

VELAIR

MARINE AIR CONDITIONERS



 **UFLEX**





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MARINE AIR CONDITIONING SYSTEMS



VELAIR SERIES



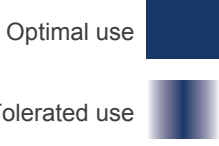
M6



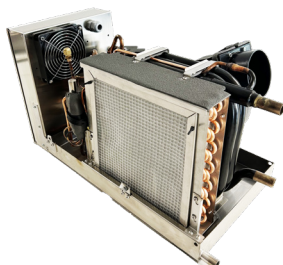
M7

Velair marine air conditioning systems can meet every need, thanks to the wide range that starts from super-compact units, up to Chiller systems, providing an air conditioning capacity from 7.000 BTU/h up to 62.000 BTU/h.

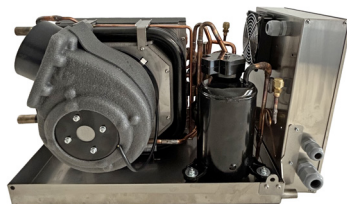
| Model<br>Part No.                 | POWER (K BTU/h) |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
|-----------------------------------|-----------------|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|
|                                   | 2               | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 | 50 | 52 | 54 | 56 | 58 | 60 | 62 | 64 |  |  |
| Compact7 WiFi<br>20379UW          |                 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Compact i0912 VSD<br>SMART 26254E |                 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Compact i0924 VSD<br>SMART 26255G |                 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Compact i10 VSD<br>SMART 24831GW  |                 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Compact i1524 VSD<br>SMART 26256J |                 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Compact i16 VSD<br>SMART 24832JW  |                 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Compact i21 VSD<br>24765WW        |                 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Chiller i42 VSD<br>69338D         |                 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Chiller i62 VSD<br>69339F         |                 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Fancoil V5<br>23398P              |                 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Fancoil V12<br>23399S             |                 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Fancoil V20<br>23729L             |                 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |



### VSD INVERTER DRIVEN SELF-CONTAINED UNITS DC (12/24V)



**COMPACT i0912 VSD SMART**  
2.500 - 9.000 BTU/h 12V



**COMPACT i0924 VSD SMART**  
2.500 - 9.000 BTU/h 24V



**COMPACT i1524 VSD SMART**  
3.500 - 15.000 BTU/h 24V

### 230V-50Hz - ON-OFF SUPER COMPACT UNITS - REVERSE CYCLE FUNCTION

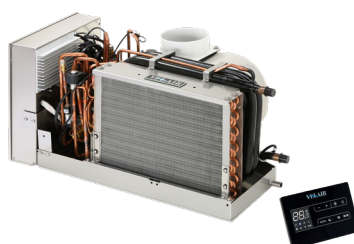


**COMPACT 7 - 7.000 BTU/h**

### 230/115V-50/60Hz VSD INVERTER DRIVEN SELF CONTAINED AIR CONDITIONING SYSTEMS-REVERSE CYCLE FUNCTION



**COMPACT i10 VSD SMART**  
4.000 - 10.000 BTU/h



**COMPACT i16 VSD SMART**  
6.000 - 16.000 BTU/h



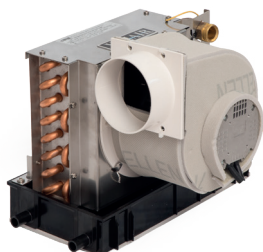
**COMPACT i21 VSD**  
7.000 - 21.000 BTU/h

### 230V-50/60Hz - VSD INVERTER DRIVEN CHILLER - REVERSE CYCLE FUNCTION

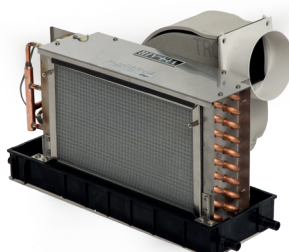


**CHILLER i42 VSD - 18.000 - 42.000 BTU/h**  
**CHILLER i62 VSD - 30.000 - 62.000 BTU/h**

### 230V-50Hz - FANCOILS FOR CHILLER SYSTEMS



**FANCOIL V5 - 5.000 BTU/h**



**FANCOIL V12 - 12.000 BTU/h**



**FANCOIL V20 - 20.000 BTU/h**

# HOW TO CHOOSE AN AIR CONDITIONING SYSTEM

VELAIR

|  Net room volume<br>LxWxHx0,8 m³ | Below deck rooms with portholes |                                       |                         |
|-------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------------------------|-------------------------|
|                                                                                                                   | Cold weather<br>BTU             | Hot weather<br>(Mediterranean)<br>BTU | Tropical weather<br>BTU |
| 10                                                                                                                | 3.200                           | 4.000                                 | 5.200                   |
| 15                                                                                                                | 4.800                           | 6.000                                 | 7.800                   |
| 20                                                                                                                | 8.000                           | 8.000                                 | 10.400                  |
| 25                                                                                                                | 9.600                           | 10.000                                | 13.000                  |
| 30                                                                                                                | 11.200                          | 12.000                                | 15.600                  |
| 35                                                                                                                | 11.200                          | 14.000                                | 18.200                  |
| 40                                                                                                                | 12.800                          | 16.000                                | 20.800                  |
| 45                                                                                                                | 14.400                          | 18.000                                | 23.400                  |
| 50                                                                                                                | 16.000                          | 20.000                                | 26.000                  |
| 55                                                                                                                | 17.600                          | 22.000                                | 28.600                  |
| 60                                                                                                                | 19.200                          | 24.000                                | 31.200                  |
| 65                                                                                                                | 20.800                          | 26.000                                | 33.800                  |
| 70                                                                                                                | 22.400                          | 28.000                                | 36.400                  |
| 75                                                                                                                | 24.000                          | 30.000                                | 39.000                  |
| 80                                                                                                                | 25.600                          | 32.000                                | 41.600                  |
| 85                                                                                                                | 27.200                          | 34.000                                | 44.200                  |
| 90                                                                                                                | 28.800                          | 36.000                                | 46.800                  |
| 95                                                                                                                | 30.400                          | 38.000                                | 49.400                  |
| 100                                                                                                               | 32.000                          | 40.000                                | 52.000                  |

|  Net room volume<br>LxWxHx0,8 m³ | Deck cabins with windows |                                       |                         |
|--------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------|-------------------------|
|                                                                                                                    | Cold weather<br>BTU      | Hot weather<br>(Mediterranean)<br>BTU | Tropical weather<br>BTU |
| 10                                                                                                                 | 4.000                    | 5.000                                 | 6.500                   |
| 15                                                                                                                 | 6.000                    | 7.500                                 | 9.750                   |
| 20                                                                                                                 | 8.000                    | 10.000                                | 13.000                  |
| 25                                                                                                                 | 10.000                   | 12.500                                | 16.250                  |
| 30                                                                                                                 | 12.000                   | 15.000                                | 19.500                  |
| 35                                                                                                                 | 14.000                   | 17.500                                | 22.750                  |
| 40                                                                                                                 | 16.000                   | 20.000                                | 26.000                  |
| 45                                                                                                                 | 18.000                   | 22.500                                | 29.250                  |
| 50                                                                                                                 | 20.000                   | 25.000                                | 32.500                  |
| 55                                                                                                                 | 22.000                   | 27.500                                | 35.750                  |
| 60                                                                                                                 | 24.000                   | 30.000                                | 39.000                  |
| 65                                                                                                                 | 26.000                   | 32.500                                | 42.250                  |
| 70                                                                                                                 | 28.000                   | 35.000                                | 45.500                  |
| 75                                                                                                                 | 30.000                   | 37.500                                | 48.750                  |
| 80                                                                                                                 | 32.000                   | 40.000                                | 52.000                  |
| 85                                                                                                                 | 34.000                   | 42.500                                | 55.250                  |
| 90                                                                                                                 | 36.000                   | 45.000                                | 58.500                  |
| 95                                                                                                                 | 38.000                   | 47.500                                | 61.750                  |
| 100                                                                                                                | 40.000                   | 50.000                                | 65.000                  |

|  Net room volume<br>LxWxHx0,8 m³ | Deck cabins with large windows |                                       |                        |
|---------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------------------------------|------------------------|
|                                                                                                                     | Cold weather<br>BTU            | Hot weather<br>(Mediterranean)<br>BTU | Clima tropicale<br>BTU |
| 10                                                                                                                  | 4.800                          | 6.000                                 | 7.800                  |
| 15                                                                                                                  | 7.200                          | 9.000                                 | 11.700                 |
| 20                                                                                                                  | 9.600                          | 12.000                                | 15.600                 |
| 25                                                                                                                  | 12.000                         | 15.000                                | 19.500                 |
| 30                                                                                                                  | 14.400                         | 18.000                                | 23.400                 |
| 35                                                                                                                  | 16.800                         | 21.000                                | 27.300                 |
| 40                                                                                                                  | 19.200                         | 24.000                                | 31.200                 |
| 45                                                                                                                  | 21.600                         | 27.000                                | 35.100                 |
| 50                                                                                                                  | 24.000                         | 30.000                                | 39.000                 |
| 55                                                                                                                  | 26.400                         | 33.000                                | 42.900                 |
| 60                                                                                                                  | 28.800                         | 36.000                                | 46.800                 |
| 65                                                                                                                  | 31.200                         | 39.000                                | 50.700                 |
| 70                                                                                                                  | 33.600                         | 42.000                                | 54.600                 |
| 75                                                                                                                  | 36.000                         | 45.000                                | 58.500                 |
| 80                                                                                                                  | 38.400                         | 48.000                                | 62.400                 |
| 85                                                                                                                  | 40.800                         | 51.000                                | 66.300                 |
| 90                                                                                                                  | 43.200                         | 54.000                                | 70.200                 |
| 95                                                                                                                  | 45.600                         | 57.000                                | 74.100                 |
| 100                                                                                                                 | 48.000                         | 60.000                                | 78.000                 |

|  Net room volume<br>LxWxHx0,8 m³ | Luxury motoryachts with large windows |                                       |                         |
|----------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------|-------------------------|
|                                                                                                                      | Cold weather<br>BTU                   | Hot weather<br>(Mediterranean)<br>BTU | Tropical weather<br>BTU |
| 10                                                                                                                   | 6.000                                 | 7.500                                 | 9.750                   |
| 15                                                                                                                   | 9.000                                 | 11.250                                | 14.625                  |
| 20                                                                                                                   | 12.000                                | 15.000                                | 19.500                  |
| 25                                                                                                                   | 15.600                                | 18.750                                | 24.375                  |
| 30                                                                                                                   | 18.000                                | 22.500                                | 29.250                  |
| 35                                                                                                                   | 21.000                                | 26.250                                | 34.125                  |
| 40                                                                                                                   | 24.000                                | 30.000                                | 39.000                  |
| 45                                                                                                                   | 27.000                                | 33.750                                | 43.875                  |
| 50                                                                                                                   | 30.000                                | 37.500                                | 48.750                  |
| 55                                                                                                                   | 33.000                                | 41.250                                | 53.625                  |
| 60                                                                                                                   | 36.000                                | 45.000                                | 58.500                  |
| 65                                                                                                                   | 39.000                                | 48.750                                | 63.375                  |
| 70                                                                                                                   | 42.000                                | 52.500                                | 68.250                  |
| 75                                                                                                                   | 45.000                                | 56.250                                | 73.125                  |
| 80                                                                                                                   | 48.000                                | 60.000                                | 78.000                  |
| 85                                                                                                                   | 51.000                                | 63.750                                | 82.875                  |
| 90                                                                                                                   | 54.000                                | 67.500                                | 87.750                  |
| 95                                                                                                                   | 57.000                                | 71.250                                | 92.625                  |
| 100                                                                                                                  | 60.000                                | 75.000                                | 97.500                  |

## CONTROL PANEL

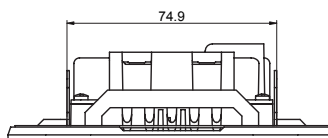
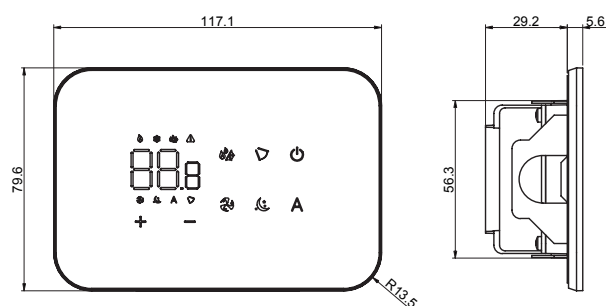
The compact 7, i10/i16 VSD Smart and i21 VSD units are supplied with the M6 wall-mounted touch control digital panel, easy to install as, being very thin, it can be applied on the wall itself, without the classic rectangular cut. A simple round hole is enough to pass the data cable.



