flow (free blowing) (cfm) | 162 | 162 | 235 | 294 | 368 | 368 | 2 x 324 |
| Seawater connection (mm) | 16 | 19 | 19 | 19 | 19 | 19 | 19 |
| Seawater connection (inch) | 5/8" | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" |
| Minimal seawater flow (l/min) | 5 | 8 | 10 | 12 | 14 | 17 | 21 |
| Recommended seawater pump + | WB250 | WB350 | WB350 | WB350/WB500G | WB500/WB500G | WB500/WB500G | WB1000/ WB1000G |
| Dimensions L x D x H (mm) | 424 x 285 x 278 | 400 x 320 x 305 | 475 x 310 x 310 | 500 x 350 x 320 | 540 x 350 x 370 | 590 x 340 x 370 | 570 x 510 x 410 |
| Dimensions L x D x H (inch) | 16.7 x 11.2 x 10.9 | 15.7 x 12.6 x 12.0 | 18.7 x 12.2 x 12.2 | 19.7 x 13.8 x 12.6 | 21.3 x 13.8 x 14.6 | 23.2 x 13.4 x 14.6 | 22.4 x 20.1 x 16.1 |
| Blower connection (mm) | 100 | 100 | 100 | 125 | 125 | 125 | 2 x 125 |
| Blower connection (inch) | 4" | 4" | 4" | 5" | 5" | 5" | 2 x 5" |
| Weight (kg) | 21 | 20 | 22 | 27 | 31 | 34 | 46 |

General note: Values in this table given for 50 Hz only. 60 Hz data available on request.

* BTU/h are based on 7 °C evaporating temperature and 38 °C condensing temperature

** Amperage values for core unit depend on compressor load. Max values at tropical conditions at 230 V/50 Hz

*** Starting amperage RMS (Root Mean Square) for core unit for first 300 ms

**** Starting amperage RMS (Root Mean Square) for core unit for first 40 ms

+ Recommendation only. Pump size shall be adapted to application constraints in order to always ensure minimal sea water flow.



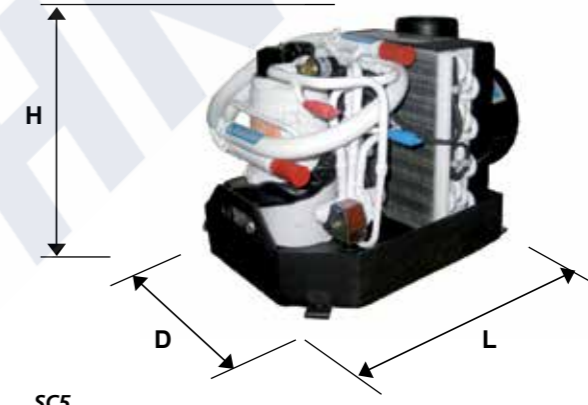
Soft start device available as an option



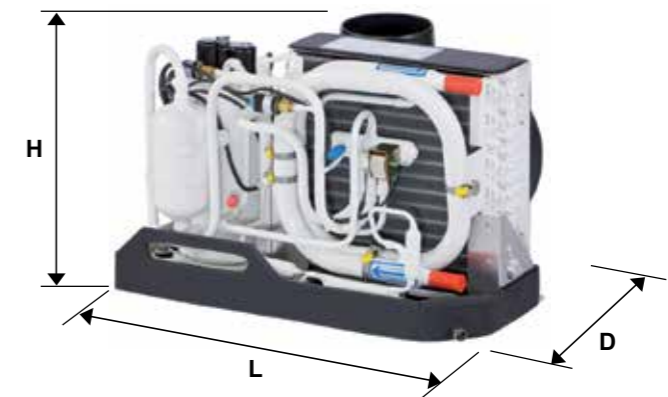
Sensor, Display and PC Diagnosis access from outside

BlueCool Classic & S-Series

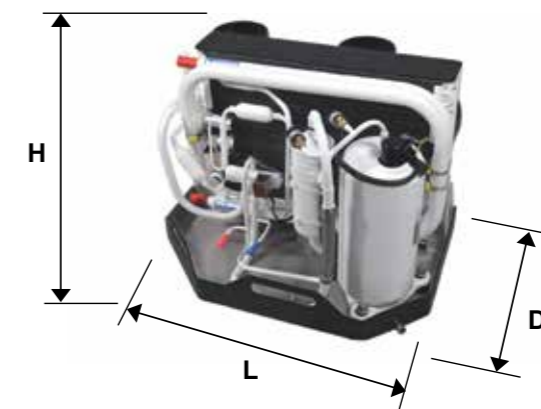
Product overview



SC5



S8 - S20



S27

BlueCool chiller systems

New BlueCool V-Series



NEW



- The BlueCool V-Series V50 M:**
- Large power modulation range: 8,500 - 50,000 BTU
 - Variable speed BLDC compressors controlled by inverter technology
 - Zero electrical starting peak
 - Super quiet operation
 - High system availability via dynamic control of HP/LP boundary conditions
 - Adjustable amperage draw
 - Preventive maintenance monitoring system
 - Condensate free operation
 - Easy installation and maintenance
 - Low service and operation costs
 - Light and compact
 - Integrates Webasto's BlueCool Expert diagnosis and set up tool

BlueCool chiller systems

Product overview



■ BlueCool V-Series V50 M

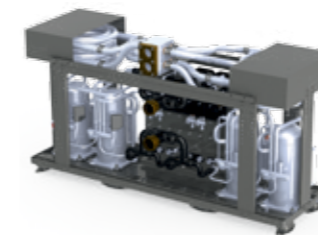
SEE PAGE 90

NEW



■ BlueCool C-Series C16 M to C108 Q

SEE PAGE 92



■ BlueCool P-Series P30 M to P572 Q

SEE PAGE 94

BlueCool V-Series

The V-Series is offering variable speed compressor technology to the marine market. This innovative technology with inverter driven BLDC compressors allows to modulate the cooling output in a wide range but also eliminates the starting peak which permits to downsize the generator. Additionally it has an advanced control system with new comfort features, it automatically compensates 50/60 Hz and adapts to hot sea water conditions.

BlueCool C-Series

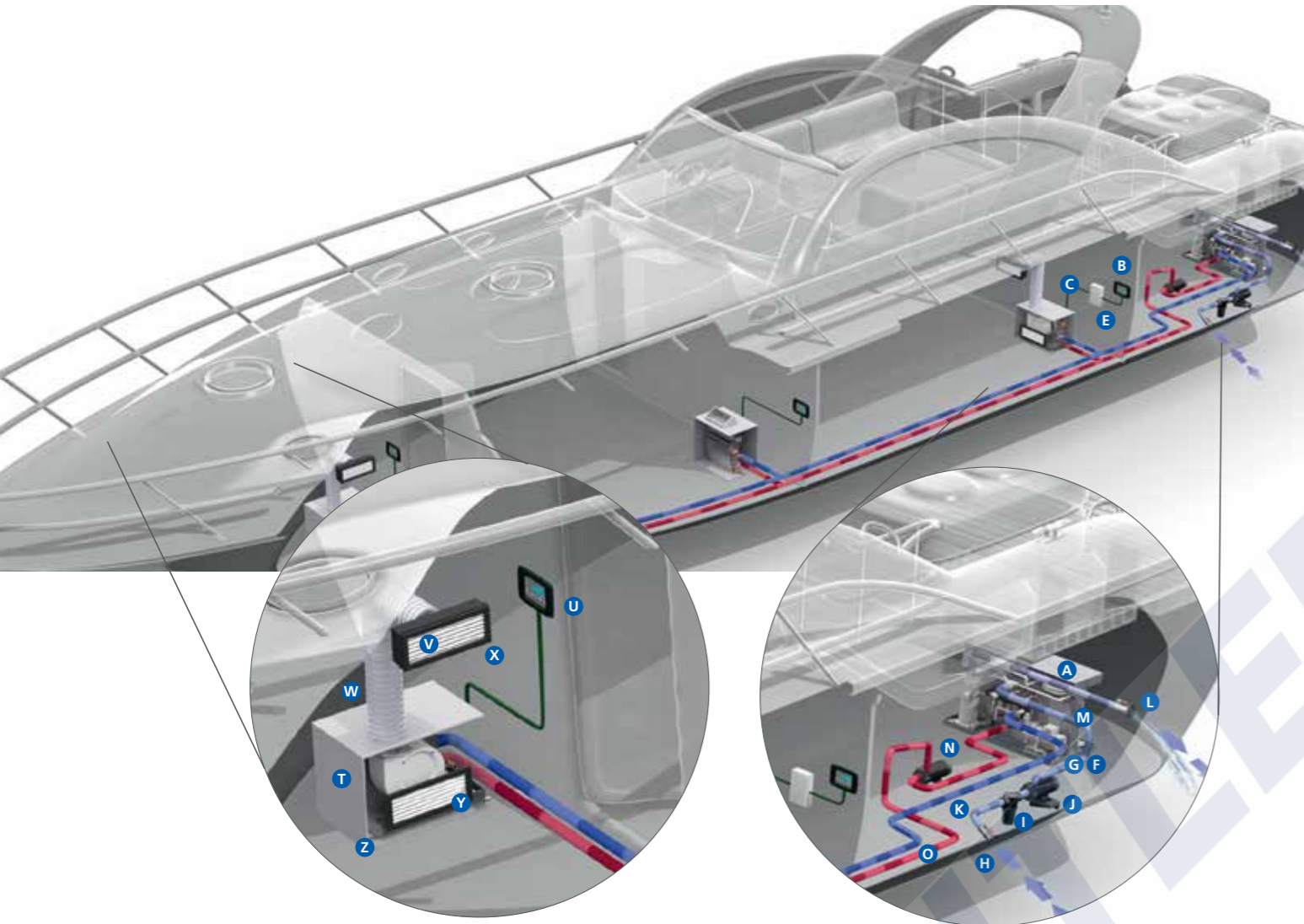
The C-Series stands for standardized chiller units for small to medium boats. The range goes from 16,000 BTU/h to 108,000 BTU/h. Those chillers are the ideal solution for those who demand a high quality product with a short delivery time. The units come in 230 V 50/60 Hz voltage. Customization options are soft starts as well as vibration dampers.

BlueCool P-Series

The P-Series is Webasto's Professional Chiller Series and is designed for mid-size up to super yachts and commercial boats. They cover a large range of cooling performances from 30,000 up to 572,000 BTU/h. All are equipped with 50 to 60 Hz compatible scroll-compressors and up to four compressors are mounted on a single tray. The P-Series is highly customizable with many options such as soft starts, anti-vibration mounts, CAN Bus control, enlarged condensers for operation under tropical conditions, single phase or three phase compressors. Ask Webasto to have your chiller system individually configured to your needs.

BlueCool chiller systems

Application concept



For larger boats with several cabins a chiller system is the best choice. The chiller A/C unit **A** is typically placed in the engine room providing chilled water/glycol to all cabins via the chilled water circuit **N** to **S**. In each cabin one or several air handlers **T** are fitted depending on cooling capacity and space requirements. The Digital Control Panel **B** controls the A/C system itself. For each cabin one Control Panel **U** is needed to individually control the air handler in this cabin. As a result you get full temperature control in each cabin providing maximum comfort on board.

Chiller air-conditioning systems

Whenever three or more independent volumes in a yacht need to be air-conditioned, it becomes worth considering a central chiller system. To distribute cooling capacity over several independently operating air handlers from one single central cooling unit, the most flexible and simple solution is to install a chilled water circulation system between the central unit and the air handlers. This mixed water/glycol circuit is maintained at approx. +4 °C. All Webasto chiller units are equipped with high efficiency multi-plate heat exchangers.

BlueCool chiller systems

Application guidelines

For a complete chiller system, please select the following:

Core unit

Please select the core unit according to the required cooling capacity, the available voltage and whether cool only or heating via reverse cycle is needed.

A Air-conditioning unit [SEE PAGE 88-101](#)

Position **A** as well as the following components are included in the scope of delivery:

- Electric cable and control box
- Installation manual
- Operating manual

Control elements for core unit

Please select the control elements for the core unit separately

B Digital Control Panel (Master control unit) [SEE PAGE 112](#)

C Display cable [SEE PAGE 113](#)

D Remote air temperature sensor [SEE PAGE 113](#)

Accessories for V- and C-Series:

Please order separately the accessories for the V- and C-Series core unit

E Soft Starts [SEE PAGE 110](#)

F Vibration absorber kits [PAGE 110](#)

G Silent block kits [SEE PAGE 110](#)

Sea water circuit

Please order separately the components for the sea water circuit consisting of:

H Sea water inlet [SEE PAGE 128](#)

I Sea water strainer [PAGE 128](#)

J Sea water pump [SEE PAGE 114](#)

K Closing valve [PAGE 126](#)

L Overboard discharge [SEE PAGE 128](#)

M Water hose [PAGE 122](#)

Chilled water circuit

Please add the required components for the chilled water circuit consisting of:

N Circulation pump [SEE PAGE 114](#)

O Piping or hosing system [SEE PAGE 127](#)

P 3-way valve (optional) [SEE PAGE 126](#)

with insulation

Q Turn ball valve [SEE PAGE 126](#)

R Expansion tank [SEE PAGE 126](#)

S T-pieces [SEE PAGE 123](#)

Cabin accessories necessary for each single cabin

Please add for every single cabin the following components and accessories:

T Air handler [SEE PAGE 104](#)

U Cabin control (Control Panel, display cable, temperature sensor and control box) [SEE PAGE 113](#)

V Supply air grille [SEE PAGE 118](#)

W Air ducting [SEE PAGE 120](#)

X Transition box [SEE PAGE 120](#)

Y Return air grille [SEE PAGE 118](#)

Z Water hoses for condensation drain [SEE PAGE 127](#)

BlueCool V-Series

Product overview

| Technical data | BlueCool V-Series |
|--|---------------------------------------|
| Type | V50 M |
| Order numbers | V50M-R-230V-REV-R410a WBCL1203001A |
| Cooling capacity* (BTU/h) | 8,500 – 50,000 |
| Cooling capacity* (kW) | 2.5 – 14.6 |
| Voltage (V) | 230 |
| Frequency ++ (Hz) | 50/60 |
| Current draw running** (A) | 2.5 – 15* (max. 17) |
| Current draw Eco 1 Mode | 2.5 – 8* (max. 12) |
| Current draw Eco 2 Mode | 2.5 – 5* (max. 8) |
| Current draw Start (A) | 2.5 |
| Chilled water connection (mm) | 25 |
| Chilled water connection (inch) | 1" |
| Minimal chilled water flow (l/min) | 35 |
| Seawater connection (inch) | 1" M BST |
| Minimal seawater flow (l/min) | 38 |
| Dimensions Unit L x D x H (mm) | 567 x 340 x 510 |
| Dimensions Unit L x D x H (inch) | 22.3 x 13.4 x 20.0 |
| Dimensions Unit incl. Silent blocks L x D x H (mm) | 591 x 378 x 548 |
| Dimensions Unit incl. Silent blocks L x D x H (inch) | 23.3 x 14.9 x 21.6 |
| Dimensions Electronic box L x D x H (mm) | 560 x 192 x 435 |
| Dimensions Electronic box L x D x H (inch) | 22.0 x 7.6 x 17.1 |
| Dimensions Unit incl. Box L x D x H (mm) | 607 x 530 x 510 |
| Dimensions Unit incl. Box L x D x H (inch) | 23.9 x 20.8 x 20.0 |
| Dimensions Unit incl. Silent blocks and Box L x D x H (mm) | 620 x 570 x 548 |
| Dimensions Unit incl. Silent blocks and Box L x D x H (inch) | 24.4 x 22.4 x 21.6 |
| Ambient temperature limit (°C) | 60 |
| Sound level unit (dB/A) | 49 |
| Refrigerant charge R410A (g) | 892 |
| Weight core unit (kg) | 47 |
| Weight electronic box (kg) | 15 |
| Min. sea water temp. Heating (°C) | 6 |
| Max. sea water temp. Cooling (°C) | 35 |

* BTU/h are based on 7 °C evaporating temperature and 38 °C condensing temperature
 ** Amperage values for core unit depend on compressor load. Max values at tropical conditions at 230 V/50 Hz
 ++ BlueCool V-Series systems are tested and approved by Webasto for 50/60 Hz operation.

BlueCool V-Series

Product overview



V50 M
with electronic box (horizontal)



V50 M
without electronic box

NEW



- The BlueCool C-Series:**
- Improved performance and up to 15 % higher efficiency
 - Continuous cooling capacity even in tropical conditions
 - Even more compact design
 - New improved electronics for easy installation and diagnosis via USB cable
 - Optional CAN-Bus for optimized adaptation to boat systems
 - Compressor noise is reduced by up to 25 %
 - Easy sea water and chilled water connections at one side
 - Strong stainless steel tray and condensate drain
 - High quality Epoxy paint protection
 - Vibration absorber and Silent block available as an option
 - Soft start devices available as an option

BlueCool C-Series

Product overview

| Technical data | BlueCool C-Series | | | | | | | |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Type | C16 M | C20 M | C27 M | C32 T | C40 T | C55 T | C81 R | C108 Q |
| Order numbers | WBCL1205001B | WBCL1205002B | WBCL1205003B | WBCL1207001B | WBCL1207002B | WBCL1207003B | WBCL1207004B | WBCL1207005B |
| Cooling capacity* (BTU/h) | 16,000 | 20,000 | 27,000 | 32,000 | 40,000 | 55,000 | 81,000 | 108,000 |
| Cooling capacity* (kW) | 4.7 | 5.9 | 7.9 | 9.4 | 11.7 | 16.1 | 23.7 | 31.7 |
| Voltage (V) | 230 | 230 | 230 | 230 | 230 | 230 | 230 | 230 |
| Frequency ++ (Hz) | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 |
| Current draw running** (A) | 4.4 – 6.0 | 6.9 – 8.0 | 8.6 – 9.2 | 8.8 – 12.0 | 13.8 – 16.0 | 17.2 – 18.4 | 25.8 – 27.6 | 34.4 – 36.8 |
| Current draw Start max. peak (A) 50 Hz | 54 | 60 | 87 | 60 | 68 | 96 | 105 | 115 |
| Current draw RMS40**** (A) 50 Hz | 35 | 39 | 58 | 41 | 47 | 67 | 76 | 86 |
| Current draw RMS300**** (A) 50 Hz | 19 | 20 | 37 | 25 | 28 | 46 | 55 | 65 |
| Current draw Start max. peak with Soft Start (A) 50 Hz | 22 | 22 | 36 | 28 | 30 | 48 | 54 | 67 |
| Current draw RMS40**** with Soft Start (A) 50 Hz | 12 | 14 | 20 | 18 | 22 | 29 | 38 | 48 |
| Current draw RMS300 with Soft Start (A) 50 Hz | 9 | 10 | 18 | 15 | 18 | 29 | 36 | 48 |
| Locked Rotor Amperage LRA (A) (comp. only) | 37 | 43 | 62 | 37 | 43 | 62 | 62 | 62 |
| Max. circuit breaker (A) | 16 | 16 | 20 | 2 x 16 | 2 x 16 | 2 x 20 | 3 x 20 | 4 x 20 |
| Chilled water connection (mm) | 25 | 25 | 25 | 25 | 25 | 25 | 32 | – |
| Chilled water connection (inch) | 1" | 1" | 1" | 1" | 1" | 1" | 1 1/4" | 1 1/4" F BST |
| Minimal chilled water flow (l/min) | 13 | 16 | 19 | 26 | 32 | 38 | 57 | 76 |
| Recommended chilled water pump | WB500 | WB500 | WB1000 | WB1000 | WB1500 | WB1500 | WB2000 | WB3500 |
| Seawater connection (mm) | 19 | 19 | 19 | 19 | 25 | 25 | 32 | – |
| Seawater connection (inch) | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" | 1 1/4" | 1 1/4" | 1 1/4" |
| Minimal seawater flow (l/min) | 14 | 17 | 21 | 28 | 34 | 42 | 63 | 84 |
| Recommended seawater pump + | WB500/ WB500G | WB500/ WB500G | WB1000 | WB1000 | WB1500/ WB1000G | WB1500/ WB2000 | WB2000/ WB2500G | WB3000G |
| Dimensions L x D x H (mm) | 390 x 290 x 355 | 440 x 330 x 360 | 440 x 330 x 395 | 590 x 410 x 500 | 590 x 410 x 500 | 590 x 410 x 550 | 850 x 430 x 550 | 860 x 640 x 600 |
| Dimensions L x D x H (inch) | 15.4 x 11.4 x 14.0 | 17.3 x 13.0 x 14.0 | 17.3 x 13.0 x 15.6 | 23.2 x 16.1 x 19.7 | 23.2 x 16.1 x 19.7 | 23.2 x 16.1 x 21.7 | 33.5 x 16.9 x 21.7 | 33.9 x 22.4 x 23.6 |
| Weight (kg) | 34 | 37 | 45 | 65 | 70 | 86 | 119 | 173 |

General note: Values in this table given for 50 Hz only. 60 Hz data available on request.

* BTU/h are based on 7 °C evaporating temperature and 38 °C condensing temperature

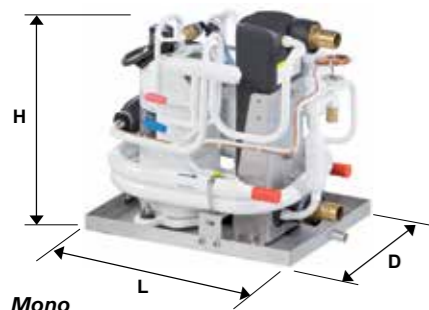
** Amperage values for core unit depend on compressor load. Max values at tropical conditions at 230 V/50 Hz

*** Starting amperage RMS (Root Mean Square) for core unit for first 300 ms

**** Starting amperage RMS (Root Mean Square) for core unit for first 40 ms

+ Recommendation only. Pump size shall be adapted to application constraints in order to always ensure minimal sea water flow.

++ BlueCool C-Series systems are tested and approved by Webasto for 50/60 Hz operation



Mono
C16 M – C27 M

BlueCool C-Series

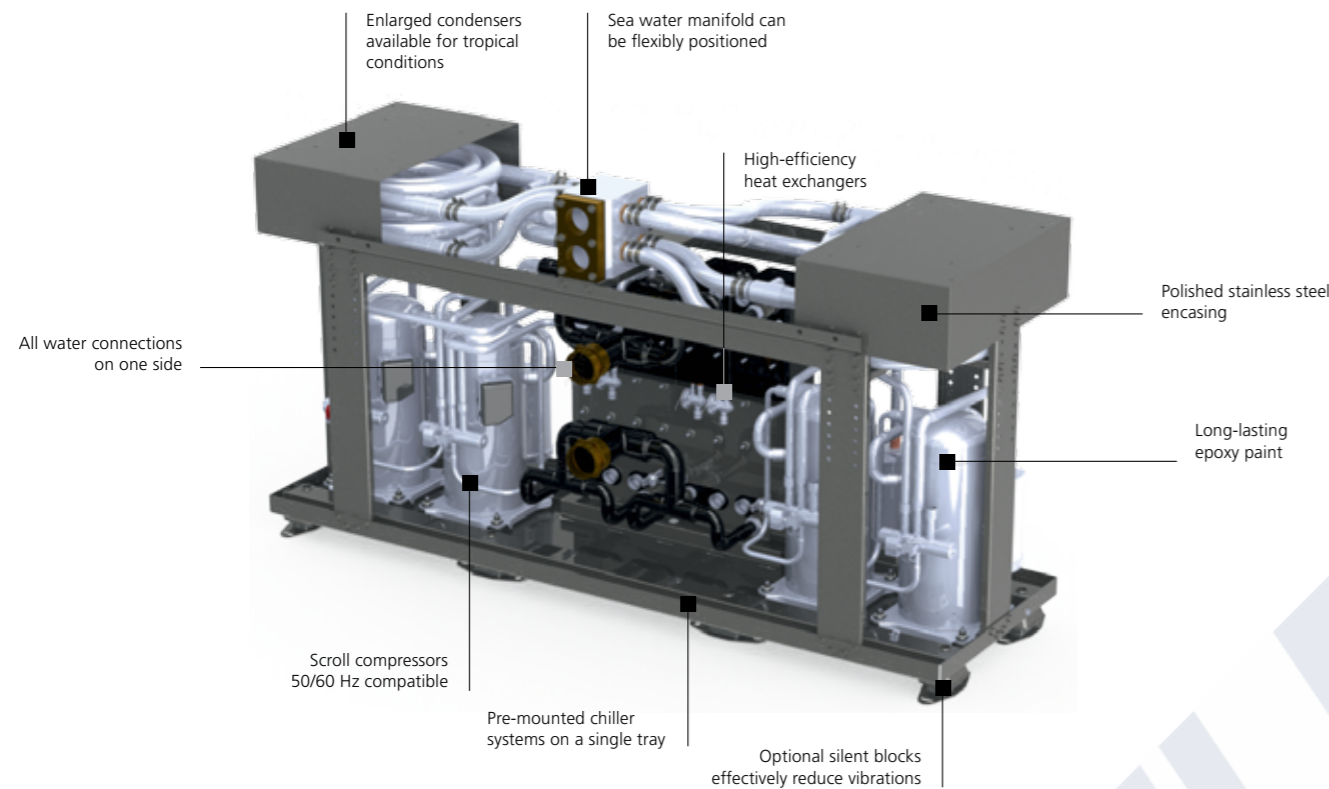


- The BlueCool C-Series:**
- Improved performance and up to 15 % higher efficiency
 - Continuous cooling capacity even in tropical conditions
 - Even more compact design
 - New improved electronics for easy installation and diagnosis via USB cable
 - Optional CAN-Bus for optimized adaptation to boat systems
 - Compressor noise is reduced by up to 25 %
 - Easy sea water and chilled water connections at one side
 - Strong stainless steel tray and condensate drain
 - High quality Epoxy paint protection
 - Vibration absorber and Silent block available as an option
 - Soft start devices available as an option

BlueCool P-Series

Professional Chiller Series

New BlueCool P-Series



The professional BlueCool P-Series:

- Professional chiller system for medium to large boats and super yachts
- Highly customizable chiller series with large range of 30,000 – 572,000 BTU/h to adapt to cooling demand
- Successor of our BlueCool Premium scroll compressor range for high reliability
- Multiple compressor units with independent cooling circuits for high availability
- Range extension with 8 new models
- Improved electronics – new electronic box with easier access to components – new PCB with increased circuit protection, now also fulfilling highest EMC standards EN 60945 – the electronic box has been slightly enlarged so that softstarts can be easily integrated into this box
- BlueCool Expert tool for service, configuration, application tuning, diagnosis and system setup comes as a standard free of charge
- Optional CAN-Bus for integration into boats central monitoring systems
- Unique Thermostatic Advance Function for power output continuously adapted to cooling demand
- Redesigned trays for easier mounting of silent blocks to reduce vibrations
- Electrical systems can be upgraded to customer needs with PRO box or fulfilling MCA requirements

BlueCool P-Series

Configuration options

Configure your chiller system in 6 main steps:

Product options for BlueCool P-Series

The BlueCool P-Series is highly customizable to the demands of shipyards and national legislation. In addition to a wide range of cooling capacities, many options can be selected to customize the chiller to your needs. For further options, please contact the sales support team at Webasto.

