

\* solarten/water, flow rate through collectors 1 l/min·m<sup>2</sup>, min. flow rate on secondary side 1000 l/hod



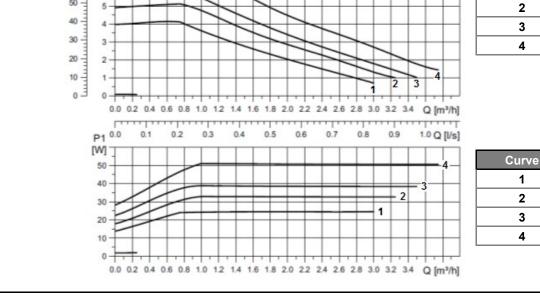
2. DATA ON CS OTS E PUMP STATIO	N				
CS OTS E	Application	flow to heating systems			
	Description	consists of UPM3 pump, pump ball valve, thermometer, insulation and ball valve with check valve			
	UPM3 FLEX AS Pump electric data				
	Power supply	230 V, 50 Hz			
cavitarios Totana Sal	Power input (min./max.)	2/52 W			
	Current (min./max)	0,04/0,5 A			
	IP rating	IP44			
Regulas	Max. speed	5766 rpm			
	Weighted average power	≤ 23 W			
	Energy Efficiency Index	≤ 0.2 per EN 16 297/3			
	Motor protection	not needed			
PWM (A) and power supply (B)	Min. pressures at the pump suction port				
connection	Min. pressures at the	0.05 bar at 75 °C			
	suction port to avoid	0.5 bar at 95 °C			
PWM and power	cavitation	1.08 bar at 110 °C			
supply terminals	Other data				
	Working pressure	10 bar			
	Operating temperature	2 - 90 °C			
	Insulation	yes			
	Connections	2 x G 1" F			
	Weight	2.85 kg			
	Overall dimensions	325 x 140 x 150 mm			
	Ambient temperature data				
PE(yellow-green) L (brown)	Max. ambient temperature	70 °C			
N (blue) PWM in (brown)	Max. relative humidity	95 % non condensing			
PWM out (black) PWM GND (blue)					
	Power supply cables and PWM cables are included in supply.				
Selected profile display during pump	operation				
Profile A (4M)	Profile A (5M) Pro	file A (6M) Profile A (7M)			
		••••			
→ with no PWM signal the pump runs at ma → with PWM signal the pump speed change:					
3. DATA ON VZP 320 ZONE VALVE					
VZP ZONE VALVE	Application	heating or solar circuits			
	Control	by means of a return spring (without voltage port B is open, with voltage port A is open)			
	Working fluid	water, antifreeze fluid for heating and solar circuits and heat pumps			
	End switch	potential-free, closed when fully open			
	Valve opening time	about 6 s			
	Valve closing time	about 10 s			

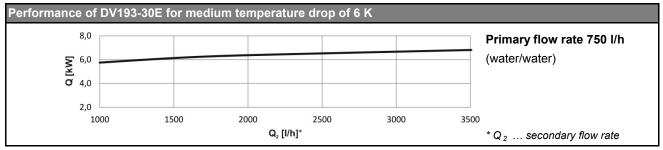
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WIRING	TechnicAL DA	ТА			
	Max. working pressure		1.6 MPa		
	Ambient operating		5 - 60 °C		
L N PE	Fluid operating temperature		5 - 95 °C (120 °C in short term, about 1 hr)		
	Max. pressure difference		18 m H <sub>2</sub> O		
	Kvs		3 m <sup>3</sup> /h		
	Power supply		230 V, 50 Hz		
	Current		7 W		
	Power input		35 mA		
	IP rating		IP 20 by EN 60529		
	Protection class		II by EN 61140 ed.2		
	Connection dimensions		G 3/4"		
	Weight	Weight 2.2 kg			
Interconnecting pipe length needed (	pipes not includ	led in Kit)			
DUO xxx/xxx P Thermal Store	390/130	600/200	750/200	1000/200	1700/200
Pipe length for Kit with valves	1.5 m	1.7 m	2 m	2 m	2 m
Pipe length for Kit without valves	3.2 m	3.8 m	4 m	4 m	4,8 m
The Kit does NOT include solar pur	np station, fittin	gs, interconne	cting pipes!		-
GRAPHS FOR SEPARATE COMPONE	INTS				
Performance curves for UPM3 FLEX	AS pump				
p H					
kPa] [m]				-	
7				Curve	Max. H
60 6				1	4 m
50 5				2	5 m
40 4				3	6 m





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1

2

3

4

7 m

Max. P<sub>1</sub>

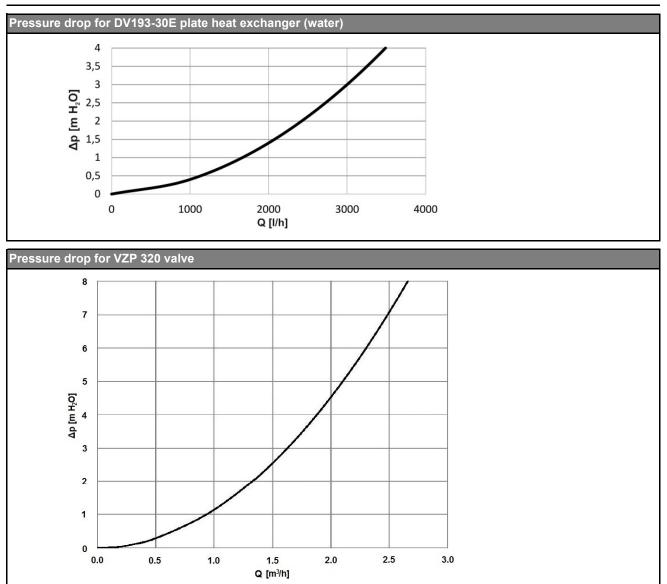
25 W

33 W

39 W

52 W





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