## ELECTRIC CONTROL BOX - COMPACT 7 ON-OFF UNITS

The units are extremely easy to install thanks to the prewired electrical box with a cable bundle that allows the optimal positioning around the machine itself. Unlocking the four screws, it's possible to access directly to the terminal block to connect the power supply and the sea water pump.

## VSD UNIT NEW SMART M7-TOUCH CONTROL PANEL



### SMART M7-Touch control panel code 25829B

New SMART M7-Touch control panel, available as an Optional for VSD Smart i10/i16, and VSD i21 compact air conditioners, supplied as standard with i0912/i0924/i1524 VSD Smart units

- Can be installed as a refit on already assembled units, or on new installation as an alternative to the standard control panel supplied with i10/i16 VSD Smart and i21VSD
- Led electronic control with Touch interface
- Elegant Design / Ultrathin
- Magnetic installation frame on 503 box template, no connection screws to the panel

## WIFI: REMOTE CONTROL VIA SMARTPHONE



### VELAIR APP

Wi-Fi module integrated in the panel. This function allows to reach, monitor and set-up your unit through a dedicated app.

When you are on board, the smartphone will speak directly with the unit. This allows to turn on the air conditioning or heat pump, adjust the desired temperature set-point and fan speed.



# VSD INVERTER DRIVEN SELF-CONTAINED A/C UNITS DC ( 12/24 V ) POWERED

VELAIR



VARIABLE SPEED DRIVE

new

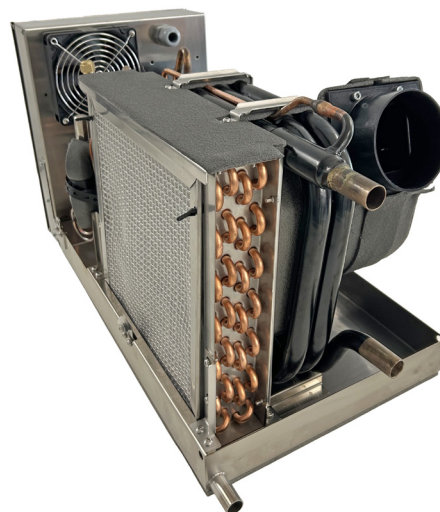
New VELAIR compact air conditioning units, powered directly @ 12/24 Volt from the boat's battery bank, without the need for a generator or inverter. Two sizes available: 9,000 Btu/h maximum cooling power @ 12 and 24 volt, and 15,000 Btu/h @ 24 volt

VSD Inverter Smart technology offers the advantages of eliminating power peaks at start-up, maximum energy efficiency, and significantly reduced compressor noise and vibration during operation.

The twin rotary compressor with a brushless permanent magnet synchronous motor ( PMSM ) varies its rotation speed to continuously adapt to the difference between the set/requested temperature and the ambient temperature detected by the sensor integrated into the control panel. This ensures highly precise room temperature control in all conditions, with minimal noise and vibration.

The outgoing air flow is kept constant thanks to DC brushless variable speed technology fans, which can also be oriented for easier on-board installation.

VELAIR air conditioners are designed and manufactured in Italy and comply with electromagnetic compatibility (EMC) regulations.



i0912 VSD Smart

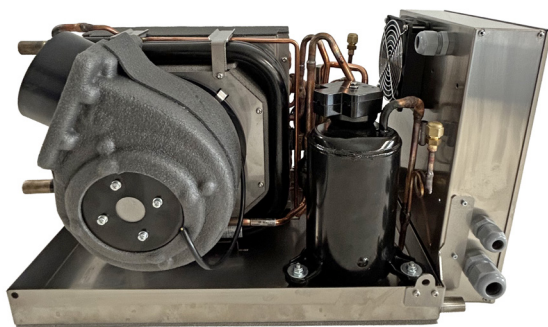
## TECHNICAL SPECIFICATIONS

| MODEL                           | i0912 VSD SMART                  | i0924 VSD SMART                  | i1524 VSD SMART              |
|---------------------------------|----------------------------------|----------------------------------|------------------------------|
| Part No.                        | 26254E                           | 26255G                           | 26256J                       |
| Cooling capacity range          | 2500 – 9000 Btu/h                | 2500 – 9000 Btu/h                | 3500 – 15000 Btu/h           |
| Power supply voltage            | 12 VDC                           | 24 VDC                           | 24 VDC                       |
| Power consumption cooling (max) | 45 A                             | 22 A                             | 40 A                         |
| Power consumption ECO mode      | 18 A                             | 9 A                              | 13 A                         |
| Max air flow                    | 350 m³/h                         | 350 m³/h                         | 550 m³/h                     |
| Air exit duct                   | 1 x Ø 100 mm - 1 x Ø 3.9"        | 1 x Ø 100 mm - 1 x Ø 3.9"        | 1 x Ø 125 mm - 1 x Ø 4.9"    |
| Return Grill min.               | 400 cm²                          | 400 cm²                          | 600 cm²                      |
| Supply Grill min.               | 250 cm²                          | 250 cm²                          | 300 cm²                      |
| Min seawater flow               | 12 l/min                         | 12 l/min                         | 15 l/min                     |
| Dimensions<br>WxHxD mm (")      | 570x320x320*<br>(22.5x12.6x12.6) | 570x320x320*<br>(22.5x12.6x12.6) | 650x330x355*<br>(25.6x13x14) |
| Weight kg (lbs)                 | 25 (55.1)                        | 25 (55.1)                        | 28 (61.7)                    |
| Refrigerant ( q.ty )            | R32 (330 gr)                     | R32 (330 gr)                     | R32 (380 gr)                 |
| Control panel cable             | 8 m                              | 8 m                              | 8 m                          |

\* electric box included

Working limits seawater in summer mode. +40°C / +104F

Working limits seawater in winter mode +5°C / +41F



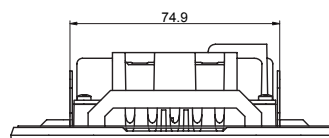
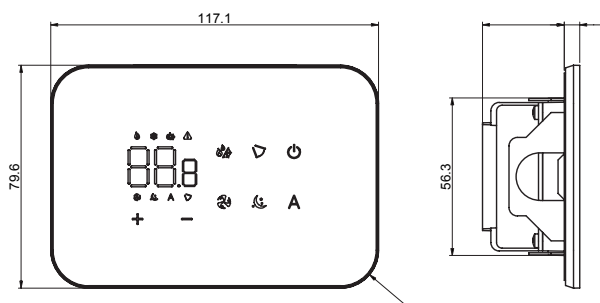
**i0924 VSD Smart**

From the unit's electrical box it will be possible to control the sea water circulation pump, @ 12/24 Volts, to ensure the correct heat exchange with the R32 refrigerant (i09: 330g / i15: 380g), and the maximum efficiency of the air conditioning system.

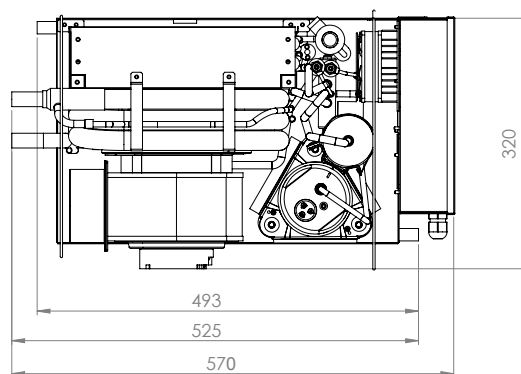
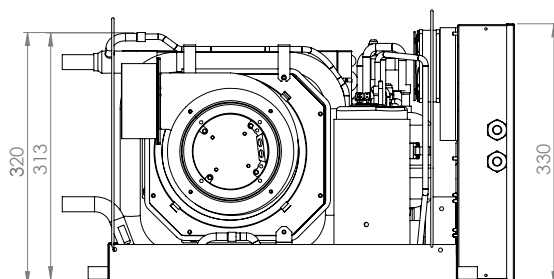
The compact VELAIR DC units are standard supplied with the new Smart M7 Touch wall-mount control panel, with integrated room temperature sensor, electronic LED control with touch interface, an elegant / ultra-thin design, with a magnetic installation frame on a std 503 box that does not require screws for connection to the panel.



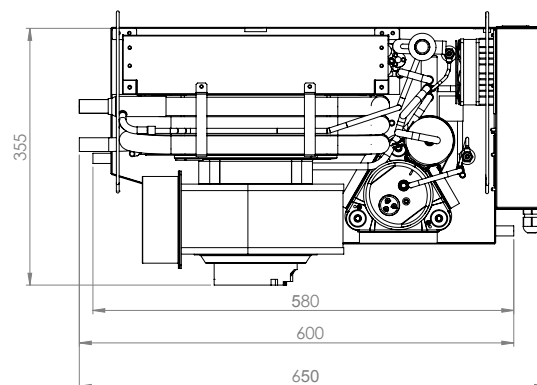
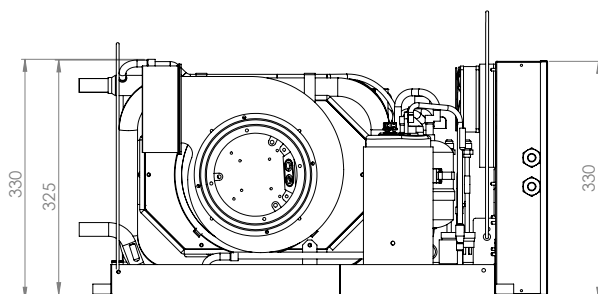
**SMART M7-Touch control panel**



## COMPACT i0912/i0924 VSD SMART - 26254E/26255G



## COMPACT i1524 VSD SMART - 24832JW



# SELF-CONTAINED ON-OFF AIR CONDITIONING SYSTEMS **VELAIR**

## COMPACT 7 - SUPER COMPACT UNIT

In order to have a solution even when spaces are minimal, VELAIR introduces the Compact 7, the super-compact air conditioning self contained unit that in just 43cm in length and 26cm in width develops 7.000 BTU/h of cooling power. 7.000 BTU model is built with a stainless steel tray and fan body, with possibility to have up to 3 air outlets.

Advantages:

- Unit extremely compact in dimensions and light weight
- Brushless fan with high efficiency and low noise
- Max electrical power consumption 660 W (in cooling)
- New wall touch display included
- Heat pump reverse cycle operation to heat the environment in winter

Easy to install:

With its compact dimensions and low weight, the Compact 7 can be installed on all types of boats.

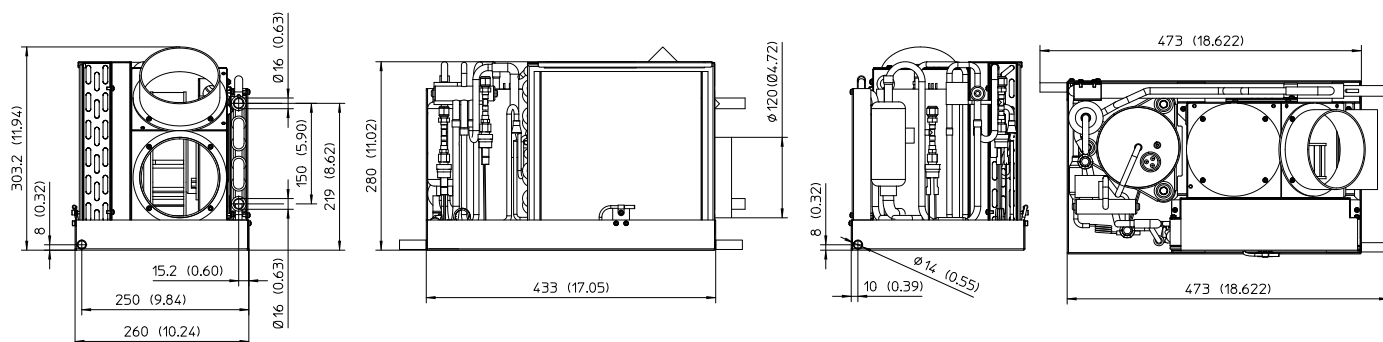
The Compact 7 can be installed with 2 or 3 air outputs, 100 mm diameter, without the need to use any T or Y additional dividers.



