



Net room volume LxWxHx0,8 m³	Below deck rooms with portholes		
	Cold weather BTU	Hot weather (Mediterranean) BTU	Tropical weather 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 LxWxHx0,8 m³	Deck cabins with windows		
	Cold weather BTU	Hot weather (Mediterranean) BTU	Tropical weather 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 LxWxHx0,8 m³	Deck cabins with large windows		
	Cold weather BTU	Hot weather (Mediterranean) BTU	Clima tropicale 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



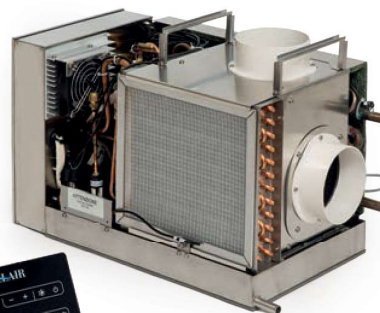
Net room volume LxWxHx0,8 m³	Luxury motoryachts with large windows		
	Cold weather BTU	Hot weather (Mediterranean) BTU	Tropical weather BTU
10	6.000	7.500	9.750
15	9.000	11.250	14.625
20	12.000	15.000	19.500
25	15.600	18.750	24.375
30	18.000	22.500	29.250
35	21.000	26.250	34.125
40	24.000	30.000	39.000
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

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



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 temperature of the air flow
- Increase in component lifetime
- New wall touch display
- WIFI: remote control via smartphone
- Designed and manufactured in Italy



Compact i10 VSD



VARIABLE SPEED DRIVE



VELAIR APP



Self-contained-VSD air conditioners provides 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; R410A refrigerant.

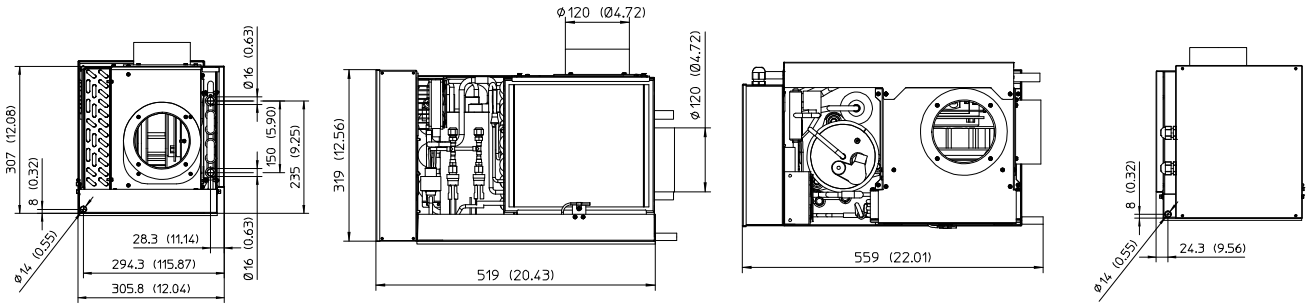
Available in three sizes: **10.000**, **16.000** and **21.000** BTU/h max output.

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.

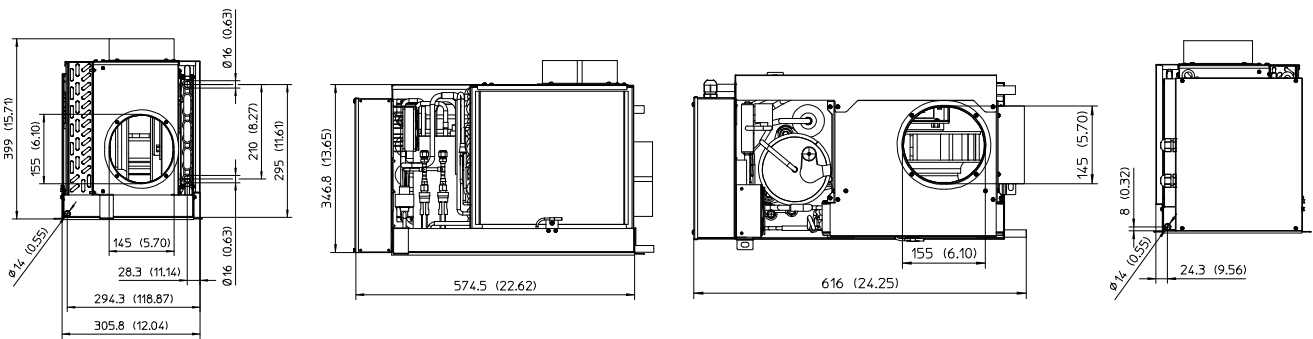
Self-contained-VSD VELAIR units meet EMC 2004/108/EC directives.

