



Pos.	TAG NO.	TAS-preheating components	Total no of components
1		Box cooler for bow thruster 5	1
2		Box cooler for bow thruster 6	1
3		Box cooler for bow thruster 7	1
4		Plate heat exchanger for 200 KW, 7m³/h, 45°C to 75°C Heat recovery water inlet TAS-preheater 80°C	1
5		Pressure Transmitter, TAS-water after pump	1
6		Common Temperature sensor TAS inlet for Box cooler	1
7		Common Temperature sensor TAS-outlet for Box coolers	1
8		Temperature sensor general heating water inlet 4	1
9		Temperature sensor general heating water outlet 4	1
10A, B,		TAS-inlet solenoid valves ( SVII.1 +SVII.2), mounted on box cooler 1	2
11A, B		TAS-outlet solenoid valves SVO 2.1+SVO2.2), mounted on box cooler 1	2
12A, B,		TAS-inlet solenoid valves ( SVII.1 +SVII.2), mounted on box cooler 2	2
13A, B		TAS-outlet solenoid valves SVO 2.1+SVO2.2), mounted on box cooler 2	2
14A, B,		TAS-inlet solenoid valves ( SVII.1 +SVII.2), mounted on box cooler 3	2
15A, B		TAS-outlet solenoid valves SVO 2.1+SVO2.2), mounted on box cooler 3	2
20		TAS-pump, 8 m³/h, 1,5 bar, 90°C max. for Stern thruster	1
21		Monitoring and Controlling Box -MCB 1	1
22A,B		Flaps sea chest with electric actuator	3

Notice: This is ownly a prinipal flow diagramm!

NOTE:  
BOX COOLER AND ALL PARTS NAMED  
IN THE TAS COMPONENT LIST WILL BE  
SUPPLIED BY HEAT NORD COMPANY.

Verf. Index	Anzahl	Art der Änderung	Bestell	Gesamt	Bestell
Microfilm	Rev.	Rev.	Nummer	Nummer	Nummer
Zul. Abw. DIN ISO 2768-mK		Werkstoff		Maßstab	
Permiss. Dev. DIN ISO 2768-mK		Material		/	
Oberfl. DIN ISO 1302		Modell-Nr.		Benennung	
Surface DIN ISO 1302		Pattern No.		Title	
Verwendungsbereich		HEAT Nord GmbH		PID_TAS_3BC_Bow-Thruster	
Field of Application		HEAT Nord GmbH		HEAT Nord GmbH	
TAS Box cooler 5-7		HEAT Nord GmbH		HEAT Nord GmbH	
2013		Datum		Name	
25.10.2013		Date		Name	
Geprüft		Mitarbeiter		Zeilungs-Nr.	
Checked		Name		Drawing No.	
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		Entst. aus		Ers. für	
		Prev. Dwg.		Repl/mt for	
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