Ø 100 mm three air outputs application example



## COMPACT 7 - 20379UW



# VELAIR SELF-CONTAINED ON-OFF AIR CONDITIONING SYSTEMS

## Features

- Heat pump reverse cycle operation
- Brushless fan
- Rotary compressor
- New wall touch display
- WIFI: remote control via smartphone
- Multiple air outputs
- Wired electronic box
- Stainless steel condensation tray
- Designed and manufactured in Italy

| Model - Part No.                     | Compact 7- 20379UW      |
|--------------------------------------|-------------------------|
| Cooling capacity                     | 7.000 BTU/h             |
| Supply voltage                       | 230 V - 50Hz            |
| Heat pump                            | Yes                     |
| Maximum input power cooling          | 0,66 Kw                 |
| Cooling power consumption            | 3,0 A                   |
| Starting                             | 12 A                    |
| Min. seawater flo                    | 8 l/min                 |
| Seawater IN / OUT                    | Ø 16 mm (0.63)          |
| Maximum air flo                      | 350 m³/h                |
| Air exit duct (for max capacity)     | 2 x Ø 100 mm - 2 x Ø 4" |
| Minimum opening for return air grill | 360 cm²                 |
| Min.opening for supply air grill     | 150 cm²                 |
| Refrigerant                          | R410A                   |
| Control panel cable length           | 8 m                     |
| Width                                | 433 mm - 17"            |
| Height                               | 280 mm - 11"            |
| Depth                                | 260 mm - 10.2"          |
| Weight                               | 23 kg - 50.7 lbs        |
| Working limits: SW winter mode       | > +5°C/+41°F            |
| Working limits: SW summer mode       | < +40°C/+104°F          |



# VSD INVERTER DRIVEN SELF-CONTAINED AIR CONDITIONING SYSTEMS REVERSE CYCLE FUNCTION

VELAIR

## Features

- Heat pump reverse cycle operation
- 0,5°C temperature fluctuation
- Compressor noise and vibrations almost zero
- No current peaks during start-up
- Overall reduction of electricity consumption
- Constant Flow technology fan (i10 and i16 only)
- Twin Rotary compressors
- Constant temperature of the air flow
- Increase in component lifetime
- New wall touch display
- WIFI: remote control via smartphone
- Designed and manufactured in Italy



VARIABLE SPEED DRIVE



VELAIR APP



Compact i10 VSD SMART

Self-contained-VSD air conditioners provide the best of the existing technology: compressor with brushless DC motor and inverter that constantly controls speed and delivered cooling power (Variable Speed Drive); reverse blade brushless fan; electronic expansion valve.

- Constant Flow technology fan (i10 and i16 only)
- Twin Rotary compressors

Available in three sizes: 10.000, 16.000 and 21.000 BTU/h max output.

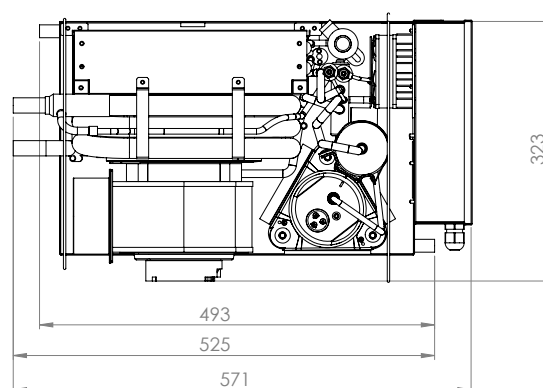
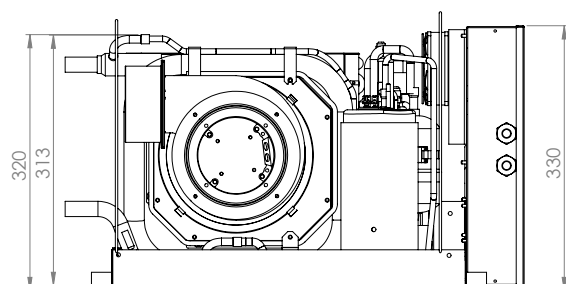
The compressor continuously changes its running speed depending from ambient and set temperature. The compressor operates at maximum power to cool rapidly the cabins, but reaching the set temperature, it reduces the power and electric consumption. In this way it maintains the optimal comfort level with the minimum consumption. The inverter works between 20 and 100 Hz.

Self-contained-VSD VELAIR units meet EMC 2004/108/EC directives.

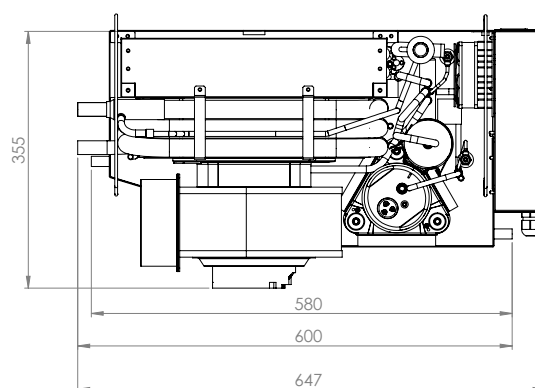
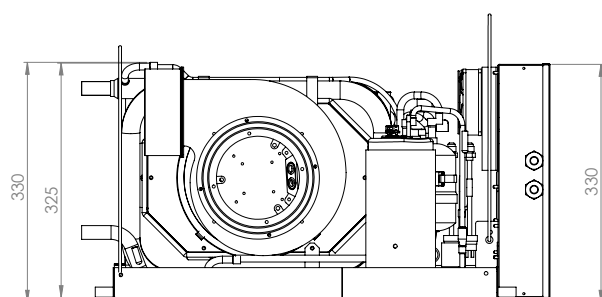
| Model                             | Compact i10 VSD SMART     | Compact i16 VSD SMART     | Compact i21 VSD         |
|-----------------------------------|---------------------------|---------------------------|-------------------------|
| 230V/1ph/50-60Hz version Part No. | 24831GW                   | 24832JW                   | 24765WW                 |
| 115V/1ph/50-60Hz version Part No. | 24831GU                   | 24832JU                   | -                       |
| Cooling capacity range            | 4.000 - 10.000 BTU/h      | 6.000 - 16.000 BTU/h      | 7.000 - 21.000 BTU/h    |
| Heat pump                         | Yes                       | Yes                       | Yes                     |
| Maximum input power cooling       | 0,64 Kw / 2,9 A           | 0,93 Kw / 4,1 A           | 1,35 Kw / 6,1 A         |
| Input power ECO mode              | 0,21 Kw / 0,95 A          | 0,31 Kw / 1,35 A          | 0,46 Kw / 2,1 A         |
| Min. seawater flow                | 12 l/min                  | 15 l/min                  | 20 l/min                |
| Seawater IN / OUT                 | Ø 19 mm (0.75)            | Ø 19 mm (0.75)            | Ø 16 mm (0.63)          |
| Maximum air flow                  | 400 m³/h                  | 550 m³/h                  | 800 m³/h                |
| Air exit duct (for max capacity)  | 1 x Ø 100 mm - 1 x Ø 3.9" | 1 x Ø 125 mm - 1 x Ø 4.9" | 3 x Ø 152 mm - 3 x Ø 6" |
| Min. opening for return air grill | 400 cm²                   | 600 cm²                   | 800 cm²                 |
| Min. opening for supply air grill | 250 cm²                   | 300 cm²                   | 400 cm²                 |
| Refrigerant                       | R32                       | R32                       | R32                     |
| Control panel cable length        | 8 m                       | 8 m                       | 8 m                     |
| Width - including electrical box  | 571 mm - 22.5"            | 650 mm - 25.6"            | 730 mm - 28.7"          |
| Height                            | 320 mm - 12.6"            | 330 mm - 13"              | 445 mm - 17.5"          |
| Depth                             | 323 mm - 12.7"            | 355 mm - 14"              | 322 mm - 12.7"          |
| Weight                            | 25 kg - 55.1 lbs          | 28 kg - 61.7 lbs          | 40 kg - 88.2 lbs        |
| Working limits: SW winter mode    | > +5°C/+41°F              | > +5°C/+41°F              | > +5°C/+41°F            |
| Working limits: SW summer mode    | < +40°C/+104°F            | < +40°C/+104°F            | < +40°C/+104°F          |

## 12 MARINE AIR CONDITIONING SYSTEMS - SELF-CONTAINED VSD UNITS

### COMPACT i10 VSD SMART - 24831GW



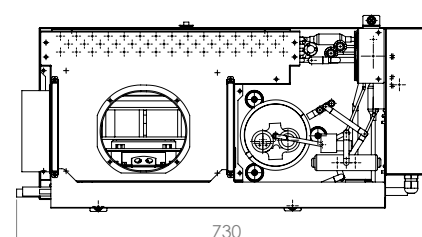
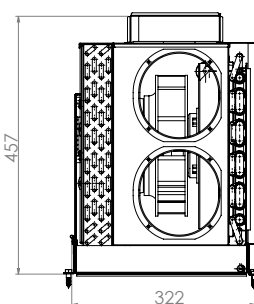
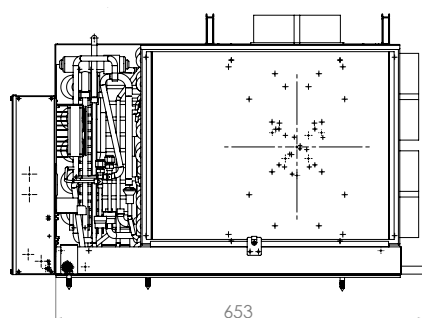
### COMPACT i16 VSD SMART - 24832JW



**new**

**Accessories:** Brackets kit for remote installation of i10/i16 VSD Smart electric box - Part No. 26102E

### COMPACT i21 VSD- 24765WW



### VSD - VARIABLE SPEED DRIVE

The inverter technology, already used in residential air-conditioning, offers the following benefits in marine applications:

- No current peaks during start-up
- Highest energy efficiency: overall reduction of electricity consumption (-40%)
- Perfectly running with small generators or battery powered (through inverter)
- Compressor noise and vibrations almost zero
- Constant temperature of the air flow
- Wi-fi connection for smartphone available through a dedicated app
- Heat pump reverse cycle operation to heat the environment in winter



## VSD INVERTER DRIVEN CHILLER UNITS AIR CONDITIONING SYSTEMS REVERSE CYCLE FUNCTION

VELAIR



i42 - VSD



### VARIABLE SPEED DRIVE

This inverter driven chiller range provides the best of the existing technology: brushless DC motor with inverter that constantly controls speed and delivered power by the compressor (Variable Speed Drive). They also use R410A eco-friendly refrigerant. Two sizes available: 42.000 and 62.000 BTU/h with modular combination to obtain systems with higher cooling power.

Benefits in marine applications:

- No current peaks during start-up phase
- Highest energy efficiency: Overall reduction of electricity consumption (-45%)
- It can operate with small generators
- Compressor noise and vibrations almost zero
- Small dimensions and weights compared to the cooling capacity
- Stable water outlet temperature

**Comfort:** The compressor continuously changes the running speed and consequently its cooling power. In this way, the chiller water loop temperature remains constant, regardless of power drawn by the fancoils. This guarantees the maximum comfort - thanks to the temperature stability of air and the best efficiency, adapting continuously the cooling power to the real need. As result, the compressor will operate at maximum power to cool rapidly the cabins, but coming closer to the set temperature, it will reduce the power and, as well, the power consumption.

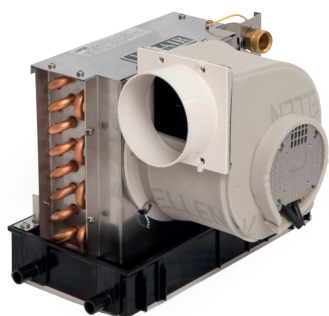
**Reliability:** "Brushless DC" compressors, together with variable capacity operation, eliminate the typical ON/OFF function of the traditional systems. This allows a much longer lifetime to all the electrical and mechanical components.

**Silence:** Thanks to its function and its sound proofing cover, the compressor has minimal sound levels. This is appreciated especially during night operation.

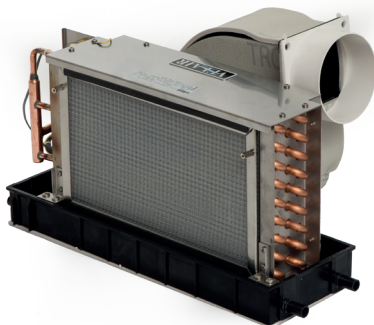
**NIGHT mode:** It is possible to limit the maximum output power to a preselected value (factory 40%) simply pressing a button. This means the possibility to limit the max current requested, with no risk to break down the shore power if weak and, in double genset applications, it is possible to use the small and quiet generator during the night.

**Modular:** A number of units can be combined together in order to obtain the desired max. cooling power: for example, to get 250.000 BTU/h as max power, it is enough to install 4 units of 62.000 BTU/h in parallel. The units will regulate automatically in order to guarantee always the pre-determined value temperature with the lowest energy consumption.

Inverter-VSD Uflex VELAIR chillers units meet EMC 2004/108/EC directives.