Option 1: Voltage

All P-Series chillers are available as 400 V / 3-phase version. On most models 208 V / 3-phase or 230 V / single phase is available as well.

Option 2: Cool only version

For regions where heating is not required some units are available as cool only version

Option 3: Tropical version

For high sea water temperatures > 32 °C, a tropical chiller version with enlarged condensers shall be selected to avoid high pressure cut-outs. Option is highly recommended whenever the boat may travel in regions where sea water temperatures may be above 32 °C.

Option 4: Soft start

In order to reduce the amperage draw at compressor start a soft start may be chosen as an option.

- Soft start devices are reducing the amperage peak at compressor start up to 53 %.
- Soft start models are available for 400 V 3-phase as well as 230 V single phase
- The peak reduction allows to better size the power generator and it frees capacities for other electrical consumers
- Light flickering is reduced
- Circuit breakers and cables sizes do not have to be oversized
- The soft starts fit into the standard electrical box if no further electrical accessories are chosen
- If the soft starts are selected during the chiller configuration process they come already installed and tested as part of the electronic box



BlueCool P-Series

Configuration options

Option 5: Electrical upgrades

In the standard configuration, the chiller comes with a standard electrical box which allows to operate the chiller. Webasto offers a wide variety of electrical options which enhance the operation and service comfort or ease the electrical installation. Some options may be required to comply with national standards or requirements coming from the boat's classification society. Depending on the amounts of options chosen the larger PRO box or even a box compliant to MCA standards will be used. Each box will be individually configured to your needs.



Standard Box Pro Box MCA Box

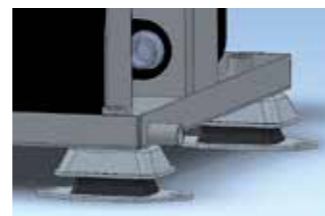
| Housing | Standard Box | Pro Box | MCA Box |
|--|---------------------------------|-------------------------------|-------------------------------|
| Material | Galvanized steel, epoxy painted | Mild steel, powder coated | Mild steel, powder coated |
| IP class | IP21 | IP66 / NEMA 4, 12, 13 / IK 10 | IP66 / NEMA 4, 12, 13 / IK 10 |
| Color | White | RAL 7035 | RAL 7035 |
| Opening/closing | Screws | Locking mechanism | Locks with removable handle |
| Components included | | | |
| Chiller electronic card | ■ | ■ | ■ |
| Relays for compressors, chilled water and sea water pump | ■ | ■ | ■ |
| Terminal block connectors | ■ | ■ | ■ |
| Compressor Soft starts | □ | □ | □ |
| Motor protective relays and circuit breakers for compressors and pumps | - | ■ | ■ |
| Circuit breaker for chiller electronic card | - | ■ | ■ |
| Only one power supply needed for entire unit | - | ■ | ■ |
| Halogen free cables | - | □ | ■ |
| Cable harness length: 2 m | ■ | ■ | ■ |
| Increased cable harness length: 5 m / 10 m / 15 m | □ | □ | □ |
| Chilled water pump: redundancy selector for two pumps | - | □ | □ |
| Sea water pump: redundancy selector for two pumps | - | □ | □ |
| Power ON lamp | - | □ | ■ |
| Pilot lamps for pumps and/or compressors | - | □ | ■ |
| Digital display integrated at the front door | - | □ | □ |
| Compressor running counter | - | □ | □ |
| Main switch | - | - | ■ |
| Emergency stop | - | - | ■ |
| Pushbutton to test pilot lamps | - | - | ■ |
| Door locking mechanism in open position | - | □ | ■ |
| Ampere gauge | - | - | □ |

■ Standard □ Optional - not available

Option 6: Silent blocks

Silent blocks may be mounted between the chiller unit and the hull of the boat to reduce structural born vibrations being transferred from the chiller unit into the boat.

- The silent blocks very effectively reduce vibrations into the hull of the boat by up to 50 %
- Silent blocks are mounted below the base plate of the A/C unit
- High performance damping elements specially designed for the vibration frequency and the weight of each unit
- Marine grade with corrosion resistant materials
- Integrated rip-off protection
- If the silent blocks are selected during the chiller configuration process they come already mounted onto the A/C unit
- Please ask for the specific height increase of your unit as the silent block type varies with the size of the units



BlueCool P-Series

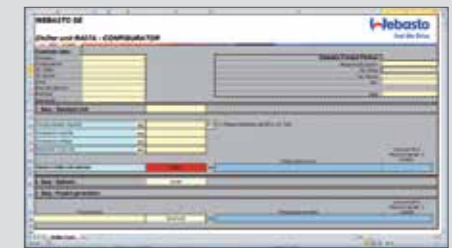
Project assistance and support

A chiller system always needs to be customized to each boat in order to meet the demands of shipyards, owners, classification societies and national legislation. We support you in this process with our expertise and the tools we have developed for this.

Specification and quotation tool

This tool should be used for all A/C projects to

- Precisely calculate the cooling and heating demand for each cabin depending on boat characteristics, performance requirements and usage conditions
- Determine the fresh air requirements of larger boats
- Select your bill of material from the entire product portfolio
- Summarize technical data of the chosen key components

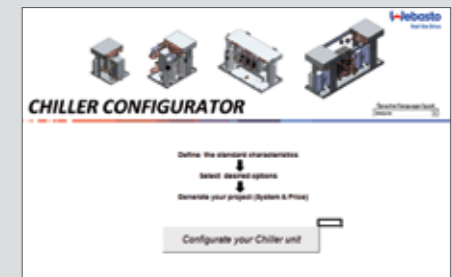


As a result the chiller and air handlers are correctly sized to the individual demand of each boat.

Chiller configurator tool

This tool is used by Webasto to

- Select the available options for a chiller unit, see Options 1, 2, 3, 6 on previous pages
- Select the available electrical options, see Options 4 and 5 on previous pages

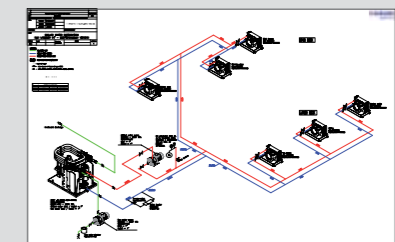


As a result your chiller and electronic box will receive an individual part number which is uniquely used for your project.

Engineering support

Our project engineers support you in various phases of a project delivering to you

- A/C system concepts
- Piping diagrams
- Electrical wiring schematics
- On-site support to understand and determine the optimal A/C configuration



Installation and commissioning support

Our project engineers can support you on demand during the installation and commissioning phase of your project with

- Technical support to answer your questions
- On-site support and audit
- Check of your installation
- Support during system commissioning



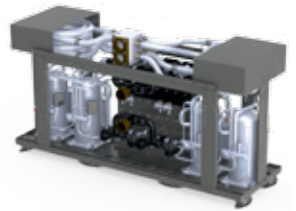
BlueCool P-Series

Product overview

| BlueCool P-Series Mono chiller | | | | | | | | | | | |
|---|---|---|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Type | P30 M | P36 M | P42 M | P48 M | P60 M | P72 M | P84 M | P96 M | P112 M | P126 M | P143 M |
| Cooling capacity* (BTU/h) | 30,000 | 36,000 | 42,000 | 48,000 | 60,000 | 72,000 | 84,000 | 96,000 | 112,000 | 126,000 | 143,000 |
| Cooling capacity* (kW) | 8.7 | 10.5 | 12.3 | 14 | 17.6 | 21.1 | 24.6 | 28.1 | 32.8 | 36.9 | 41.8 |
| Frequency (Hz)**** | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 |
| Current draw running** (A) for 230 V 1-phase | 6.8 | 8 | 9.4 | 12 | - | - | - | - | - | - | - |
| Current draw running** (A) for 400 V 3-phase | 2.9 | 3.5 | 4.1 | 5.1 | 5.9 | 6.5 | 8.4 | 10 | 11 | 12 | 13 |
| Current draw running** (A) for 208 V 3-phase | 5.0 | 6.1 | 6.9 | 8.5 | - | 13 | 24 | - | - | - | - |
| Current draw running FLA**** (A) for 230 V 1-phase | 15 | 17 | 23 | 24 | - | - | - | - | - | - | - |
| Current draw running FLA**** (A) for 400 V 3-phase | 5.1 | 5.6 | 7 | 10 | 11 | 12 | 15 | 16 | 17 | 20 | 22 |
| Current draw running FLA**** (A) for 208 V 3-phase | 10 | 11 | 14 | 19 | 25 | 27 | 25 | - | - | - | - |
| Locked Rotor Amperage LRA (A) for Single compressor 230 V 1-phase | 61 | 76 | 100 | 114 | - | - | - | - | - | - | - |
| Locked Rotor Amperage LRA (A) for Single compressor 400 V 3-phase | 32 | 40 | 46 | 50 | 59 | 74 | 101 | 95 | 111 | 118 | 118 |
| Locked Rotor Amperage LRA (A) for Single compressor 208 V 3-phase | 70 | 83 | 95 | 98 | 139 | 172 | 179 | - | - | - | - |
| Min. chilled water flow (l/min) | 25 | 30 | 33 | 38 | 50 | 60 | 66 | 76 | 88 | 104 | 117 |
| Min. seawater flow (l/min) | 19 | 22 | 27 | 30 | 38 | 46 | 56 | 64 | 68 | 82 | 93 |
| Recommended seawater pump+ | WB1000 | WB1000 | WB1000 WB1500 | WB1000 WB1500 | WB1500 | WB2500G WB3000G | WB2500G WB3000G | WB2500G WB3000G | WB3000G WB3500 | WB3000G WB3500 | WB3000G WB3500 |
| Weight (kg) | 55 | 66 | 68 | 70 | 75 | 80 | 85 | 90 | 100 | 110 | 125 |
| Available options | | | | | | | | | | | |
| 230 V / 1-phase | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | - | - | - | - | - | - | - |
| 208 V / 3-phase | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | - | - | - | - |
| Reverse Cycle | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Cool Only version | - | - | - | - | - | - | - | - | - | - | - |
| Tropicalized version | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Soft Start 400 V / 230 V / 208 V | <input type="checkbox"/> / <input type="checkbox"/> / - | <input type="checkbox"/> / <input type="checkbox"/> / - | <input type="checkbox"/> / <input type="checkbox"/> / - | <input type="checkbox"/> / - / - | <input type="checkbox"/> / - / - | <input type="checkbox"/> / - / - | <input type="checkbox"/> / - / - | <input type="checkbox"/> / - / - | <input type="checkbox"/> / - / - | <input type="checkbox"/> / - / - | <input type="checkbox"/> / - / - |
| Upgrade box / MCA Box | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Silent Block | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

General note: Values in this table given for 50 Hz only. 60 Hz data available on request.
 * BTU/h are based on 7 °C evaporating temperature and 38 °C condensing temperature
 ** Amperage values for core unit at nominal conditions at 50 Hz
 **** FLA (Full Load Amperage) is the current draw at maximum conditions

+ Recommendation only. Pump size shall be adapted to application constraints in order to always ensure minimal sea water flow.
 ++ BlueCool P-Series systems are tested and approved by Webasto for 50/60 Hz operation.
 ■ Standard □ Option - not available



BlueCool P-Series

Product overview

| BlueCool P-Series Twin chiller | | | | | |
|---|---|---|---|-------------------------------------|-------------------------------------|
| Type | P60 T | P72 T | P84 T | P96 T | P120 T |
| Cooling capacity* (BTU/h) | 60,000 | 72,000 | 84,000 | 96,000 | 120,000 |
| Cooling capacity* (kW) | 17.6 | 21.1 | 24.6 | 28.1 | 35.2 |
| Frequency (Hz) | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 |
| Current draw running** (A) for 230 V 1-phase | 14 | 16 | 19 | 25 | - |
| Current draw running** (A) for 400 V 3-phase | 5.8 | 7.1 | 8.1 | 10 | 12 |
| Current draw running** (A) for 208 V 3-phase | 10 | 12 | 14 | 17 | 33 |
| Current draw running FLA**** (A) for 230 V 1-phase | 30 | 35 | 46 | 47 | - |
| Current draw running FLA**** (A) for 400 V 3-phase | 10 | 11 | 14 | 20 | 22 |
| Current draw running FLA**** (A) for 208 V 3-phase | 20 | 22 | 27 | 37 | 50 |
| Locked Rotor Amperage LRA (A) for Single compressor 230 V 1-phase | 61 | 76 | 100 | 114 | - |
| Locked Rotor Amperage LRA (A) for Single compressor 400 V 3-phase | 32 | 40 | 46 | 50 | 59 |
| Locked Rotor Amperage LRA (A) for Single compressor 208 V 3-phase | 70 | 83 | 95 | 98 | 139 |
| Min. chilled water flow [l/min] | 50 | 60 | 66 | 76 | 100 |
| Min. seawater flow (l/min) | 38 | 46 | 56 | 64 | 80 |
| Recommended seawater pump+ | WB1500 WB2000 | WB2500G WB3000G | WB2500G WB3000G | WB2500G WB3000G | WB3000G WB3500 |
| Weight [kg] | 90 | 95 | 100 | 130 | 160 |
| Available options | | | | | |
| 230 V / 1-phase | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | - |
| 208 V / 3-phase | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Reverse Cycle | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Cool Only version | - | - | - | - | - |
| Tropicalized version | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Soft Start 400 V / 230 V / 208 V | <input type="checkbox"/> / <input type="checkbox"/> / - | <input type="checkbox"/> / <input type="checkbox"/> / - | <input type="checkbox"/> / <input type="checkbox"/> / - | <input type="checkbox"/> / - / - | <input type="checkbox"/> / - / - |
| Upgrade box / MCA Box | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Silent Block | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

General note: Values in this table given for 50 Hz only. 60 Hz data available on request.
 * BTU/h are based on 7 °C evaporating temperature and 38 °C condensing temperature
 ** Amperage values for core unit at nominal conditions at 50 Hz
 **** FLA (Full Load Amperage) is the current draw at maximum conditions

+ Recommendation only. Pump size shall be adapted to application constraints in order to always ensure minimal sea water flow.
 ++ BlueCool P-Series systems are tested and approved by Webasto for 50/60 Hz operation.
 ■ Standard □ Option - not available

The BlueCool P-Series:

- Wide product range for medium and large size boats
- Scroll compressors for heavy duty applications
- Low starting surge through staged compressor starts
- 208 V, 230 V and 400 V systems available
- Many customization options with different electronics, tropical versions, vibration damping and many other features
- Fully independent refrigerant circuits in multiple compressor units provide high system availability
- Power output continuously adapted to cooling demand
- Very robust stainless steel design for heavy duty use

BlueCool P-Series

Product overview

| Type | P126 R | P144 R | P180 R | P216 R | P252 R |
|---|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Cooling capacity* (BTU/h) | 126,000 | 144,000 | 180,000 | 216,000 | 252,000 |
| Cooling capacity* (kW) | 37 | 42.2 | 52.8 | 63.3 | 73.8 |
| Frequency (Hz) | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 |
| Current draw running** (A) for 230 V 1-phase | 28 | 37 | - | - | - |
| Current draw running** (A) for 400 V 3-phase | 12 | 15 | 18 | 20 | 25 |
| Current draw running** (A) for 208 V 3-phase | 21 | 26 | 50 | 38 | 72 |
| Current draw running FLA **** (A) for 230 V 1-phase | 69 | 71 | - | - | - |
| Current draw running FLA **** (A) for 400 V 3-phase | 21 | 30 | 33 | 36.3 | 45 |
| Current draw running FLA **** (A) for 208 V 3-phase | 40 | 56 | 75 | 81 | 76 |
| Locked Rotor Amperage LRA (A) for Single compressor 230 V 1-phase | 100 | 114 | - | - | - |
| Locked Rotor Amperage LRA (A) for Single compressor 400 V 3-phase | 46 | 50 | 59 | 74 | 101 |
| Locked Rotor Amperage LRA (A) for Single compressor 208 V 3-phase | 95 | 98 | 139 | 172 | 179 |
| Min. chilled water flow (l/min) | 104 | 115 | 138 | 158 | 180 |
| Min. seawater flow (l/min) | 82 | 92 | 106 | 125 | 145 |
| Recommended seawater pump+ | WB3000G WB3500 | WB3000G WB3500 | WB5500 | WB5500 | WB5500 |
| Weight (kg) | 180 | 190 | 210 | 250 | 260 |
| Available options | | | | | |
| 230 V / 1-phase | <input type="checkbox"/> | <input type="checkbox"/> | - | - | - |
| 208 V / 3-phase | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Reverse Cycle | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Cool Only version | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Tropicalized version | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Soft Start 400 V / 230 V / 208 V | <input type="checkbox"/> / <input type="checkbox"/> / - | <input type="checkbox"/> / - / - | <input type="checkbox"/> / - / - | <input type="checkbox"/> / - / - | <input type="checkbox"/> / - / - |
| Upgrade box / MCA Box | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Silent Block | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

General note: Values in this table given for 50 Hz only. 60 Hz data available on request.
 * BTU/h are based on 7 °C evaporating temperature and 38 °C condensing temperature
 ** Amperage values for core unit at nominal conditions at 50 Hz
 **** FLA (Full Load Amperage) is the current draw at maximum conditions

+ Recommendation only. Pump size shall be adapted to application constraints in order to always ensure minimal sea water flow.
 ++ BlueCool P-Series systems are tested and approved by Webasto for 50/60 Hz operation.
 ■ Standard □ Option - not available

BlueCool P-Series

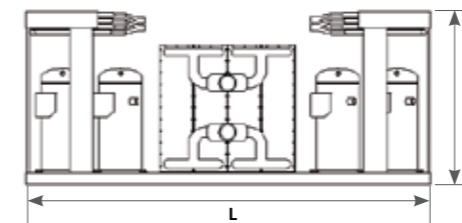
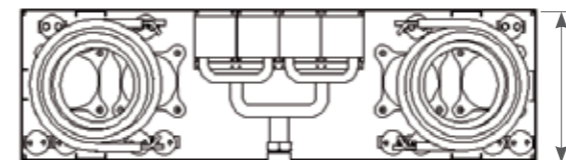
Product overview

Webasto engineers can quote custom manufactured chiller systems upon request. Please contact us for a tailored solution to fit your individual needs.

| Type | P120 Q | P144 Q | P168 Q | P192 Q | P240 Q | P288 Q | P336 Q | P384 Q | P448 Q | P504 Q | P572 Q |
|---|---|---|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Cooling capacity* (BTU/h) | 120,000 | 144,000 | 168,000 | 192,000 | 240,000 | 288,000 | 336,000 | 384,000 | 448,000 | 504,000 | 572,000 |
| Cooling capacity* (kW) | 35 | 42.2 | 49.2 | 56.2 | 70 | 85 | 99 | 112 | 132 | 148 | 168 |
| Frequency (Hz) | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 |
| Current draw running** (A) for 230 V 1-phase | 27 | 32 | 38 | 49 | - | - | - | - | - | - | - |
| Current draw running** (A) for 400 V 3-phase | 12 | 14 | 16 | 21 | 23 | 26 | 34 | 40 | 43 | 49 | 53 |
| Current draw running** (A) for 208 V 3-phase | 20 | 24 | 28 | 34 | 66 | 51 | 95 | - | - | - | - |
| Current draw running FLA **** (A) for 230 V 1-phase | 59 | 69 | 92 | 94 | - | - | - | - | - | - | - |
| Current draw running FLA **** (A) for 400 V 3-phase | 20 | 22 | 28 | 40 | 44 | 48 | 60 | 64 | 67 | 78 | 89 |
| Current draw running FLA **** (A) for 208 V 3-phase | 41 | 44 | 54 | 74 | 100 | 108 | 100 | - | - | - | - |
| Locked Rotor Amperage LRA (A) for Single compressor 230 V 1-phase | 61 | 76 | 100 | 114 | - | - | - | - | - | - | - |
| Locked Rotor Amperage LRA (A) for Single compressor 400 V 3-phase | 32 | 40 | 46 | 50 | 59 | 74 | 101 | 95 | 111 | 118 | 118 |
| Locked Rotor Amperage LRA (A) for Single compressor 208 V 3-phase | 70 | 83 | 95 | 98 | 139 | 172 | 179 | - | - | - | - |
| Min. chilled water flow (l/min) | 100 | 115 | 132 | 161 | 175 | 220 | 245 | 275 | 310 | 360 | 420 |
| Min. seawater flow (l/min) | 80 | 92 | 100 | 115 | 140 | 162 | 180 | 200 | 240 | 270 | 325 |
| Recommended seawater pump+ | WB3000G WB3500 | WB5500 | WB55500 | WB5501 | WB5500 | WB5500 WB7400 | WB5500 WB7400 | WB7400 | WB7400 WB9800 | WB7400 WB9800 | WB7400 WB9800 |
| Weight (kg) | 190 | 210 | 230 | 255 | 270 | 350 | 350 | 450 | 670 | 670 | 725 |
| Available options | | | | | | | | | | | |
| 230 V / 1-phase | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | - | - | - | - | - | - | - |
| 208 V / 3-phase | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | - | - | - | - |
| Reverse Cycle | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Cool Only version | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | - | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Tropicalized version | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Soft Start 400 V / 230 V / 208 V | <input type="checkbox"/> / <input type="checkbox"/> / - | <input type="checkbox"/> / <input type="checkbox"/> / - | <input type="checkbox"/> / <input type="checkbox"/> / - | <input type="checkbox"/> / - / - | <input type="checkbox"/> / - / - | <input type="checkbox"/> / - / - | <input type="checkbox"/> / - / - | <input type="checkbox"/> / - / - | <input type="checkbox"/> / - / - | <input type="checkbox"/> / - / - | <input type="checkbox"/> / - / - |
| Upgrade box / MCA Box | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Silent Block | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

General note: Values in this table given for 50 Hz only. 60 Hz data available on request.
 * BTU/h are based on 7 °C evaporating temperature and 38 °C condensing temperature
 ** Amperage values for core unit at nominal conditions at 50 Hz
 **** FLA (Full Load Amperage) is the current draw at maximum conditions

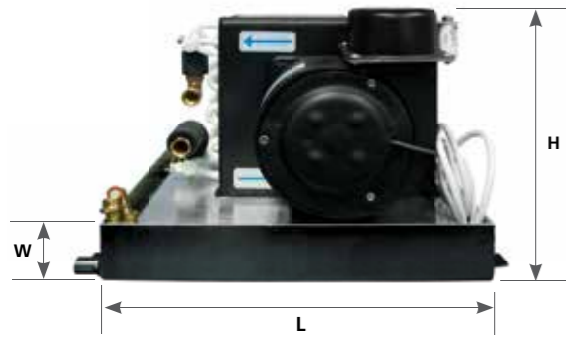
+ Recommendation only. Pump size shall be adapted to application constraints in order to always ensure minimal sea water flow.
 ++ BlueCool P-Series systems are tested and approved by Webasto for 50/60 Hz operation.
 ■ Standard □ Option - not available



Accessories for cooling systems

| | |
|--|-----|
| Air handlers | 104 |
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Air handlers



All air handlers have insulated condensation trays!

