



**EQUINOX**  
Engineering Ltd

**Equipment Data Sheet**  
SI UNITS

**CENTRIFUGAL PUMP - HORIZONTAL END  
SUCTION - ASME B73.1**

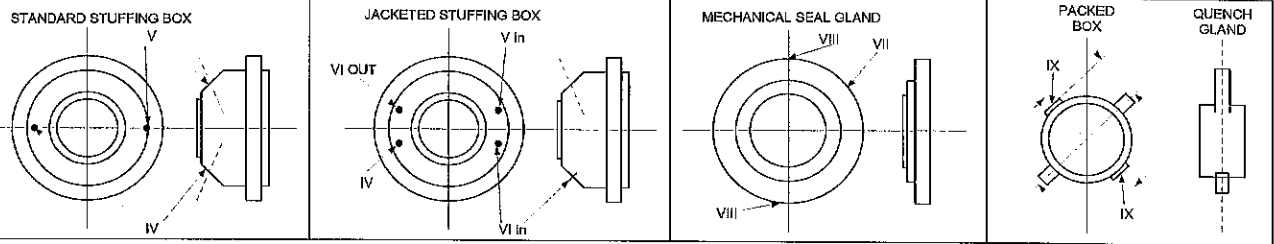
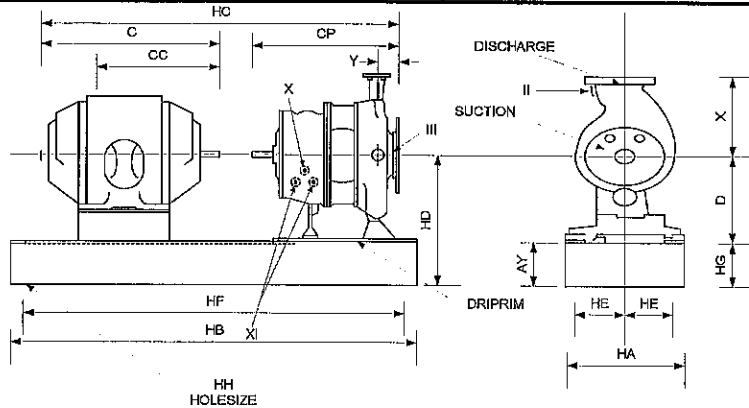
DOCUMENT NO.	DS-C-600-H3-2-00	PAGE	1 OF 3	REV.	0	DATE	03-05-12
PROJECT NO.	201-01-35	RFQ/RFP NO.					
CLIENT	CNRL	LOCATION	12-09-081-22 W4M				
PROJECT	Brintnell - Conversion to a Truck Unloading Station	VENDOR					
SERVICE	Sales Oil Booster Pumps	TAG	P-909 A/B/C	QTY	3		
MODEL		SIZE		SERIAL			

REV\*

1 MANUFACTURER		2 NO. PUMPS REQ'D 3 (Note 6)		3 NO. MOTORS REQ'D		4 ITEM NO.		5 NO. TURBINES REQ'D		6 ITEM NO.													
<b>OPERATING CONDITIONS</b>												<b>PERFORMANCE</b>											
5 Fluid: Sales Oil (dlblt)												PERFORMANCE CURVE NO.											
6 PT NORM. 55 °C FLOW NORM. m³/hr												SPEED rpm NPSH (WATER) m											
7 MAX. 60 °C MAX. 103.35 (Note 11) m³/hr												EFFICIENCY % RATED POWER kW											
8 SPECIFIC GRAVITY 0.924 TOTAL HEAD, RATED 93 m												MAXIMUM POWER RATED IMPELLER kW											
9 VAPOUR PRESS. @ 60°C 46.5 kPa a												MAXIMUM HEAD RATED m											
10 SUCT. PRESS. MAX. 197.7 kPaa RATED 75.1 kPaa												MAXIMUM DISCHARGE PRESS. kPag											
11 VISC. @ NORM. PT. 131.5 cP NPSHA (Notes 1 & 8) m												MINIMUM CONTINUOUS FLOW m³/hr											
12 CORR./EROS. CAUSED BY (Note 10) PH																							
13 HYD. POWER kW																							
14 DRIVER POWER TO BE SELECTED FOR MAX. S.G. 0.935 (Note 7)																							
15 @ MAX. VISCOSITY 199.5 cP																							
<b>PUMP MATERIALS</b>												<b>SHOP TESTS</b>											
18 CASING GLAND												WIT. NON-WIT											
19 IMPELLER GASKETS												PERFORMANCE <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> DISMANTLE & INSPECT AFTER											
20 WEAR RINGS BASEPLATE												HYDRO. <input type="checkbox"/> <input type="checkbox"/> OTHERS:											
21 SHAFT/SLEEVE CPLG. GUARD												NPSH <input type="checkbox"/> <input type="checkbox"/>											
22 OTHER												VIBRATION <input type="checkbox"/> <input type="checkbox"/>											
23												<b>INSPECTION</b>											
24 REMARKS												<input type="checkbox"/> NOT REQUIRED <input type="checkbox"/> IN PROCESS <input type="checkbox"/> FINAL											
25												NO. OF Days NOTIFICATION REQ'D											
26																							
27																							
28												<b>SOUND SPECIFICATION REQUIREMENTS</b>											
29																							
30																							
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REV	DATE	BY	CHECKED	PROCESS	ELECT.	INSTR.	APPROVED	CLIENT	DESCRIPTION
A	20-Dec-11	JM	EA					CNRL	Issued for Review
B	21-Dec-11	JM	EA					CNRL	Issued for Bid
0	05-Mar-12	JM/PA	EA					CNRL	Issued for Purchase

