Vega MK 3



Instruction and Operation Manual

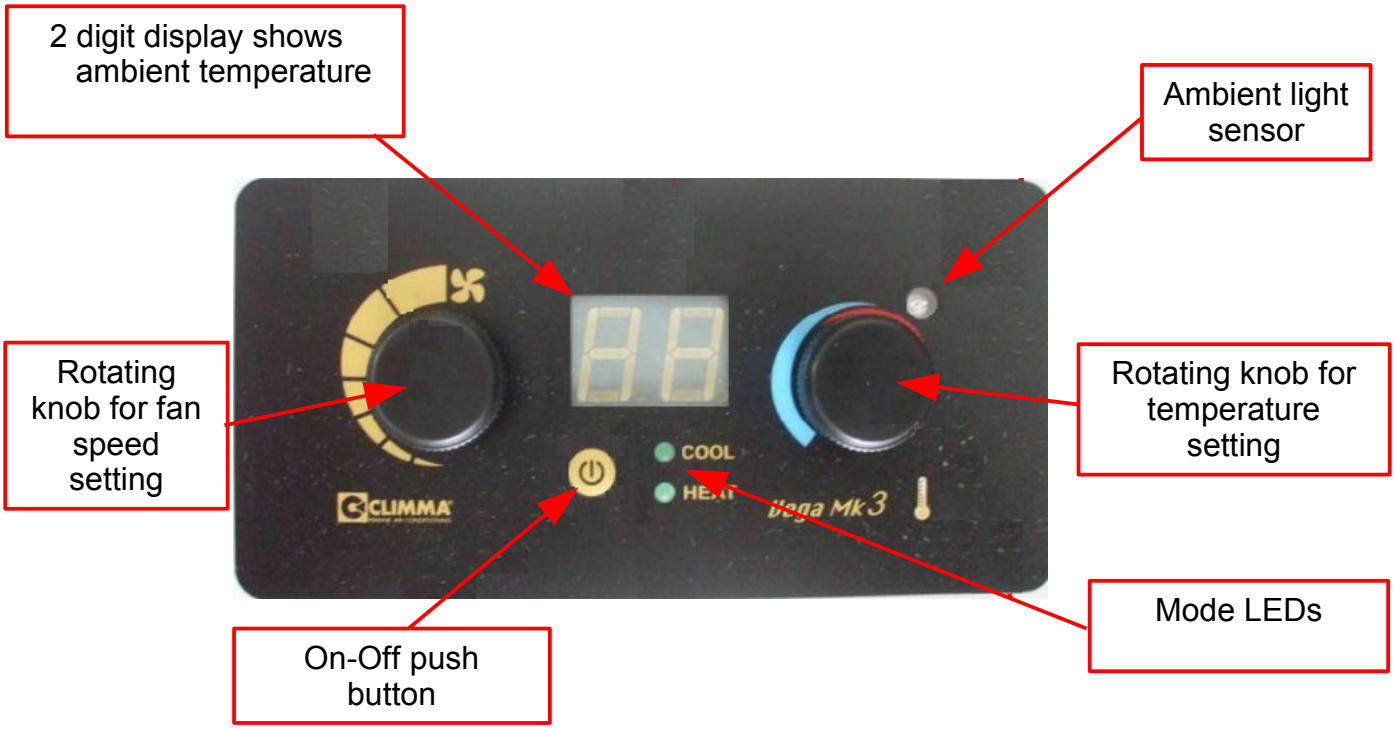
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USER MANUAL FOR MK3 PANEL - COMPACT & SPLIT UNITS

MK3 is a control system with innovative features for Climma independent units:
a) Large digital display
b) Simple settings by means of two rotating knobs
c) On-Off with a single push button
d) 8 manual fan speeds plus automatic - Manually selectable
e) Automatic selection of functioning mode - Cool or Heat
f) Automatic dimming of display and LED's
g) Temperature sensor incorporated in the panel. Remote sensor optional



AIR- CONDITIONER ON-OFF

A simple push of the button starts (or stops) the air-conditioner. The start is confirmed by either the Cool or Heat LED. An LED in the bottom right corner of the display shows that the compressor is running.