Compact air handlers

| Model | Air flow | Amp draw (Running Watts) | Ø Hose ring | Net weight | Ø Chilled water hose | Performance | Dimensions H x L x W | Order number 230 V |
|---------|-----------------------------|--------------------------|----------------------------|---------------------|----------------------|------------------------|---|--------------------|
| AH-CO05 | 275 m³/h 165 cfm | 0.35 (80) | 100 mm 3.9 inch | 5 kg 11 lbs | 16 mm | 4,500 BTU/h 1.3 kW | 265 x 340 x 260 mm 10.4 x 13.4 x 10.2 inch | WBCL000744XX0B |
| AH-CO06 | 275 m³/h 165 cfm | 0.35 (80) | 100 mm 3.9 inch | 7.5 kg 16.5 lbs | 16 mm | 6,000 BTU/h 1.7 kW | 291 x 444 x 259 mm 11.5 x 17.5 x 10.2 inch | WBCL000745XX0B |
| AH-CO09 | 430 m³/h 253 cfm | 0.57 (130) | 100 mm 3.9 inch | 9 kg 20 lbs | 16 mm | 9,000 BTU/h 2.6 kW | 334 x 484 x 289 mm 13.1 x 19.1 x 11.4 inch | WBCL000746XX0B |
| AH-CO12 | 500 m³/h 300 cfm | 0.65 (150) | 125 mm 4.9 inch | 9.5 kg 21 lbs | 16 mm | 12,000 BTU/h 3.5 kW | 353 x 484 x 289 mm 13.9 x 19.1 x 11.4 inch | WBCL000747XX0B |
| AH-CO16 | 625 m³/h 368 cfm | 0.87 (200) | 125 mm 4.9 inch | 12.5 kg 27.5 lbs | 16 mm | 16,000 BTU/h 4.6 kW | 368 x 559 x 289 mm 14.5 x 22.0 x 11.4 inch | WBCL000748XX0B |
| AH-CO20 | 625 m³/h 368 cfm | 0.87 (200) | 125 mm 4.9 inch | 14 kg 31 lbs | 20 mm | 20,000 BTU/h 5.6 kW | 403 x 559 x 289 mm 15.9 x 22.0 x 11.4 inch | WBCL000790XX0B |
| AH-CO24 | 2 x 500 m³/h 2 x 300 cfm | 1.3 (300) | 2 x 125 mm 2 x 4.9 inch | 25 kg 55 lb | 20 mm | 24,000 BTU/h 7 kW | 403 x 621 x 289 mm 15.9 x 24.4 x 11.4 inch | WBCL000329XX0B |
| AH-CO30 | 2 x 550 m³/h 2 x 324 cfm | 1.7 (400) | 2 x 125 mm 2 x 4.9 inch | 24 kg 53 lb | 20 mm | 30,000 BTU/h 8.8 kW | 403 x 707 x 289 mm 15.9 x 27.8 x 11.4 inch | WBCL000330XX0B |
| AH-CO48 | 2 x 900 m³/h 2 x 530 cfm | 2.7 (620) | 2 x 125 mm 2 x 4.9 inch | 40 kg 88 lbs | 20 mm | 48,000 BTU/h 14 kW | 489 x 974 x 389 mm 19.3 x 38.3 x 15.3 inch | WBCL000789XX0B |

Note: All Webasto air handlers are optionally available with electric heating elements for superior heating performance independent from chiller unit.

Electric heating capacities are

| Cooling capacity | Electric heating capacity |
|-----------------------|---------------------------|
| 4,000 – 6,000 BTU/h | 500 W |
| 9,000 – 12,000 BTU/h | 1,000 W |
| 16,000 – 20,000 BTU/h | 1,500 W |
| 24,000 – 30,000 BTU/h | 2,250 W |
| 48,000 BTU/h | 4,000 W |

BlueCool Air Handlers:

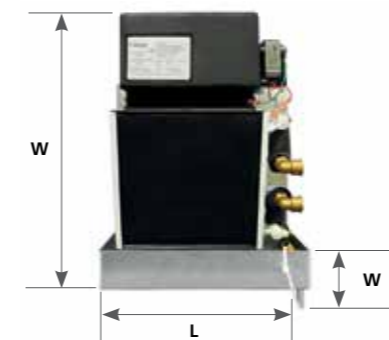
- Optional CAN-Bus for optimized adaptation to boat systems
- Electric heating elements optional for superior heating performance independent from chiller unit
- Further noise reduction can be obtained by using our new extra-silent air ducting
- The Electronic Silencer is available as an option and further reduces the humming noise at low blower speeds

Air handlers



Cross flow air handlers / H

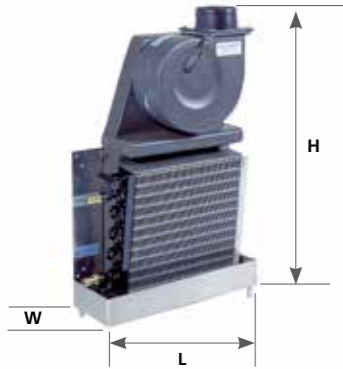
| Model | Air flow | Amp draw (Running Watts) | Air output | | Net weight | Ø Chilled water hose | Performance | Dimensions H x L x W | Order number 230 V |
|---------|---------------------|--------------------------|-------------------|---------------------|------------------|----------------------|------------------------|--|--------------------|
| | | | height | length | | | | | |
| AH-TH04 | 150 m³/h 88 cfm | 0.13 (30) | 40 mm 1.6 inch | 180 mm 7.1 inch | 5 kg 11 lbs | 16 mm | 4,000 BTU/h 1.1 kW | 176 x 441 x 343 mm 6.9 x 17.4 x 13.5 inch | WBCL000750XX0B |
| AH-TH06 | 190 m³/h 112 cfm | 0.17 (40) | 40 mm 1.6 inch | 240 mm 9.4 inch | 7 kg 15.5 lbs | 16 mm | 6,000 BTU/h 1.7 kW | 176 x 441 x 393 mm 6.9 x 17.4 x 15.5 inch | WBCL000752XX0B |
| AH-TH09 | 250 m³/h 147 cfm | 0.2 (46) | 40 mm 1.6 inch | 302 mm 11.9 inch | 8 kg 18 lbs | 16 mm | 9,000 BTU/h 2.6 kW | 176 x 467 x 442 mm 6.9 x 18.4 x 17.4 inch | WBCL000753XX0B |
| AH-TH12 | 250 m³/h 147 cfm | 0.2 (46) | 40 mm 1.6 inch | 302 mm 11.9 inch | 9 kg 20 lbs | 16 mm | 12,000 BTU/h 3.5 kW | 176 x 518 x 442 mm 6.9 x 20.4 x 17.4 inch | WBCL000765XX0B |



Cross flow air handlers / V

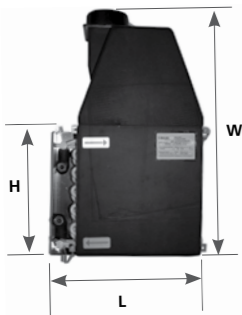
| Model | Air flow | Amp draw (Running Watts) | Air output | | Net weight | Ø Chilled water hose | Performance | Dimensions H x L x W | Order number 230 V |
|---------|---------------------|--------------------------|---------------------|-------------------|------------------|----------------------|------------------------|--|--------------------|
| | | | height | length | | | | | |
| AH-TV04 | 150 m³/h 88 cfm | 0.13 (30) | 180 mm 7.1 inch | 40 mm 1.6 inch | 5 kg 11 lbs | 16 mm | 4,000 BTU/h 1.1 kW | 472 x 355 x 157 mm 18.6 x 14.0 x 6.2 inch | WBCL000760XX0B |
| AH-TV06 | 190 m³/h 112 cfm | 0.17 (40) | 240 mm 9.4 inch | 40 mm 1.6 inch | 7 kg 16.5 lbs | 16 mm | 6,000 BTU/h 1.7 kW | 492 x 405 x 162 mm 19.4 x 15.9 x 6.4 inch | WBCL000762XX0B |
| AH-TV09 | 250 m³/h 147 cfm | 0.2 (46) | 302 mm 11.9 inch | 40 mm 1.6 inch | 8.5 kg 19 lbs | 16 mm | 9,000 BTU/h 2.6 kW | 502 x 456 x 157 mm 19.8 x 18.0 x 6.2 inch | WBCL000763XX0B |
| AH-TV12 | 250 m³/h 147 cfm | 0.2 (46) | 302 mm 11.9 inch | 40 mm 1.6 inch | 9.5 kg 21 lbs | 16 mm | 12,000 BTU/h 3.5 kW | 553 x 456 x 163 mm 21.8 x 18.0 x 6.4 inch | WBCL000766XX0B |

Air handlers



SlimLine / V air handlers

| Model | Air flow | Amp draw (Running Watts) | Ø Hose ring | Net weight | Ø Chilled water hose | Performance | Dimensions H x L x W | Order number 230 V |
|---------|-----------------------------|--------------------------|----------------------------|--------------------|----------------------|------------------------|--|--------------------|
| AH-SV05 | 275 m³/h 165 cfm | 0.35 (80) | 100 mm 3.9 inch | 6.5 kg 14.5 lbs | 16 mm | 4,500 BTU/h 1.3 kW | 619 x 355 x 157 mm 24.4 x 14.0 x 6.2 inch | WBCL000740XX0B |
| AH-SV06 | 275 m³/h 165 cfm | 0.35 (80) | 100 mm 3.9 inch | 8 kg 18 lbs | 16 mm | 6,000 BTU/h 1.7 kW | 639 x 405 x 162 mm 25.2 x 15.9 x 6.4 inch | WBCL000741XX0B |
| AH-SV09 | 430 m³/h 253 cfm | 0.57 (130) | 100 mm 3.9 inch | 10 kg 22 lbs | 16 mm | 9,000 BTU/h 2.6 kW | 704 x 456 x 172 mm 27.7 x 18.0 x 6.8 inch | WBCL000742XX0B |
| AH-SV12 | 500 m³/h 300 cfm | 0.65 (150) | 125 mm 4.9 inch | 11 kg 24.5 lbs | 16 mm | 12,000 BTU/h 3.5 kW | 755 x 456 x 172 mm 29.7 x 18.0 x 6.8 inch | WBCL000743XX0B |
| AH-SV16 | 625 m³/h 368 cfm | 0.87 (200) | 125 mm 4.9 inch | 15 kg 33 lbs | 16 mm | 16,000 BTU/h 4.6 kW | 776 x 524 x 218 mm 30.6 x 20.6 x 8.6 inch | WBCL000791XX0B |
| AH-SV20 | 625 m³/h 368 cfm | 0.87 (200) | 125 mm 4.9 inch | 16 kg 35.5 lbs | 20 mm | 20,000 BTU/h 5.6 kW | 823 x 534 x 218 mm 32.4 x 21.0 x 8.6 inch | WBCL000792XX0B |
| AH-SV24 | 2 x 500 m³/h 2 x 300 cfm | 1.3 (300) | 2 x 125 mm 2 x 4.9 inch | 30 kg 66 lbs | 20 mm | 24,000 BTU/h 7 kW | 788 x 579 x 227 mm 31.0 x 22.8 x 8.9 inch | WBCL000793XX0B |



SlimLine / H air handlers

| Model | Air flow | Amp draw (Running Watts) | Ø Hose ring | Net weight | Ø Chilled water hose | Performance | Dimensions H x L x W | Order number 230 V |
|---------|-----------------------------|--------------------------|----------------------------|-------------------|----------------------|------------------------|---|--------------------|
| AH-SH05 | 275 m³/h 165 cfm | 0.35 (80) | 100 mm 3.9 inch | 7 kg 15.5 lbs | 16 mm | 4,500 BTU/h 1.3 kW | 175 x 343 x 588 mm 6.9 x 13.5 x 23.1 inch | WBCL000950XX0B |
| AH-SH06 | 275 m³/h 165 cfm | 0.35 (80) | 100 mm 3.9 inch | 8 kg 18 lbs | 16 mm | 6,000 BTU/h 1.7 kW | 175 x 393 x 588 mm 6.9 x 15.5 x 23.1 inch | WBCL000951XX0B |
| AH-SH09 | 430 m³/h 253 cfm | 0.57 (130) | 100 mm 3.9 inch | 10 kg 22 lbs | 16 mm | 9,000 BTU/h 2.6 kW | 175 x 442 x 669 mm 6.9 x 17.4 x 26.3 inch | WBCL000952XX0B |
| AH-SH12 | 500 m³/h 300 cfm | 0.65 (150) | 125 mm 4.9 inch | 11 kg 24.5 lbs | 16 mm | 12,000 BTU/h 3.5 kW | 175 x 442 x 720 mm 6.9 x 17.4 x 28.3 inch | WBCL000953XX0B |
| AH-SH16 | 625 m³/h 368 cfm | 0.87 (200) | 125 mm 4.9 inch | 15 kg 33 lbs | 16 mm | 16,000 BTU/h 4.6 kW | 242 x 507 x 756 mm 9.5 x 20.0 x 29.8 inch | WBCL000954XX0B |
| AH-SH20 | 625 m³/h 368 cfm | 0.87 (200) | 125 mm 4.9 inch | 16 kg 35.5 lbs | 20 mm | 20,000 BTU/h 5.6 kW | 242 x 520 x 811 mm 9.5 x 20.5 x 31.9 inch | WBCL000955XX0B |
| AH-SH24 | 2 x 500 m³/h 2 x 300 cfm | 1.3 (300) | 2 x 125 mm 2 x 4.9 inch | 30 kg 66 lbs | 20 mm | 24,000 BTU/h 7 kW | 254 x 565 x 775 mm 10.0 x 22.2 x 30.5 inch | WBCL000956XX0B |

Air handlers

Air handlers accessories

The electronic silencer

- Significant reduction of blower noise, making the air handler more silent than a whisper
- Works with all our air handler models due to a simple integration into the power supply
- Easy to install and retrofit as an upgrade
- Allows fine-tuning of installed applications where necessary
- Further noise reduction can be obtained by using our new extra-silent air ducting



SEE PAGE 121

Additional components

| Description | Order number |
|--|--------------|
| (1) Remote bleeder kit Adaptor kit for easy bleeding of the air handler | WBCL010125E |
| (2) Electronic silencer: to be mounted afterwards for significant reduction of noise impact suitable for 4.5 to 6,000 BTU/h | WBCL010160C |
| (2) Electronic silencer to be mounted afterwards for significant reduction of noise impact suitable for 9 to 12,000 BTU/h | WBCL010161C |
| (2) Electronic silencer to be mounted afterwards for significant reduction of noise impact suitable for 16 to 24,000 BTU/h | WBCL010162C |



Antisplash option

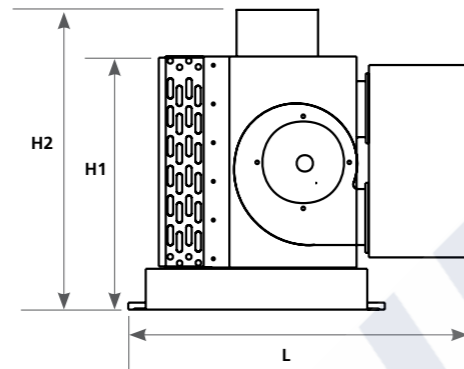
Webasto offers the widest range of air handlers with plenty of options. For clear identification when ordering, please use the following codification: **WBCL000752 X X X B**

| | | |
|---|--|--|
| <p>Identifies 3-way valve option</p> <p>0 = without valve 1 = with valve</p> <p>Example: WBCL000752000 = standard unit</p> <p>WBCL000752100 = unit with 3-way valve mounted</p> | <p>Identifies electric heating option</p> <p>0 = without heating 1 = with heating</p> <p>Example: WBCL000752010 = unit equipped with electric heating element</p> <p>WBCL000752110 = unit equipped with 3-way valve and electric heating element</p> | <p>Identifies Antisplash option and blower position option for Cross Flow models</p> <p>0 = without Antisplash and standard blower position 1 = without Antisplash and lateral blower position 2 = with Antisplash and standard blower position 3 = with Antisplash and lateral blower position</p> <p>Example: WBCL000762001 = unit without Antisplash but with lateral blower position</p> <p>WBCL000762113 = unit equipped with 3-way valve, electric heating element, antisplash and lateral blower position</p> |
|---|--|--|

Fresh air and air extraction units

Features and functioning principles

- Regulate fresh-air entry into the vessel by temperature differential outside/inside and combined air extraction control
- Basic regulation by adjustable temperature differential outside/inside with programmable extreme limits and short cycle limits
- 2-stage integrated reheat (AC electrical) provided
- Electronic controller provides two separate blower outlets: one for fresh-air input and one for extraction air out. Different speed settings possible for both outlets. All speed settings including the maximum speed completely re-programmable. A manual control for the speed is possible
- Special flow regulators allow easy and precise balancing of outputs per volume
- Integrated Solenoid 3-way valve control
- Special start-up procedure to eliminate residual moisture in system
- Three temperature read-outs:
 - Outside air temperature
 - Chilled water circuit temperature
 - Treated air input temperature
- Air flow regulators to be specified according to application



Fresh air unit

| Model | Performance | Air flow | Electronic heating capacity | Length L | Height H1 | Height H2 | Depth D | Weight | Order number |
|------------------|-----------------------|-------------------------|-----------------------------|---------------------|---------------------|---------------------|----------------------|------------------|--------------|
| Fresh Air 24 | 24,000 BTU/h 7 kW | 900 m³/h 530 cfm | 2 x 1,000 W | 700 mm 27.6 inch | 430 mm 16.9 inch | 540 mm 21.3 inch | 585 mm 23 inch | 35 kg 77 lbs | WBCL005241B |
| Fresh Air 24 SP | 24,000 BTU/h 7 kW | 1,800 m³/h 1,060 cfm | 2 x 1,000 W | 700 mm 27.6 inch | 430 mm 16.9 inch | 540 mm 21.3 inch | 585 mm 23 inch | 35 kg 77 lbs | WBCL005242B |
| Fresh Air 48 | 48,000 BTU/h 14 kW | 1,800 m³/h 1,060 cfm | 4 x 1,000 W | 850 mm 33.5 inch | 512 mm 20.2 inch | 565 mm 22.2 inch | 925 mm 36.41 inch | 45 kg 100 lbs | WBCL005240B |
| Fresh Air 2 x 24 | 48,000 BTU/h 14 kW | 1,800 m³/h 1,060 cfm | 2 x 1,000 W | 940 mm 37 inch | 490 mm 19.3 inch | 570 mm 22.4 inch | 620 mm 24.4 inch | 48 kg 106 lbs | WBCL000218B |

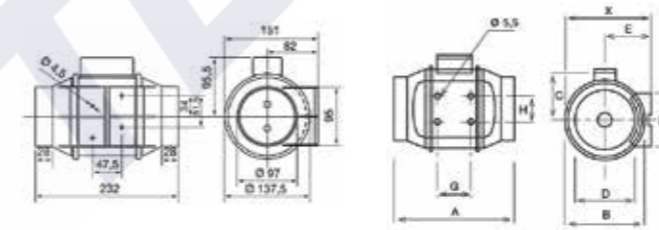
Air extraction unit

| Model | Performance | Air flow | Electronic heating capacity | Length L | Height H1 | Height H2 | Depth D | Weight | Order number |
|--------------|-------------|-------------------------|-----------------------------|---------------------|---------------------|-----------|---------------------|-----------------|--------------|
| Extract 900 | - | 900 m³/h 530 cfm | - | 515 mm 20.3 inch | 435 mm 17.1 inch | - | 585 mm 23 inch | 18 kg 40 lbs | WBCL000216 |
| Extract 1800 | - | 1,800 m³/h 1,060 cfm | - | 515 mm 20.3 inch | 435 mm 17.1 inch | - | 615 mm 24.2 inch | 21 kg 46 lbs | WBCL000219 |

Blower modules and air flow regulators

Inline blower modules

- Provide fresh air to or extract air from the cabins
- Special fan design provides a high air flow at low noise
- Low electrical power consumption
- Removable engine body allows easy maintenance
- Speed controllable motor, two speed, Class B, IP44



Model 160

Model 250 & 350

| Model | X | A | Ø B | C | Ø D | E | F | G | H |
|-------|-----|-----|-----|-----|-----|-----|----|----|----|
| 250 | 188 | 303 | 176 | 115 | 97 | 100 | 90 | 80 | 60 |
| 350 | 188 | 258 | 176 | 115 | 123 | 100 | 90 | 80 | 60 |

| Model | Speed level | Speed (r.p.m.) | Electrical power consumption | Air flow at free discharge | Maximum operating temperature | Sound pressure level* (dB(A)) | Power supply | Ø Duct | Weight | Order number |
|-----------------------------|-------------|----------------|------------------------------|----------------------------|-------------------------------|-------------------------------|-----------------|------------------|-------------------|--------------|
| Inline extractor blower 160 | II | 2,500 | 20 W | 180 m³/h, 106 cfm | 40 | 24 | ~230 V 50 Hz | 100 mm 4 inch | 1.4 kg 3.1 lbs | WBCL010152A |
| | I | 2,200 | 12 W | 140 m³/h, 82 cfm | 40 | 21 | | | | |
| Inline extractor blower 250 | II | 2,200 | 24 W | 240 m³/h, 141 cfm | 40 | 31 | ~230 V 50 Hz | 100 mm 4 inch | 2.0 kg 4.4 lbs | WBCL010157A |
| | I | 1,850 | 18 W | 180 m³/h, 106 cfm | 40 | 26 | | | | |
| Inline extractor blower 350 | II | 2,250 | 30 W | 360 m³/h, 212 cfm | 40 | 33 | ~230 V 50 Hz | 125 mm 5 inch | 2.0 kg 4.4 lbs | WBCL010158A |
| | I | 1,900 | 22 W | 280 m³/h, 165 cfm | 40 | 28 | | | | |
| Inline extractor blower 500 | II | 2,500 | 50 W | 580 m³/h, 341 cfm | 60 | 33 | ~230 V 50 Hz | 150 mm 6 inch | 2.7 kg 5.9 lbs | WBCL010229A |
| | I | 1,900 | 44 W | 430 m³/h, 253 cfm | 60 | 29 | | | | |

* Sound pressure level radiated at 3 meters at free air conditions with rigid ducts at the inlet and at the outlet

Air flow regulators

- Independent regulation of desired fresh-/extract air flow
- Eliminates the influence of alternating back pressure, caused by e.g. blocked air filters
- Continuous air flow ensures high comfort inside the cabin
- No electrical or pneumatic wiring
- Direct insertion into the air duct, which allows an easy application



| Model | Ø D of ducting | Air flow limit | Order number |
|------------------------|-----------------|--------------------|--------------|
| Air Flow Regulator 15 | 80 mm, 3.1 inch | 15 m³/h, 8.5 cfm | WBCL005243 |
| Air Flow Regulator 30 | 80 mm, 3.1 inch | 30 m³/h, 17.5 cfm | WBCL005244 |
| Air Flow Regulator 45 | 80 mm, 3.1 inch | 45 m³/h, 26.5 cfm | WBCL005245 |
| Air Flow Regulator 60 | 80 mm, 3.1 inch | 60 m³/h, 35 cfm | WBCL005246 |
| Air Flow Regulator 90 | 100 mm, 4 inch | 90 m³/h, 53 cfm | WBCL005247 |
| Air Flow Regulator 120 | 125 mm, 5 inch | 120 m³/h, 70.5 cfm | WBCL005248 |
| Air Flow Regulator 160 | 125 mm, 5 inch | 160 m³/h, 94 cfm | WBCL005249 |

Accessories for S-, V- and C- Series



- Reduction of electrical starting peak up to 70 %
- For all BlueCool single-phase compressors
- Fully 50/60 Hz compatible for worldwide application
- Self-adjusting software adapts to compressor type and frequency input
- Monitors supply voltage and protects against low voltage and locked rotor
- Easy to install and to retrofit in BlueCool electrical boxes

BlueCool Soft Start

| Description | Order number |
|--|--------------|
| BlueCool Soft Start 5,000 – 13,000 BTU/h, 230 V, single-phase, 50 – 60 Hz | WBCL050931A |
| BlueCool Soft Start 16,000 – 20,000 BTU/h, 230 V, single-phase, 50 – 60 Hz | WBCL050932A |
| BlueCool Soft Start 24,000 – 42,000 BTU/h, 230 V, single-phase, 50 – 60 Hz | WBCL050933A |

