## Which Is the Right Air-Conditioning <br> 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 6,000 BTU/h up to 1,000,000 BTU/h.


BlueCool Self-Contained Units


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

BlueCool Chiller Systems


- Large power range to fit any size of boat or superyacht
- Best in marine $A / C$ : Ability to provide adequate cooling wherever it is needed
- Ideal basis for our integrated BlueComfort solutions


## BlueCool Air Handlers



- Modular concept enables greatest possible flexibility
- Uses minimal space in cabins since air handlers are smaller than self-contained units
- Three construction forms Compact, Slimline and Low Profile feature an especially compact, slim and flat design of the A-Series

Example: You own a yacht and would like to aircondition a room of 5 m (length) $\times 5 \mathrm{~m}$ (width) $\times 2 \mathrm{~m}$ (height).

Step 1: Define the category of the cabin
Category 2
Determine the category of the cabin. We give an example for a cabin with an average glass area, for example a deck saloon.

## Step 2: Define the net volume

Determine the net volume of the room ( $5 \mathrm{~m} \times 5 \mathrm{~m} \times 2 \mathrm{~m}=50 \mathrm{~m}^{3}$; subtract $20 \%$ for furniture in the room; $50 \mathrm{~m}^{3}-10 \mathrm{~m}^{3}=40 \mathrm{~m}^{3}$; If you want to air condition the whole boat, please calculate the sum of your rooms.

Step 3: Define your climate region
Normal 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.

## Step 4: Identify your cooling requirements

20,000 BTU/h
Result: You need an air conditioning system with a $20,000 \mathrm{BTU} / \mathrm{h}$ cooling capacity.

Step 5: Decide between a self-contained and chiller system
BlueCool S20
Depending on the demands you can decide on a self-contained or chiller system with a cooling capacity of $20,000 \mathrm{BTU} / \mathrm{h}$.


For precise BTU calculations, please use our Marine specification and calculation tool, available on the dealer portal at
http://dealers.webasto.com

## The Right Cooling Capacity



For extreme climatic conditions such as the Persian Gulf with sea-water temperatures of $32^{\circ} \mathrm{C}$ and air temperatures of $40^{\circ} \mathrm{C}$, 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.