The system is equipped with a timer to prevent compressor starts occuring too soon after stopping, and causing nuisance trips of the breaker. In this situation the system will wait for the prescribed time and then the compressor will start automatically. A time-out is indicated by an LED in the bottom-right of the display.
When it is blinking, the compressor is on time delay; when it is steady the compressor is running.



TEMPERATURE SETTING

The right side rotating knob is for adjusting the temperature set point. Touching the knob will immediately show the current temperature set point on the display. Rotating the knob will change the value. When the knob is released, the display will blink and memorize the new value and then revert to showing the ambient temperature.



The temperature set point can be adjusted between 65°F and 86°F (18C - 30C)

FAN SPEED SETTING

The left rotating knob is used to set the fan speed. Touching the knob will immediately show the actual speed setting on the display. Rotating the knob will change the value. As you release the knob the display will blink and memorize the new value and then revert to showing the ambient temperature. Speeds are shown as "1" through "8" ("1" being the lowest), plus "A" for "Automatic". The MK3 control has an Automatic setting as well as a Manual option to set any of the 8 available speeds. The Automatic setting automatically reduces the fan speed as the ambient temperature gets closer to the set point temperature, and is selected by choosing the "A" option in the menu. When the ambient temperature reaches the set point value the compressor turns off while the fan remains operating. When on Automatic, the fan runs at lowest speed when the compressor stops.



FUNCTIONING MODES

The MK3 control automatically switches to the appropriate functioning mode; either Cool or Heat. This "Auto" setting is the default setting.

The MK3 control also has 2 more special function modes:
D = Dehumidifying
FO = Fan Only

The “Dehumidifying” mode operates the air-conditioner on a routine that activates 30 minute cooling cycles every 6 hours. This helps to keep humidity under control on an unattended boat.

The "Fan Only" mode enables the operator to operate the fan alone, for air circulation, etc.

Functioning modes are selected using the On-Off button, keeping it pressed for 5 seconds with the unit off.

On-Off button and mode selection





A- Auto (default



d - Dehumidifying

FO - Fan Only

Pushing the button for 5 seconds gives access to the mode menu: the display shows the actual functioning mode. Pushing the button again will browse the functioning modes in sequence. The new mode is activated if the button is not touched for 3 seconds. The display blinks rapidly and then returns to show the ambient temperature. (With the "D" mode selected, "d" will be displayed).

AUTOMATIC DISPLAY AND LED DIMMIMG

The MK3 control is equipped with an ambient light sensor which automatically dims the display and LED's dependent on ambient light levels.



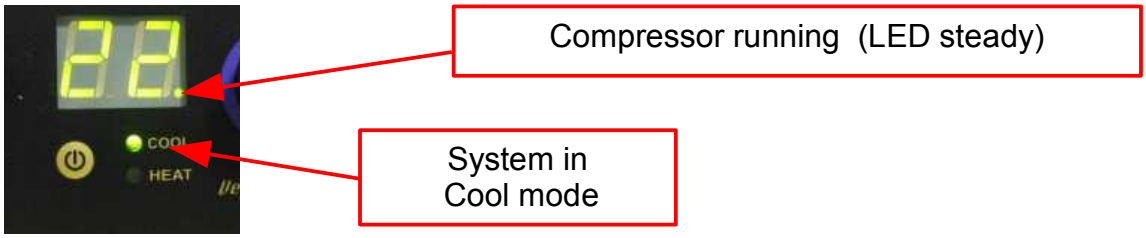
DISPLAY INDICATIONS

THE MK3 control gives additional information on the systems' functions.

When power is supplied to the system the display will show only the ambient temperature. When no other LED's are lit, it indicates that the system is OFF.



