

#### **Data sheet**

#### Solar Kit of CSE TV ZV G and DV 193

Main Features		
Application	designed to connect a solar thermal system to a hot water storage tank not fitted with an integrated solar heat exchanger; the plate heat exchanger in the kit is used to transfer heat between solar fluid and hot water; DHW circulation is ensured by the CSE TV ZV G pump station, for circulation of solar fluid an S2 solar pump station is needed (not Included).	
Description	the kit consists of a DV 193 plate heat exchanger and CSE TV ZV G pump station with UPM3 DHW 15-70 pump, non-return valve and thermometer; kit variants differ in the heat transfer size of the DV 193 plate heat exchanger	
Working fluid	water (DHW circuit), antifreeze solar fluid (solar circuit)	

Codes	Type of kit	Connection sizes*
16065	CSE TV ZV G + DV 193-20E	
16066	CSE TV ZV G + DV 193-30E	2x 3/4" union nut for solar circuit
17148	CSE TV ZV G + DV 193-45E	2x 3/4 " M for DHW circuit
17149	CSE TV ZV G + DV 193-60E	

<sup>\*</sup> connection to a solar circuit with 125 mm pitch permitting direct connection to a solar pump station

# Accessory (not included in supply) 16792 PWM signal cable, I = 2 m

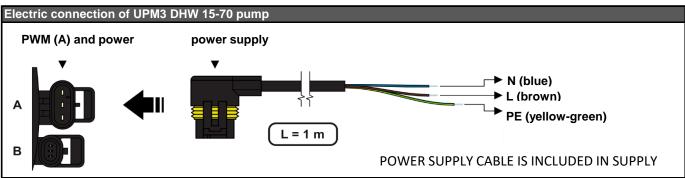


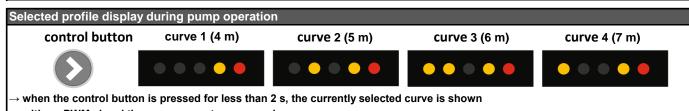
#### Data for UPM3 DHW 15-70 pump

Technical data	
Working temperature	2 to 95°C
Max. working press.	10 bar
Max. ambient temper.	70°C
Max. rel. humidity	95 %, non condensing

Min. pressures at pump suction port to avoid cavitation			
Min. pressures at	0.5 mH₂O at 75 °C		
suction port	5,1 mH <sub>2</sub> O bar at 95°C		

Electric data for UPM3 DHW 15-70 pump			
Power supply	1x 230 V, 50 Hz		
Power input (min/max)	2/52 W		
Current (min./max.)	0.04/0.52 A		
IP rating	IP44		
Max. speed	5766 rpm		



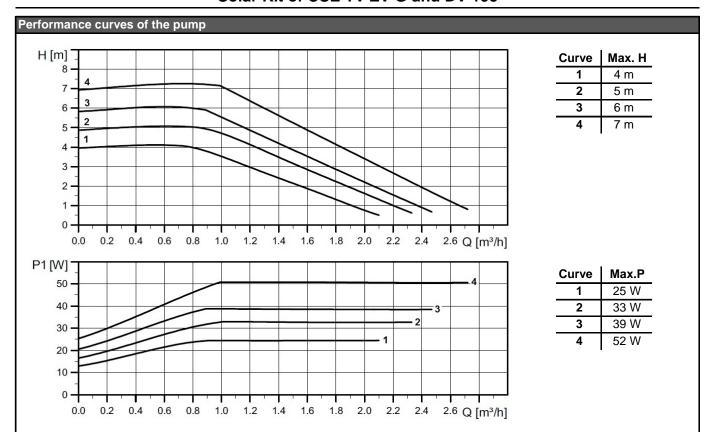


- ightarrow with no PWM signal the pump runs at max. speed
- ightarrow with PWM signal the pump speed changes with the signal value up to the maximum of the selected curve



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Data for DV 193 heat exchanger				
Technical data				
Туре	DV 193-20	DV 193-30	DV 193-45	DV 193-60
Number of plates	20	30	45	60
Heat-exch. surface	0.28 sqm	0.42 sqm	0.63 sqm	0.84 sqm

Materials for the kit of CSE TV ZV G and DV 193			
Heat exchanger	stainless steel AISI 316 L, copper soldered		
Pump housing	polyphenylensulfid (PPS)		
Heat exchanger insulation	EPDM		
Pump station insulation	EPP RG 60 g/l		

Recommended sizes of R0BC tanks and number of collectors for various kit variants				
Pump station	Heat exchanger	No. of collectors	Min. tank size	Max. tank size
	DV 193-20	1	R0BC 200	R0BC 200
		2	R0BC 200	R0BC 300
ტ -		3	R0BC 300	R0BC 500
	DV 193-30	4	R0BC 400	R0BC 750
N >		5	R0BC 500	R0BC 750
<u>[</u>		6	R0BC 750	R0BC 1000
CSE		7	R0BC 750	R0BC 1000
		8	R0BC 1000	R0BC 1500
	DV 193-60	9	R0BC 1000	R0BC 1500
		10	R0BC 1000	R0BC 2000

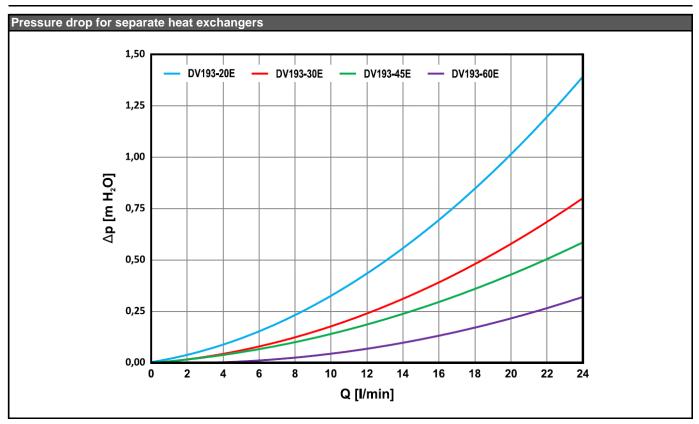
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