Model	Compact i10 VSD	Compact i16 VSD	Compact i21 VSD
230V/1ph/50-60Hz version Part No.	69752PW	69750KW	22571WW
115V/1ph/50-60Hz version Part No.	69752PU	69750KU	22571WU
Cooling capacity range	4.000 - 10.000 BTU	6.000 - 16.000 BTU	7.000 - 21.000 BTU
Heat pump	Yes	Yes	Yes
Maximum input power cooling	0,68 Kw / 3,1 A	1,03 Kw / 4,6 A	1,35 Kw / 6,1 A
Input power ECO mode	0,24 Kw / 1,1 A	0,35 Kw / 1,6 A	0,46 Kw / 2,1 A
Min. seawater flow	12 l/min	17 l/min	20 l/min
Maximum air flow	400 m ³ /h	550 m ³ /h	800 m ³ /h
Air exit duct (for max capacity)	2 x Ø 125 mm - 2 x Ø 4.9"	2 x Ø 150 mm - 2 x Ø 6"	3 x Ø 152 mm - 3 x Ø 6"
Min.opening for return air grill	400 cm ²	600 cm ²	800 cm ²
Min.opening for supply air grill	250 cm ²	300 cm ²	400 cm ²
Refrigerant	R410A	R410A	R410A
Control panel cable length	8 m	8 m	8 m
Width - including electrical box	559 mm - 22"	575 mm - 22.6"	653 mm - 25.7"
Height	319 mm - 12.6"	347mm - 13.7"	457 mm - 18"
Depth	306 mm - 12"	306 mm - 12"	322 mm - 12.7"
Weight	27 kg - 59.5 lbs	30kg - 66.1 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

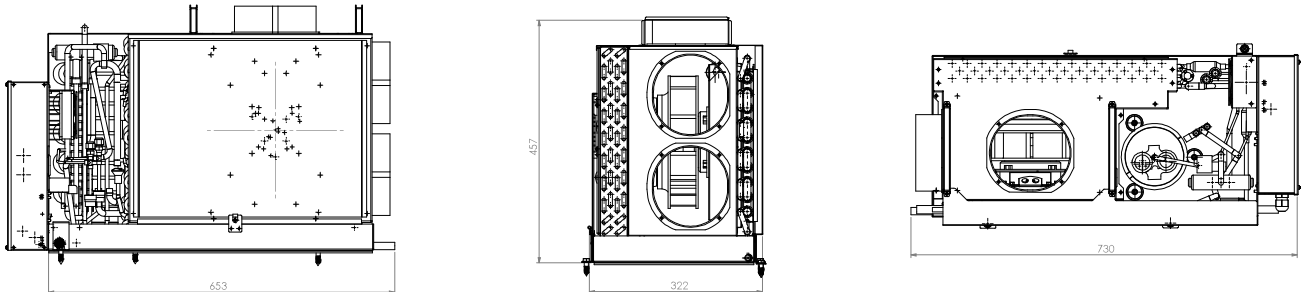
COMPACT i10 VSD - 69752PW



COMPACT i16 VSD - 69750KW



COMPACT i21 VSD- 22571WW



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

