

2.2.7 Compressor unit for RSW-tank (RSW tank) and
Glazing water device

2.2.7.1 Reciprocating compressor

Manufacturer	GRAM
Type	HC-4075, NH3
Quantity compressor	1
Cooling capacity approx.	70 KW
Compressor speed	1,640 UPM
Capacity required	26 KW
Bore	75 mm
Stroke	75 mm
Quantity cylinders	4
Replacement	131 m3/h
Rated capacity E-Motor	30 KW
Condensing Temp.	+ 38 °C
Evaporation Temp.	- 7 °C
Capacity control for each compressor	100-75-25 %
Drive	V-belt drive

2.2.7.2 Electrical motor for reciprocating compressor

Quantity	1
Capacity	30 KW
Quantity revolutions	1,450 UPM
Design	IMB 3
Enclosure	IP 55
Insulating class	F

2.2.7.3 V-belt drive

V-belt pulley compressor	Dim = 351 mm
V-belt pulley E-motor	Diam = 400 mm
Quantity drive belts	3

2.2.7.4 Protection v-belt drive

Manufacturer	GRAM
Quantity	1

2.2.7.5 Oil Separator

Manufacturer	GRAM
Type	HC-4-130
Quantity	1
Theoretical foerdervolumen	330 m ³ /h

2.2.7.6 Sea water cooler

Manufacturer	Helpman
Type	VKCN 12-200SSP
Quantity	1
Cooling capacity	approx. 70 KW
Sea water inlet temp.	+ 30 °C
Sea water outlet temp.	+ 1 °C
Evaporation temp.	- 5 °C
Condensation temperature	+ 38 °C
Sea water flow	2,0 m ³ /h
Pressure drop water-side	0.2 bar

2.2.7.7 Glazing water cooler

Manufacturer	Alfa Laval
Type	NB 51-10
Quantity	1
Cooling capacity	approx. 7.0 KW
Water entrance	+ 30C °
Water withdrawal.	+1 °C
Evaporation temp.	0 °C
Condensation temperature	+ 38C °
Flow water	0.2 m ³ /h
Pressure drop water-side	0.2 bar

2.2.7.8 Control and safety device panel

The control is integrated in the main switch board.

2.3 Cargo hold air coolers

Instructions for each cooler:

Manufacturer	Helpman
Type	ZLE 248-12-V-Q
Quantity fans	4
Electrical capacity	0.55 KW
Fan speed	1,450 UPM
Stat. Pressure fan	35 mmWS
Throwing range fan	21 m
Hotgas defrosting for:	casing and drip pan
Electrical defrosting for:	condensation water drain and fan ring
E-capacity defrosting and fans of each cooler	approx. 150 W (defrosting) and 300 W(fan)
Condensing temperature	+ 38 °C
Evaporation temperature	- 35 °C
Propelled fans	Directly on motor shaft

2.4 Temperature indication device

Temperature measuring points	3 x cargo hold 2 x Provisions refrigerating room, 1 x RSW tank
Manufacturer	PMA
Indicator module type	
Amount of indicator module	1x in cooling control panel 1x on bridge
Temperature sensor type	
Printer type	
location of printer	in the control panel area in

2.5 NH3 gas alarm system with 6 measuring points

Quantity gas sensors	6
Manufacturer	Beutler
Gas reporting center, panel mounting	
Type	GMZ 8 NE
Warning giving	visually / acoustically
Electrical data:	
Operating voltage requirement	220 V, 50Hz Capacity approx. 200 VA
Gas sensor type	S813 C/2-Al-W(s)