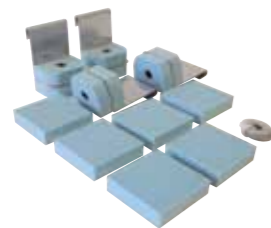
NEW



- Reduction of starting peak up to 53%
- Fully 50/60 Hz compatible for worldwide application
- Two soft start models cover 3-phase scroll compressors from 21 – 143 kBTU/h
- Self-adjusting software, soft start automatically adapts to compressor
- Monitors supply voltage and protects against overvoltage, overcurrent and locked rotor
- Rated operational voltage: 340 - 440VACrms, 50/60 Hz

Soft Start 3-phase, 400 V

| Description | Order number |
|---|--------------|
| Soft Start 21 – 96 kBTU, 400 V, 3-phase, 50 – 60 Hz | WBCL050945A |
| Soft Start 112 – 143 kBTU, 400 V, 3-phase, 50 – 60 Hz | WBCL050946A |



- Reduction of 50 % of vibrations transmitted to the hull
- High performance damping elements specially designed for the vibration frequency and the weight of each unit
- All absorbers can easily be retrofitted and mounted below the condensate tray. One complete kit with all necessary parts is supplied
- The height of the unit will be increased by only 14 mm

BlueCool Vibration absorber kits

| Description | Order number |
|--|--------------|
| Vibration Absorber Kit S-Series; S8, S10 | WBCL120075A |
| Vibration Absorber Kit S-Series; S13 – S27 | WBCL120076A |
| Vibration Absorber Kit C-Series; C16 M – C27 M | WBCL120078A |



- Solution for C-Series with Twin, Triple and Quattro compressors as well as for the V50 M
- One complete kit with all necessary parts is supplied

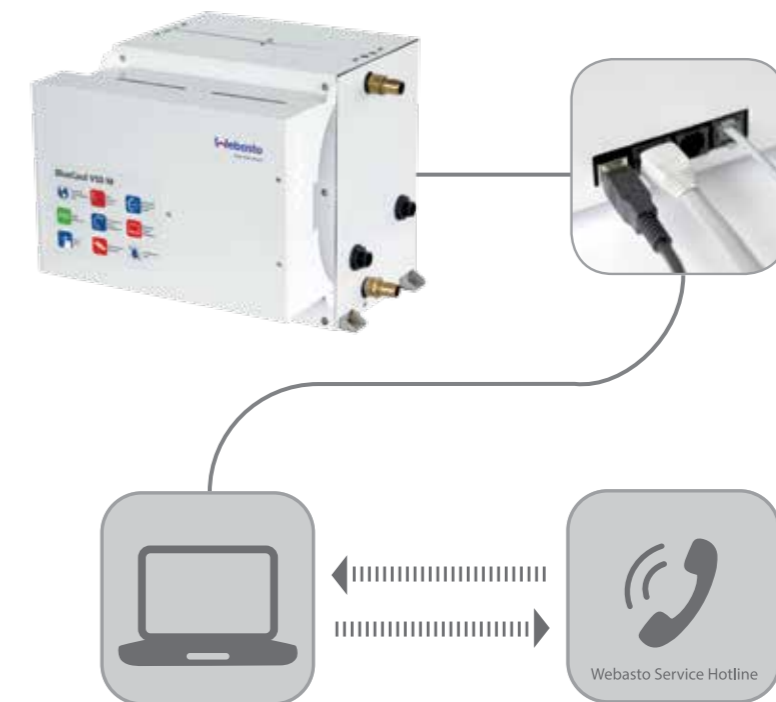
BlueCool Silent block kits

| Description | Order number |
|---|--------------|
| Silent Blocks for C32 T, C40 T, C55 T and V50 M | WBCL1207041A |
| Silent Blocks for C81 R and C108 Q | WBCL1207042A |

BlueCool Expert Tool

Free Webasto service software suitable for all new air-conditioning units of the S-\C-\V-\P-Series. Your best companion for easy parameterizing and servicing of the A/C system.

- Plug-and-play USB connection to the A/C unit
 - Standard USB connection
- Remote troubleshooting
 - Remote access via internet
- Easy parameter setting
 - All parameters at one sight
- Back-up and upload of application-specific presets
 - Save individual presets or load standard presets
- Real-time system monitoring
 - Check all data of system while operating
- Access to data logs
 - All relevant data are stored for easy review
- Activation/test of A/C system components
 - Check function of all components and connected accessories



BlueCool Expert Tool

Air-conditioning control elements



The Webasto digital control panel is part of a complete electronic control system including the A/C controller card and connecting cables/sensors. The digital display adapts its functionality to the type of A/C system where it is connected to. The following information and parameters can be read out or programmed:

Self-contained systems

- Automatic/manual cycle switching cool/heat
- Cool cycle/heat cycle only operation
- Calibration of all temperature read-outs
- Automatic blanking of display
- Fine-tuning of all blower speed settings
- Choice between thermostatic and continuous blower control
- Automatic dehumidification cycle in absence of user
- Direct read-out of evaporator temperature
- Choice between manual blower speed control and automatic by temperature differential
- Optional infra-red remote control
- Access code possible for programming access

Air handlers

- Automatic/manual cycle switching cool/heat
- Cool cycle/heat cycle only operation
- Calibration of all temperature read-outs
- Automatic blanking of display
- Fine-tuning of all blower speed settings
- Choice between thermostatic and continuous blower control
- Direct read-out of air handler temperature
- Access code possible for programming access


Chiller systems

- Cool cycle/heat cycle only operation
- Automatic/manual cycle switching cool/heat
- Direct control over external heat-source integrated in the chilled water circuit
- Calibration of temperature read-outs
- Fine tuning of blower speed settings
- Choice between thermostatic and continuous blower control
- Can control multiple compressors with staged compressor start-up
- Directly controls chilled water circulation pump
- Modification of the high and low set-points chilled water circuit temperature
- Modification low-voltage cut-out settings
- Manual or automatic compressor start-up rotation to equalize running hours
- Direct control over each compressor running status directly from digital display
- All safety controls are micro-processor controlled with direct display of all error codes



Customize the Design: In order to provide best customizing possibilities, Webasto control units for air-conditioning are compatible with bezels of the Vimar series IDEA as well as the Bticino series LIVING INTERNATIONAL.

Electronic controls

| | BlueCool self-contained units | BlueCool chiller systems | Air handlers | Order number |
|--|-------------------------------|--------------------------|--------------|--------------|
| Digital controls | | | | |
|  | ■ | ■ | ■ | WBCL000833D |
|  | | | ■ | WBCL000373F |
| | | | ■ | WBCL000374F |
| | | | ■ | WBCL000396D |
| | | | ■ | WBCL000397D |
| | | | | WBCL000217G |
| | | | | WBCL000221G |
| * includes: alu box with PCB, digital control panel with bezel, display cable, water temperature and remote air temp. sensor 3 m | | | | |
| CAN-Bus | | | | |
|  | ■ | ■ | | WBCL1203091A |
| Mechanical controls | | | | |
|  | | | ■ | WBCL010231A |
| Electrical accessories for controls | | | | |
|  | ■ | | | WBCL000815B |
| | ■ | | | WBCL000808B |
| | ■ | | | WBCL000809B |
|  | ■ | ■ | | WBCL000813B |
| | ■ | ■ | | WBCL000810B |
| | ■ | ■ | | WBCL000812B |
| | ■ | ■ | | WBCL000368C |
| | ■ | ■ | | WBCL000369C |
| * For former V2 cards please use metallic water sensors. Please refer to the spare part list available on dealers.webasto.com. | | | | |
| Relay box for A/C units with one pump* | | | | |
|  | ■ | | | WBCL001127C |
| | ■ | | | WBCL001128C |
| | ■ | | | WBCL001129C |
| | ■ | | | WBCL001182B |
| | ■ | | | WBCL001183B |

* Please contact us if you want to combine more A/C units with one pump.

Self-priming pumps

| Model | Dimensions L x W x H | Max. output | Running power consumption | Connection in, out | Weight | Order number 115 V | Order number 230 V | Order number 400 V |
|-----------|--|---------------------------------|---|----------------------|---------------------|--------------------|--------------------|--------------------|
| WB200 • * | 195 x 130 x 130 mm 7.7 x 5.2 x 5.2 inch | 12/3.2 (l/min) 3.2/0.9 (gpm) | 25 W 0.2 amps (230 V) | 5/8", 16 mm | 1.2 kg 2.7 lbs | - | WBCL001103B | - |
| WB500G | 254 x 120 x 185 mm 10,0 x 4,7 x 7,3 inch | 18 (l/min) 4.7 (gpm) | 250 W 1.2 amps (230 V) | G 1/2" F G 1/2" F | 6.2 kg | WBCL001306A | WBCL001305A | - |
| WB1000G | 260 x 120 x 143 mm 10.3 x 4.8 x 5.7 inch | 60 (l/min) 15.8 (gpm) | 370 W 1.7 amps (230 V) | G 3/4" F G 3/4" F | 6.5 kg 14.4 lbs | WBCL001307A | WBCL001092A | - |
| WB2800G | 350 x 160 x 185 mm 13.7 x 6.3 x 7.3 inch | 100 (l/min) 26.4 (gpm) | 370 W 1.7 amps (230 V) | G 1" F G 1" F | 19 kg 41.9 lbs | - | WBCL001093A | - |
| WB4000* | 504 x 215 x 270 mm 19.7 x 8.5 x 10.7 inch | 250 (l/min) 66 (gpm) | 730 W, 3.3 amps (230 V) 1.6 amps (400 V) | G 2" F G 1 1/2" F | 9 kg 19.9 lbs | - | WBCL001160A* | WBCL001161A |
| WB5600* | 530 x 215 x 270 mm 20.9 x 8.5 x 10.7 inch | 300 (l/min) 80 (gpm) | 1,200 W, 5.4 amps (230 V) 2.2 amps (400 V) | G 2" F G 1 1/2" F | 12.2 kg 26.9 lbs | - | WBCL001162A* | WBCL001163A |
| WB8000* | 592 x 215 x 302 mm 23.4 x 8.5 x 11.9 inch | 500 (l/min) 132 (gpm) | 1,600 W 2.9 amps (400 V) | G 2" F G 2" F | 19 kg 41.9 lbs | - | - | WBCL001164A |
| WB10500* | 592 x 215 x 302 mm 23.4 x 8.5 x 11.9 inch | 667 (l/min) 176 (gpm) | 3,000 W 5.3 amps (400 V) | G 2" F G 2" F | 21 kg 46.3 lbs | - | - | WBCL001165A |

• contains straight hose nipple 5/8", 16 mm and 90° adaptor for hose nipple

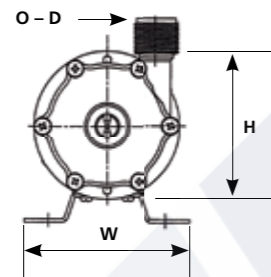
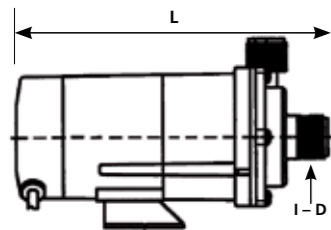
* can only be used for sea water cooling, not for chilled water circulation

For a stable operation of A/C systems it is essential to have a robust sea water flow in order to cool the condenser and avoid high pressure cut outs of the A/C unit. The sea water pump has to provide this water flow through the A/C unit.

As soon as a significant amount of air is being sucked into the sea water circuit most standard circulation pumps do not have the technical capability to evacuate these air bubbles once they enter into the pump chamber. As a result, the sea water flow stops and the A/C system will shut off. Self priming pumps do have this capability to evacuate these air bubbles from the pump chamber thus ensuring a continuous A/C operation. Therefore they are the best choice for all those boats and applications where there is a certain risk that air bubbles might enter via the through hull fitting.

Please note that even though the sea water intake fitting is mounted below the sea water line it may happen during heeling, high boat speed or during reversing the boat that air is being sucked into the sea water intake. For such applications it is highly recommended to use self priming sea water pumps instead of standard circulation pumps.

The pump models WB500G, WB1000G and WB2800G have to be pre-filled before the first start-up and after long downtimes.



Model WB200



Model WB500G/1000G/2800G



Model WB4000/5600/8000/10500

Pumps

| Model | Dimensions L x W x H | Max. output *** | Running power consumption | Connection in, out | Weight | Order number 115 V | Order number 230 V | Order number 400 V |
|--------------------------------------|---|----------------------------|---|--------------------------|--------------------|--------------------|--------------------|--------------------|
| Magnetic Drive Pumps 50/60 Hz | | | | | | | | |
| WB250 | 180 x 95 x 109 mm 7.1 x 3.7 x 4.3 inch | 16 (l/min) 4.2 (gpm) | 26 W, 0.36 amps (115 V) 0.18 amps (230 V) | Ø 14 mm Ø 14 mm | 1.6 kg 3.3 lbs | WBCL001301 | WBCL001104A | - |
| | 179 x 95 x 114 mm 7.1 x 3.7 x 4.3 inch | 16 (l/min) 4.2 (gpm) | 26 W 0.2 amps (230 V) | G 3/4" M G 3/4" M | 1.6 kg 3.3 lbs | - | WBCL010799B* | - |
| WB350 | 209 x 106 x 105 mm 8.2 x 4.2 x 4.2 inch | 27 (l/min) 7.1 (gpm) | 40 W, 0.48 amps (115 V) 0.24 amps (230 V) | Ø 18 mm Ø 17 mm | 2 kg 4.4 lbs | WBCL001302A | WBCL001105A | - |
| | 203 x 106 x 107 mm 8.1 x 4.2 x 4.2 inch | 27 (l/min) 7.1 (gpm) | 45 W 0.24 amps (230 V) | G 3/4" M G 3/4" M | 2 kg 4.4 lbs | - | WBCL0010800A* | - |
| WB500 | 248 x 120 x 130 mm 9.8 x 4.8 x 5.2 inch | 32 (l/min) 8.4 (gpm) | 60 W 0.4 amps (230 V) | G 3/4" M G 3/4" M | 3.5 kg 7.8 lbs | - | WBCL001101A | - |
| | 248 x 120 x 130 mm 9.8 x 4.8 x 5.2 inch | 32 (l/min) 8.4 (gpm) | 60 W 0.4 amps (230 V) | G 3/4" M G 3/4" M | 3.5 kg 7.8 lbs | - | WBCL0010810A* | - |
| WB1000 | 250 x 120 x 130 mm 9.9 x 4.8 x 5.2 inch | 45 (l/min) 11.8 (gpm) | 90 W, 1 amps (115 V) 0.52 amps (230 V) | G 3/4" M G 3/4" M | 3.9 kg 8.6 lbs | WBCL001303A | WBCL001106A | - |
| | 250 x 120 x 130 mm 9.9 x 4.8 x 5.2 inch | 45 (l/min) 11.8 (gpm) | 90 W, 1 amps (115 V) 0.52 amps (230 V) | G 3/4" M G 3/4" M | 3.9 kg 8.6 lbs | - | WBCL0010820B* | - |
| WB1500 | 258 x 130 x 155 mm 10.2 x 5.2 x 6.1 inch | 86 (l/min) 22.7 (gpm) | 235 W 1.21 amps (230 V) | G1" M G1" M | 6 kg 13.2 lbs | - | WBCL001107A | - |
| WB2000 | 322 x 156 x 175 mm 12.7 x 6.2 x 6.9 inch | 115 (l/min) 30.3 (gpm) | 345 W 1.93 amps (230 V) | G 1" M G 1" M | 8.5 kg 18.8 lbs | - | WBCL001108A | - |
| WB3500 | 423.5 x 149 x 210 mm 16.7 x 5.9 x 8.3 inch | 280 (l/min) 74 (gpm) | 370 W, 2.4 amps (230 V) 1.1 amps (400 V) | G 1 1/2" M 1 1/2" M | 14 kg 30.9 lbs | - | WBCL001231A | WBCL001232A |
| WB5500 | 473 x 160 x 249 mm 18.9 x 6.3 x 9.8 inch | 320 (l/min) 84.6 (gpm) | 750 W, 4 amps (230 V) 1.8 amps (400 V) | G 1 1/2" M 1 1/2" M | 22 kg 48.5 lbs | - | WBCL001110A | WBCL001112A |
| WB7400 | 478.5 x 260 x 274 mm 20.1 x 10.3 x 10.8 inch | 450 (l/min) 118.8 (gpm) | 1,500 W, 7.1 amps (230 V) 3.1 amps (400 V) | G 2" M G 1 1/2" M | 25 kg 55.2 lbs | - | WBCL010121A | WBCL001138 |
| WB9800 | 478.5 x 260 x 274 mm 22.1 x 10.3 x 10.8 inch | 520 (l/min) 137.4 (gpm) | 2,200 W 4.5 amps (400 V) | G 2" M G 1 1/2" M | 32 kg 70.5 lbs | - | - | WBCL001139A |
| Bronze Pump 50 Hz | | | | | | | | |
| WB7500** | 382 x 190 x 250 mm 15.1 x 7.5 x 9.9 inch | 400 (l/min) 105.7 (gpm) | 2,000 W 4.5 Amps (400 V) | G 2" F G 1 1/4" F | 23 kg 50.7 lbs | - | - | WBCL001136 |
| Bronze Pump 60 Hz | | | | | | | | |
| WB7500** | 382 x 190 x 250 mm 15.1 x 7.5 x 9.9 inch | 400 (l/min) 105.7 (gpm) | 2,000 W 4.5 Amps (400 V) | G 2" F G 1 1/4" F | 23 kg 50.7 lbs | - | - | WBCL001137A |
| Bronze Pumps 50/60 Hz | | | | | | | | |
| WB2500G | 303 x 154 x 161 mm 11.9 x 6.1 x 6.4 inch | 80 (l/min) 21.1 (gpm) | 550 W 2.5 Amps (230 V) | G 1" F G 1" F | 9 kg 19.9 lbs | - | WBCL001170A | - |
| WB3000G | 303 x 174 x 181 mm 11.9 x 6.9 x 7.2 inch | 125 (l/min) 33 (gpm) | 1,100 W, 4.9 Amps (230 V) 2.8 Amps (400 V) | G 1" F G 1" F | 10 kg 22.1 lbs | - | WBCL001171A | WBCL001172A |
| WB5500G | 380 x 193 x 240 mm 15 x 7.6 x 9.5 inch | 250 (l/min) 66 (gpm) | 1,500 W, 6.7 Amps (230 V) 4.5 Amps (400 V) | G 1 1/2" F G 1 1/2" F | 17 kg 37.5 lbs | - | WBCL001173A | WBCL001174A |

* white painted version with threaded hose connections ** can only be used for chilled water circulation, not for sea water cooling.

*** Effective water output varies with back pressure. Please respect the pump curves on the next pages in order to ensure the minimum water flows required for your applications.

Note: F = Female thread in inch M = Male thread in inch



WB250 to WB1000



WB1500 to WB2000



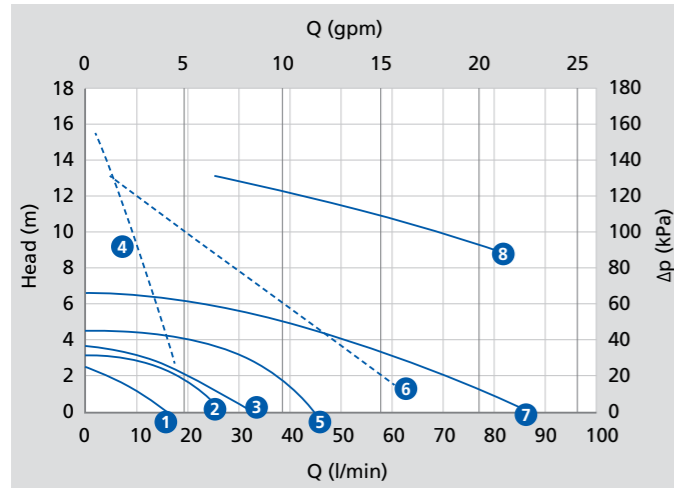
WB3500 to 9800



WB2500G to 5500G

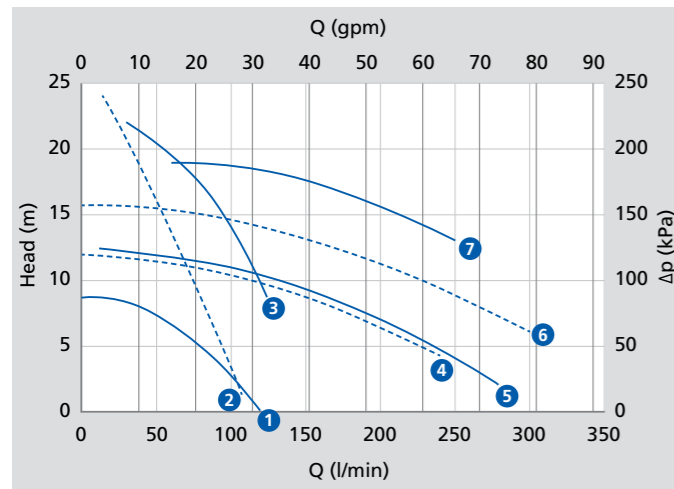
Pumps

50 Hz water pump curves



| Graphic 1 | 50 Hz up to 100 l/min |
|-----------|-----------------------|
| 1 | WB250 |
| 2 | WB350 |
| 3 | WB500 |
| 4 | WB500G |
| 5 | WB1000 |
| 6 | WB1000G |
| 7 | WB1500 |
| 8 | WB2500G |

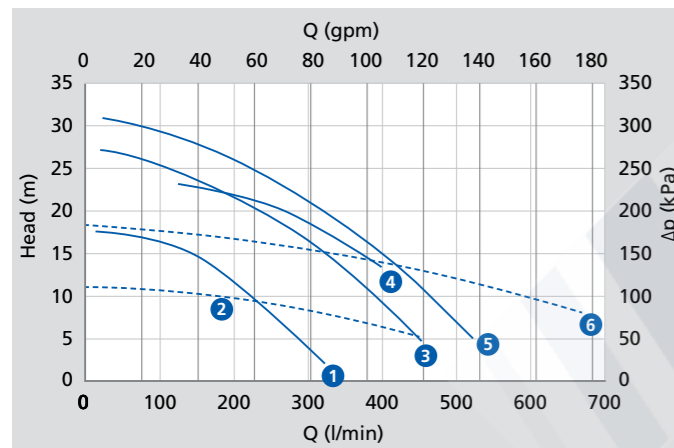
— Centrifugal - - - Self-priming



| Graphic 2 | 50 Hz up to 300 l/min |
|-----------|-----------------------|
| 1 | WB2000 |
| 2 | WB2800G |
| 3 | WB3000G |
| 4 | WB4000 |
| 5 | WB3500 |
| 6 | WB5600 |
| 7 | WB5500G |

— Centrifugal - - - Self-priming

50 Hz water pump curves (continued)

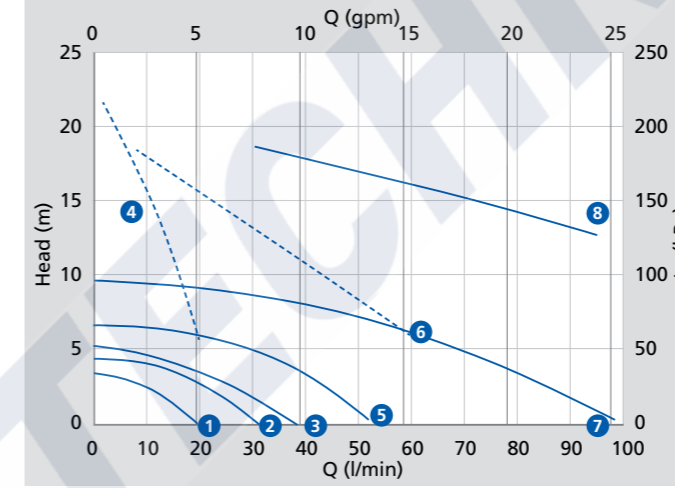


| Graphic 3 | 50 Hz up to 700 l/min |
|-----------|-----------------------|
| 1 | WB5500 |
| 2 | WB8000 |
| 3 | WB7400 |
| 4 | WB7500 |
| 5 | WB9800 |
| 6 | WB10500 |

— Centrifugal - - - Self-priming

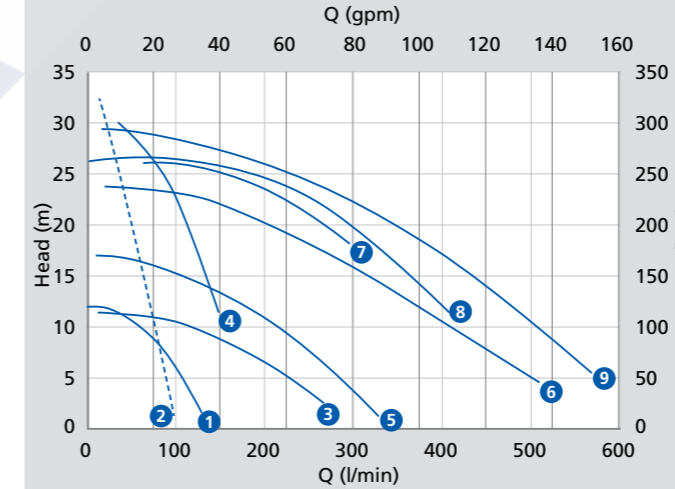
Pumps

60 Hz water pump curves



| Graphic 4 | 60 Hz up to 100 l/min |
|-----------|-----------------------|
| 1 | WB250 |
| 2 | WB350 |
| 3 | WB500 |
| 4 | WB500G |
| 5 | WB1000 |
| 6 | WB1000G |
| 7 | WB1500 |
| 8 | WB2500G |

— Centrifugal - - - Self-priming



| Graphic 5 | 60 Hz up to 700 l/min |
|-----------|-----------------------|
| 1 | WB2000 |
| 2 | WB2800G |
| 3 | WB3500 |
| 4 | WB3000G |
| 5 | WB5500 |
| 6 | WB7400 |
| 7 | WB5500G |
| 8 | WB7500 |
| 9 | WB9800 |

— Centrifugal - - - Self-priming

- The Head (m) stated in the pump curves (Graphic 1 - 5) represents the equivalent pressure drop between inlet and outlet of the pump. This pressure drop equals the total back pressure of the sea water system from sea water entry to overboard discharge. Please do not confuse it with the position of the pump position below the water line.
- Depending on pressure drop the effective water flow through the pump and thus the sea water system varies significantly.
- Always ensure that the minimum sea water flow through the AVC unit is respected. It should be measured during each commissioning of the system.
- Operating the pumps outside the limits of the pump curves may result in motor overload or cavitation. These cases are excluded from Webasto warranty.