V5



V12



V20

## Features

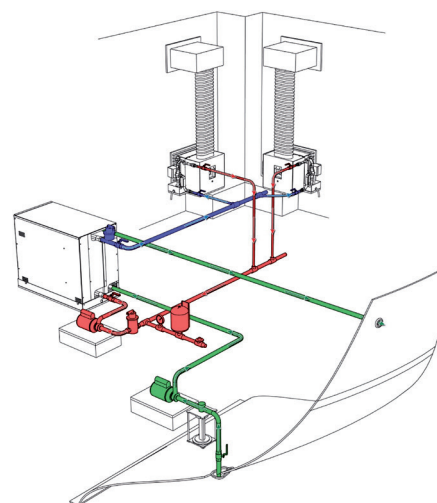
- 3 versions available: 5.000, 12.000 and 20.000 BTU/h
- Fan with permanent magnet motor
- 3 adjustable speed
- Illuminated touch screen display with WI-FI connectivity
- WI-FI unit control with Velair App
- Condensation drain in thermoplastic material (V5 and V12)

## SYSTEM COMPONENTS

For a complete installation the following components are needed:

- Fancoils
- Seawater pump
- Water pump for chilled loop
- Seawater loop components (sea water intake, water outlet, strainer, safety valve and pipeline)
- Chilled water loop components (insulated pipes, fittings, valves, bleeders, accumulator tank and glycols)
- Air ducting parts (insulated pipe, dividers, transition box, air grills)

Please contact our Technical Service for a correct choice of required accessories.



## VFC-DSP

VFC-DSP - 24600L - Digital control panel - connection cable included.

- Illuminated touch screen display with embedded temperature sensor and WI-FI connectivity.
- Constant flow fan with 3 adjustable speeds.
- Summer and winter operation mode.
- Chiller call ready
- Predisposition for the addition of solenoid valve, optional bypass Part No. 24602R (for V12 and V20 models only)
- Possibility to control multiple machines from a single display



## INVERTER DRIVEN CHILLER UNITS

**VELAIR**

### Features

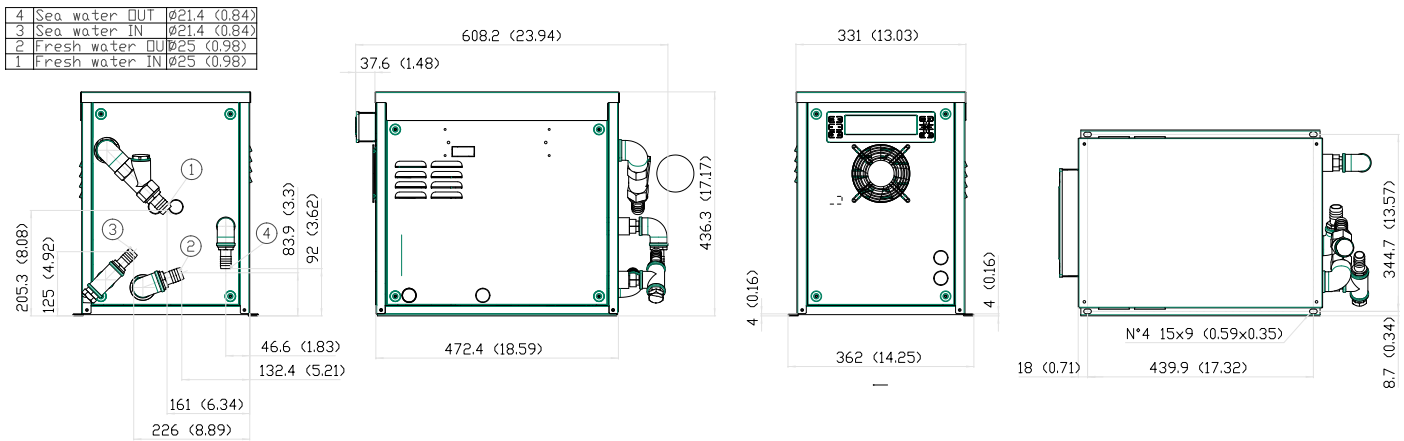
- 2 versions: 18.000 - 42.000 and 30.000 - 62.000 BTU/h
- Variable speed drive technology
- Heat pump reverse cycle operation
- Brushless DC compressor
- Overall reduction of electricity consumption
- No current peaks during start-up
- Compressor noise and vibrations almost zero
- Maximum comfort - thanks to the temperature stability of air
- Designed and manufactured in Italy



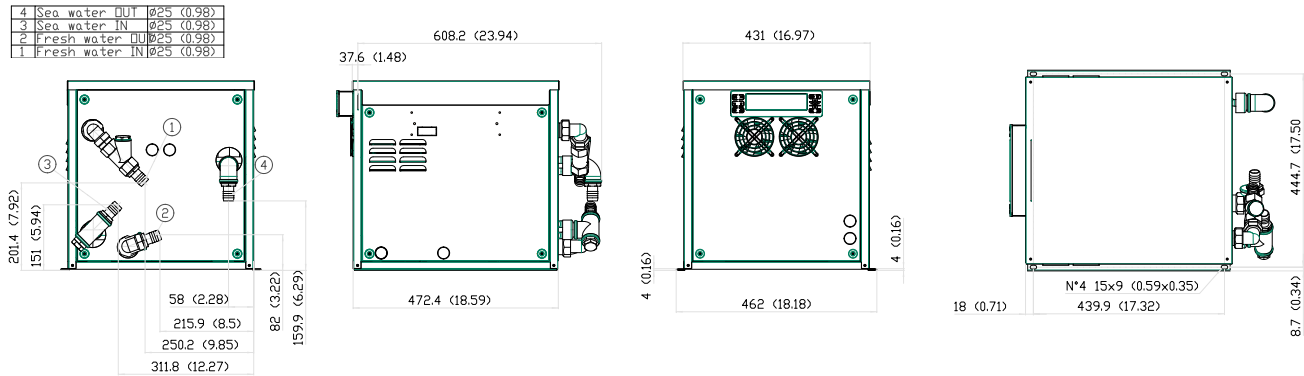
**i42 - VSD**

| Model                               | CHILLER i42 VSD         | CHILLER i62 VSD        |
|-------------------------------------|-------------------------|------------------------|
| Part No.                            | 69338D                  | 69339F                 |
| Cooling capacity range              | 18.000 - 42.000 BTU/h   | 30.000 - 62.000 BTU/h  |
| Heat pump                           | Yes                     | Yes                    |
| Power supply voltage                | 1PH - 230V - 50/60 Hz   | 1PH - 230V - 50/60 Hz  |
| Maximum input power cooling         | 2,2 Kw / 10,5 A         | 3,5 Kw / 16 A          |
| Input power ECO mode                | 1 Kw / 4,5 A            | 1,34 Kw / 6,1 A        |
| Min. seawater flo                   | 30 l/min                | 40 l/min               |
| Min. water flow rate chiller circui | 35 l/min                | 45 l/min               |
| Chiller loop pipe diameter          | 25 mm                   | 25 mm                  |
| Seawater loop pipe diameter         | 20 mm                   | 25 mm                  |
| Refrigerant                         | R32 - 0,93 kg - 2.1 lbs | R32 - 1,1 kg - 2.4 lbs |
| Width                               | 473 mm - 18.6"          | 608 mm - 24"           |
| Height                              | 436 mm - 17.2"          | 436 mm - 17.2"         |
| Depth                               | 331 mm - 13"            | 431 mm - 17"           |
| Weight                              | 48 kg - 106 lbs         | 64 kg - 141 lbs        |
| Working limits: SW winter mode      | > +5°C/+41°F            | > +5°C/+41°F           |
| Working limits: SW summer mode      | < +40°C/+104°F          | < +40°C/+104°F         |

CHILLER i42 VSD - 69338D

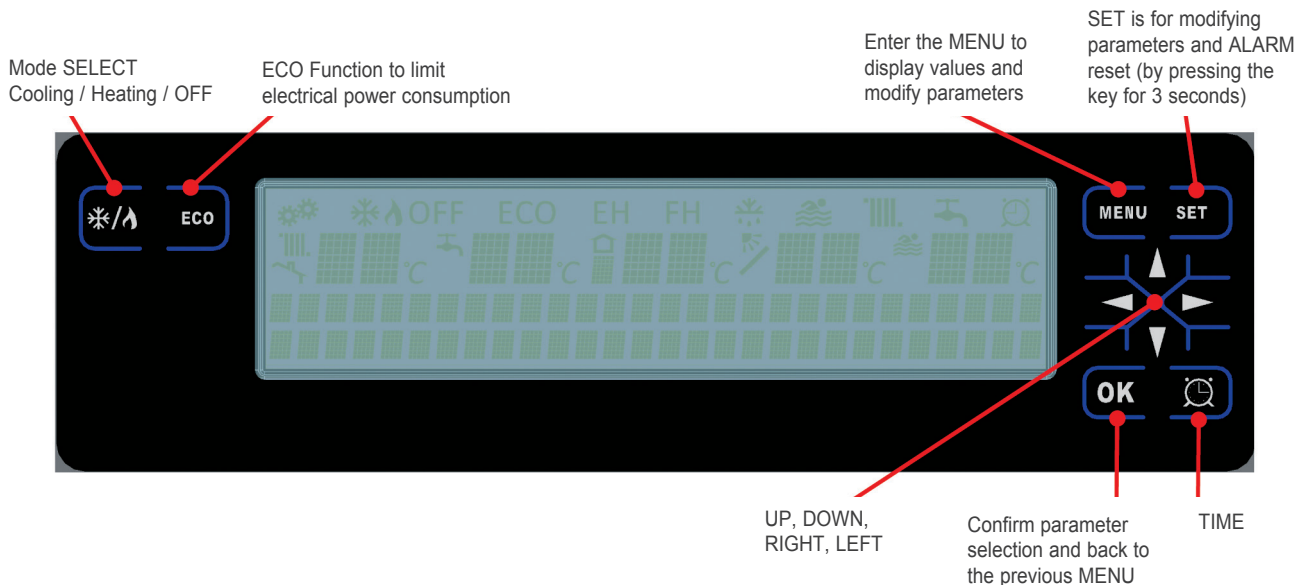


CHILLER i62 VSD - 69339F



DIGITAL CONTROL PANEL

The digital control panel can be placed on the chiller or remoted in a control room.  
The main functions can be controlled from any centralised on-board control system by three simple switches



## FANCOILS FOR CHILLER SYSTEMS

**VELAIR**

Velair fan coils reach the selected temperature in the shortest possible time and keep it constant in maximum silence, thanks to the fan in continuous automatic modulation, which gradually reduces the revolutions when the set temperature is reached. With this modern technology Velair operates with very low power consumption and perfect stability of operation.

### Features

- 3 versions available: 5.000, 12.000 and 20.000 BTU/h
- Fan with permanent magnet motor
- 3 adjustable speed
- Illuminated touch screen display with WI-FI connectivity
- WI-FI unit control
- Condensation drain in thermoplastic material (V5 and V12)
- Designed and manufactured in Italy

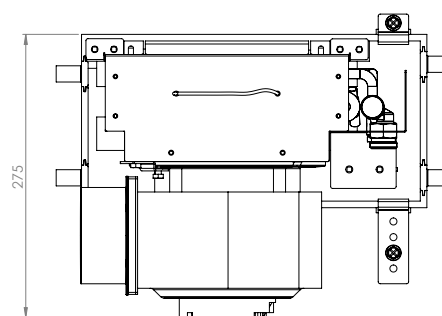
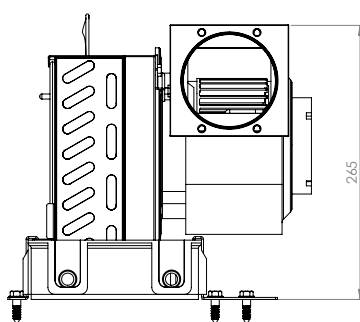
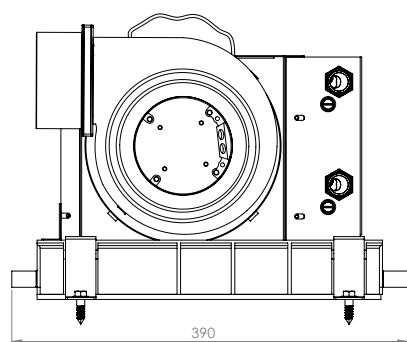


| Model                      | V5                      | V12                       | V20                       |
|----------------------------|-------------------------|---------------------------|---------------------------|
| Part No.                   | 23398P                  | 23399S                    | 23729L                    |
| Cooling capacity           | 5.000 BTU/h             | 12.000 BTU/h              | 20.000 BTU/h              |
| Power supply               | 1PH / 230V / 50 Hz      | 1PH / 230V / 50 Hz        | 1PH / 230V / 50 Hz        |
| Fan absorption (W)         | 90                      | 170                       | 340                       |
| Fan speed N°               | 3                       | 3                         | 3                         |
| Air flo                    | 250 m³/h                | 500 m³/h                  | 1.100 m³/h                |
| Air outlet diameter        | 1 x Ø 100 mm - 1 x Ø 4" | 1 x Ø 125 mm - 1 x Ø 4.9" | 2 x Ø 125 mm - 2 x Ø 4.9" |
| Control panel cable length | 5 m                     | 5 m                       | 5 m                       |
| Width                      | 390 mm - 15.3"          | 540 mm - 21.3"            | 697 mm - 27.4"            |
| Height                     | 265 mm - 10.4"          | 300 mm - 11.8"            | 295 mm - 11.6"            |
| Depth                      | 275 mm - 10.8"          | 315 mm - 12.4"            | 318 mm - 12.5"            |
| Weight                     | 5,5 kg - 12.1 lbs       | 9 kg - 19.8 lbs           | 13,5 kg - 29.7 lbs        |

