

The following notes are intended as a guide only. If in any doubt over pump suitability, installation or electrical connection please contact Totton Pumps immediately before proceeding.

PUMP DESCRIPTION

The unit is a high speed centrifugal pump of advanced design, of plastic construction and has a magnetic coupling, (i.e. no rotating seal). It is driven by an induction motor operated at high speed via a inverter. The inverter/motor has a variable speed facility capable of being internally or externally controlled. This can make the pump speed variable below the maximum performance. Pump wetted materials are polypropylene, alumina ceramic and EPDM O-ring (Silicon on Pt No 02915).

Where the unit is to be used for fluids other than water the customer must ensure that the materials are resistant before use. If in doubt please contact Totton Pumps.

INSTALLATION

Pump connection: Connect pump to pipework using appropriate fittings. Avoid over-tightening fittings since damage to threads and parts may occur. Pump inlet has a 1/2" BSP F Thread, pump outlet has a 3/8" BSP F thread. Filters or excessive restrictions should not be situated before the pump inlet. Pump should have a flooded suction since it does not self prime. Recommended minimum pump size 10mm bore.

ELECTRICAL CONNECTION

NOTE - ENSURE POWER SUPPLY IS SWITCHED OFF BEFORE CONNECTION.

Connect inverter as per instructions in the inverter installation manual:

Motor wire	Inverter Connection
Black	W
Brown	V
Blue	U
Earth	Earth Screw

Note that the motor should be adequately ventilated and connected to operate ANTI CLOCKWISE. The inverter unit should always be mounted vertically with a free passage of air behind it. The appliance must be earthed.

COMMISSIONING

Ensure that there are no leaks in the completed pipework. Pump must be flooded prior to operation. To clear remaining air from pump, operate for a few seconds then operate again. This should be repeated until all the air is cleared from the unit. Dry running of the pump can cause failure. Pump should always be operated with a positive suction head to minimise cavitation and/or gas breakout. Pumping fluid with a high gas content can result in a dry running type failure.

OPERATING INSTRUCTIONS

Maximum fluid SG is	1.2 for EMP 20/30 IV Pt No 02914
	1.8 for EMP 20/30 IV Pt No 02915

DO NOT RUN DRY

Maximum fluid temperature is 35°C
Maximum inlet pressure is 1.4 Bar
Pump is not suitable for pumping abrasive or large particles
Ensure pump materials are resistant to pumped fluid

PERIODIC MAINTENANCE

Unit should be maintenance free except for occasional cleaning of pump internals. Where pumped fluid causes coating or deposition, pump may be cleaned by flushing through with an appropriate cleaning agent.

INVERTER

Please note that the inverter comes with its own comprehensive instructions, that should be read in conjunction with this manual. The current overload protection in the inverter should be set to 2-3 amps, reference instruction manual.

SPARES & REPAIRS

Available from Totton Pumps or approved Distributor.

Address for returned goods: Totton Pumps
Rushington Business Park, Totton, Southampton SO40 9AH
Phone: +44 023 8066 6685 Fax: +44 023 8066 6880
email: info@totton-pumps.com
Internet: www.totton-pumps.com