Air system

Functioning principals

Minimum air grille sections

To obtain acceptable noise levels at maximal blower speed levels the requirements for grille and ducts sections should be observed. The size of the transition box behind the supply air-grille is also important.

| Air handler or BlueCool S-Series model | Supply air grille | | Return air grille | | Duct diam. | |
|--|-------------------|----------------------------|-------------------|----------------------------|------------------------|------------------------|
| | Model (") | section (cm ²) | Model (") | section (cm ²) | < 2 m duct length (mm) | > 2 m duct length (mm) |
| 4,000; 4,500 BTU/h | 1 x 8 x 4 | 150 | 1 x 12 x 5 | 325 | 80 | 100 |
| 6,000 BTU/h | 1 x 10 x 4 | 190 | 1 x 11 x 8 | 490 | 100 | 125 |
| 9,000 BTU/h | 1 x 12 x 4 | 235 | 1 x 11 x 8 | 490 | 100 | 125 |
| 12,000 BTU/h | 1 x 10 x 5 | 250 | 1 x 14 x 7 | 550 | 125 | 150 |
| 16,000 BTU/h | 1 x 12 x 6 | 390 | 1 x 14 x 10 | 800 | 125 | 150 |
| 16,000 BTU/h | 2 x 10 x 4 | 380 | - | - | 125 | 150 |
| 20,000 BTU/h | 1 x 12 x 6 | 390 | 1 x 14 x 10 | 800 | 125 | 150 |
| 24,000 BTU/h | 2 x 10 x 5 | 500 | 1 x 14 x 12 | 1,000 | 2 x 125 | 2 x 150 |
| 30,000 BTU/h | 2 x 12 x 5 | 650 | 2 x 14 x 10 | 1,600 | 2 x 125 | 2 x 150 |
| 48,000 BTU/h | 4 x 10 x 5 | 1,000 | 2 x 14 x 12 | 2,000 | 2 x 125 | 2 x 150 |

Blower outlets

90° turns with flexible ducts directly from blower outlets should be avoided at all costs as they introduce severe restrictions in the air-flow. All WB blowers (except on 24,000 BTU/h models) can be rotated through 45° steps to obtain a straight-line outlet from the blower. This facility should be used whenever possible.

Return grille offset

It should be avoided to place a return air grille directly opposite the finned coil surface of an air-handler, because this will allow propagation of direct blower-motor noise through the grille. The grille should be offsetted to chicane the return air to the coil inlet. Direct noise propagation will be reduced in a significant manner.

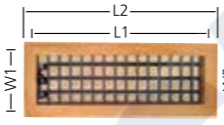

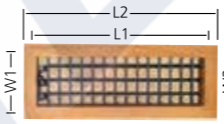
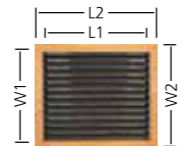
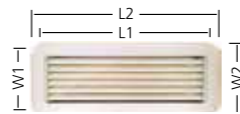
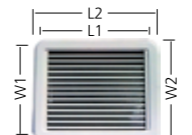

Duct type

To avoid accidental crushing, flexible air-ducts should be of high quality with sufficiently strong steel spiral reinforcement. Spiral type ducts should be extended to their maximum length for the best interior smoothness. For very long duct sections smooth bore ducts (in PVC for example) should be preferred. This offers better smoothness than flexible spiral type ducting and hence reduces internal friction. For very short lengths non-insulated ducts can be used. For greater lengths it is advisable to use insulated type ducts to avoid condensation on the outside of the air-ducts.

Big luxury yacht

In general requirements for megayachts and big luxury vessels are even more stringent than the table here above. These special requirements can be obtained from Webasto on request.

Air system

| Air grille* | Model | L1 (mm) | L2 (mm) | W1 (mm) | W2 (mm) | Order number |
|---|-----------------------------|---------|---------|---------|---------|--------------|
|  | 8 x 4 TS (supply air) | 202 | 230 | 100 | 128 | WBCL004000XA |
| | 10 x 4 TS | 252 | 281 | 100 | 128 | WBCL004001XA |
| | 12 x 4 TS | 304 | 332 | 100 | 128 | WBCL004002XA |
| | 10 x 5 TS | 252 | 281 | 125 | 152 | WBCL004018XA |
| | 12 x 5 TS | 304 | 332 | 125 | 152 | WBCL004004XA |
| | 12 x 6 TS | 304 | 332 | 152 | 179 | WBCL0040240A |
| Wedge type supply air grille* | Model | L1 (mm) | L2 (mm) | W1 (mm) | W2 (mm) | Order number |
|  | 10 x 5 WGT (supply air) | - | 280 | - | 150 | WBCL004023XA |
| Air grille, closeable* | Model | L1 (mm) | L2 (mm) | W1 (mm) | W2 (mm) | Order number |
|  | 8 x 4 TSC (supply air) | 202 | 230 | 100 | 128 | WBCL004005XA |
| | 10 x 4 TSC | 252 | 281 | 100 | 128 | WBCL004019XA |
| | 12 x 4 TSC | 304 | 332 | 100 | 128 | WBCL004006XA |
| | 10 x 5 TSC | 252 | 281 | 125 | 152 | WBCL004022XA |
| | 12 x 5 TSC | 304 | 332 | 125 | 152 | WBCL004025XA |
| Air grille with filter* | Model | L1 (mm) | L2 (mm) | W1 (mm) | W2 (mm) | Order number |
|  | 12 x 5 TR (return air) | 304 | 332 | 125 | 152 | WBCL004020XA |
| | 11 x 8 TR | 280 | 306 | 204 | 230 | WBCL004017XA |
| | 14 x 7 TR | 177 | 205 | 355 | 381 | WBCL004007XA |
| | 12 x 10 TR | 304 | 332 | 254 | 281 | WBCL004021XA |
| | 14 x 10 TR | 354 | 382 | 254 | 281 | WBCL004008XA |
| | 14 x 12 TR | 354 | 382 | 304 | 332 | WBCL004009XA |
| Air grille (ABS) | Model | L1 (mm) | L2 (mm) | W1 (mm) | W2 (mm) | Order number |
|  | 10 x 4 PS (ABS, supply air) | 242 | 280 | 92 | 128 | WBCL004030A |
| | 12 x 4 PS | 292 | 332 | 92 | 128 | WBCL004031A |
| | 10 x 5 PS | 242 | 280 | 115 | 152 | WBCL004032A |
| | 10 x 6 PS | 242 | 280 | 138 | 174 | WBCL004033A |
| Air grille (ABS) with filter | Model | L1 (mm) | L2 (mm) | W1 (mm) | W2 (mm) | Order number |
|  | 10 x 8 PR (ABS, return air) | 242 | 281 | 190 | 232 | WBCL004076A |
| | 10 x 10 PR | 242 | 281 | 242 | 281 | WBCL004077A |
| | 12 x 12 PR | 292 | 332 | 292 | 332 | WBCL004078A |
| | 14 x 10 PR | 342 | 382 | 242 | 281 | WBCL004080A |
| | 14 x 12 PR | 342 | 382 | 292 | 332 | WBCL004081A |
| Round, adjustable plastic grille | Model | | | | | Order number |
|  | Black, 100 mm | | | - | | WBCL004090A |
| | Walnut brown, 100 mm | | | - | | WBCL004091A |
| | White, 100 mm | | | - | | WBCL004092A |
| | Off-white, 100 mm | | | - | | WBCL004093A |
| | White, 75 mm | | | - | | WBCL004094A |
| | White, 75 mm with hose ring | | | - | | WBCL004095A |
| | Black, 75 mm with hose ring | | | - | | WBCL004096A |
| | Black, 75 mm | | | - | | WBCL004097 |

* Note: All teak grilles can be supplied in other wood qualities on demand. Please see table listing the special suffixes to the chosen grille item code in accordance with the wood type preference.



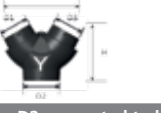







In order to customise the wooden air grilles, please choose from the following wood options:

Example: WBCL0040040 = Teak air grille 12 x 5 WBCL0040042 = Mahogany air grille 12 x 5

| Suffix | Wood type | Description |
|--------|-----------|--------------------|
| 0 | Teak | Asian Teak |
| 1 | Cherry | American Cherry |
| 2 | Mahogany | Honduran Mahogany |
| 4 | Oak | American white Oak |

Note: Teak versions on stock. Other wood options may have longer lead times or extra shipping costs.

Air system

| T-piece (inside, D2 direct to A/C unit) | Model | D1 / D2 / D3 (mm) | L x H (mm) | | Order number |
|---|---------------|-------------------|------------|---------|--------------|
|  | 100/100 F/100 | 100/100 F/100 | 220 x 185 | - | WBCL001549A |
| | 100/125 F/100 | 125/100 F/100 | 220 x 185 | - | WBCL001560A |
| | 125/125 F/100 | 125/125 F/100 | 220 x 185 | - | WBCL001550A |
| | 125/125 F/125 | 125/125 F/125 | 220 x 185 | - | WBCL001555A |
| T-piece (outside, D2 connected to hose) | Model | D1 / D2 / D3 (mm) | L x H (mm) | | Order number |
|  | 100/100 M/100 | 100/100 M/100 | 220 x 185 | - | WBCL001551A |
| | 100/125 M/100 | 100/125 M/100 | 220 x 185 | - | WBCL001552A |
| Y-piece (inside, D2 direct to A/C unit) | Model | D1 / D2 / D3 (mm) | L x H (mm) | | Order number |
|  | 100/125 F/100 | 100/125 F/100 | 269 x 213 | - | WBCL001576A |
| | 100/125 F/125 | 100/125 F/125 | 269 x 213 | - | WBCL001577A |
| Y-piece (outside, D2 connected to hoseunit) | Model | D1 / D2 / D3 (mm) | L x H (mm) | | Order number |
|  | 100/125 M/100 | 100/125 M/100 | 269 x 213 | - | WBCL001574A |
| | 100/125 M/125 | 100/125 M/125 | 269 x 213 | - | WBCL001575A |
| 90 degree elbow-piece, D2 connected to A/C unit | Model | D1 / D2 (mm) | L x H (mm) | | Order number |
|  | 100 M/100 F | 100 M/100 F | 173 x 172 | - | WBCL001572A |
| | 125 M/125 F | 125 M/125 F | 194 x 198 | - | WBCL001573A |
| 90 degree elbow-piece, D2 connected to hose | Model | D1 / D2 (mm) | L x H (mm) | | Order number |
|  | 100 M/100 M | 100 M/100 M | 170 x 170 | - | WBCL001570A |
| | 125 M/125 M | 125 M/125 M | 195 x 195 | - | WBCL001571A |
| Standard transition box | Model | | L x H (mm) | W (mm) | Order number |
|  | 8 x 4" | - | 252 x 130 | 150 | WBCL001501A |
| | 10 x 4" | - | 304 x 130 | 150 | WBCL001502A |
| | 12 x 4" | - | 352 x 130 | 150 | WBCL001503A |
| | 12 x 5" | - | 352 x 130 | 180 | WBCL001505A |
| | 10 x 5" | - | 304 x 130 | 180 | WBCL001506A |
| | 12 x 6" | - | 352 x 130 | 200 | WBCL001507A |
| | 10 x 6" | - | 304 x 130 | 200 | WBCL001508A |
| Standard hose rings | Model | D (mm) | | W (mm) | Order number |
|  | HR4 - 100 | 100 | - | 134 | WBCL002502 |
| | HR5 - 125 | 125 | - | 150 | WBCL002503 |
| | HR6 - 150 | 150 | - | 170 | WBCL002504A |
| | HR7 - 178 | 175 | - | 200 | WBCL002509A |
| Oval hose rings | Model | D x W2 (mm) | L x H (mm) | W1 (mm) | Order number |
|  | HO4 - 100* | 120 x 55 | 170 | 100 | WBCL002505A |
| | HO5 - 125* | 150 x 65 | 195 | 110 | WBCL002506A |
| | HO6 - 150* | 180 x 72 | 228 | 120 | WBCL002507A |
| | HO7 - 175* | 200 x 84 | 255 | 140 | WBCL002508A |
| Transition box, round entry | Model | D (mm) | L x H (mm) | W (mm) | Order number |
|  | 8 x 4LN/100* | 100 | 250 x 130 | 150 | WBCL001520A |
| | 10 x 4LN/100* | 100 | 305 x 130 | 150 | WBCL001521A |
| | 12 x 4LN/100* | 100 | 360 x 130 | 150 | WBCL001522A |
| | 10 x 5LN/125* | 125 | 304 x 130 | 180 | WBCL001523A |

F = Female M = Male
* equivalent diameter of air ducting in mm.

Air system

| Transition box, lateral oval entry | Model | D x W2 (mm) | L x H (mm) | W (mm) | Order number |
|---|-----------------|-------------------|------------|--------|--------------|
|  | 8 x 4LT/OV100* | 120 x 55 | 250 x 130 | 155 | WBCL001510A |
| | 10 x 4LT/OV100* | 120 x 55 | 305 x 130 | 155 | WBCL001530A |
| | 10 x 4LT/OV125* | 150 x 65 | 305 x 130 | 155 | WBCL001529A |
| | 12 x 4LT/OV125* | 150 x 65 | 305 x 130 | 180 | WBCL001528A |
| Transition box, back oval entry | Model | D x W2 (mm) | L x H (mm) | W (mm) | Order number |
|  | 8 x 4AR/OV100* | 120 x 55 | 250 x 180 | 155 | WBCL001524A |
| | 10 x 4AR/OV100* | 120 x 55 | 305 x 180 | 155 | WBCL001525A |
| | 10 x 4AR/OV125* | 150 x 65 | 305 x 180 | 155 | WBCL001531A |
| | 10 x 5AR/OV125* | 150 x 65 | 305 x 180 | 180 | WBCL001526A |
| | 10 x 6AR/OV125* | 150 x 65 | 305 x 180 | 205 | WBCL001533A |
| Y-piece | Model | D / D1 / D2 (mm) | L x H (mm) | | Order number |
|  | YAS100 | 100/100/100 | 320 x 255 | - | WBCL001562A |
| | YAS125 | 125/125/125 | 360 x 300 | - | WBCL001563A |
| | YAS100/80/80 | 100/80/80 | 380 x 300 | - | WBCL001548A |
| Insulated flexible air ducts | Model (mm) | D (mm) | L (m) | | Order number |
|  | 80 | IN = 80; A = 105 | L = 6 | - | WBCL007460B |
| | 104 | IN = 104; A = 128 | L = 6 | - | WBCL007461C |
| | 130 | IN = 130; A = 145 | L = 6 | - | WBCL007462C |
| Standard flexible air ducts | Model (mm) | D (mm) | L (m) | | Order number |
|  | Cflex 102 | 102 | 10 | - | WBCL001804 |
| | Cflex 127 | 127 | 10 | - | WBCL001805 |
| | Cflex 150 | 152 | 10 | - | WBCL001806 |
| Insulated flexible air ducts | Model | D (mm) | L (m) | | Order number |
|  | Cflexiso 102 | 102 | 10 | - | WBCL001807 |
| | Cflexiso 127 | 127 | 10 | - | WBCL001808 |
| | Cflexiso 152 | 152 | 10 | - | WBCL001809 |
| Tubular hose insulation | Model | D (mm) | L (m) | | Order number |
|  | Isosleeve 102 | 102 | 10 | - | WBCL001810 |
| | Isosleeve 127 | 127 | 10 | - | WBCL001811 |
| | Isosleeve 152 | 152 | 10 | - | WBCL001812 |
| | Isosleeve 180 | 180 | 10 | - | WBCL001813 |
| Extra silent insulated air ducts | | D (mm) | L (m) | | Order number |
|  | - | 102 | 10 | - | WBCL010155A |
| | - | 127 | 10 | - | WBCL010156A |
| | - | 160 | 10 | - | WBCL010206A |

* equivalent diameter of air ducting in mm.

Air system

| Oval ducts | Description | Model (mm) | L (m) | Order number |
|-------------------------|-------------------------|--------------|------------|--------------|
| | Oval duct (1) | 100 x 40 | 3 | WBCL007100 |
| | Oval duct (1) | 200 x 60 | 3 | WBCL007106 |
| | Elbow 90° (2) | 100 x 40 | - | WBCL007105 |
| | Elbow 90° (2) | 200 x 60 | - | WBCL007108 |
| | Elbow 90° - flat (3) | 100 x 40 | - | WBCL007104 |
| | Elbow 90° - flat (3) | 200 x 60 | - | WBCL007111 |
| | Junction oval/round (4) | 100 x 40/100 | - | WBCL007102A |
| | Junction oval/round (4) | 100 x 40/80 | - | WBCL007117 |
| | Junction oval/round (4) | 200 x 60/125 | - | WBCL007109 |
| | Junction oval/round (5) | 100 x 40/100 | - | WBCL007103A |
| Junction oval/round (5) | 200 x 60/125 | - | WBCL007110 | |
| Junction oval (6) | 100 x 40 | - | WBCL007101 | |
| Junction oval (6) | 200 x 60 | - | WBCL007107 | |
| Reduction (7) | 200 to 100 | - | WBCL007112 | |
| Oval t (8) | 200 x 60 | - | WBCL007114 | |
| Adapter oval/round (9) | 200 x 60/125 | - | WBCL007115 | |
| Oval/round t (10) | 200 x 60/125 | - | WBCL007116 | |

| Water System | Chilled water pipes Webasto EasyPipe (mm) | Model (mm) | Packaging (m) | Order number |
|--------------|---|------------|---------------|--------------|
| | d15/D4 | 15 | 50/25/15/10 | WBCL010122B |
| | d22/D48 | 22 | 25/15/10 | WBCL010123B |
| | d28/D54 | 28 | 25/15/10 | WBCL010124B |
| | | | | |

Webasto EasyPipe

The solution to reduce installation time and save costs!

Benefits

- Easy assembly process, reliable application
- Pipes have pre-mounted insulation providing significant saving on installation time for boat builders
- Huge range of compatible quick-fitting components

Specifications

- Pipe material is high-quality polybutylene with a temperature range of -30 °C up to 90 °C at 6 bar
- Pipe insulation is high-quality closed cell polyethylen (PE-LD) with a temperature range of -30 °C to 95 °C and a lambda value of 0.0334 W/(m · K)
- O-ring sealed push fittings with stainless steel locking
- Sold in rolls to be cut to length

| Water System | Description | Model (mm) | Packaging (m) | Order number |
|--------------|-----------------------|------------|---------------|--------------|
| | Hep_O PB Barrier Pipe | 15 | L = 50 | WBCL010300B |
| | Hep_O PB Barrier Pipe | 22 | L = 50 | WBCL010301B |
| | Hep_O PB Barrier Pipe | 28 | L = 25 | WBCL010302B |


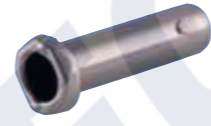

Water system

| | Description | Model (mm) | Packaging (pieces) | Order number |
|--|--|--------------|--------------------|--------------|
| | Hep_O Straight Connector 15 | 15 | 10 | WBCL010307B |
| | Hep_O Straight Connector 22 | 22 | 10 | WBCL010308B |
| | Hep_O Straight Connector 28 | 28 | 10 | WBCL010309B |
| | Hep_O PB Elbow 90° GY 15 | 15 | 10 | WBCL010325B |
| | Hep_O PB Elbow 90° GY 22 | 22 | 10 | WBCL010326B |
| | Hep_O PB Elbow 90° GY 28 | 28 | 10 | WBCL010327B |
| | Hep_O PB Tee 90° GY 15 | 15 x 15 x 15 | 10 | WBCL010337B |
| | Hep_O PB Tee 90° GY 22 | 22 x 22 x 22 | 10 | WBCL010338B |
| | Hep_O PB Tee 90° GY 28 | 28 x 28 x 28 | 10 | WBCL010342B |
| | Hep_O PB Tee 90° GY 22 x 22 x 15 | 22 x 22 x 15 | 5 | WBCL010339B |
| | Hep_O PB Tee 90° GY 22 x 15 x 22 | 22 x 15 x 22 | 5 | WBCL010340B |
| | Hep_O PB Tee 90° GY 22 x 15 x 15 | 22 x 15 x 15 | 5 | WBCL010341B |
| | Hep_O PB Tee 90° GY 28 x 15 | 28 x 15 x 28 | 5 | WBCL010343B |
| | Hep_O PB Tee 90° GY 28 x 28 x 22 | 28 x 28 x 22 | 5 | WBCL010344B |
| | Hep_O PB Tee 90° GY 28 x 22 x 28 | 28 x 22 x 28 | 5 | WBCL010345B |
| | Hep_O Pb Tee Reduced Both Ends | W 22 x 15 | - | WBCL010700A |
| | Hep_O Pb Tee Reduced Both Ends | W 28 x 15 | - | WBCL010701A |
| | Hep_O Hepkey Plus 15 | - | - | WBCL010702A |
| | Hep_O Hepkey Plus 22 | - | - | WBCL010703A |
| | Hep_O Hepkey Plus 28 | - | - | WBCL010704A |
| | Hep_O Silicone Lubricant Spray 400 ml Aerosol Can Hep_O Fittings | - | - | WBCL010705A |

Water system


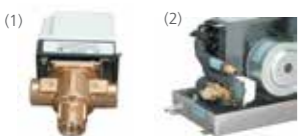

| | Description | Model (mm) | Packaging (pieces) | Order number |
|---|--|------------|--------------------|--------------|
|  | Hep ₂ O reducer 22 x 15 S/SP | 22 x 15 | 10 | WBCL010379B |
| | Hep ₂ O reducer 28 x 22 S/SP | 28 x 22 | 10 | WBCL010380B |
|  | Hep ₂ O Straight Tap Connector 15 x 1/2" | 15 x 1/2" | 10 | WBCL010316B |
| | Hep ₂ O Straight Tap Connector 15 x 3/4" | 15 x 3/4" | 5 | WBCL010317B |
| | Hep ₂ O Straight Tap Connector 22 x 3/4" | 22 x 3/4" | 5 | WBCL010318B |
|  | Hep ₂ O Bent Tap Connector 15 x 1/2" | 15 x 1/2" | 10 | WBCL010328B |
|  | Hep ₂ O Brass Female Adapt 15 x 1/2" | 15 x 1/2" | 10 | WBCL010310B |
| | Hep ₂ O Brass Female Adapt 22 x 3/4" | 22 x 3/4" | 10 | WBCL010312B |
| | Hep ₂ O Brass Female Adapt 28 x 1" | 28 x 1" | 10 | WBCL010314B |
|  | Hep ₂ O Brass Male Adapt 15 x 1/2" | 15 x 1/2" | 10 | WBCL010311B |
| | Hep ₂ O Brass Male Adapt 22 x 3/4" | 22 x 3/4" | 10 | WBCL010313B |
| | Hep ₂ O Brass Male Adapt 28 x 1" | 28 x 1" | 10 | WBCL010315B |
|  | Hep ₂ O Brass Spgt Adapt 15 x 1/2" Female | 15 x 1/2" | 10 | WBCL010319B |
| | Hep ₂ O Brass Spgt Adapt 22 x 3/4" Female | 22 x 3/4" | 10 | WBCL010321B |
| | Hep ₂ O Brass Spgt Adapt 28 x 1" Female | 28 x 1" | 10 | WBCL010323B |
|  | Hep ₂ O Brass Spgt Adapt 15 x 1/2" Male | 15 x 1/2" | 10 | WBCL010320B |
| | Hep ₂ O Brass Spgt Adapt 22 x 3/4" Male | 22 x 3/4" | 10 | WBCL010322B |
| | Hep ₂ O Brass Spgt Adapt 28 x 1" Male | 28 x 1" | 10 | WBCL010324B |
|  | Hep ₂ O Brass Ball Valve 15 | 15 | 2 | WBCL010353B |
| | Hep ₂ O Brass Ball Valve 22 | 22 | 2 | WBCL010354B |
|  | Hep ₂ O Shut off valve Hot/Cold 15 | 15 | 5 | WBCL010375B |

Water system

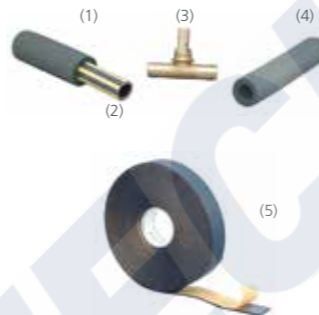

| | Description | Model (mm) | Packaging (pieces) | Order number |
|---|---|------------|--------------------|--------------|
|  | Hep ₂ O Cold Forming Bend Fixture 15 | 15 | 5 | WBCL010335B |
| | Hep ₂ O Cold Forming Bend Fixture 22 | 22 | 5 | WBCL010336B |
|  | Hep ₂ O Pipe Support Sleeve 15 | 15 | 10 | WBCL010362B |
| | Hep ₂ O Pipe Support Sleeve 22 | 22 | 10 | WBCL010364B |
| | Hep ₂ O Pipe Support Sleeve 28 | 28 | 5 | WBCL010366B |
|  | Hep ₂ O Pipe cutter 10 - 28 Standard | - | 1 | WBCL010373B |
| | Hep ₂ O Pipe cutter 10 - 28 Professional | - | 1 | WBCL010374B |

Important Note:
ALL Hep₂O FITTINGS ARE PRE-LUBRICATED – NO ADDITIONAL LUBRICATION REQUIRED.
 If the fitting is demounted and remade, the use of Hep₂O Silicone Lubricant Spray (HX200) is recommended.
 HX200 is the only lubricant recommended for use with Hep₂O.