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**CENTRIFUGAL PUMP - HORIZONTAL END SUCTION - ASME B73.1**


HC \_\_\_\_\_ CC \_\_\_\_\_ CC \_\_\_\_\_ D \_\_\_\_\_ X \_\_\_\_\_ CP \_\_\_\_\_ Y \_\_\_\_\_

MARK	SIZE	QTY	SERVICE	RATING	TYPE	MARK	SIZE	QTY	SERVICE	RATING
I			CASING DRAIN			VII			FLUSH CNCT.-MECH. SEAL GLAND	
II			DISCHARGE GAGE OR FLUSH			VIII			QUENCH CNCT. FOR MECH. SEAL	
III			SUCTION GAGE OR FLUSH			IX			QUENCH CNCT. FOR PACKED BOX	
IV			LANTERN. RING / MECH. SEAL FLUSH			X			OIL DRAIN	
V			MECH. SEAL FLUSH @ FACES			XI			BEARING FRAME COOLING	
VI			STUFFING BOX COOLING/HEATING							

BASE PLATE	HA	HB	HE	HF	HG	HH	MOTOR T & TS FRAME	HD	AY	FLANGED HOLES
								D=5 1/4 D=8 1/4 D=10 D=14 1/2		<input type="checkbox"/> THRU <input type="checkbox"/> TAPPED <input type="checkbox"/> 125# ANSI FLANGES <input type="checkbox"/> 150# ANSI FLANGES <input type="checkbox"/> 300# ANSI FLANGES <input type="checkbox"/> FLAT FACE FLANGES <input type="checkbox"/> RAISED FACE FLANGES

COUPLING SPEC.'S \_\_\_\_\_ COUPLING BORES \_\_\_\_\_

MFR. \_\_\_\_\_ PUMP \_\_\_\_\_

TYPE \_\_\_\_\_ DRIVER \_\_\_\_\_

SIZE \_\_\_\_\_

PUMP SIZE \_\_\_\_\_

MODEL \_\_\_\_\_

BRG. FRAME \_\_\_\_\_

MOTOR SPEC.'S \_\_\_\_\_ hp

s.f. \_\_\_\_\_ MECH. SEAL SPEC.'S \_\_\_\_\_

MFR. \_\_\_\_\_ MFR. \_\_\_\_\_

FRAME \_\_\_\_\_ TYPE \_\_\_\_\_

ENCLOSURE \_\_\_\_\_ CODE \_\_\_\_\_

VOLT. \_\_\_\_\_ DWG. NO. \_\_\_\_\_

HERTZ \_\_\_\_\_ FOR PIPING B/M, SEE DRAWING

PHASE \_\_\_\_\_ NO. \_\_\_\_\_

PACKING TYPE \_\_\_\_\_ SIZE \_\_\_\_\_

\_\_\_\_\_ NO. RINGS \_\_\_\_\_

WEIGHT

PUMP \_\_\_\_\_ kg

DRIVER \_\_\_\_\_ kg

BASEPLATE \_\_\_\_\_ kg

(INCL. CPLG. & GUARD)

MOTOR FURNISHED BY \_\_\_\_\_

MOUNTED BY \_\_\_\_\_

COUPLING FURNISHED BY \_\_\_\_\_

MOUNTED BY \_\_\_\_\_

COUPLING FURNISHED BY \_\_\_\_\_

GUARD MOUNTED BY \_\_\_\_\_

LUBRICATION OF BEARINGS

☐ OIL ☐ OIL MIST ☐ GREASE ☐ GREASE FOR LIFE

TYPE OF LUBRICATOR \_\_\_\_\_

CASING

☐ PLAIN ☐ JACKETED ☐ TRACED ☐ OTHER \_\_\_\_\_

SHAFT TYPE ☐ SLEEVED ☐ NON SLEEVED



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1 MANUFACTURER

**REMARKS**

**Notes:**

1. The NPSHR shall be 1 meter less than NPSHA
2. Rated differential pressure = 840.7 kPa
3. Deleted
4. Estimated shut off pressure 1151.4 kPag. Vendor to provide the shut off pressure for the maximum suction pressure
5. Vendor to indicate minimum flow rate for the pump
6. 2 pumps operating and 1 standby
7. Properties at 45 °C (Failure Case of Sales Oil Storage Tank TK-602/603 Heater)
8. NPSHA is 4.85 m
9. Deleted
10. Sales oil contain 0.5vol% BS&W. Salinity = 0.22%. Solids = Traces
11. Flow rate of a single pump
12. Vendor to complete datasheet