

Compact chiller systems

BlueCool C-Series



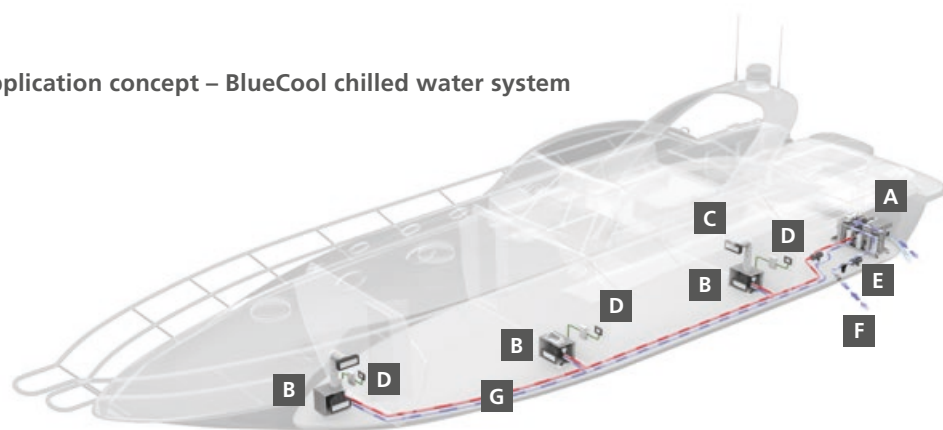
Chiller systems are suitable for boats with several cabins. Whenever three or more independent areas in a yacht need to be air-conditioned, a central chiller system is the right choice. The chiller unit is typically placed in the engine room, providing chilled water/glycol to all cabins via the chilled water circuit. One or several air handlers are fitted in each cabin providing the required cooling capacities to the rooms. The system offers one control for the unit itself as well as separate panels for each cabin.

Optional vibration dampers as well as soft start devices allow further optimization of the application.

Key benefits at a glance:

- 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
- Cooling and heating via reverse cycle function as a standard
- High quality epoxy paint protection

Application concept – BlueCool chilled water system



- A** Chiller A/C unit in the engine room
- B** Fan-type air handler
- C** Cold-air outlets
- D** Control box with MyTouch display
- E** Sea water pump
- F** Sea water cooling circuit
- G** Chilled water circuit

Technical specifications

| Model | C16 M | C20 M | C27 M | C32 T | C40 T | C55 T | C81 R | C108 Q |
|--|--------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| 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 |
| Heating via reverse cycle integrated | yes | yes | yes | yes | yes | yes | yes | yes |
| 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 – 8.1 | 8.6 – 9.2 | 8.8 – 12.0 | 14 – 16 | 17 – 18 | 26 – 28 | 34 – 37 |
| Current draw Start max. peak (A) | 54 | 60 | 77 | 60 | 68 | 87 | 97 | 107 |
| Sea water connection (mm/“) | 19 3/4 | 19 3/4 | 19 3/4 | 19 3/4 | 25 1 | 25 1 | 32 1 1/4 | 1 1/4 F BST |
| Minimum sea water flow at 50 Hz (l/min.) | 14 | 17 | 21 | 28 | 34 | 42 | 63 | 84 |
| Minimum sea water flow at 60 Hz (l/min.) | 17 | 20 | 25 | 34 | 41 | 50 | 75 | 100 |
| Refrigerant quantity R410a (g) | 480 | 650 | 750 | 2 x 480 | 2 x 650 | 2 x 750 | 3 x 750 | 4 x 750 |
| Dimensions unit (L x D x H) (mm/inch) | 390 x 290 x 355 15.4 x 11.4 x 14 | 440 x 330 x 360 17.3 x 13.0 x 14.0 | 440 x 330 x 395 17.3 x 13.0 x 15.6 | 590 x 410 x 500 23.2 x 16.1 x 19.7 | 590 x 410 x 500 23.2 x 16.1 x 19.7 | 590 x 410 x 550 23.2 x 16.1 x 21.7 | 870 x 430 x 575 34.3 x 16.9 x 22.6 | 860 x 640 x 600 33.9 x 22.4 x 23.6 |
| Dimension electronic box (L x D x H) (mm/inch) | 502 x 305 x 137 19.8 x 12.0 x 5.4 | 502 x 305 x 137 19.8 x 12.0 x 5.4 | 502 x 305 x 137 19.8 x 12.0 x 5.4 | 502 x 305 x 137 19.8 x 12.0 x 5.4 | 502 x 305 x 137 19.8 x 12.0 x 5.4 | 502 x 305 x 137 19.8 x 12.0 x 5.4 | 612 x 379 x 127 24.1 x 14.9 x 5.0 | 612 x 379 x 127 24.1 x 14.9 x 5.0 |
| Weight core unit (kg) | 34 | 37 | 45 | 65 | 70 | 86 | 119 | 173 |
| Weight electronic box (kg) | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 7 |



BlueCool MyTouch Display

The BlueCool MyTouch display is the new standard display for all BlueCool A/C Series:

- Full color, high resolution, interactive 2,4“ touch screen
- Multiple customization options available (design, colors, language, photos, etc.)
- Protected: full access to system configuration parameters
- Compatible with Vimar Eikon, Eikon EVO, Plana, Bticino Axolute



BlueCool Export Tool

BlueCool Export Tool suitable for all BlueCool AC units:

- Plug and Play USB connection
- Easy parameter setting
- Real time monitor function
- Continuous data logging
- Manual activation of single components (pumps, compressors, 4/2 way valve etc.)
- Possible remote access via internet