Water system

| | Expansion tank | Order number |
|--|--|----------------------------|
|  | Model 2,5 liter (1) | WBCL002030 |
| | Model 8 liter (2) | WBCL002031B |
| | Automatic air bleeder (3) for chiller circuits, 5/8" = 15 mm | WBCL002035A |
| | TA Hydronics flow regulators | Order number |
|  | Model STAD-15 – diameter 15 mm (5/8") | WBCL002100 |
| | Model STAD-20 – diameter 20 mm (3/4") | WBCL002101 |
| | Model STAD-25 – diameter 25 mm (1") | WBCL002102 |
| | 3-Way valve | Order number |
|  | 3-Way valve 25 mm (1") without fitting (1) | WBCL009433 |
| | 3-Way valve 15 mm (5/8") without fitting (1) | WBCL009434 |
| | 3-Way valve 20 mm (3/4") without fitting (1) | WBCL009432 |
| | 3-Way valve 15 mm (5/8") with fitting/piping (2) | see price list for details |
| | 3-Way valve 20 mm (3/4") with fitting/piping (2) | see price list for details |
| | Turn ball valve | Order number |
|  | 1/4 Turn ball valve – diameter 12 mm | WBCL002015A |
| | 1/4 Turn ball valve – diameter 15 mm | WBCL002016A |
| | 1/4 Turn ball valve – diameter 20 mm | WBCL002017 |
| | 1/4 Turn ball valve – diameter 25 mm | WBCL002018A |

Water system

| | Chilled water hoses and accessories | Order number | | | | | |
|---|---|--------------|------------|-----------|----------|------------|--------------|
|  | Hose D12 with insulation 9 x 18 mm – 25 m (1) | WBCL002001A | | | | | |
| | Hose D15 with insulation 9 x 22 mm – 25 m (1) | WBCL002002A | | | | | |
| | Hose D20 with insulation 9 x 28 mm – 25 m (1) | WBCL002003A | | | | | |
| | Hose D25 with insulation 9 x 35 mm – 25 m (1) | WBCL001999A | | | | | |
| | Hose D15 without insulation – 25 m (2) | WBCL002005A | | | | | |
| | Hose D20 without insulation – 25 m (2) | WBCL002006A | | | | | |
| | Hose D25 without insulation – 25 m (2) | WBCL002000A | | | | | |
| | Tubular insulation for D12; 9 x 18 mm – 2 m (4) | WBCL002007 | | | | | |
| | Tubular insulation for D15; 9 x 22 mm – 2 m (4) | WBCL002008A | | | | | |
| | Tubular insulation for D20; 9 x 28 mm – 2 m (4) | WBCL002009A | | | | | |
| | Tubular insulation for D25; 9 x 35 mm – 2 m (4) | WBCL002829A | | | | | |
| | Adhesive foam, 50 mm wide – 15 m roll (5) | WBCL002010A | | | | | |
| | T-piece 19-19-19 for hose D20 (3) | WBCL002011 | | | | | |
| | T-piece 19-15-19 for reduction D20 – D15 (3) | WBCL002012 | | | | | |
| T-piece 19-12-19 for reduction D20 – D12 (3) | WBCL002013 | | | | | | |
| T-piece 15-12-15 for reduction D15 – D12 (3) | WBCL002014 | | | | | | |
| T-piece 15-15-15 for hose D15 (3) | WBCL002019A | | | | | | |
| T-piece 19-16-16 (3) | WBCL002023 | | | | | | |
| Pipe insulation closed, foam | d (mm) | D (mm) | Length (m) | pc. / box | for ABS: | Min. Order | Order number |
|  | 28 | 54 | 2 | 78 | DN25 | 10 | WBCL002830 |
| | 35 | 60 | 2 | 58 | DN32 | 10 | WBCL002831 |
| | 42 | 68 | 2 | 48 | DN40 | 10 | WBCL002832 |
| | 54 | 80 | 2 | 34 | DN50 | 10 | WBCL002833 |
| | 76 | 102 | 2 | 22 | DN75 | 5 | WBCL002835 |

Water system

| | Sea water strainer | Order number | |
|--|--|---|--------------|
| | G 3/4" model 1160, height 105 mm, nickel-plated brass | WBCL010109A | |
| | G 1" model 1164, height 144 mm, nickel-plated bronze | WBCL010110A | |
| | G 1 1/4" model 1164, height 178 mm, nickel-plated bronze | WBCL010111A | |
| | G 1" model 1162, height 151 mm, nickel-plated bronze | WBCL010112A | |
| | G 1 1/4" model 1162, height 176 mm, nickel-plated bronze | WBCL010113A | |
| | Screen filter element for model 1160 | WBCL010268A | |
| Sea-water strainer, 16 – 20 mm, with two nipples | | Order number | |
| | Capacity in US gallons 350/1,000 US gallons/h Capacity in liters 25/50 l/min Suitable for pump models WB250 – WB350/1000 H = 140 mm W = 100 mm D = diameter inlet/outlet 5/8" – 16 mm | WBCL001151 | |
| | D = diameter inlet/outlet 3/4" – 20 mm | WBCL001152 | |
| | Screen-filter element 1,000 Microns | WBCL001154 | |
| | Sea-water strainer, 25 mm, with two nipples | | Order number |
| | | Capacity in US gallons 1,000 US gallons/h Capacity in liters 50 l/min Suitable for pump models WB1000 to 2000 H = 290 mm W = 144 mm D = diameter inlet/outlet 1.25" – 32/40 mm | WBCL001153 |
| 1" – 25 mm | | WBCL001155 | |
| Screen-filter element 1,000 Microns | | WBCL001155 | |
| Through-hull kits 16, 20, 25 mm | | Order number | |
| | | Capacity in US gallons 350 / 1,000 – 25 / 50 l / min Suitable for pump models WB250 – WB350/1000 D = diameter inlet/outlet, 5/8" – 16 mm kit, 1/2" – 16 D = diameter inlet/outlet, 3/4" – 20 mm kit, 3/4" – 20 | |
| | 5/8" – 16 mm – 1 plastic valve (1 + 2 + 3) | WBCL001125 | |
| | 3/4" – 20 mm – 1 plastic valve (1 + 2 + 3) | WBCL001126B | |
| | 5/8" – 16 mm + 2 x 90° plastic valve (1 + 3 + 5) | WBCL001123C | |
| | 3/4" – 20 mm + 2 x 90° plastic valve (1 + 3 + 5) | WBCL001124 | |
| | Kit 5/8" – 16 mm – 1 nickel plated valve (1 + 4 + 2) | WBCL001175 | |
| | Kit 3/4" – 20 mm – 1 nickel plated valve (1 + 4 + 2) | WBCL001176 | |
| | Kit 5/8" – 16 mm – 2 nickel plated valves/bronze exit (1 + 4 + 5) | WBCL001177 | |
| | Kit 3/4" – 20 mm – 2 nickel plated valves/bronze exit (1 + 4 + 5) | WBCL001178A | |
| | Kit 1" – 25 mm – 1 nickel plated valve/plastic exit (1 + 4 + 2) | WBCL001179A | |

Water system

| | Air bleeder t-piece for chilled water system | Order number |
|---------------------------------------|---|--------------|
| | Model 1000S (for pump WB1000): t-piece 3/4", diameter shut-off valve outlet 1/2" – 16 mm | WBCL001121 |
| | Model 2000S (for pumps WB1500-2500): t-piece 1", diameter shut-off valve outlet 3/4" – 20 mm | WBCL001122A |
| Chilled Water Circuit A/C Calorifiers | | Order number |
| | With safety thermostat | |
| | Model 15 kW; 400 V; L = 1,015 mm; H = 200 mm; weight = 11 kg | WBCL002121 |
| | Model 30 kW; 400 V; L = 1,590 mm; H = 200 mm; weight = 19 kg | WBCL002123 |
| Air bleeder for seawater pumps | | Order number |
| | Model 350R (for pumps WB250 and WB350): t-piece 3/4", diameter supply and outlet 1/2" – 16 mm | WBCL001118 |
| | Model 1000R (for pump WB1000): t-piece 3/4", diameter supply and outlet 3/4" – 20 mm | WBCL001119 |
| | Model 2000R (for pumps WB1500 – 2500): t-piece 1", diameter supply and outlet 3/4" – 20 mm | WBCL001120 |

Webasto can provide all accessories for pressurized systems. Please contact us for further details.



Integrated solutions

| | |
|-----------------------------|-----|
| Integrated solutions | 132 |
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| BlueComfort Classic | 134 |
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| BlueComfort Premium | 138 |
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Integrated solutions



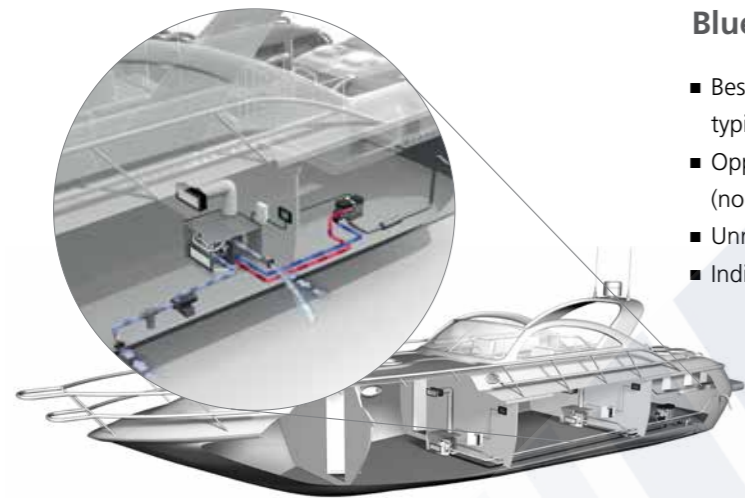
Webasto BlueComfort solutions combine an air-conditioning unit and a water heating unit into one integrated system. This allows yacht owners and sailors to expand the boating season as people can choose between heating and cooling at the push of a button.

Most air-conditioning systems have a reverse cycle function to enable heating with the A/C system. However, this requires mild sea water temperatures for efficient heating. Below 6 °C sea water temperature the heat cycle becomes inefficient. To gain total autonomy from environmental conditions, an integrated water heater is the perfect solution.

Webasto offers two system types:

BlueComfort Classic

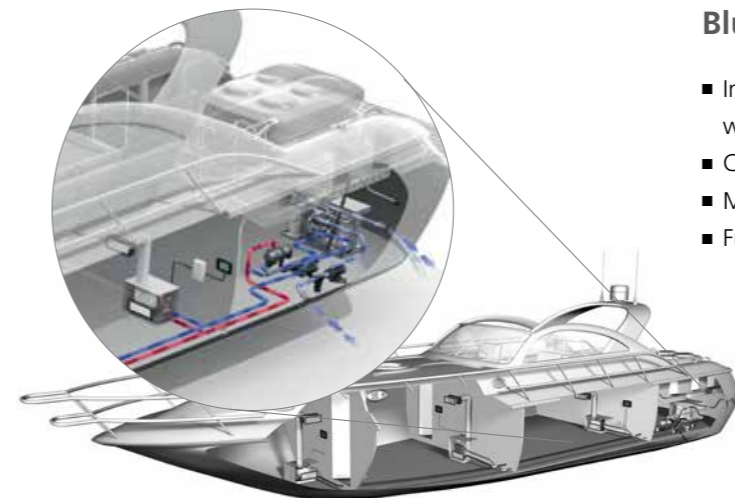
- Best integrated solution for smaller boats which would typically choose a self-contained system
- Opportunity to have heating on board while sailing (no need for generator running)
- Unrivalled dehumidification power in "reheat" mode
- Individual temperature control for each cabin



The benefits of a self-contained A/C unit complemented by a compact, high efficient diesel heater.

BlueComfort Premium

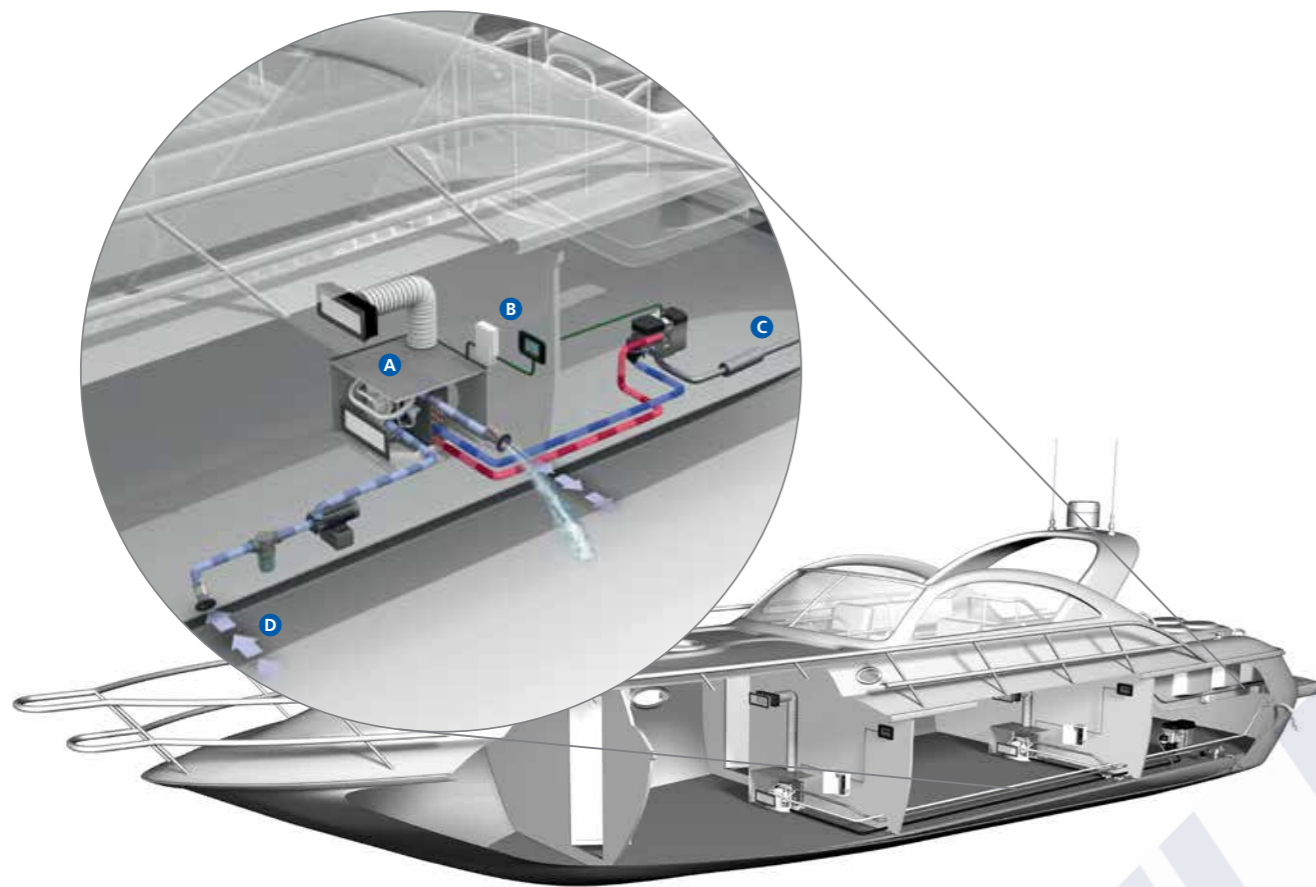
- Integration of a chiller A/C unit and a diesel-operated water heater into one system
- Comfort like at home in any weather condition
- Modular concept allowing multiple configurations
- Full range of solutions for any size of boat



Best in class, when it comes to complete climate comfort: Chiller A/C unit and a powerful water heater.

BlueComfort Classic

Application concept



- A** Self-contained A/C unit
- B** Cabin Control
- C** Water Heater
- D** Sea Water Pump

BlueComfort Classic

Application guidelines

For a complete BlueComfort Classic system, please combine the following:

1. BlueComfort Classic air-conditioner

Core unit

Webasto BlueComfort Classic 16,000, 230 V WBCL010107D

The the following components are included in the scope of delivery:

- Electric cable and control box
- Remote air temperature sensor 3 m
- Operating manual
- Installation manual
- Display cable 4.5 m

Air system

Please order separately the air ducting system for the application consisting of:

- Return air grille [SEE PAGE 119](#)
- Air ducting [SEE PAGE 120](#)
- Transition box [SEE PAGE 120](#)
- Supply air grille [SEE PAGE 119](#)

Sea water circuit

Please order separately the components for the sea water circuit consisting of:

- Sea water inlet [SEE PAGE 128](#)
- Sea water strainer [SEE PAGE 128](#)
- Sea water pump [SEE PAGE 114](#)
- Closing valve [SEE PAGE 126](#)
- Overboard discharge [SEE PAGE 128](#)
- Water hose [SEE PAGE 122](#)

2. Water heater

Thermo Top E Comfort Classic 12 V Diesel 9019718A

You may combine multiple BlueComfort Classic units into one system. Then please choose a heater with the equivalent heating power (e.g. Thermo Pro 90 for two WBCC16 units)

3. BlueComfort accessories

Do not forget to add an expansion/buffer tank.

[SEE PAGE 126](#)

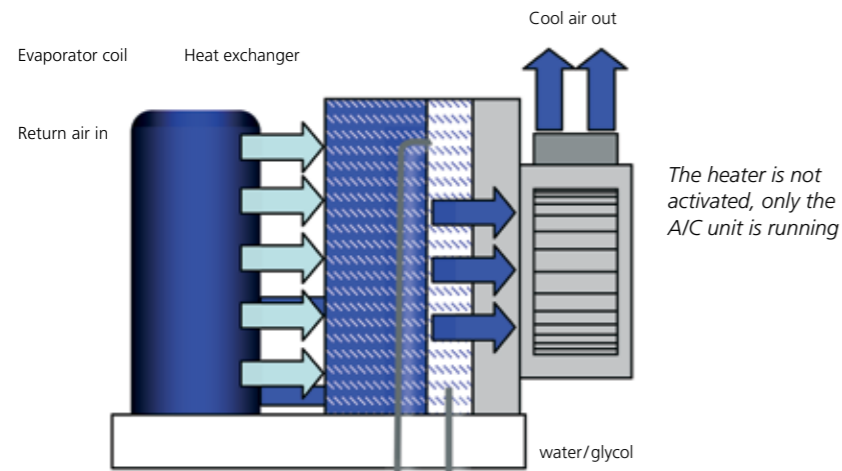
BlueComfort Classic

How does it work?

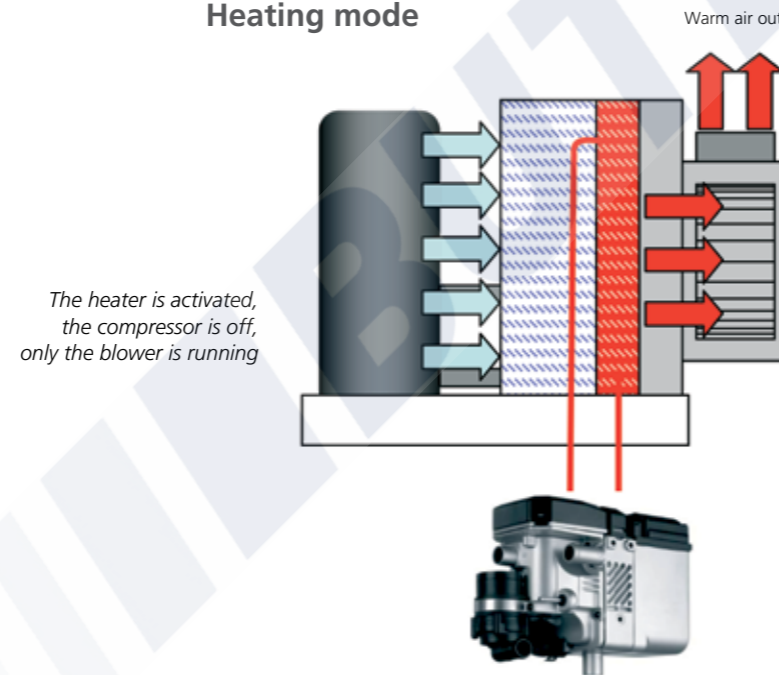
In a BlueComfort Classic system an A/C system and a water heater are integrated into one system.

The BlueComfort Classic units are equipped with a second heat exchanger which is connected to a diesel-fired water heater. In cooling mode, the water heater is off and only the A/C circuit is running. In heating mode the water heater is running, heating up the heat exchanger and thus the air passing through. In the "reheat" mode, the air is first cooled down and then heated up again, thus being dehumidified.

