FRASER PUMP & engineering

18 August 2006

MARINE HOSE TEST UNITS

OCIMF Requirement Testing

TECHNICAL SPECIFICATIONS

Fraser Pump and Engineering prides itself on using the experience gained over the last 25 years to meet the specific needs of the customer. The units detailed below are standard systems, but individualised options are available to meet local and system requirements

For the Pressure Testing of hoses the *standard* Hose Test Unit is set to generate a maximum test pressure of 300 psi, with a delivery flow rate of 11 litres/min. Pressure control is via a manually adjustable pressure regulating valve. The system allows test pressures to be set as low as 0.7bar (approx.10 psig) to permit hose straightening prior to high pressure elongation tests to be carried out, in accordance with OCIMF specifications. Higher pressures can be catered for if requested at time of ordering.
For Vacuum Testing the vacuum control valve permits any degree of vacuum up to maximum of 28”Hg gauge (25 torr) to be set, as may be required.

Using the panel mounted control valves, the test hose can be isolated from the HTU at any time.
The machine is powered from an external electric supply, a master input socket (complete with matching plug for wiring to client’s own electrical supply cable) being located on one of the end panels. As all export machines are built to meet customers' exact requirements, motors and electrical controls will be rated to suit your local supply.

Pumps, hoses and fittings can be suitable for use with both fresh and seawater. The unit has a large built-in stainless steel water tank with an external sight level indicator, to facilitate re-circulation and water saving, and also fitted with a float operated inlet ball cock, plus float switches for pump protection in the event of water supply failure. All inlet and outlet ports are located on the machine’s end panels, away from the operator’s position.

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HOSE TESTING UNIT GENERAL SPECIFICATIONS

	STANDARD HTU	ALTERNATIVES
ENCLOSURE	Four wheeled solid tyred site trailer Sheet steel cabinet Pivot and hinged "T" style tow bar suitable for manual towing. Finished with standard blue paint finish.	▪ **Skid mounted** with lifting eyes and fork apertures ▪ **Road going trailer**, conforming to the relevant traffic regulations, c/w light, hand brake. Over-run brakes etc can be provided when required.
DIMENSIONS	With handle in upright stowage position, and the lid closed approx. 1400mm long x 850mm wide x 1200mm high with handle lowered for towing, length extended by further 860mm-2260mm. Height clearance of 1850mm is required to allow the cabinet lid to open fully.	
CONTROLS	All hose test controls and gauges are located on the top of the unit beneath a hinged lid which is self supporting on gas struts. Access to machine internals is via hinged doors at front and rear lift-off panel	
TESTING	Pressure and Vacuum	▪ **Burst test** ▪ **Continuity/ discontinuity c**omplete with test leads.
PRESSURE TESTING **VACUUM TESTING**	**Standard** system is set to test at 300 psi, with delivery flow of 11 litres/min Set to maximum of 28" Hg gauge(25 torr) as required	▪ Higher pressures available as requested
ENVIRONMENT	Safe Area	▪ **Hazardous Zone** 1, 2. ▪ **Offshore** deck mounted

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Continued

	STANDARD HTU	ALTERNATIVES
WATER	Freshwater Unit has large built-in stainless steel water tank with external sight level indicator, to facilitate re-circulation and water saving. It is fitted with a float operated inlet ball cock, plus float switches for pump protection in the event of water supply failure All inlet and outlet ports are located on the machines end panels away from the operators position	▪ **Seawater**
POWER	3-phase 380-440 V 50/ 60 Hz Master input socket (complete with matching plug for wiring to local power supply) is located on one of the end panels Motors and electrical controls will be rated to suit local supply	▪ **Diesel** powered ▪ **Compressed air** version available ▪ Single phase mains
HOSE FILLING PUMP	Not included	▪ For the rapid filling of large bore hoses, a special self-priming **filling pump** can also be built into the cabinet
TESTING METHOD	Manual controls	▪ **Automated sequencing** and timing for OCIMF tests
DATA RECORDING		▪ **Chart recorder or data logger**
MANUALS	A set of step by step instructions is fixed beneath the cabinet lid. In addition two operating and instruction manuals c/w certificates, flow schematics and drawings are provided. All instructions and manuals are in English	▪ Documentation can be supplied in other languages

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HOSES	For pressure testing, standard provision is - 1x 1” black 10 metre length pressure delivery hose For vacuum testing- 1 x 1” green 10 metre spiral wound vacuum hose, both hoses terminating in a 1” BSPF 60º cone/captive nut connector at both ends. Where a self priming test hose filling pump is provided as an optional extra, a 30 metre length of suction hose is also supplied A static hose reel is fixed at one end of the cabinet

OPTIONAL ITEMS

TIMER	A timer registering 120 minutes plus warning bell can be provided, in order to permit the I operator to carry out other tasks nearby, while the test hose is under pressure
DATA LOGGERS	Integral chart recorders (circular or fan-fold) or Dataloggers, with or without RS 232 PC interface, can be provided to record pressure, vacuum, temperature as required
FLANGES	For pressure and burst testing, these can be supplied in steel complete with flange bolts and gaskets to suit the hose size and manufacturer. For vacuum testing, clear perspex end plates 800mm square can be supplied to enable visual inspection of the hose inner wall