

**SPECIFICATION DATA 111**

**EWC PUMPED BREAK TANK WITH HOT WATER SOFTENER**

<b>SYSTEM</b>	<b>BTS RANGE HOT</b>	<b>SHEET 1 OF 2</b>
CONSTRUCTION	PURPOSE	<b>BOOST AND SOFTENS HOT WATER WHILST CONFORMING TO THE WATER REGULATIONS FOR BACK FLOW PREVENTION</b>
PUMP	OPERATION PUMP TYPE PUMP CASING PUMP END CASTINGS PUMP IMPELLORS PUMP SHAFT INSULATION CLASS PROTECTION CLASS CONNECTIONS	<b>PERIPHERAL IMPELLER ELETROPUMP / VCB 45/42 BRASS 58 BRASS 58 BRASS 58 STAINLESS STEEL AISI 416 F IP44 BS4504 PN10</b>
DUTY	PUMP DUTY JOCKEY PUMP DUTY TEMPERATURE	<b>CONTINUOUSLY RATED  N/A l/s MAX 60 °C</b>
ELECTRICAL	PHASE FREQUENCY VOLTAGE PUMP SPEED	<b>1 - PHASE 50 Hz 240 V                      0.55 kW MAX 2800 rpm</b>
PRESSURE	MAXIMUM OUTPUT (DEPENDENT ON FLOW) MINIMUM OUTPUT (DEPENDENT ON FLOW) MAXIMUM INPUT TEST	<b>4 bar 2.8 bar 4 bar 10 bar</b>
CONTROL	METHOD (PRESSURE / FLOW SWITCH) MATERIAL OF CONTROL BODY DRY RUN CUT OUT BMS HIGH PRESSURE ALARM BMS LOW PRESSURE ALARM	<b>ELECTRONIC PCB BRASS YES AVAILABLE ON REQUEST AVAILABLE ON REQUEST</b>
CABINET OUTER	OUTER CASING DIMENSIONS INLET WATER CONNECTION OUTLET WATER CONNECTION INTERNAL HOSES	<b>M.D.P.E H 690mm    W 410mm    D 590mm 3/4" BSP    PLASTIC 3/4" BSP    BRASS BRAIDED WRC QUALITY</b>
BREAK TANK	OUTER CASING DIMENSIONS AIR GAP TYPE CAPACITY OF WATER INLET WATER CONNECTION  OUTLET WATER CONNECTION LEVEL SENSOR CONTROL LEVEL SENSOR ELECTRICS	<b>M.D.P.E H 660mm    W 145mm    D 285mm A A CLASS AIR GAP 6 LITRES 3/4" BSP PLASTIC Via 240V SOLENOID CONTROLLED BY ELECTRONIC PCB 3/4" BRASS DIRECT INTO PUMP ELECTRONIC 3 STAGE LEVELLING CONTROLLED BY ELECTRONIC PCB</b>
WARNING SYSTEM	VISIBLE LIGHT AUDIBLE	<b>24 VOLT RED LIGHT 24 VOLT BUZZER</b>
<b>WATER SOFTENER :</b>		
VALVE	VALVE BODY RUBBER COMPOUNDS WEIGHT RECOMMENDED OPERATING WATER PRESSURE WATER TEMPERATURE	<b>BRASS LOW LEAD COMPOUNDED FOR HOT WATER 5.7 Lbs            (2.6kg) 22 - 65 psi        (1.5 4.5 bar) 60 C MAXIMUM</b>
CONTROL OPERATION	TIMER CONFIGURED REGENERATION CYCLE  SALT PER REGENERATION	<b>TIME CLOCK 12 DAYS BACKWASH                      7 MINUTES BRINE / SLOW RINSE            50 MINUTES FAST RINSE                      7 MINUTES BRINE REFILL                    ADJUSTABLE 1.6 kg PER 10 LITRES OF RESIN</b>

	WATER USED DURING REGENERATION	<b>86 LITRES PER REGENERATION</b>
ELECTRICAL DETAIL	PHASE FREQUENCY VOLTAGE AMPAGE WATTAGE	<b>1 - PHASE 50 HZ 230 V 3 AMPS 3.0 W</b>
VESSEL AND RESIN	VESSEL RESIN BASE	<b>RESIN RICH VINYLESTER ION EXCHANGE SOFTENING RESIN PVC</b>

**NOTES:**

This system works on both pressure and flow.

- a) A valve is opened - this reduces pressure and switches the pump on
- b) Flow of water then operates a flow switch - this keeps the pump running even if it recovers pressure.
- c) The valve is closed - this stops flow - when the flow is stopped and pressure has recovered, an electronic delay keeps the pump running for a further 10 seconds - just in case the interruption was intermittent.
- d) The pump then switches off.

**FAILURE:**

Should the incoming water supply fail, the system will automatically lockout. The warning system will come into place with a visible and audible warning. The pump will not function again until the power is switched off for 20 seconds the break tank is full of water and the power is switched back on - ensure that the pump is primed before re powering.

**WATER OUTPUT:**

The water output measured from the BTP30 was measured with an open ended pipe. The water output will increase dependant upon the restriction given from the equipment that it is fitted to e.g. water solenoid

**ELECTRICAL SUPPLY**

The electrical supply has to be maintained, so as to allow the water softener to regenerate at automatically at 2am. Ideally a fused spare should be used.

**WEIGHT DISTRIBUTION**

The total floor loading weight of this unit is approximately 80 kg when full.

**NB:** Noryl is a trade mark of General Electric Company.