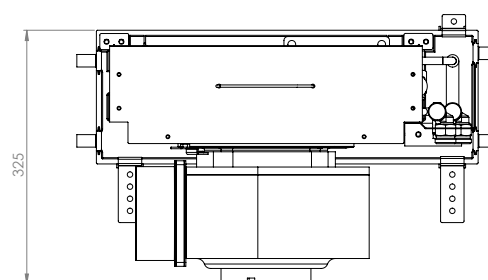
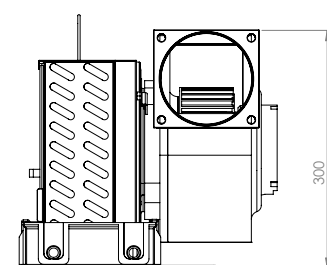
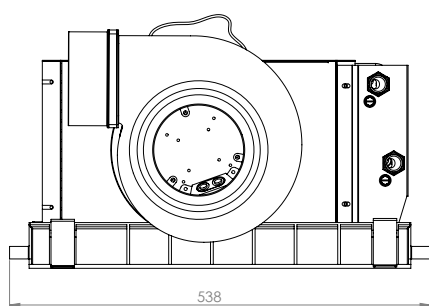




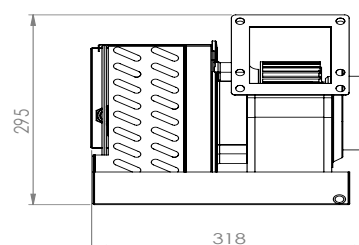
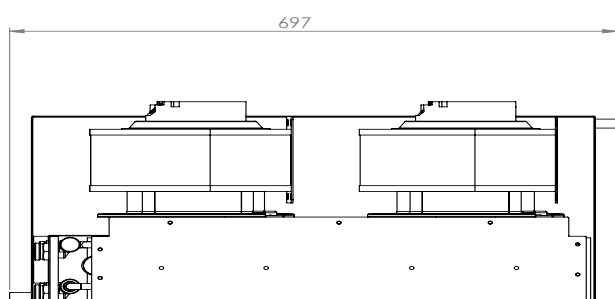
### V5 - 23398P



### V12 - 23399S



### V20 - 23729L



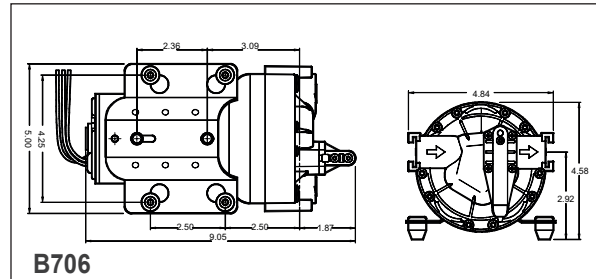
## 230V - 50/60Hz SEAWATER PUMPS

VELAIR

### B706 – 63799K

Self priming diaphragm seawater Pump

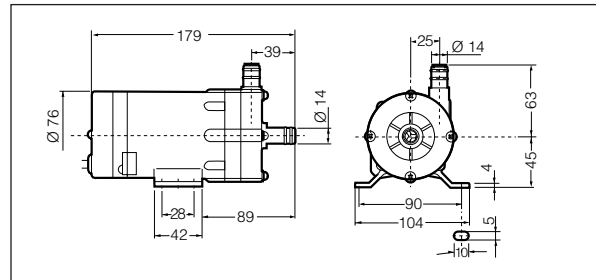
- Max flow rate: 17 l/min (4.5 GPM)
- Input power: 200 W
- Self priming up to 3,0 m (9.8')
- F1/2" connection
- Weight: 3,6 kg (7.9 lbs)



B706

### U020-220 – 65426D

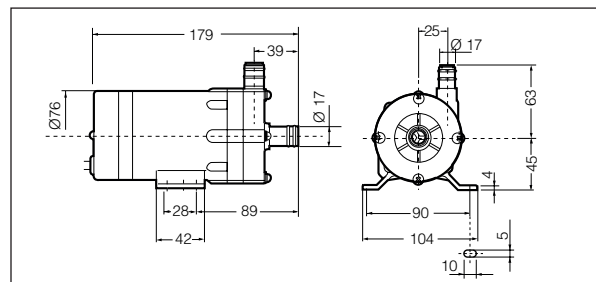
- Self-priming pump
- Max flow rate 30 l/min ( 7.9 GPM )
- Input power 105W
- Max head 15m
- Hose connection 20 mm
- Weigth 5,5 kg ( 12,2 lbs )



PMD-221

### PMD-221 – 69886M

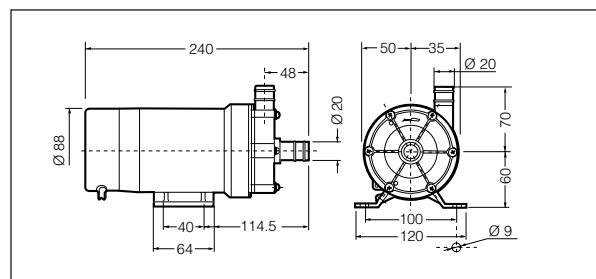
- Magnetic drive seawater centrifugal Pump
- Max flow rate: 15 l/min (4.0 GPM)
- Input power: 31 W
- Max Head: 2,6 m (8.5')
- M3/4" (19 mm) connection
- Weight: 1,7 kg (3.75 lbs)



PMD-371

### PMD-371 – 63570A

- Magnetic drive seawater centrifugal Pump
- Max flow rate: 25 l/min (6.5 GPM)
- Input power: 43 W
- Max Head: 3,1 m (10.2')
- (17 mm) hoses connection
- Weight: 1,7 kg (3.75 lbs)

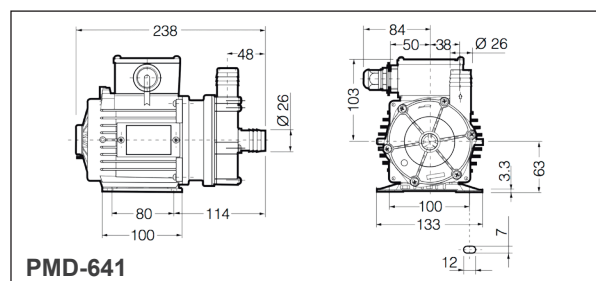


PMD-421

### PMD-421 – 69696G

Magnetic drive seawater Centrifugal Pump

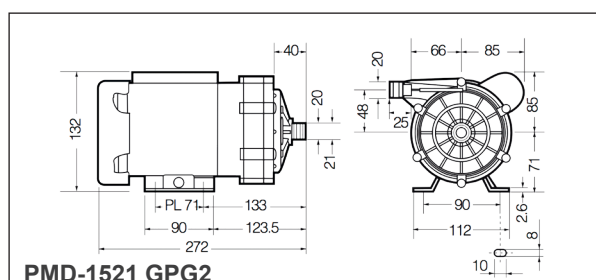
- Max flow rate: 35 l/min (9.2 GPM)
- Input power: 75 W
- Max Head: 4,0 m (13.1')
- M3/4" (19 mm) connection
- Weight: 3,4 kg (7.5 lbs)



PMD-641

### PMD 641 – 20349J

- Magnetic drive seawater centrifugal Pump
- Flow rate: 55 l/min @2m (20 l/min @8m)
- Input power: 155 W
- Max Head: 5,0 m (16.4')
- M1" (25 mm) connection
- Weight: 4,8 kg (10.6 lbs)



PMD-1521 GPG2

### PMD 1521 GPG2 – 20345A

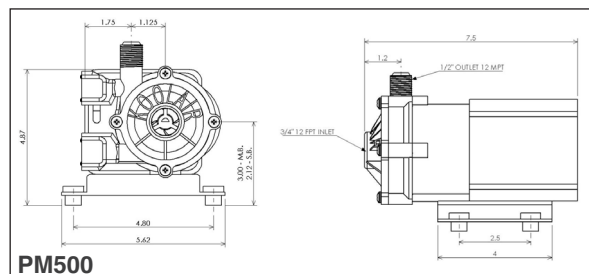
- Magnetic drive seawater centrifugal Pump
- Flow rate: 60 l/min @2m (35 l/min @8m)
- Input power: 230 W
- Max Head: 13,0 m (42.6')
- M1" (25 mm) connection
- Weight: 7,5 kg (16.5 lbs)

## B656 – 26150S

- Self-priming diaphragm pump
- Max flow rate 20,8 l/min ( 5.5 GPM )
- Input power 130 W
- Self priming up to 3,3 m (11')
- F 1/2" connection
- Weight 3,6 kg ( 7,9 lbs )

## PM500 – 22746F

- Seawater centrifugal Pump
- Max flow rate: 32 l/min (8.5 GPM)
- Input power: 120 W
- Max Head: 6 m (20')
- Connection: in F3/4" / out MPT 1/2"
- Weight: 3,85 kg (8.5 lbs)
- Resin-coated watertight motor
- Compliant with ISO8846 explosion-proof standard



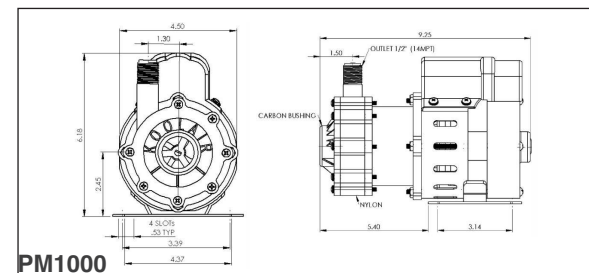
PM500

## U020-115 – 26147D

- Self-priming diaphragm pump
- Max flow rate 35 l/min ( 9.2 GPM )
- Input power 100W
- Max head 20 m
- Hose connection 20 mm
- Weight 5,5 kg ( 12,2 lbs )

## PM1000 – 23042X

- Seawater centrifugal Pump
- Max flow rate: 64 l/min (17 GPM)
- Input power: 220 W
- Max Head: 8 m (27')
- Connection: in F1" / out MPT 1/2"
- Weight: 4,5 kg (10 lbs)

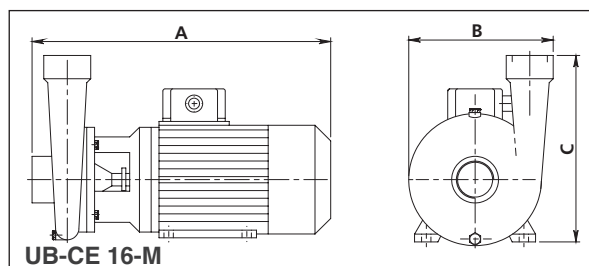


PM1000

## 230 V – 50 HZ CENTRIFUGAL PUMPS FOR SEAWATER/CHILLED WATER APPLICATIONS

### UB-CE 16-M – 67960L

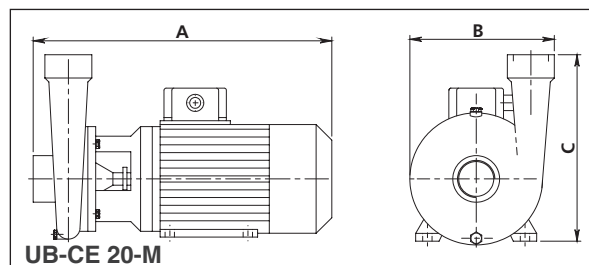
- Seawater centrifugal Pump
- Flow rate: 40 l/min
- Input power: 390 W
- Max Head: 7,0 m (23.0')
- F1 1/2" in/out connection
- Dimensions: A=266 mm, B=122 mm, C= 138 mm
- Weight: 5,6 kg (12.3 lbs)



UB-CE 16-M

### UB-CE 20-M – 67964V

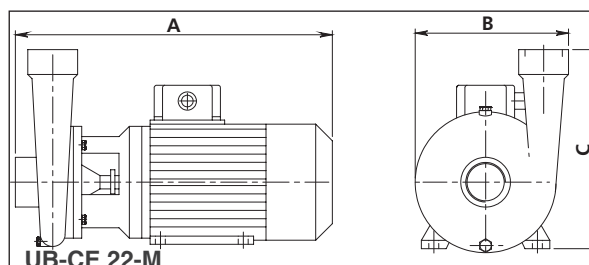
- Seawater centrifugal Pump
- Flow rate: 80 l/min
- Input power: 600 W
- Max Head: 14,0 m (46.0')
- F1" in/out connection
- Dimensions: A=303 mm, B=154 mm, C= 161 mm
- Weight: 9,1 kg (20 lbs)