Cooling mode



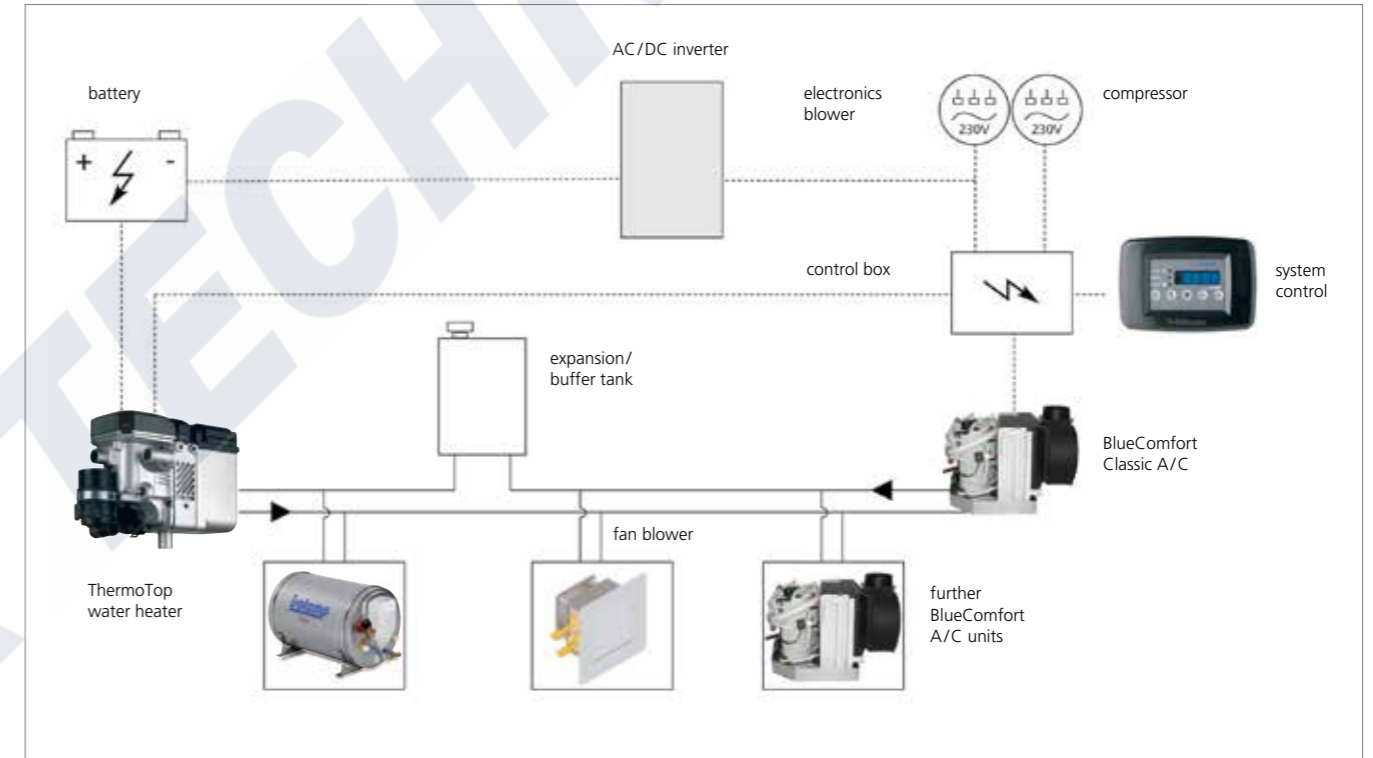
Heating mode



BlueComfort Classic

System set up

Example of a system set up

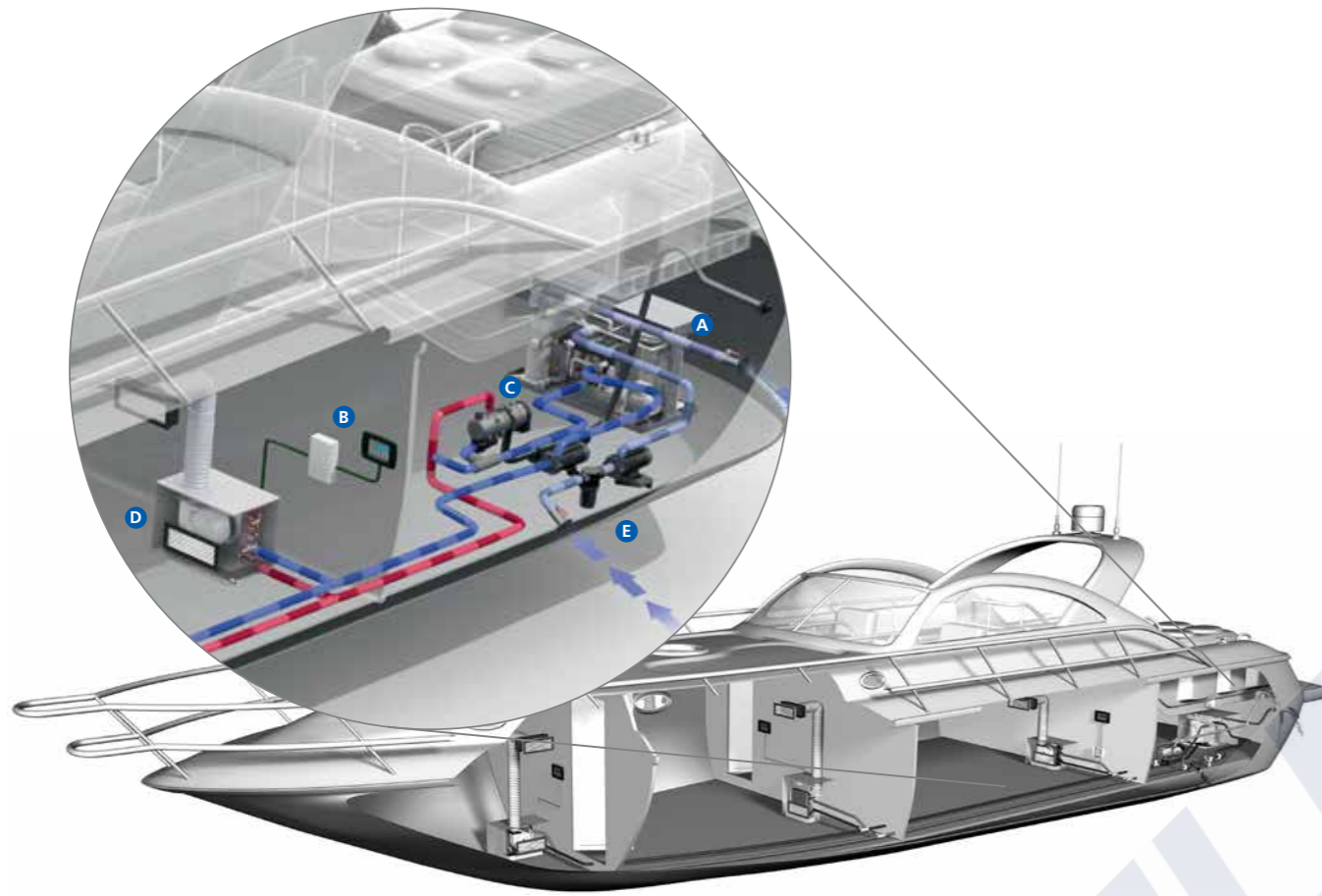


Technical specifications

| Webasto BlueComfort Classic 16 | |
|------------------------------------|-----------------|
| Performance (BTU/h) | 16,000 |
| Performance (kW) | 4.7 |
| Voltage (V) | 230 |
| Voltage (Hz) | 50/60 |
| Power consumption/start (A) | 5.5/12 |
| Net weight (kg) | 34 |
| Recommended seawater pump | WB500 |
| Blower output (m³/h) | 625 |
| Ø Condenser water connection (mm) | 16 |
| Dimensions L x D x H (mm) | 540 x 483 x 330 |
| Ø Air outlet (mm) | 125 |
| Suggested breaker (A) | 20 A |
| Diameter hot water connection (mm) | 20 |

BlueComfort Premium

Application concept



- A** Chiller A/C unit
- B** Cabin Control
- C** Heater
- D** Air Handler
- E** Sea Water Pump

BlueComfort Premium

Application guidelines

For a complete BlueComfort Premium system, please combine the following:

1. Chiller air-conditioner

Core unit

Please select the core unit according to the required cooling capacity, the available voltage and whether cool only or heating via reverse cycle is needed.

- Air-conditioning unit [SEE PAGE 92](#)

Position **A** as well as the following components are included in the scope of delivery:

- Electric cable and control box
- Operating manual
- Installation manual

Control elements for core unit

Please select the control elements for the core unit separately

- Display chiller control (Master control unit) [SEE PAGE 112](#)
- Display cable [SEE PAGE 113](#)
- Remote air temperature sensor [SEE PAGE 113](#)

Sea water circuit

Please order separately the components for the sea water circuit consisting of:

- Sea water inlet [SEE PAGE 128](#)
- Sea water pump [SEE PAGE 114](#)
- Overboard discharge [SEE PAGE 128](#)
- Sea water strainer [SEE PAGE 128](#)
- Closing valve [SEE PAGE 126](#)
- Water hose [SEE PAGE 122](#)

Chilled water circuit

Please add the required components for the chilled water circuit consisting of:

- Circulation pump [SEE PAGE 114](#)
- 3-way valve (optional) [SEE PAGE 126](#)
- Turn ball valve [SEE PAGE 126](#)
- Piping or hosing system with insulation [SEE PAGE 122](#)
- Expansion tank [SEE PAGE 126](#)

Cabin accessories necessary for each single cabin

Please add for every single cabin the following components and accessories:

- Air handler [SEE PAGE 104](#)
- Supply air grille [SEE PAGE 119](#)
- Air ducting [SEE PAGE 120](#)
- Transition box [SEE PAGE 120](#)
- Water hoses for condensation drain [SEE PAGE 127](#)
- Cabin control (Air control, display cable, temperature sensor and control box) [SEE PAGE 113](#)
- Return air grille [SEE PAGE 119](#)

2. Water heater

Select the right heater according to the table below

| Chiller air-conditioning cooling capacity | | | | | | | | | | | |
|---|---------------|--------|---------------|--------|--------|----------|--------|------------|---------|-------------|--|
| BTU/h | 12,000 | 24,000 | 32,000 | 40,000 | 48,000 | 60,000 | 78,000 | 90,000 | 108,000 | 126,000 | |
| kW | 3.5 | 7.0 | 9.3 | 11.7 | 14.0 | 17.6 | 23.0 | 26.5 | 31.7 | 37.0 | |
| Heater | Thermo Eco 50 | | Thermo Pro 90 | | | DBW 2010 | | DBW 2020 | | Thermo 3000 | |
| | | | | | | DBW 2016 | | Thermo 230 | | | |

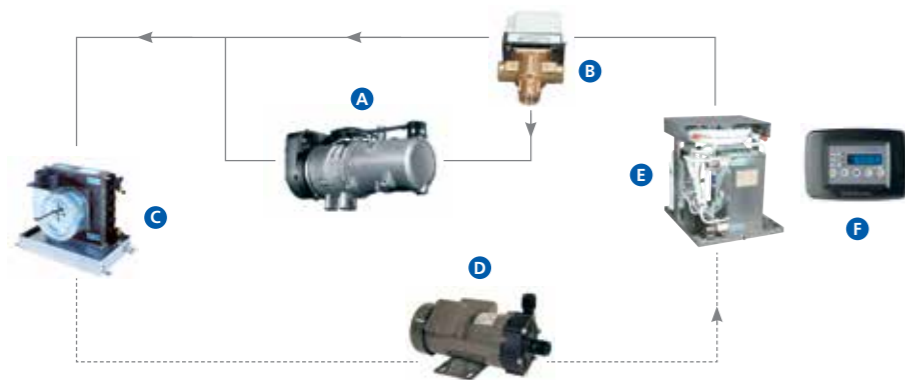
BlueComfort Premium

Basic integration

In a BlueComfort Premium system an A/C unit and a diesel-operated water heater are integrated into one system. The use of a water heater ensures full heating performance even at cooler sea water temperatures where the reverse cycle operation comes to its limits. In this integrated system the same water piping, air handlers, air ducting and cabin temperature control modules are used for both heating and A/C operation. For user friendliness, the main system is controlled via one control panel while each cabin has an individual temperature and blower speed control. The BlueComfort Premium system offers two integration options: the "Basic" and the "DeLuxe" integration depending on comfort requirements.

Basic integration

The Basic integration is simply **integrating a water heater with a 3-way valve into the chilled water system**. The valve ensures that no cold water is running through the heater which would cause condensation. Both, the heater and the 3-way motor valve are controlled by the A/C electronic control. A special heater with a lower temperature setting or additional thermostats are needed in order to limit the water temperature to 60 °C.



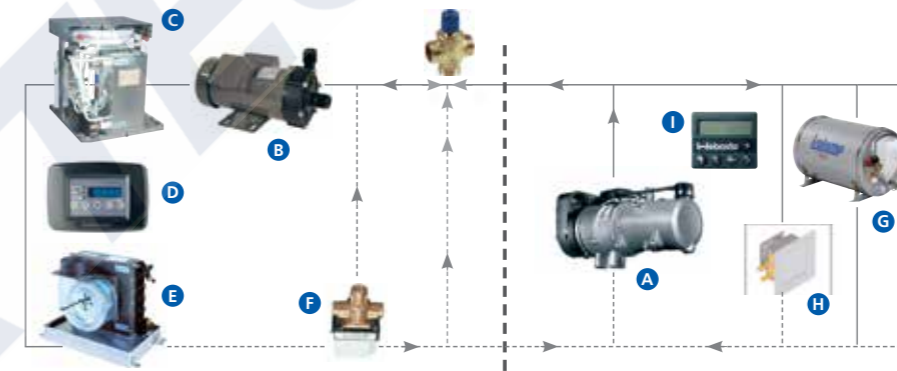
- A Water heater** Produces hot (60 °C) water when system switches to heating
- B 3-way valve** Switches between cooling or heating loop
- C Air handler** Warms up or cools down returning air
- D Water pump** Circulates the water
- E A/C chiller unit** Cools down the water when system switches to cooling
- F Chiller control** Controls the complete A/C system and the water heater
Starts the compressor when cooling is necessary
Starts the heater when heating is necessary

BlueComfort Premium

DeLuxe integration

DeLuxe integration

The DeLuxe integration has all the features of the **Basic integration but additionally allows the integration of a water boiler as well as further fan blowers or radiators into the system**. It therefore provides the highest comfort in heating and sanitary water supply. The mixing valve limits the water temperature in the A/C loop to 60 °C. A summer/winter switch allows heating of the boiler in summer while the A/C system is cooling the cabins at the same time.





For a perfect integration Webasto recommends Isotemp double coil boilers. Visit www.indelwebastomarine.com

- A Water heater** Produces hot (approx. 80 °C) water when system switches to heating
- B Water pump** Circulates the water
- C A/C chiller unit** Cools down the water when system switches to cooling
- D Chiller control** Controls the complete A/C system and the water heater
Starts the compressor when cooling is necessary
Starts the heater when heating is necessary
- E Air handler** Warms up or cools down returning air
- F 3-way valve** Switches between cooling or heating loop
- G Water boiler** Heats up the sanitary water
- H Blowers or radiators** can optionally be used in areas with extra high heating demand (e.g. windscreen for demisting)
- I Summer / Winter switch** Allows separate boiler operation in summer mode

BlueComfort accessories

For the chilled water system, the following key components are needed as well:

| | Basic Integration | DeLuxe Integration |
|---|---|---|
| 3-way motor valve  | Thermo Pro 90 Chiller & DBW 2010/2016/2020 use 3/4" motor valve WBCL000776 Thermo 230/300/350 use 1 1/2" or 2" motor valve, e.g. Belimo R340BL/R350BL + SR230A motor | Thermo Pro 90 chiller & DBW 2010/2016/2020 use 3/4" motor valve WBCL000776 Thermo 230/300/350 use 1 1/2" or 2" motor valve, e.g. Belimo R340BL/R350BL + SR230A motor |
| Thermostatic mixing valve  | | Thermo Pro 90 use 3/4" mixing valve DBW 2010/2016/2020 use 3/4" mixing valve Thermo 230/300/350 use 1 1/2" mixing valve |



Roof solutions

| | |
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| The finishing touch – custom roof blinds | 156 |
| Hercules blind customization possibilities | 157 |

Webasto marine roofs



Webasto offers a wide range of roof solutions, whether you are looking for a standard roof size with easy installation or a more customizable platform for your individual needs. As our customer you will additionally benefit from our technological leadership and knowledge brought over from our experience in the automotive sunroof industry.

Our standard solutions

Comfortable ready-to-go-platforms.

These are very economical solutions for more light and fresh air on board with a robust and proven construction. Our pre-mounted solution includes all necessary hardware allowing super quick and easy installation.

Compliment your roof with our elegant shading solution.

Together with Oceanair, Webasto has developed an elegant shading solution to compliment their range of large roof systems. Uniquely, this combined blind and flyscreen solution is UV resistant and fully marinated for life on the water.

Webasto engineering services

Add value to your boats and your brand image by developing your own roof system with us.

We create unique, exclusive roof systems that match your exact specifications. Our phased project approach guarantees you limited risks, a possible exit at any stage and of course joint teams and know-how transfer. Take comfort in knowing that you are involved in every stage, and have the opportunity to use our engineering and manufacturing capabilities for high quality results.

Marine engineering and technical services

Webasto has 30 years' experience in advanced automotive roof systems which we apply to marine: kinematics, advanced materials, water management and sealing systems. We turn your ideas into reality and guarantee high quality and outstanding product know-how. Phased project approach and joint teams enable know-how transfer to your engineers.

Add value to your boat and brand image

- Unique, exclusive roof systems to match your exact specifications
- Phased project approach: limited risk, possible exit at any stage
- Joint teams and know-how transfer
- Customer involved at every stage
- Opportunity to use Webasto engineering skills and manufacturing capabilities for high quality results

The success of our projects is based on three fundamental elements

- **Product visualization:** Translate ideas into visual concepts. Phased project approach allows frequent evaluation and limits the customers' risk.
- **Product development:** Translate visual into technical concept. Joint teams require strong customer involvement (marketing, R & D, manufacturing).
- **Product validation:** Prepare drawing package for suppliers and assembly. Highly valuable know-how transfer ensures best outcome of the project investments at every stage.

Service

- We ensure a global network with over 50 locations throughout the world via our subsidiaries, representatives and authorized service network
- We guarantee an international warranty and customer support based on our commissionings
- We offer global trainings and technical guidelines
- We guarantee a fast availability of spare parts
- We are at your location with our dedicated marine service team

Quality

- We benefit from the high automotive standards and related advanced technologies
- We deliver personalized solutions for individual customer needs
- We provide fully tested, pre-assembled and ready-to-be-mounted solutions
- We supply added-value accessories
- Our solutions are highly engineered

Competence

- Our teams are made up of marine specialists and technical experts
- We can support our customers with any kind of commissioning
- Our innovations are the result of open communications and close partnership with our customers

A roof solution for every boat

Roof references

The 20-Series



A very economical manual or electrical sliding roof for more light and fresh air on board. The roof is fully tested and pre-assembled including all necessary hardware allowing quick and easy installation.

- Standard roof with large opening
- Watertight sealing
- Robust and proven construction
- Manual or electrical operation
- Stepless locking system

Economical and robust roof for more light on board

The 40-Series



This roof platform offers a sleek, low profile design to be able to fit in smaller boats. The roof is electrical operated, extremely quiet, and is delivered fully assembled, tested and ready to be installed.

- Attractive design with safety glass
- Watertight sealing
- Fast and simple installation
- Robust and quality-tested design
- Optional fixed glass panel for panoramic views

Standard electric marine sliding sunroof

The 60-Series



This series offers multiple customization options for a perfect fit. The roof is delivered fully tested, pre-assembled and ready-to-be-mounted at the shipyard thus resulting in significant cost saving for the boat builder.

- Customizable roof system
- Watertight sealing
- Robust and proven construction
- Electrical operation
- Smooth automotive style mechanism

The easy, ready-to-be mounted solution

The 80- & 120-Series



Roof design for extra large glass and composite panels

A completely dedicated roof solution whereby application engineering and a close cooperation with the shipyard is required. The roof is delivered fully tested, pre-assembled and ready-to-be-mounted.

- Fully integrated roof design
- Watertight sealing
- Very large dimensions and opening
- Selection of different panel materials
- Double curved solution is possible

The 150-Series



Exclusive double-curvature roof models

A perfect solution for demanding roof projects. The fully integrated roof consists of a moving and a fixed panel. The panels are fully flush and the double curvature allows extra ordinary design possibilities.

- Fully integrated roof design
- Watertight sealing
- Selection of different panel materials
- Extra large dimensions and opening
- Sliding panel is tilting at rear and front side

The Soft Top



Exclusive automotive style folding roof

The Soft Top benefits from the automotive folding roof technology resulting in an elegant and luxury design. The system is available in 3 sizes and the fabric can be offered in various colors.

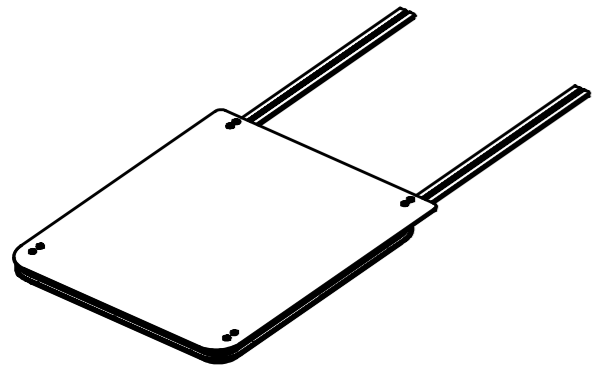
- Exclusive automotive style folding roof
- 3 standard sizes or dedicated dimensions
- Various colors for the fabric
- Fabric on the inside and outside
- Smooth automotive style mechanism

20-Series specifications

One size fits all

Select options

- Sunblind/flyscreen
- Also electrical version available



Technical specifications

| | 20-Series |
|--------------------------|--|
| Frame material | Aluminum |
| Panel material | 8 mm tempered safety glass/grey tinted |
| Sliding rail material | Aluminum |
| Overall dimensions | 1,995 x 1,010 mm |
| Cut-out length (L1) | 1,010 mm |
| Cut-out width (W1) | 955 mm |
| Corner radius (FRC, RCR) | 80 mm |
| Operation mode | Manual, stepless locking |
| Opening dimension | 800 x 800 mm |
| Weight | approx. 45 kg |

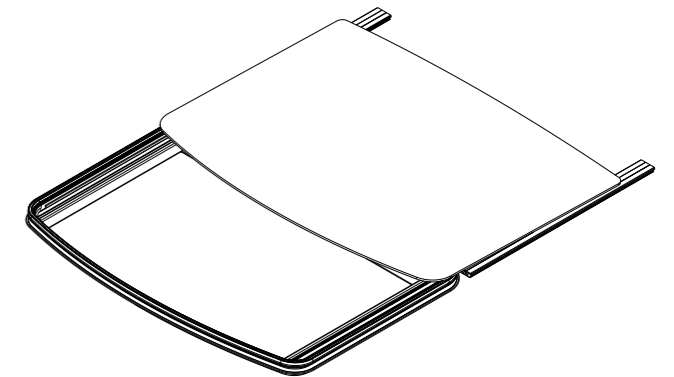
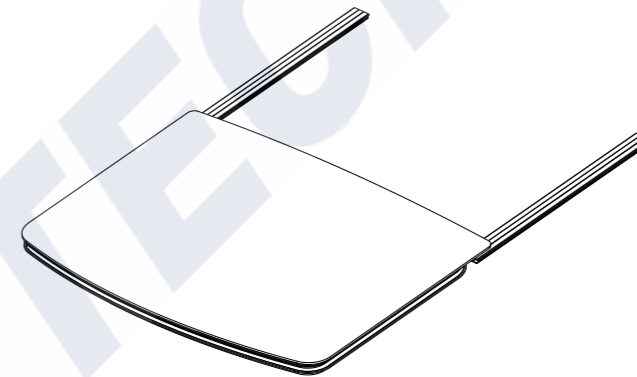
Technical specifications are subject to change without prior notice

40-Series specifications

A perfect fit

Select options

- Fixed panel
- Sunblind/flyscreen
- Motor cover



Technical specifications

| | 40-Series |
|--------------------------|---|
| Frame material | Aluminum |
| Panel material | 8 mm tempered safety glass/grey tinted |
| Sliding rail material | Aluminum |
| Overall dimensions | 1,665 x 1,379 mm (1,865 x 1,379 with fixed panel) |
| Cut-out length (L1) | 915 mm |
| Cut-out width (W1) | 1,320 mm |
| Corner radius (FRC, RCR) | 80 mm |
| Cross radius (R2) | 7,620 mm |
| Front radius (R3) | 2,032 mm |
| Operation mode | Electrical 12 V DC |
| Opening dimension | 624 x 1,172 mm |
| Weight | approx. 65 kg |

Technical specifications are subject to change without prior notice

60-Series customization possibilities

5 steps to customize your roof

- 1 Select roof type:
 - Top mount
 - Flush integrated
- 2 Define dimensions:
 - Length
 - Width
 - Curvature
- 3 Select panel design:
 - Acrylic
 - Glass
 - Sandwich
- 4 Select frame finish:
 - Anodizing
 - Powder coating
- 5 Select options:
 - Motor cover
 - Fixed panel
 - Sunblind/flyscreen
 - 24 V DC (12 V DC is standard)

