SPECIFICATION DATA 109

EWC PUMPED BREAK TANK

SYSTEM		**BTP30**	**SHEET 1 OF 2**
CONSTRUCTION	PURPOSE	**BOOST MAINS COLD / HOT WATER**	
PUMP	OPERATION	**PERIPHERAL IMPELLER**	
	PUMP TYPE	**ELETTROPUMP / VCB 45/42**	
	PUMP CASING	**BRASS 58**	
	PUMP END CASTINGS	**BRASS 58**	
	PUMP IMPELLORS	**BRASS 58**	
	PUMP SHAFT	**STAINLESS STEEL AISI 416**	
	INSULATION CLASS	**F**	
	PROTECTION CLASS	**IP44**	
	CONNECTIONS	**BS4504 PN10**	
DUTY	PUMP DUTY	**CONTINUOUSLY RATED**	
	JOCKEY PUMP DUTY	**N/A** l/s	
	TEMPERATURE	**MAX 60** ºC	
ELECTRICAL	PHASE	**1** - PHASE	
	FREQUENCY	**50** Hz	
	VOLTAGE	**240** V	0.55 kW
	PUMP SPEED	**MAX 2800** rpm	
PRESSURE	MAXIMUM OUTPUT (DEPENDENT ON FLOW)	**4** bar	
	MINIMUM OUTPUT (DEPENDENT ON FLOW)	**2.8** bar	
	MAXIMUM INPUT	**4** bar	
	TEST	**10** bar	
CONTROL	METHOD (PRESSURE / FLOW SWITCH)	**ELECTRONIC PCB**	
	MATERIAL OF CONTROL BODY	**BRASS**	
	DRY RUN CUT OUT	**YES**	
	BMS HIGH PRESSURE ALARM	**AVAILABLE ON REQUEST**	
	BMS LOW PRESSURE ALARM	**AVAILABLE ON REQUEST**	
CABINET OUTER	OUTER CASING	**M.D.P.E**	
	DIMENSIONS	**H 690mm W 410mm D 590mm**	
	INLET WATER CONNECTION	**3/4" BSP PLASTIC**	
	OUTLET WATER CONNECTION	**3/4" BSP BRASS**	
	INTERNAL HOSES	**BRAIDED WCR QUALITY**	
BREAK TANK	OUTER CASING	**M.D.P.E**	
	DIMENSIONS	**H 660mm W 145mm D 285mm**	
	AIR GAP TYPE	**A A CLASS AIR GAP**	
	CAPACITY OF WATER	**19 LITRES**	
	INLET WATER CONNECTION	**3/4" BSP PLASTIC Via 240V S0LENOID CONTROLLED BY ELECTRONIC PCB**	
	OUTLET WATER CONNECTION	**3/4" BRASS DIRECT INTO PUMP**	
	LEVEL SENSOR CONTROL	**ELECTRONIC 3 STAGE LEVELLING**	
	LEVEL SENSOR ELECTRICS	**CONTROLLED BY ELECTRONIC PCB**	
WARNING SYSTEM	VISIBLE LIGHT	**24 VOLT RED LIGHT**	
	AUDIBLE (Optional)	**24 VOLT BUZZER**	

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:

a) Should the incoming water supply fail, the system will automatically lockout. The warning system will come into place with a visible warning. The pump will not function again until the power is switched off for 10 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