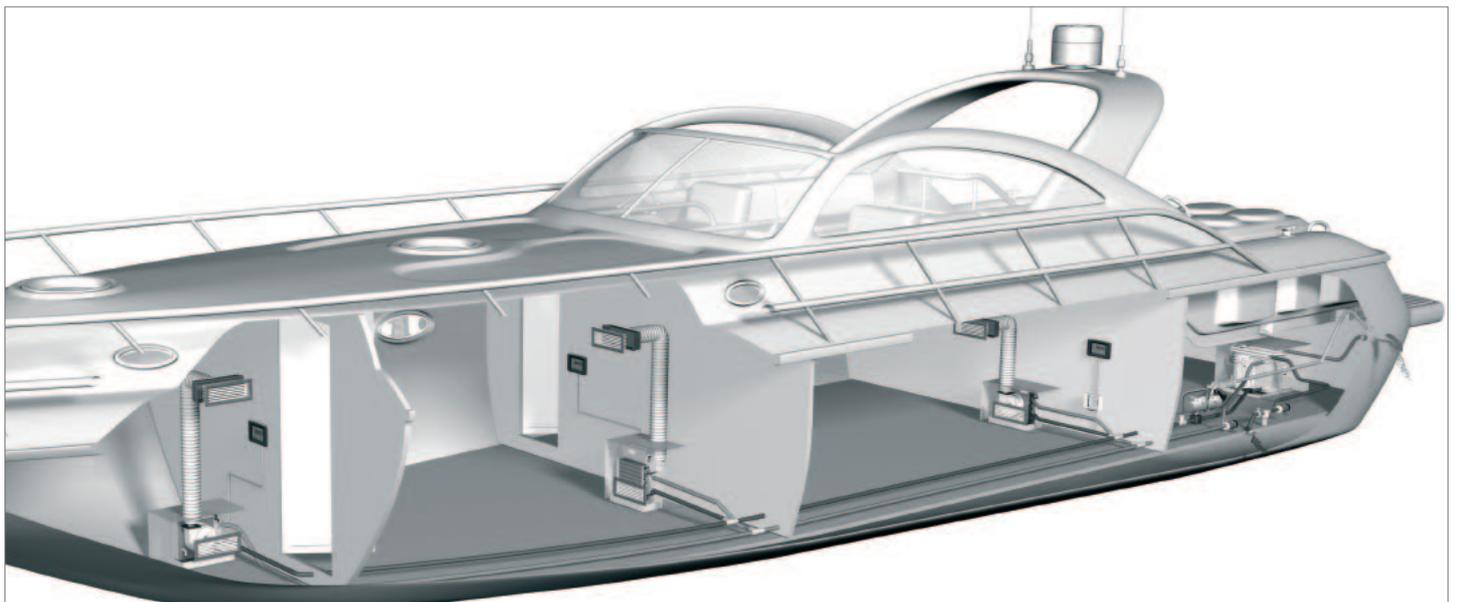


## BlueComfort Premium

Integrated heating and cooling solution in one system



The Webasto BlueComfort Premium guarantee a complete climate control by integrating a heating and a cooling solution into one system. It consists of a chiller system and a water heater.

The system enables heating on board while sailing and guarantees a fast warm-up of the cabin independently of the sea water temperature. An advantage compared to most air conditioning systems which use a reverse cycle function to heat with an A/C system and become inefficient by sea water temperatures below 6 °C.

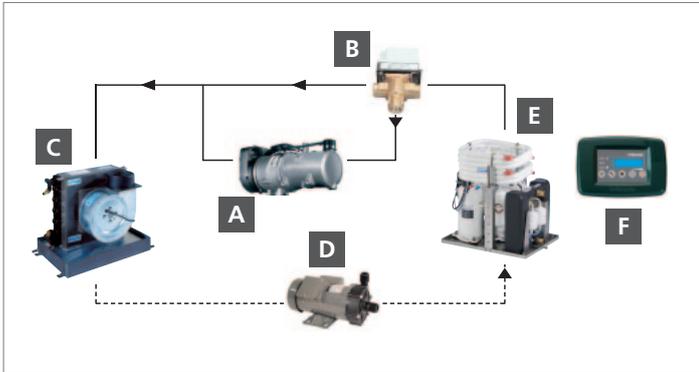
The use of a water heater ensures full heating performance even at cooler sea water temperatures where the reverse cycle operation comes to its limits. In this integrated system the same water piping, air handlers, air ducting and cabin temperature control modules are used for both heating and A/C operation.

- **Combined heating and cooling solution providing comfort in any weather condition**
- **Flexible control system operation**
- **Modular concept allowing multiple configurations**
- **Full range of solutions for any size of boat**

## Integration options:

### Basic integration:

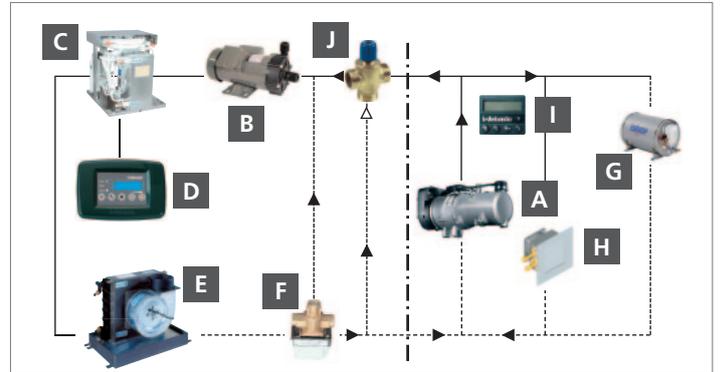
The Basic integration is integrating a customised water heater with a 3-way-valve into the chilled water system of the air conditioner.



- 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 for the complete system
  - Starts the compressor when cooling is necessary
  - Starts the heater when heating is necessary

### DeLuxe integration:

The DeLuxe 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.



- A** Water heater produces hot (70°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
- J** Mixing valve mixes hot and cold water to ensure that 60°C hot water is going to the air handlers in heating mode

### Control element:



Digital control