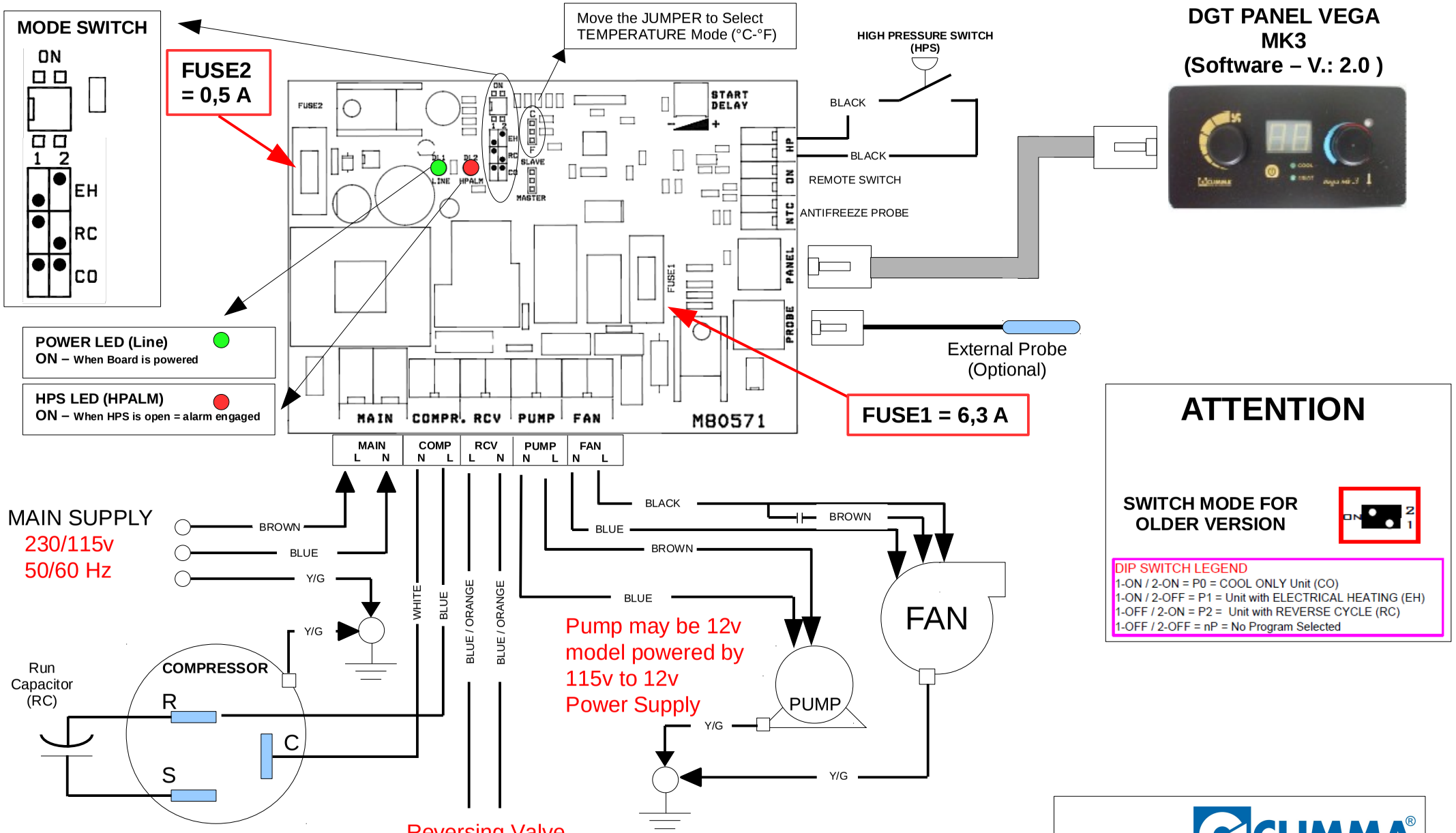
With the A – Automatic and AF- Automatic Special Functioning modes, the LED corresponding to the Cool or Heat mode come on together with an LED in the bottom-right corner of the display. This LED point indicates that the compressor is running.



The LED indicator for the compressor can be steady or blinking: A steady LED means that the compressor is running. A blinking LED indicates that there is a timer delaying the compressor from starting. In this condition the fan and the sea water pump will be running, while the compressor is waiting the timer to expire. When the LED becomes steady, the compressor will start automatically.

The timer cannot be cancelled unless the power supply is cut and restored. This procedure is not recommended, and should be limited to the commissioning phase.

MK3 v.2011 POWERBOARD CONNECTION



ATTENTION

SWITCH MODE FOR OLDER VERSION

DIP SWITCH LEGEND
1-ON / 2-ON = P0 = COOL ONLY Unit (CO)
1-ON / 2-OFF = P1 = Unit with ELECTRICAL HEATING (EH)
1-OFF / 2-ON = P2 = Unit with REVERSE CYCLE (RC)
1-OFF / 2-OFF = nP = No Program Selected

CLIMMA®
MARINE AIR CONDITIONING

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