




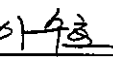

FOR REFERENCE

SEPTEMBER-10-2010

STX Offshore & Shipbuilding Co.,Ltd.

TOTAL (20) SHEETS WITH A COVER

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stx	HULL NO.	F 1004			
	TYPE	GT2 NOBLE DRILLSHIP			
MANAGER :	S.H. YOON 	TITLE HVAC EQUIPMENT DATA SHEET			
CHECKED :	C.J. YANG 				
	S.K. SEO 				
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DEPT	HULL OUTFITTING DESIGN TEAM	SCALE NONE	DATE 2010.09.10	DWG. NO. V47C3001	REV. NO. 

stx Offshore & Shipbuilding

PLAN HISTORY

DATE	REV.	CONS.	DESCRIPTION	DWN.	CHKD	MGR.
2010.09.10	△ A		PREPARED BY HULL OUTFITTING DESIGN TEAM. THIS DRAWING IS SAME AS THOSE OF M4001.	/	/	/
			ISSUED FOR REFERENCE TO OWNER.			
			ISSUED FOR WORKING TO YARD.			

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		DWG. NO.	V47C3001
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STX Offshore & Shipbuilding Co., Ltd.



PROVISION REFRIGERANT PLANT

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PROJECT No.: F1004 NOBLE

DOC. No.: V47C3001

Rev. No.: A

Tag No.	900-HPF-001A & B	Location	Main Deck
System No.	900	Number required	LOT
Size and type	REFER TO GA DRAWINGS (V47F1000)	Enquiry No.	
Supplier	HI AIR KOREA Co. Ltd.	Quote No.	
Manufacturer	HI AIR KOREA Co. Ltd.	Purchase order No.	GAF1004AP0
Model		Job No.	
		Serial No.	

1 Unit composition

Ref. P & ID No.: V47F1000

Component Description	Tag No.		Ref. Data sheet No.
Compressor	900-CAE-001A	900-CAE-001B	
Condenser	900-CND-001A	900-CND-001B	
Motor	900-EMA-001A	900-EMA-001B	

2 Technical Data

Location		Main Deck
Cooling capacity	kW	7.7
Refrigerant	Type	R-407C
Inlet / Outlet Temperature	°C	38 / 39.5
Evaporating Temperature	°C	-24.1
Condensing Temperature	°C	41.6
Water Consumption	m3/h	7
Pressure Drop	mW.G.	3.98
Main Power Voltage	V/Hz/Ph	480V/60Hz/3Ph
Control Voltage	V/Hz/Ph	208V/60Hz/1Ph
Mass	kg	900

3 Compressor

Type	Open Reciprocating
Manufacturer/Model	BORK / FX4

4 Motor

Manufacturer/Model	ABB / M2QA 160 M4A
Power Consumption	kW
Speed	rpm
Starting Method	D.O.L
Inu. / Temp. Class	F / B

5 Condenser

Type	Shell and Tube
Manufacturer/Model	HAK / CRKC 271028

6 Unit Cooler

Location / Type	Freezer Meat / HFS-05-SS
	Freezer Fish / HFS-04-SS
	Fruit Vegetables / HFS-01
	Dairy Fridge / HFS-01
	Dry Store / HFS-01
	Lobby / HFS-01

7 Notes:



FIRE DAMPER

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PROJECT No.: F1004 NOBLE
 DOC. No.: V47C3001
 Rev. No.: A

Tag No.	HDF	Location	All Deck
System No.	N/A	Number required	LOT
Size and type	REFER TO DATA SHEET (20 - 22) (V47B2005)	Enquiry No.	
Supplier	HI AIR KOREA Co. Ltd.	Quote No.	
Manufacturer	HI AIR KOREA Co. Ltd.	Purchase order No.	
Model	PFD	Job No.	
		Serial No.	

