

PROJECT: AVANTE 2200 CORVETTE  
SHIPYARD: NAVANTIA  
SYSTEM: HVAC



## GENERAL DATASHEET

DATA SHEET		CHILLED WATER UNITS. CWP-CHW00001 / CWP-CHW00002 / CWP-CHW00003
<b>Description</b>	<b>Tech. Data</b>	
Quantity	3	
Maker	Frizonia	
Model	Taylor made	
Nominal Refrigeration power	517 kW	
Max. absorbed power	204 kW	
Aprox. Weight operational (Kg)	3315	
Size (L x W x H)	See Drawing P-MO5462-016	
<b>Operation Conditions (Each unit)</b>		
Water condensation	Sea Water	
Refrigerant	134a	
Voltage	3 x 440 / 60Hz	
Chilled water flow	97 m3/h	
Condensing water flow	82,5 m3/h	
Aprox. Refrigerant charge (kg)	100	
Aprox. Oil charge (kg)	40	
<b>Compressor</b>		
Quantity	2	
Maker	Bitzer	
Model	CSW 8573-90Y-44P	
Type	Screw	
Regulation	Automatic	
Nominal Power consumption (kw)	76	
Nominal Working Amps at full capacity	110	
Motor plate max. power input (kw)	130	
Motor plate max. operating Amps	190	
Frequency drive	Yes	
<b>Sound Power</b>	<b>87.5 dB(A)</b>	
<b>Sound Pressure @ 1 meter</b>	<b>79.5 dB(A)</b>	
<b>Condenser</b>		
Quantity	1 (two circuits type)	
Maker	Termojet	
Model	CON326-2P-2C-10-20-19CN-96	
Type	Shell and Tube	
Nº pass	2	
Tubes:	CuNi 90/10	
Refrigerant side	Shell	
Heat dissipation (kW)	2 x 340	
Sea Water Temperature (inlet/outlet) °C	35 / 42,5	
Condensing Temp °C	+46	
Sea water consumption	82,5	
Pressure loss (bar)	0,3	
Water speed (m/s)	1,66	
Design pressure (bar)		
Refrigerant side	22	

PROJECT: AVANTE 2200 CORVETTE  
SHIPYARD: NAVANTIA  
SYSTEM: HVAC



Sea water side	5
Test pressure (bar)	
Refrigerant side	33
Sea water side	7,5
<b>Evaporator</b>	
Quantity	1 (two circuits type)
Maker	Bitzer
Model	DH2-403H
Type	Shell and Tube
Nº pass	1
Tubes:	Copper
Refrigerant side	Tubes
Chilled water flow (30% ethylen glycol) (m3/h)	97
Refrigeration capacity (kW)	517
Evaporating Temp °C	2
Insulation	Armaflex NH type or similar
Chilled water temperature (inlet/outlet) °C	6,5 / 11,5
Pressure loss (bar)	0,37
<b>Accessories</b>	
Filter dryer for liquid line	Yes
First charge with compressor oil	Yes
Oil separator	Yes (incorporated in the compressor)
Liquid sight glass with moisture indicator	Yes
Insulation	Armaflex NH or similar
Safety valves	Yes
Service valves	Yes
Refrigerant Manometers	Yes
High, low, oil pressure switches &/or transducers	Yes
Internal refrigerant lines & fittings	Yes.

**Note:**

***Thermal dissipation by motor compressors is absorbed by gas refrigerant and is not radiated to ambient.***

***The thermal dissipation to ambient by control panel is approximately 2 kW.***