UB-CE 20-M

### UB-CE 22-M – 67967B

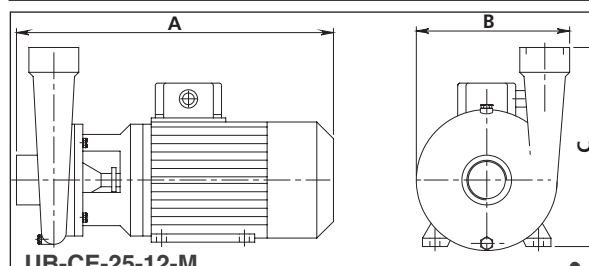
- Seawater centrifugal Pump
- Flow rate: 120 l/min
- Input power: 1000 W
- Max Head: 21 m (68.9')
- F1" in/out connection
- Dimensions: A=303 mm, B=174 mm, C= 181 mm
- Weight: 10,3 kg (22.7 lbs)



UB-CE 22-M

### UB-CE-25-12-M – 20848D

- Seawater centrifugal Pump
- Flow rate: 200 l/min
- Input power: 1300 W
- Max Head: 24 m (78.7')
- F1" in/out connection
- Dimensions: A=313 mm, B=173 mm, C= 230 mm
- Weight: 14,5 kg (31.9 lbs)



UB-CE-25-12-M

## MULTI-UNITS RELAY BOX

Relay to control a unique seawater pump by different AC units

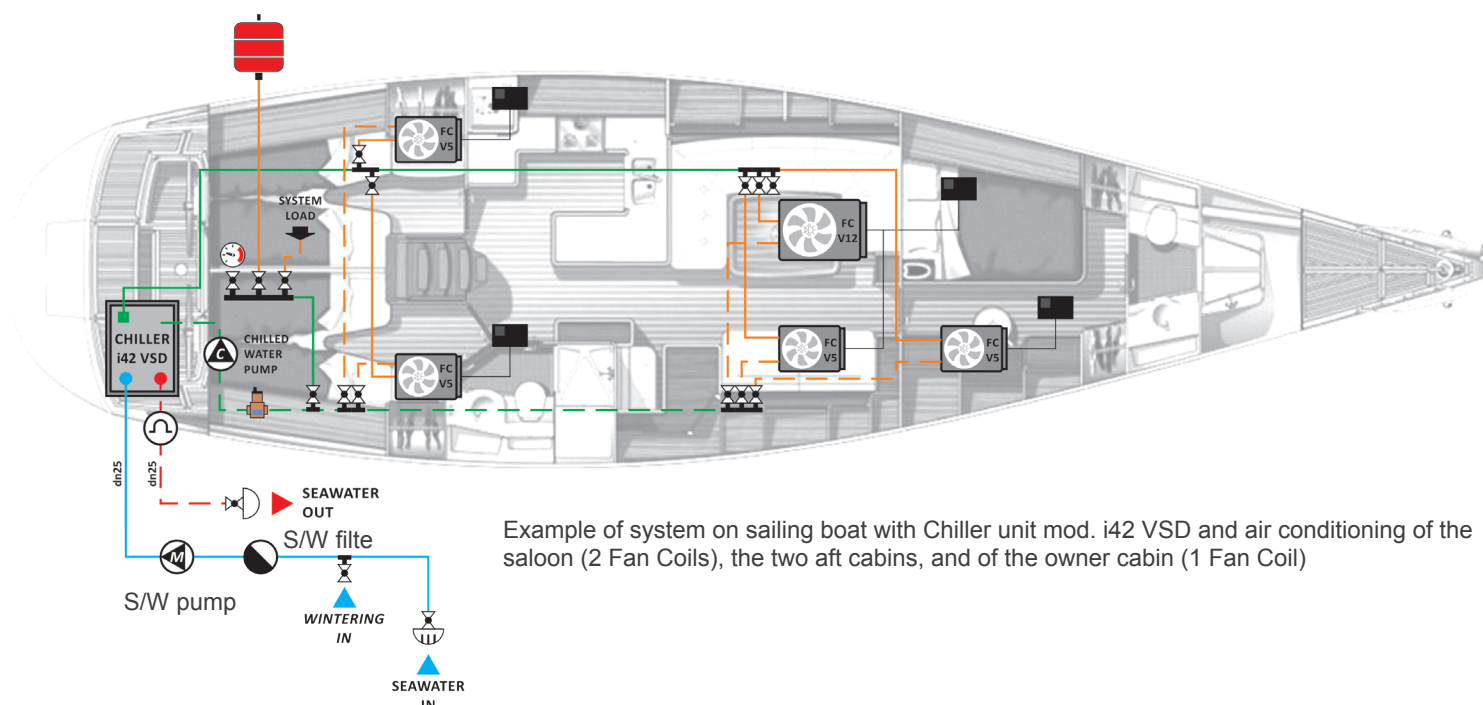
- 23391ZV - Relay Box 1 pump/2 units 230V (30A max)
- 23392BV - Relay Box 1 pump/3-6 units 230V (30A max)
- 23415LV - Relay Box 1 pump/2 units 115V (30A max)
- 23416NV - Relay Box 1 pump/3-6 units 115V (30A max)

## 23988M

VELAIR compact air conditioner retrofit kit with condensator temperature sensor + remotable room temperature sensor with 10 m cable



## SEAWATER CIRCUIT / FRESHWATER-GLYCOL CIRCUIT COMPONENTS CHILLER SYSTEMS



Example of system on sailing boat with Chiller unit mod. i42 VSD and air conditioning of the saloon (2 Fan Coils), the two aft cabins, and of the owner cabin (1 Fan Coil)

### Seawater circuit kit (nickel plated brass)

Seacock, on/off valve, water strainer, hose fittings, through hull included

|        |                                                                              |
|--------|------------------------------------------------------------------------------|
| 69475P | 1/2" through hull kit                                                        |
| 24684W | 3/4" through hull kit                                                        |
| 69488Z | 1" through hull kit                                                          |
| 69532Z | Ø int. 16 mm transparent reinforced hose - per meter                         |
| 69645N | Ø int. 20 mm transparent reinforced hose - per meter                         |
| 26200E | Ø int. 25 mm transparent reinforced hose - per meter                         |
| 20346C | 3 outlet manifold 3/4"M x 3/4"F with valve - 1/2"M connectors - Ø int. 16 mm |

## HYDRAULIC COMPONENTS FOR CHILLER SYSTEMS

|                                                                                                             |   |      |        |
|-------------------------------------------------------------------------------------------------------------|---|------|--------|
|  <b>SEA WATER INTAKE</b> | M | 1"   | 69469V |
|                                                                                                             | M | 3/4" | 24646M |
|                                                                                                             | M | 1/2" | 69431T |
|  <b>SCUPPERS</b>         | M | 1"   | 24647P |
|                                                                                                             | M | 3/4" | 69646R |



|                                                                                                                                                                                            |                         |                 |          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------|----------|
|  <b>VALVES</b>                                                                                            | F/F                     | 1"              | 69471F   |
|                                                                                                                                                                                            | F/F                     | 3/4"            | 24648S   |
|                                                                                                                                                                                            | F/F                     | 1/2"            | 21354G   |
|  <b>FILTERS</b>                                                                                           | F/F                     | 1"              | 69470D   |
|                                                                                                                                                                                            | F/F                     | 3/4"            | 24649U   |
|                                                                                                                                                                                            | F/F                     | 1/2"            | 69433X   |
|  <b>TEE</b>                                                                                               | F/F/F                   | 1"              | 24650C   |
|                                                                                                                                                                                            | F/F/F                   | 3/4"            | 24651E   |
| <br> <b>HOSE ADAPTOR</b> | M                       | 1" 25 mm        | 69638S   |
|                                                                                                                                                                                            | M                       | 1" 20 mm        | 69468T   |
|                                                                                                                                                                                            | M                       | 3/4" 25 mm      | 24653J   |
|                                                                                                                                                                                            | M                       | 3/4" 20 mm      | 24654L   |
|                                                                                                                                                                                            | M                       | 3/4" 16 mm      | 24655N   |
|                                                                                                                                                                                            | M                       | 1/2" 16 mm      | 69430R   |
|                                                                                                                                                                                            | M                       | 1/2" 20 mm      | 21355J   |
|                                                                                                                                                                                            | F                       | 1" 25 mm        | 20473K   |
|                                                                                                                                                                                            | F                       | 3/4" 20 mm      | 69474M   |
|                                                                                                                                                                                            | F                       | 3/4" 16 mm      | 24658V   |
|                                                                                                                                                                                            | F                       | 1/2" 20 mm      | 24659X   |
|                                                                                                                                                                                            | F                       | 1/2" 16 mm      | 24660F   |
|  <b>DUAL NIPLES</b>                                                                                     | M/M                     | 1"              | 69472H   |
|                                                                                                                                                                                            | M/M                     | 3/4"            | 24661H   |
|                                                                                                                                                                                            | M/M                     | 1/2"            | 24662K   |
|  <b>REDUCED DUAL NIPLES</b>                                                                             | M/F                     | 1 1/4" to 1"    | 24663M   |
|                                                                                                                                                                                            | M/F                     | 1" to 3/4"      | 24664P   |
|                                                                                                                                                                                            | M/F                     | 1" to 1/2"      | 24665S   |
|                                                                                                                                                                                            | M/F                     | 1" to 1/2"      | 69733K   |
|  <b>MANIFOLDS</b>                                                                                       | M/F                     | 3/4"-1/2" 3 way | 20346C   |
|                                                                                                                                                                                            | M/F                     | 1" 2 way        | 24668Y   |
|                                                                                                                                                                                            | M/F                     | 1" 3 way        | 24669A   |
| <br> <b>CAPS</b>     | F                       | 1"              | 24670J   |
|                                                                                                                                                                                            | F                       | 3/4"            | 21304R   |
|                                                                                                                                                                                            | M                       | 1"              | 24671L   |
|                                                                                                                                                                                            | M                       | 3/4"            | 20348G   |
|  <b>EXPANSION CHAMBERS</b>                                                                              | Max. press 8 bar - 3/4" | 5 lt            | 24667W   |
|                                                                                                                                                                                            | Max. press 8 bar - 3/4" | 8 lt            | 24007A   |
|  <b>FRESH WATER PRESSURE GAUGE</b>                                                                      | Max. press 4 bar        | 1/4"            | 20450X   |
|  <b>DEAERATOR</b>                                                                                       | M                       | 1"              | 24674T   |
|  <b>INSULATED HOSES<br/>FRESH WATER-GLYCOL</b>                                                          | -                       | DNi 16          | 24681P/M |
|                                                                                                                                                                                            | -                       | DNi 20          | 24693X/M |
|                                                                                                                                                                                            | -                       | DNi 25          | 24682S/M |

# AIR DUCTING ACCESSORIES

VELAIR

New series of modular T and Y adapters / dividers, composed of basic elements, with 100/125/150 mm inlets/outlets, 100/125/150 mm fittings to adapt the basic elements to the outlets of compact air conditioner fans , and with air reductions to be able to adapt the outlets of the base elements to the insulated air distribution pipes

| T BASIC COMPONENTS |                         |
|--------------------|-------------------------|
| PART No.           | DESCRIPTION             |
| 25571M             | T Component 100x100x100 |
| 25565T             | T Component 125x125x125 |
| 25572P             | T Component 150x150x150 |



| Y BASIC COMPONENTS |                         |
|--------------------|-------------------------|
| PART No.           | DESCRIPTION             |
| 25569B             | Y Component 100x100x100 |
| 25564R             | Y Component 125x125x125 |
| 25570K             | Y Component 150x150x150 |



| CONNECTION BASIC COMPONENTS / A/C FAN OUTLETS |                |
|-----------------------------------------------|----------------|
| PART No.                                      | DESCRIPTION    |
| 25580N                                        | Connection 100 |
| 25567X                                        | Connection 125 |
| 25581R                                        | Connection 150 |



| BASIC COMPONENTS AIR OUTLETS REDUCTION |                               |
|----------------------------------------|-------------------------------|
| PART No.                               | DESCRIPTION                   |
| 25573S                                 | Air reduction from 100 to 80  |
| 25574U                                 | Air reduction from 125 to 80  |
| 25566V                                 | Air reduction from 125 to 100 |
| 25577A                                 | Air reduction from 150 to 80  |
| 25576Y                                 | Air reduction from 150 to 100 |
| 25575W                                 | Air reduction from 150 to 125 |



Y basic component with A/C fan outlet connection and air outlets reduction installed





