

NOMENCLATURE ADDITIONAL PIPE TREATMENT: H = HOT DIP GALVANIZED;  
P = PICKLED and NEUTRALIZED; T = TRACING; I = INSULATED

PIPE CODE	SPECIFICATIONS	MATERIAL	DOCUMENT
10u	OD=10, DN 8, soft	Copper	1011053
20a	OD=26.9, DN 20, Normal	Steel	1010971
25a	OD=33.7, DN 25, Normal	Steel	1010971
32a	OD 42.4, DN 32, Normal	Steel	1010971
50a	OD=60.3, DN 50, Normal	Steel	1010971

**Bureau Veritas Marine & Offshore**  
 Section 47.158L.....  
**REVIEWED**  
 only for parts concerning Classification,  
 and as per contract.  
 Rotterdam, 13-May-2024  
 [Electronic document]  
 The plan approval office

**NOTE**

- Install de-aeration plug at highest point in system;
- 1/2" drain plugs must be installed at lowest points of all lines;
- Threaded pipes must be applied pipe class b.

**REFERENCE DOCUMENTS**

Function	Doc.nr	Class	Title
391	1209712	INS-EXT	Notes for piping drawings
Function	Func.seq.	Class	Title
330	001	DRAW-2D	Boxcooler arrangement

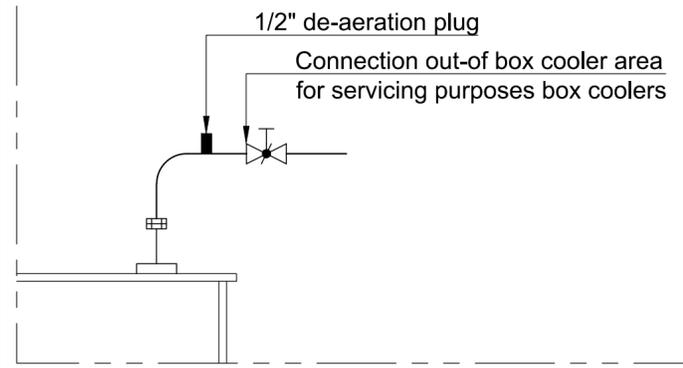
Rev	Date	Drawn	Checked	Revision text
A01	01-11-2023	QKON01	CPAD01	Initially created

Projection		 <b>DAMEN SHIPYARDS GORINCHEM</b> <small>Industrieterrein Avelingen West 20 P.O. Box 1 4202 MS Gorinchem 4200 AA Gorinchem The Netherlands</small>
Format	A2	
Scale	1:1	
Units	mm	

<b>Cooling water system</b>			
<b>AC</b>			
Doc class	DRAW-2D	Drawn	QKON01
Derived from	2783404-1-D01		
Project No.	513233	Function	332
Sequence	001	Checked	CPAD01
Date	10-11-2023		
Yard No.	Section/Compartment		Document number
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Sheet	1	Revision	A01

ISO 5457 - ISO 7200 A2 TransNo. TE-513233-00012-01 / Issue: For Approval / Date: 22-01-2024

**TYPICAL DETAIL BOX COOLER CONNECTION**



**COOLING WATER CONTENTS**

CIRCUIT	CONDENSOR	EXP. TANK	BOXCOOLER	PIPELINES	QTY.	TOTAL
AC cooling water	32 ltr	30 ltr	71 ltr	Approx 73 ltr	1X	206 ltr

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MATERIAL

<b>Cooling water system</b>				Top Part	M332
Project No.	513233	Function	332	Drawn	QKON01
Yard No.	Section/Compartment			Check	CPAD01
COPYRIGHT DAMEN SHIPYARDS GROUP				Document number	5502148
				Date	10-11-2023
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				Revision	A01

POS	PART		DESCRIPTION	DOC NO
	QT.	UNITS		
001	1410825		[TA], Pump, Electrical, MN-32/200, 50Hz/1.5kW/400V/1450rpm,	
	1	pcs	60Hz/1.7kW/440V/1750rpm, DN50, DN32, Cast iron, Impeller:210mm Br	
002	1000358		Pressure gauge valve, 861, 1/4" (8), BSPP male, BSPP female,	1062556
	2	pcs	Hand wheel, PN125, Brass	1
003	1204252		Pressure gauge, Bourdon tube, 3660, -1/0.6bar, D=63mm, 1/4",	2188438
	1	pcs	BSPP male, Mount:Direct, Conn:Below, Liquid-damped, Case:Stainles	1
004	1155843		Pressure gauge, Bourdon tube, 3660, 0/6bar, D=63mm, 1/4", BSPP male,	2188438
	1	pcs	Mount:Direct, Conn:Below, Liquid-damped, Case:Stainless steel, Co	1
005	1133486		Tank, 30l, L=400mm, W=300mm, H=330mm, Cooling water expansion,	1131386
	1	pcs	Expansion, Steel	1
006	1011083		ASSY, Level Switch, Cooling water with accessories, EL150K1/ZA,	1055911
	1	pcs	For water & oil, with gasket and fastners, Back case (red color p	1
007	1004997		ASSY, Filler Cap, Relief press. 0.5 bar, For expansion tank	1143476
	1	pcs	coolingwater, incl., Cap, filling neck, flange, gasket, bolts, Br	1
008-01	1009005		Hose, Water, di=10mm, OD=16mm, s=3mm, WP=18bar, PM=54bar, Tmin=-5Cel,	
	1	m	Tmax=60Cel, Inlay=1x, Synthetic inlay, Transparent, PVC	
011	1000814		Fill and drain valve, 447, 1/2" (15), BSPP male, Hose pillar, Button,	
	1	pcs	PN16, Brass	
013	1011155		Glass thermometer, 1645, 0/120Cel, L=63mm, 1/2", BSPP male,	1337361
	2	pcs	Connection:Brass, Straight, Pmax=16bar, Aluminium, DIN 16195	1
015	1008301		De-Aeration Plug, G 1/4 inch, including steel socket and copper ring,	1143315
	1	pcs	Stainless steel	1
016	1412627		ASSY, Foundation Driptray, 550x350x70mm, t=4mm, for Azcue MN-32/160,	2848230
	1	pcs	Steel S235JR (1.0038)	1
017	1144719		[TA], Butterfly valve, 4622, DN50, Flange, Sealing:EPDM, Worm	
	2	pcs	gearbox, PN16, FL:PN16, Cast iron GGG 40 (EN-JS 1030), EN 558-1	