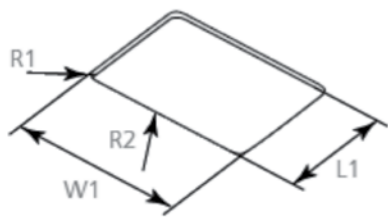
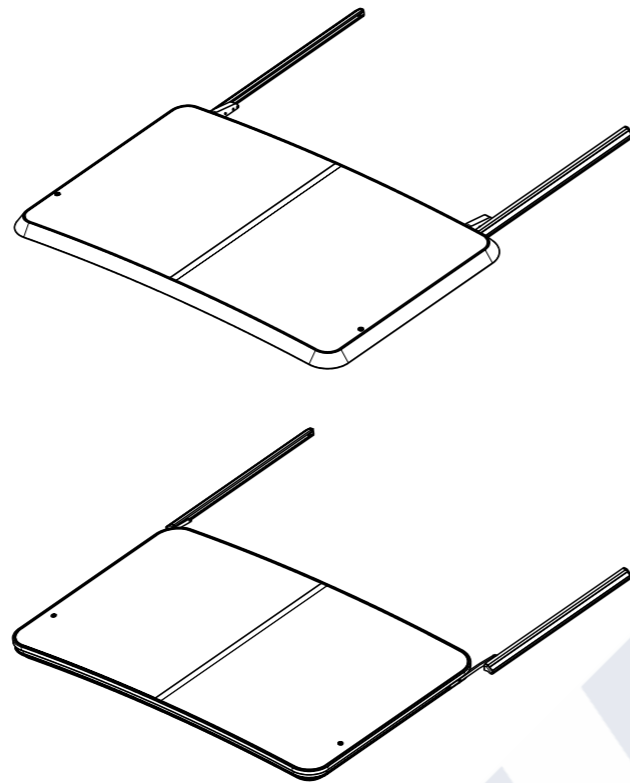


Figure 1

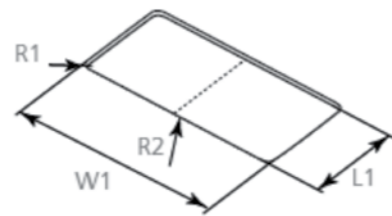


Figure 2

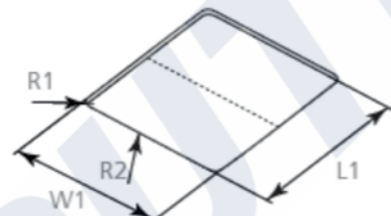


Figure 3

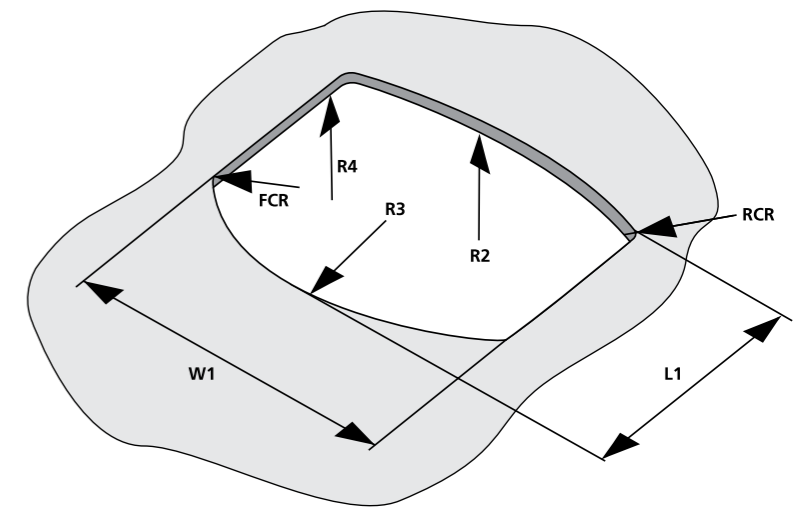
Technical specifications

| Maximum cut-out size dimensions for our customized roofs | | Max. length L1 (mm) | Max. width W1 (mm) | Corner curvature R1 (mm) | Min. cross curvature R2 (mm) |
|--|---|---------------------|--------------------|--------------------------|------------------------------|
| Figure 1 | Roof without cross beam | 1,100 | 1,100 | 80 | 7,500 |
| Figure 2 | Roof with cross beam in sliding direction | 1,100 | 1,800 | 80 | 7,500 |
| Figure 3 | Roof with cross beam perpendicular to sliding direction | 1,500 | 1,100 | 80 | 7,500 |

80-/120-Series customization possibilities

5 steps to customize your roof

- 1 Select panel design:
 - Glass
 - GRP
 - Sandwich
- 2 Select roof shape:
 - Square
 - D-shape
- 3 Define dimensions:
 - Length
 - Width
 - Curvatures
- 4 Select design:
 - Glass color
 - Frame color
- 5 Select options:
 - Fixed panel
 - Sunblind/flyscreen
 - 24 V DC (12 V DC is standard)



Technical specifications

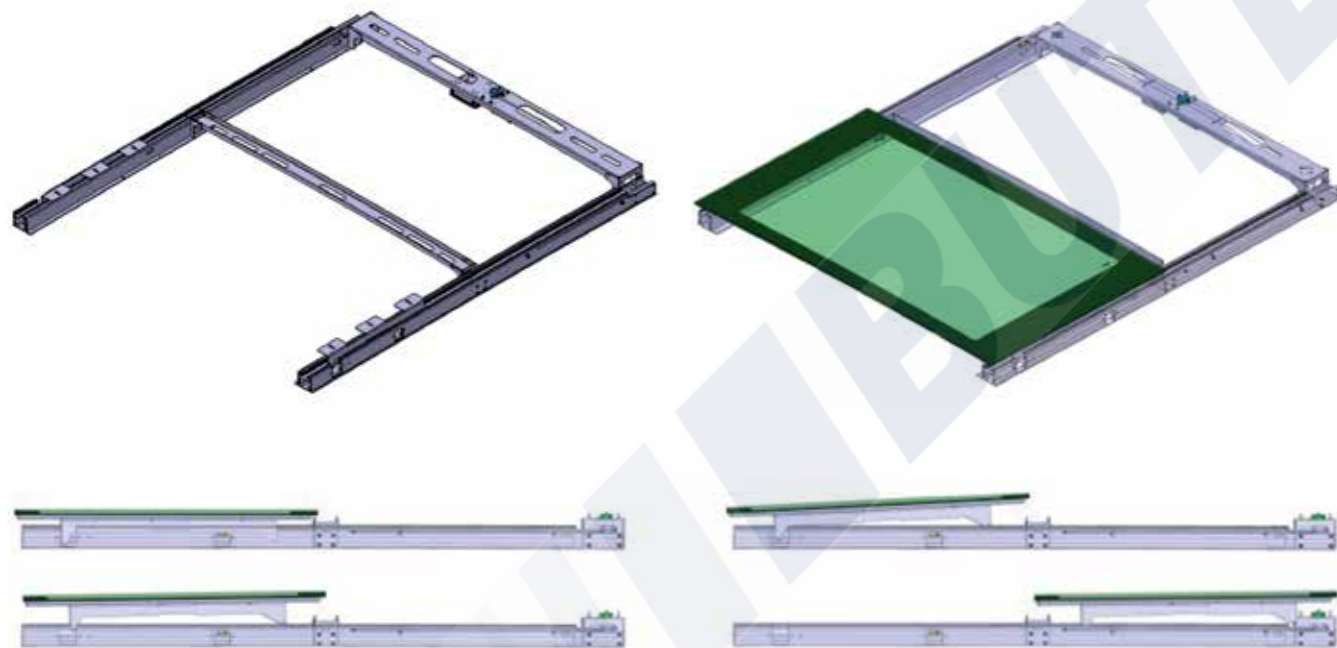
| Dimension code | Description | Glass | GRP | Sandwich |
|----------------|-----------------------|------------------|------------------|------------------|
| W1 | Maximum width | 2,750 | 2,750 | 2,750 |
| L1 | Maximum length | 1,900 | 2,400 | 1,900 |
| R2 | Minimum cross radius | 7,500 | 7,500 | 7,500 |
| R3 | Minimum front radius | 2,500 | 2,500 | 2,500 |
| R4 | Minimum length radius | N.A. | 5,000 | N.A. |
| FCR | Front corner radius | Mitred or R = 80 | Mitred or R = 80 | Mitred or R = 80 |
| RCR | Rear corner radius | Mitred or R = 80 | Mitred or R = 80 | Mitred or R = 80 |

Remark: All dimensions are in mm
 Maximum dimension of glass and GRP panel is defined by maximum weight of 80/120 kg
 Glass panel and Sandwich panel only have a cross radius (single bended)
 Glass panel and Sandwich panel have fixed radius of: 7,500; 10,000; 15,000; 30,000 mm

150-Series II customization possibilities

Full flush & extra large solution

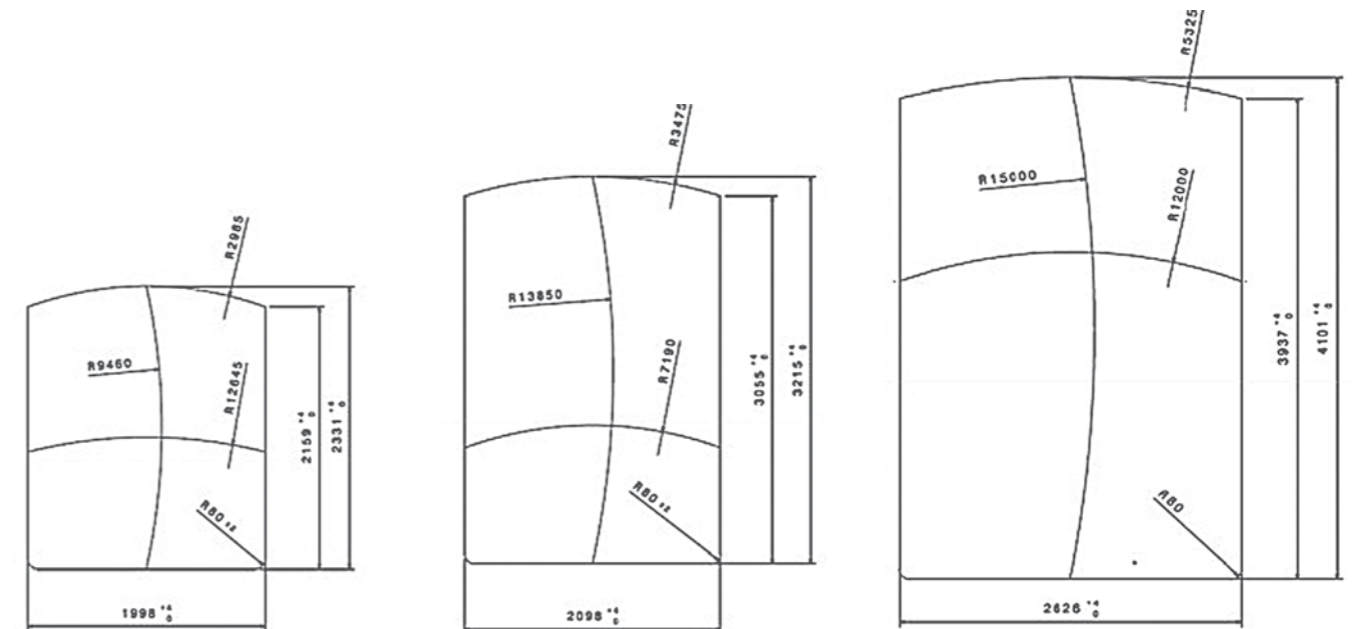
- 1 Select panel design:
 - Glass
 - GRP
 - Sandwich
- 2 Define dimensions:
 - Length (total system app. 4,000 mm)
 - Width (total system app. 2,500 mm)
 - Curvatures
- 3 Technical specifications:
 - Frame Stainless steel construction. Laser cut & welded
 - Seal Inside seal fixed to GRP Hard Top for 100 % water tightness
 - Mechanism Tilting and sliding mechanism fixed to frame parts. Mechanism is including fixation brackets for the panel
 - Drive system 24 V DC motor fixed onto the frame part and connected to mechanism
 - Panel Front and rear panel
 - Manual override Special key to operate the roof manually (e.g. in case of power failure)



Soft Top specifications

3 standard sizes

- 1 Standard sizes:
 - 2 Fold
 - 3 Fold
 - 4 Fold
- 2 Customization possibilities:
 - Within the above 3 standard sizes it is possible to change width, front-, cross- and length-curvature. The overall length is directly related to the amount of folds and the front curvature and width.
 - Color of inside and outside fabric



Please refer to our separate marine roof brochure for an overview of our roof references.

BlueSky Hatch:

New unique, electric sliding hatch

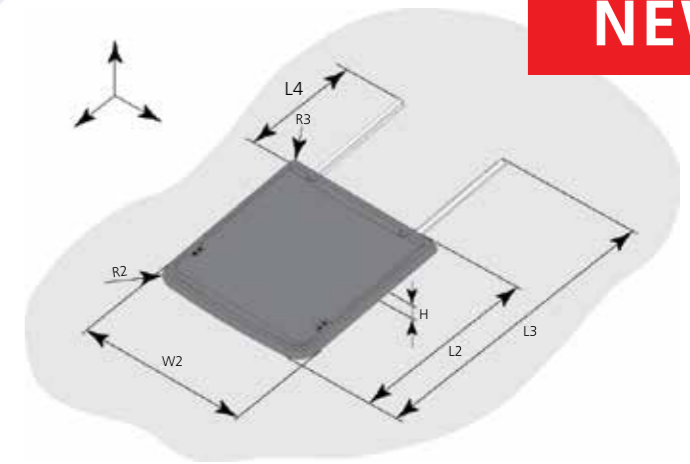
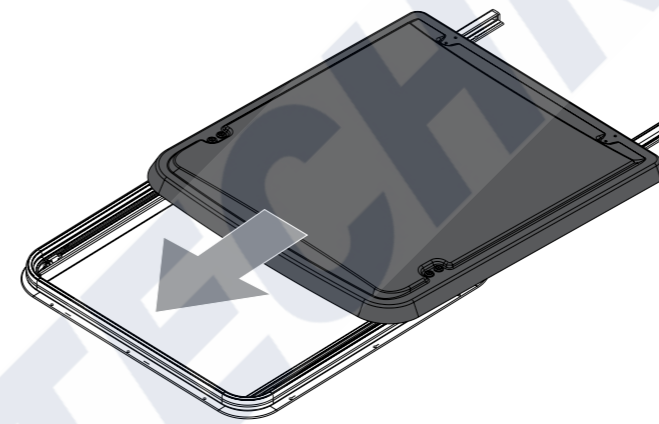
The electric sliding hatch is designed for use on the wheelhouse or cockpit canopy of a power craft. The panel is made from two acrylic shells with a screen print resulting in a modern design, light weight and improved insulation. This construction is unique in the marine industry.

Thanks to the electrical operation the hatch is easy to use and the panel can be stopped in any desired position. The tilting and sliding mechanism in combination with the seal ensures full water tightness.



Webasto BlueSky Hatch

- Electric: smooth operation ensures more comfort
- Simple: plug-and-play installation resulting in short installation times
- Comfortable: insulated panels for less heat inside the boat
- Modern: attractive look of the panel
- Variable: tilting and sliding mechanism
- Compact: the selected dimension ensure a good and easy fit on the wheelhouse or cockpit canopy.



| Description | BlueSky |
|---|---|
| General | |
| Operation | Electric withRocker switch |
| Operation voltage (DC) (V) | 12 |
| Installation method | Frame and rails screwed on deck / roof / surface |
| Frame materials | Aluminium, Anodized |
| Panel | Acrylic with screen print. Double layer, 2 x 3 mm |
| Motor cover | Aluminium, Anodized |
| Allowable temperature (°C) | -10 to +75 |
| Possibility to use as escape hatch | No |
| Design category according to ISO 12216 | Category B |
| Application Area according to ISO 12216 | Area III |
| Cut out dimensions | |
| L1 Length (mm) | 770 +0 / +4 |
| W1 Width (mm) | 720 +0 / +4 |
| Longitudinal curvature (mm) | Uncurved |
| R1 Corner radius (mm) | 65 ±2 |
| Cross curvature (mm) | Uncurved |
| Dimensions | |
| L2 Length (mm) | 922 |
| L3 Overall length (mm) | 1490 |
| L4 Rear rail length (mm) | 630 |
| W2 Width (mm) | 810 |
| H Height (mm) | 60 |
| Longitudinal curvature (mm) | Uncurved |
| R2 Front corner radius (mm) | 100 |
| R3 Rear corner radius (mm) | 45 |
| Cross curvature (mm) | Uncurved |
| Panel displacement | |
| tilt (Z-direction) (mm) | 38 |
| slide (X-direction) (mm) | 545 |
| Weight | |
| (kg) | 14 |
| Optics | |
| Colour panel | Dark grey tinted |
| Interior | Blank anodised |

The finishing touch – custom roof blinds



Sky screen pleated for 20-Series

- Perfect fit: Dedicated dimension for 20-Series and available in 2 colours.
- Integrated flyscreen: Allows for cabin ventilation whilst keeping the insects out.
- UV protection: Essential overhead shading from direct sunlight, providing energy efficient light and temperature control.
- Quick and easy to install: Pre-assembled, surface mount, robust aluminium frame with concealed mounting holes.

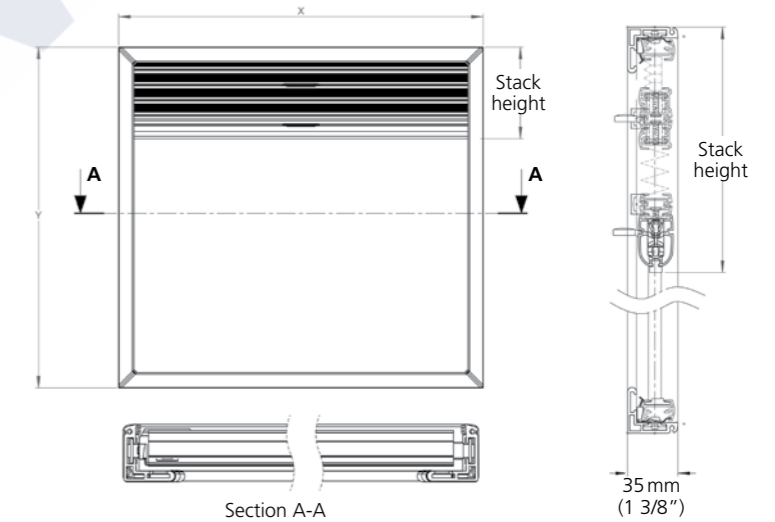
Hercules blind

- Robust: Use of intermediate bars leaves for a cordless and safe open aperture.
- Large dimensions: Designed to complement Webasto's wide range of roof systems.
- Integrated flyscreen: Allows for cabin ventilation whilst keeping the insects out.
- UV protection: Essential overhead shading from direct sunlight, providing energy efficient light and temperature control.
- Fully customizable: System is offered in various configuration possibilities and colours.
- Quick and easy to install: Full frame system, pre-assembled before installation.

Hercules blind customization possibilities

Three steps to customize your blind

- 1 Select frame design:
 - Blind & flyscreen – Double ended
 - Blind & flyscreen – Single ended
 - Blind only – Single ended
 - Flyscreen only – Single ended
- 2 Select fabric colour:
 - White
 - Ivory
 - Straw
 - Beige
- 3 Define dimensions:
 - Drop (max. 2,800 mm)
 - Width (max. 2,400 mm)
 - Curvature (min. 7,500 mm)



D-shape solutions

- In case a rectangular shape is not feasible in the interior design a dedicated D-shape solution can be offered.
- The fabric types and colours of a D-shape solution are the same as for the rectangular version.
- The exact shape and dimensions of a D-shape solution will be defined during the application development.
- A D-shape solution requires a much earlier boat design consideration of the stowage area.

A joint development by Webasto and

OCEANair

Elegance : Engineered

Nomenclature

In order to define descriptive technical abbreviations for our air conditioner and our air handler units, Webasto introduced a special nomenclature for the price list.

Air-conditioning units nomenclature

Air-conditioning model abbreviations:

S = Self-Contained (BlueCool S-Series) C = Chiller (BlueCool C-Series)

Example: C55T-R-230V-REV-R410A = Chiller 55,000 Twin Rotary compressor 230 V reversible refrigerent R410A

| | | | | | | |
|----------|--------------|----------|-------------|--------------|---------------------|---------------|
| C | 55 | T | -R | -230V | -REV | -R410A |
| C-Series | 55,000 BTU/h | Twin | Rotary comp | Voltage | REV = reverse cycle | refrigerent |

SC = Self-Contained (BlueCool Classic)

Example: SC5EU-REV = Self-Contained 5,000 230 V reversible

| | | | |
|---------------|-------------|------------|---------------------|
| SC | 5 | EU | -REV |
| Selfcontained | 5,000 BTU/h | EU = 230 V | REV = reverse cycle |

P = Professional Chiller (BlueCool P-Series)

Example: P60M-S-400V-REV-R407C = P-Series Chiller 60,000 Mono Scroll 400 V reversible refrigerent R407C

| | | | | | | |
|----------|--------------|----------|------------------|---------------|---|---------------|
| P | 60 | M | -S | -400 V | -REV | -R407C |
| P-Series | 60,000 BTU/h | Mono | S = Scroll comp. | Voltage | REV = reverse cycle COOL = Cool only | refrigerent |

Air handler nomenclature

Air handler model abbreviations:

CO = Compact TH = Tan Horizontal TV = Tan Vertical SV = Slim Line Vertical SH = Slim Line Horizontal

There are 3 possible options that may be installed/mounted on a standard air handler unit at the factory before shipment:

Air handler option abbreviations:

FC = Danfoss – 3 WAY VALVE 15 mm KIT

EH = AC 230 V HEAT FOR AIR HANDLER (Codes: WBCL000794 to WBCL000798) – AC Heat is abbreviated by EH + value of heating power, e. g. 1,000 for 1,000 W

LAT = Lateral Exit/orientation of blower on a Crossflow unit – only available on Tangential/Crossflow models!

Example: TH12EU-FC-EH1000-LAT

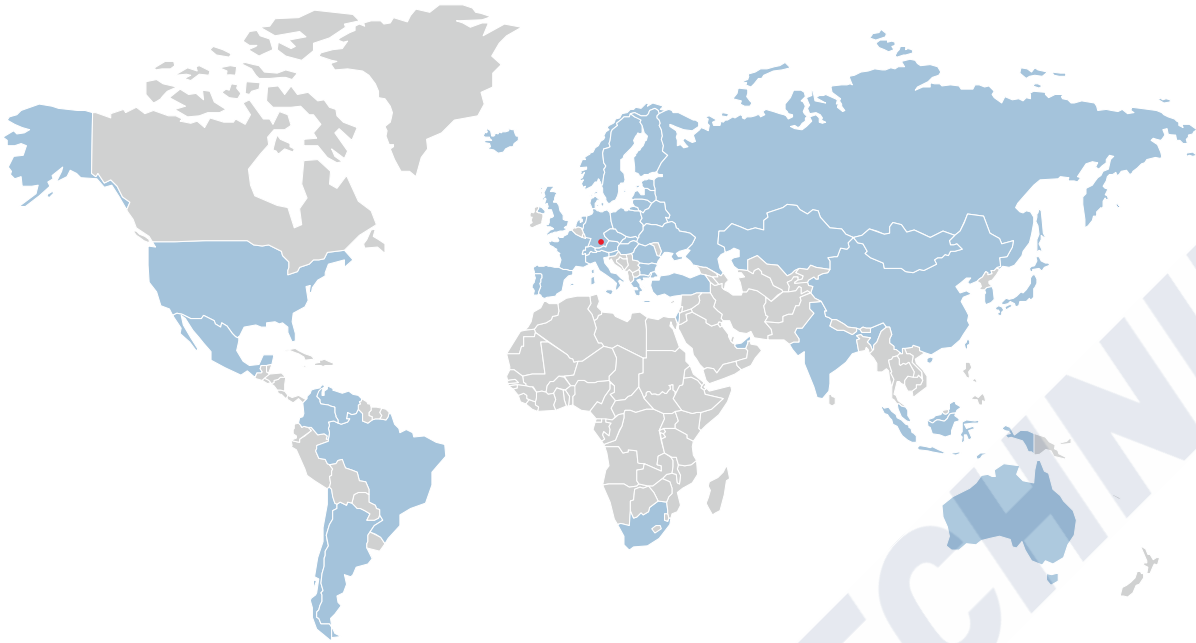
| | | | | | | |
|-------------------|--------------|------------|------------------|-------------------------|--------------------|------------|
| TH | 12 | EU | -FC | -EH1000 | -LAT | AS |
| Air Handler Style | 12,000 BTU/h | EU = 230 V | FC = 3-way valve | Electrical heat 1,000 W | Blower Orientation | Antisplash |

More examples:

CO30EU-EH2250/TH4US-FC-LAT/TV9EU-FC-EH1000/SV16US/SH20EU-FC-EH1500

In General: codes are only added if option is included, e.g. FC for 3-way valve!





For more than 75 years, the Webasto SE has continued to set new technological standards – in both the original equipment sector and the aftermarket. As one of the 100 biggest suppliers in the automotive industry worldwide, we develop and produce roof, convertible as well as heating, cooling and ventilation systems. Our products help provide a better atmosphere on the road, more comfort and security, as well as increased efficiency for cars, commercial and special vehicles, motor homes and boats. An outstanding network of production facilities and dealers guarantees high-quality products, installation standards and services worldwide.