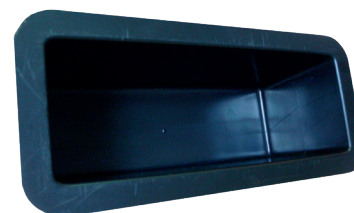
## FITTINGS FOR TRANSITION BOXES

| Ø HOSE<br>mm (") | ROUND HOSE RING | OVAL HOSE RING |
|------------------|-----------------|----------------|
| 80 (3)           | 61651P          | -              |
| 100 (4)          | 62204T          | 62206X         |
| 125 (5)          | 62205V          | 62207Z         |
| 150 (6)          | 63912C          | 62208B         |



## TRANSITION BOXES (WITHOUT FITTINGS)

| Transition boxes (without fittings) |                     |
|-------------------------------------|---------------------|
| 69534D                              | TB-04x04 mm 100x100 |
| 62216A                              | TB-06x04 mm 150x100 |
| 62217C                              | TB-08x04 mm 200x100 |
| 62531J                              | TB-08x06 mm 200x150 |
| 62555Z                              | TB-08x08 mm 200x200 |
| 62218E                              | TB-10x04 mm 250x100 |
| 62576H                              | TB-10x06 mm 250x150 |
| 61331J                              | TB-12x04 mm 300x100 |
| 63918R                              | TB-16x04 mm 400x100 |



20645N - Bend 90°  
outlet - 125 mm

## TRANSITION BOXES (WITH HOSE CONNECTIONS)

| Ring back (straight) |                                               |
|----------------------|-----------------------------------------------|
| 64252R               | TB-04x04-04OB mm 100x100 c/ racc. back mm 100 |
| 64253T               | TB-06x04-04OB mm 150x100 c/ racc. back mm 100 |
| 64254V               | TB-08x04-04OB mm 200x100 c/ racc. back mm 100 |
| 64255X               | TB-08x04-05OB mm 200x100 c/ racc. back mm 125 |
| 64256Z               | TB-10x04-05OB mm 250x100 c/ racc. back mm 125 |



## TRANSITION BOXES (WITH HOSE CONNECTIONS)

| Ring side (long side) |                                                    |
|-----------------------|----------------------------------------------------|
| 64257B                | TB-08x04-04OS mm 200x100 c/ racc. long side mm 100 |
| 64258D                | TB-08x04-05OS mm 200x100 c/ racc. long side mm 125 |
| 64259F                | TB-10x04-04OS mm 250x100 c/ racc. long side mm 100 |
| 64260P                | TB-10x04-05OS mm 250x100 c/ racc. long side mm 125 |
| 61336O                | TB-12x04-06OS mm 300x100 c/ racc. long side mm 150 |



| Ring end (short side) |                                                     |
|-----------------------|-----------------------------------------------------|
| 64261S                | TB-04x04-04RE mm 100x100 c/ racc. short side mm 100 |
| 64262U                | TB-06x04-04RE mm 150x100 c/ racc. short side mm 100 |
| 64263W                | TB-08x04-04RE mm 200x100 c/ racc. short side mm 100 |
| 64264Y                | TB-10x04-04RE mm 250x100 c/ racc. short side mm 100 |
| 64265A                | TB-10x06-05RE mm 250x150 c/ racc. short side mm 125 |





## NEW AIR DISTRIBUTION DUCT

Additivated polyolefin resin film cover flexible hose, thermo-insulating coating in netted and closed cell foam polyethylene. Antimicrobial and antiviral protection. Embedded steel wire helix.  
Light grey color surface, for A/C application, mechanical ventilation simple or double flow, great reduction of condensation and heat dispersion.

| PART No.            | DESCRIPTION   |
|---------------------|---------------|
| 26196T ( 10 m box ) | Ø int. 80 mm  |
| 26197V ( 10 m box ) | Ø int. 102 mm |
| 26198X ( 10 m box ) | Ø int. 127 mm |
| 26199Z ( 10 m box ) | Ø int. 152 mm |

**new**



### Insulated, flexible duct (aluminum/insulation)

|                    |                                |
|--------------------|--------------------------------|
| 67112PP (10 m box) | Air hose Ø int. mm 100         |
| 69139XX (10 m box) | Air hose Ø int. mm 125         |
| 67113SS (10 m box) | Air hose Ø int. mm 150         |
| 20471F             | mm 50 reinforced aluminum tape |



### Insulated, flexible duct (aluminum/insulation)

|                     |                                                         |
|---------------------|---------------------------------------------------------|
| 600116SS (10 m box) | Ø int 80 mm air duct for 75 mm round grill applications |
|---------------------|---------------------------------------------------------|

## SUPPLY ROUND GRILLS (NO PLENUM REQUIRED)

### Round plastic supply grills

|        |                                                |
|--------|------------------------------------------------|
| 25467T | mm 100 (4") VELAIR round damper vent, black.   |
| 25468V | mm 100 (4") VELAIR round damper vent, white    |
| 21213M | mm 75 (3") round damper vent, black            |
| 69615D | mm 75 (3") round damper vent, white            |
| 69428E | mm 100 (4") round grill, white (not closeable) |
| 69616F | mm 100/75 (4"/3") round adapter                |
| 20648V | mm 125/100 (5"/4") round adapter               |



\* air distributions hoses are supplied in 10m length boxes





## RETURN / SUPPLY AIR GRILLS

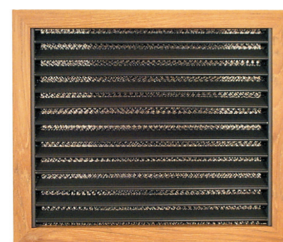
### Anodized aluminum return air grills

|        |            |
|--------|------------|
| 69490K | mm 250x150 |
| 69422S | mm 300x200 |
| 61380Z | mm 300x300 |
| 69423U | mm 400x250 |
| 61381A | mm 400x400 |
| 66706R | mm 600x150 |



### Teak return air grills (with air filter)

|        |            |
|--------|------------|
| 69494U | mm 250x150 |
| 69497A | mm 300x200 |
| 69498C | mm 400x250 |



### White aluminum return air grills (with air filter)

|        |            |
|--------|------------|
| 20864B | mm 250x150 |
| 69605A | mm 300x200 |
| 20865D | mm 400x250 |



### Anodized aluminium supply air grills

|        |            |
|--------|------------|
| 20652K | mm 297x53  |
| 20651H | mm 475x55  |
| 69466N | mm 100x100 |
| 69022Z | mm 150x100 |
| 69023B | mm 200x100 |
| 62532L | mm 200X150 |
| 63074M | mm 200x200 |
| 69021X | mm 250x100 |
| 69421P | mm 250x150 |
| 21319E | mm 300x100 |



### Teak supply air grills

|        |            |
|--------|------------|
| 64195F | mm 100x100 |
| 64534B | mm 150x100 |
| 64535D | mm 200x100 |
| 64536F | mm 200x150 |
| 61652S | mm 250x100 |
| 61653U | mm 250x150 |
| 64361W | mm 250x250 |
| 22187V | mm 300x100 |

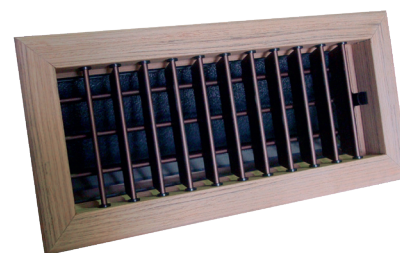




## AIR GRILLS

### Teak supply damper vents (closeable)

|        |            |
|--------|------------|
| 69492P | mm 100x100 |
| 69493S | mm 200x100 |
| 69910F | mm 250x100 |
| 69506Y | mm 250x150 |



### White aluminum supply air grills

|        |            |
|--------|------------|
| 69914P | mm 100x100 |
| 69915S | mm 200x100 |
| 62539B | mm 200x150 |
| 69916U | mm 250x100 |
| 22791L | mm 300x100 |



### Black aluminum supply air grills

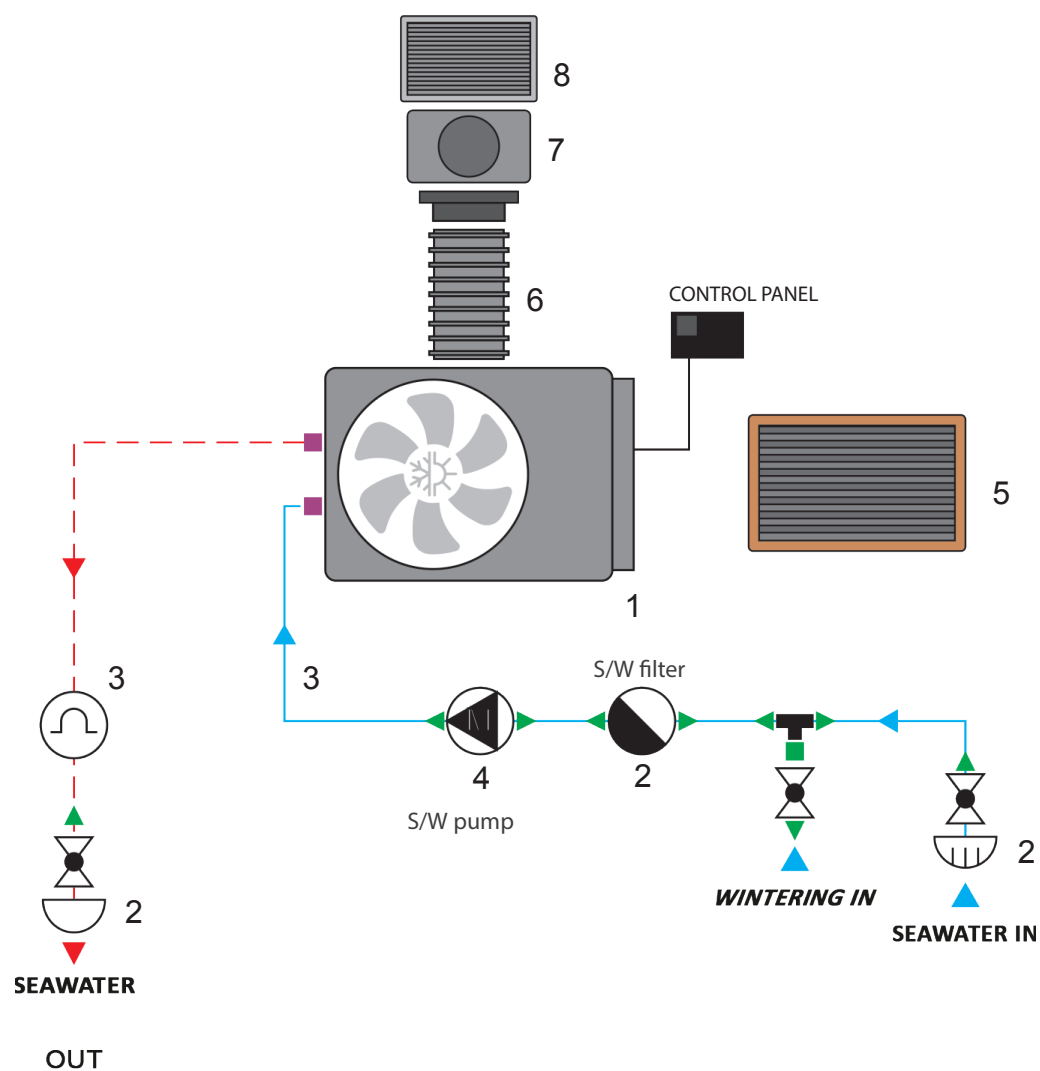
|        |            |
|--------|------------|
| 20881B | mm 200x100 |
| 69630Z | mm 250x100 |
| 69631B | mm 400x100 |



### White aluminum supply grills (closeable)

|        |            |
|--------|------------|
| 69533B | mm 100x100 |
| 69917W | mm 200x100 |
| 69918Y | mm 250x100 |