1 Technical Data

Certificate No.		09-BK452446-PDA
Certifying authority		ABS
Actuation (fail-safe)		Fail safe through spring return
Actuator Type:		Pneumatic <input type="checkbox"/> Electric <input type="checkbox"/>
Fusible link/bulb Type:		Fusible bulb & Thermal trigger
Release temperature	°C	68°C for Fusible bulb & 72°C for Thermal trigger
Instrument air pressure (Max./Min.)	bar g	N/A
Power supply	V/Hz/Ph	480V/60Hz/3Ph
Quick-release valve Type:		N/A
Manufacturer		N/A
Pneumatic fittings Type:		N/A
Tube connection size	mm	6
Solenoid valve Type:		ZB12
Ref. Data sheet No.:		N/A
Limit switch Type:		ALS-200
Ref. Data sheet No.:		N/A
Non-return valve Type:		N/A
Manufacturer		N/A
Junction box Type:		AB162409
Manufacturer		FI BOX
Open / closed indicator	Yes/No	Yes
Protection cover on linkage / levers	Yes/No	Yes
Manual opening / locking arm	Yes/No	Yes
Flange standard		As per ISO 15138

2 Materials

Casing Material		Stainless steel 316L
Thickness	mm	3
Blade Material		Stainless steel 316
Thickness	mm	2
Shaft Material		Stainless steel 316
diameter	mm	19
Linkage Material		Stainless steel 316
Thickness	mm	5
Bearing Type		Self-Lubricating
Material		Phosphor bronze Oilite Bushes

Insulation Material, A-60: O H-0: H60: H-120

3 Notes:	Schedule abbreviations:	Shaft position:	H: Horizontal
			V: Vertical
		Actuator position:	L: Left side
			R: Right side
			T: Top
			B: Bottom

(All seen in direction of air flow)



SHUT-OFF DAMPER

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PROJECT No.: F1004 NOBLE

DOC. No.: V47C3001

Rev. No.: A

Tag No.	HDF	Location	All Deck
System No.	N/A	Number required	LOT
Size and type	REFER TO DATA SHEET (24 - 25) (V47B2005)	Enquiry No.	
Supplier	HI AIR KOREA Co. Ltd.	Quote No.	
Manufacturer	HI AIR KOREA Co. Ltd.	Purchase order No.	
Model	PSD	Job No.	
		Serial No.	

1 Technical Data

Actuation		Pneumatic	Electric
Damper manufacturer		HAK	
Model		PSD	
Actuator	Type:	VALBIA	
	Ref. Data sheet No.:	N/A	
Instrument air pressure (Max./Min.)	bar g	N/A	
Power supply	V/Hz/Ph	480V/60Hz/3Ph	
Quick-release valve	Type:	No	
	Manufacturer	N/A	
Pneumatic fittings	Type:	N/A	
Tube connection size	mm	6	
Solenoid valve	Type:	ZB12	
	Ref. Data sheet No.:	N/A	
Limit switch	Type:	ALS-200	
	Ref. Data sheet No.:	N/A	
Non-return valve	Type:	N/A	
	Manufacturer	N/A	
Junction box	Type:	AB121210	
	Manufacturer	FI BOX	
Open / closed indicator	Yes/No	Yes	
Protection cover on linkage / levers	Yes/No	Yes	
Manual opening / locking arm	Yes/No	Yes	
Flange standard		As per ISO 15138	

2 Materials

Casing	Material		Stainless steel 316L
	Thickness	mm	3
Blade	Material		Stainless steel 316L
	Thickness	mm	1.5
Shaft	Material		Stainless steel 316
	diameter	mm	19
Linkage	Material		Stainless steel 316
	Thickness	mm	5
Bearing	Type		Self-lubricating
	Material		Phosphor bronze Oilite Bushes

3 Notes:	Schedule abbreviations:	Shaft position:	H:	Horizontal
			V:	Vertical
		Actuator position:	L:	Left side
			R:	Right side
			T:	Top
			B:	Bottom
Applicable standard: EN 1751				(All seen in direction of air flow)