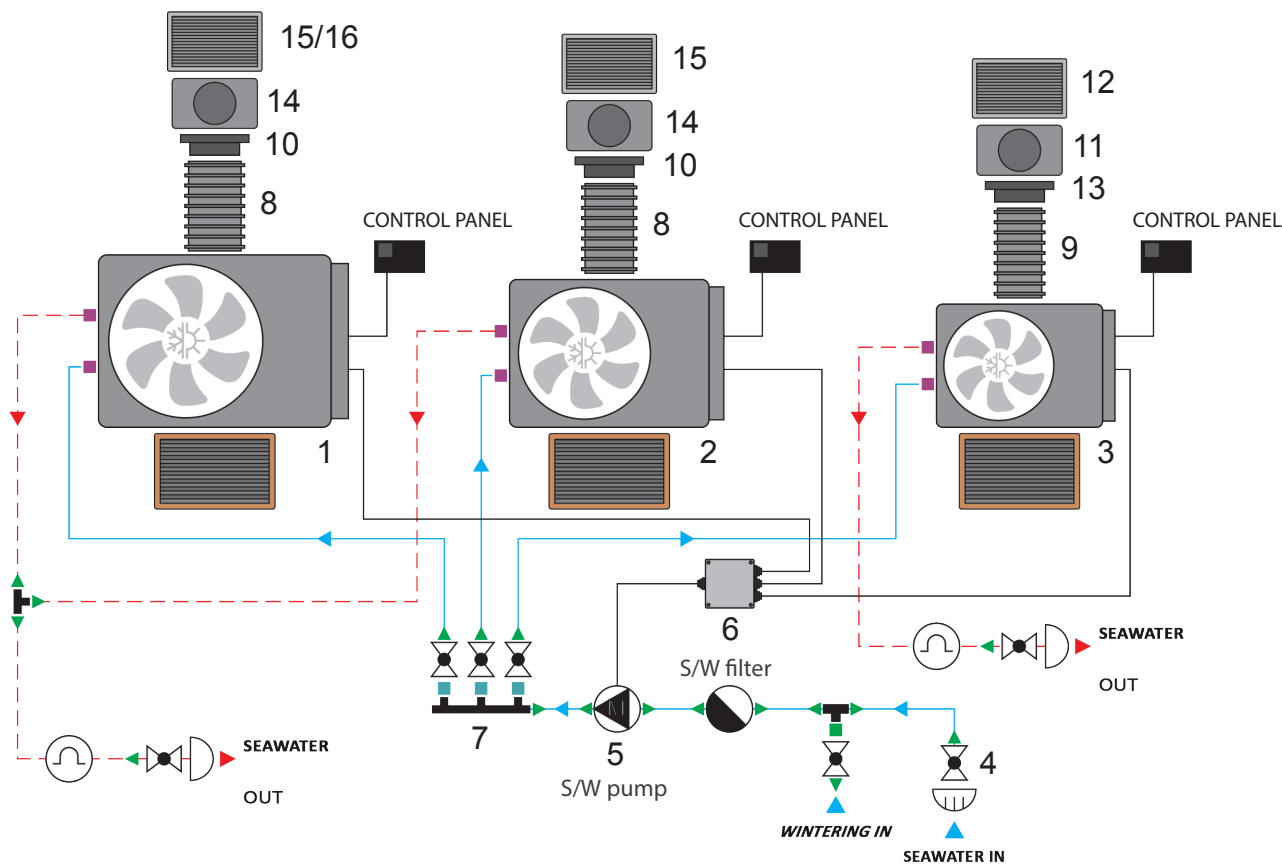


## COMPACT 7 CONFIGURATION EXAMPLE

| LEGEND                       | PART NO. | MODEL            | SPECIFICATIONS                                     | QUANTITY |
|------------------------------|----------|------------------|----------------------------------------------------|----------|
| <b>Air conditioning Unit</b> |          |                  |                                                    |          |
| 1                            | 20379UW  | Compact 7        | Compact 7 - 7.000 btu On-Off 220V                  | 1        |
| <b>Water accessories</b>     |          |                  |                                                    |          |
| 2                            | 69475P   | Through hull kit | 1/2" Through hull kit                              | 1        |
| 3                            | 69532Z   | HOSE16mm         | Water hose Ø 16mm - metres                         | 5        |
| 4                            | 69886M   | PMD-221          | Seawater pump PMD-221 15l/min                      | 1        |
| <b>Air distribution</b>      |          |                  |                                                    |          |
| 5                            | 69490K   | NOVA-R           | Return air grille mm 250x150                       | 1        |
| 6                            | 67112P   | I26              | Insulated flexible duct Ø mm 100 - metres          | 10       |
| 7                            | 64253T   | TB-06X04-04OB    | Transition box mm 150x100 - mm 100 rear connection | 1        |
| 8                            | 69022Z   | NOVAA22          | Supply air grill mm 150x100                        | 1        |

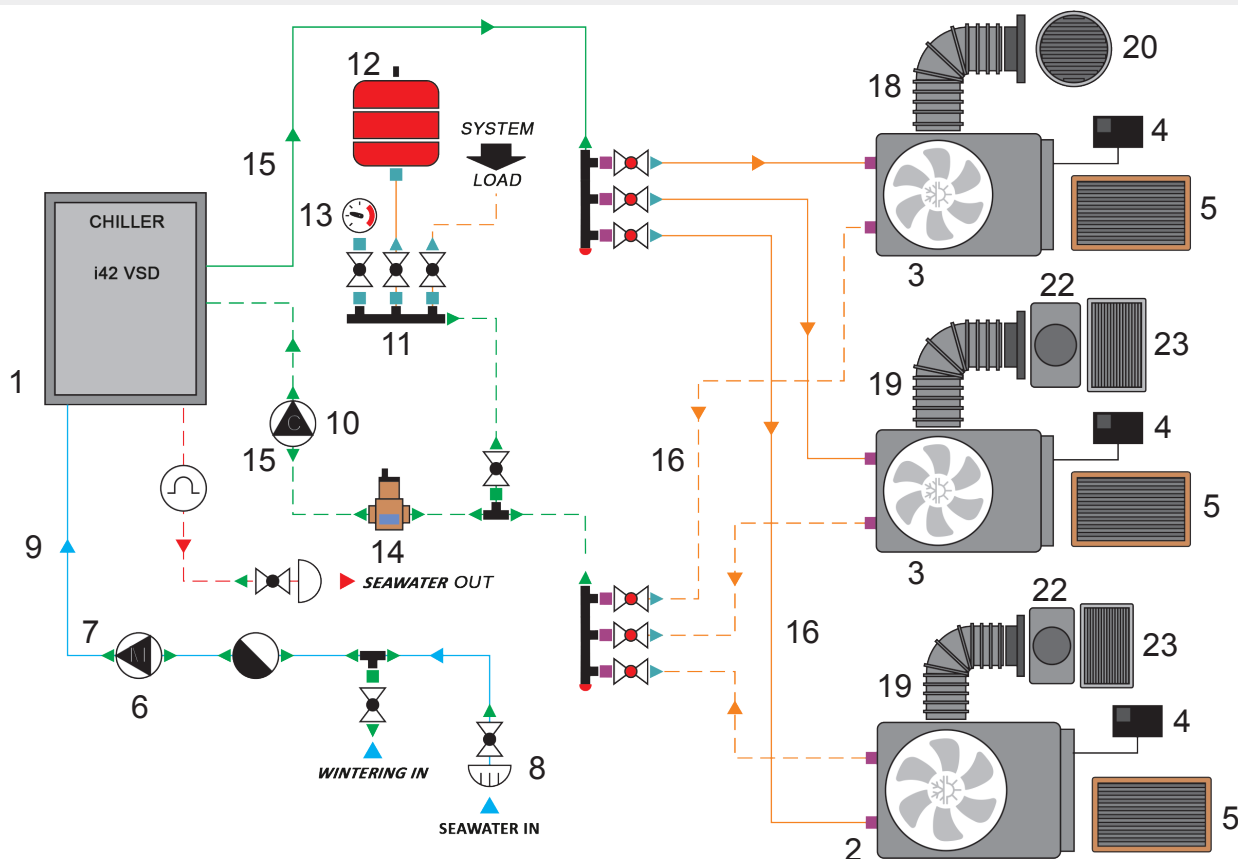
CONFIGURATIONS

VELAIR



COMPACT i21, i16, i10 VSD CONFIGURATION

| LEGEND                | PART NO. | MODEL                 | SPECIFICATIONS                                 | QUANTITY |
|-----------------------|----------|-----------------------|------------------------------------------------|----------|
| Air conditioning Unit |          |                       |                                                |          |
| 1                     | 24765WW  | Compact i21 VSD       | Compact i21 VSD - 21.000 btu 220V              | 1        |
| 2                     | 24832JW  | Compact i16 VSD SMART | Compact i16 VSD SMART - 16.000 btu 220V        | 1        |
| 3                     | 24831GW  | Compact i10 VSD SMART | Compact i10 VSD SMART - 10.000 btu 220V        | 1        |
| Water accessories     |          |                       |                                                |          |
| 4                     | 69488Z   | BH KIT-1              | 1" through hull kit                            | 1        |
| 5                     | 20349J   | PMD-641               | Seawater pump 55l/min                          | 1        |
| 6                     | 23392BV  | Relay box             | Relay box 1 pump/3-6 units 230V (30A max)      | 1        |
| 7                     | 20346C   | 8820173               | 3 outlet manifold 3/4"Mx3/4"F with valve       | 1        |
| Air distribution      |          |                       |                                                |          |
| 8                     | 67113S   | T I.26-152            | Ø int. mm 150 insulated flexible duct - metres | Q.S.     |
| 9                     | 69139X   | T I.26-127            | Ø int. mm 125 insulated flexible duct - metres | Q.S.     |
| 10                    | 62208B   | HRO6                  | 150 mm oval hose ring                          | 2        |
| 11                    | 62531J   | TB-08x06              | 200x150 mm transition box                      | 2        |
| 12                    | 69421P   | NOVAA 2-2 2515        | 250x150 mm aluminium supply air grill          | 3        |
| 13                    | 62207Z   | HRO5                  | 125 mm oval hose ring                          | 1        |
| 14                    | 62531J   | TB-08x06              | mm 200x150 mm transition box                   | 1        |
| 15                    | 69422S   | NOVA-R3020            | 300X200 mm aluminium supply air grill          | 2        |
| 16                    | 61380Z   | NOVA-R3030            | 300X300 mm aluminium supply air grill          | 1        |



## CHILLER i42 + 3 FANCOILS CONFIGURATION EXAMPLE

| LEGEND                                      | PART NO. | MODEL           | SPECIFICATIONS                                        | QUANTITY |
|---------------------------------------------|----------|-----------------|-------------------------------------------------------|----------|
| <b>Air conditioning Unit</b>                |          |                 |                                                       |          |
| 1                                           | 69338D   | Chiller i42 VSD | Chiller - Capacity range: 18.000 - 42.000 BTU/h       | 1        |
| 2                                           | 23399S   | V12             | Fancoil - cooling capacity 12000 BTU/h                | 1        |
| 3                                           | 23398P   | V5              | Fancoil - cooling capacity 5000 BTU/h                 | 2        |
| 4                                           | 24600L   | VFC-DSP         | Digital control panel                                 | 3        |
| 5                                           | 69490K   | NOVA-R          | 250x150mm anodized aluminium return air grill         | 3        |
| <b>Water accessories</b>                    |          |                 |                                                       |          |
| 6                                           | 67960L   | UB-CE 16-M      | Seawater centrifugal pump P. Max. 40 l/min - 230 VAC  | 1        |
| 7                                           | 69468T   | 1004#100149     | Hoseholder - M 1" hose Ø int.20 mm                    | 2        |
| 8                                           | 69488Z   | BH KIT-1        | 1" through hull kit                                   | 1        |
| 9                                           | 69645N   | Hose 20         | Ø int. 20 mm reinforced hose - metres                 | 5        |
| <b>Freshwater-glycol circuit components</b> |          |                 |                                                       |          |
| 10                                          | 67964V   | UB-CE 20-M      | Seawater centrifugal pump, P. Max. 80 l/min - 230 VAC | 1        |
| 11                                          | 24669A   | 1007CV#10042B   | 3 outlet manifold                                     | 1        |
| 12                                          | 24637L   | RN650271A       | 5l expansion chamber                                  | 1        |
| 13                                          | 20450X   | PRESSURE GAUGE  | Pressure gauge                                        | 1        |
| 14                                          | 23376D   | DEAERATOR       | 1" deaerator                                          | 1        |
| 15                                          | 24682SM  | D25 HOSE        | D25 insulated hose                                    | 5        |
| 16                                          | 24681PM  | D16 HOSE        | D16 insulated hose                                    | 20       |
| 17                                          | NA       | MISCELLANEOUS   | Hydraulic fittings                                    | Q.S.     |
| <b>Air distribution</b>                     |          |                 |                                                       |          |
| 18                                          | 67112P   | T I.26-102      | Ø int. mm 100 insulated flexible duct - metres        | 10       |
| 19                                          | 69139X   | T I.26-127      | Ø int. mm 125 insulated flexible duct - metres        | 10       |
| 20                                          | 62209D   | RND DAMP4" B    | mm 100 round damper vent, black                       | 1        |
| 21                                          | 64256Z   | TB-10x04-05OB   | mm 250x100 c/ racc. mm 125 back transition box        | 1        |
| 22                                          | 64264Y   | TB-10x04-04RE   | mm 250x100 c/ racc. mm 100 short side transition box  | 1        |
| 23                                          | 69630Z   | BS2510          | mm 250x100 black aluminium supply air grill           | 2        |



Velair marine air conditioning systems are a safe choice. Velair reliability is also guaranteed by an excellent technical assistance, with pre and after sales support, managed directly from our offices in Italy and in the United States and supplied all over the world, through our official network of distributors, workshops and affiliated centres, able to provide spare parts and immediate assistance.

For further information, please contact our After-Sales Service at the email address [service@ultraflexgroup.i](mailto:service@ultraflexgroup.i)



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**NOTES**





NOTES

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