

Technical specifications of optional equipment (10)

OPSP	Pump	Type	Horizontal multi-stage end-suction											
		Quantity	1											
		Manufacturer	Grundfos											
		Model	CM5-3					CM5-4		CM10-2				
		Efficiency	%					-		77		80		
		Efficiency level	IE2											
	Water circuit	Rated speed	Rpm	2770-2820					2840-2870		2820-2860			
		Rated output	KW	1										
		Safety valve	bar	3										
		Manometer		Yes										
		Expansion vessel	Volume	l	10					12				
			Pre-pressure	bar	1,0									
	Nom. external static pressure (2)	Cooling (1)	kPa	202	169	128	142	232	198	169				
Weight of unit	Machine net weight	kg	267	328	328	408	596	596	754					
	Packed machine weight	kg	303	355	355	440	641	641	807					
	Operating weight	kg	279	331	331	412	602	602	762					
OPSP	Pump	Type	Horizontal multi-stage end-suction											
		Quantity	1											
		Manufacturer	Grundfos											
		Model	CM5-5					CM10-3						
		Efficiency	%					80						
		Efficiency level	IE2											
	Water circuit	Rated speed	Rpm	2820-2860					2890-2920					
		Rated output	KW	1,2					2,2					
		Safety valve	bar	3,0										
		Manometer		Yes										
		Expansion vessel	Volume	l	10					12				
			Pre-pressure	bar	1,0									
	Nom. external static pressure (2)	Cooling (1)	kPa	382	343	292	221	384	338	284				
Weight of unit	Machine net weight	kg	279	332	332	411	604	604	763					
	Packed machine weight	kg	306	359	359	433	648	1	815					
	Operating weight	kg	282	335	335	415	610	610	771					
OP10	Operation range	Ambient	Min.	°CDB								Refer to "operation range"		
OP2L	Operation range cooling	Ambient	Min.	°CDB								Refer to "operation range"		
		Waterside	Min.	°C								Refer to "operation range"		

Electrical specifications of optional equipment (10)

OPSP										
	Maximum starting current (cooling/heating)	A	(3)	80	81	91	103	105	124	
	Maximum running current	A	24,0	27,1	28,2	37,0	50,4	52,6	70,2	
	Recommended fuses	A	25	32	32	40	63	63	80	
OPHP										
	Maximum starting current (cooling/heating)	A	(3)	79,9	81,7	91,7	103,7	106,3	125,1	
	Maximum running current	A	24,4	27,5	29,4	38,2	51,3	54,0	71,6	
	Recommended fuses	A	32	32	32	40	63	63	80	
Cable requirements		Water piping heater output	Quantity of wires	2						
			Maximum running current	1A						
EKRP1AHT*										
Cable requirements	Thermostat ON/OFF signal	Quantity of wires	2							
		Maximum running current	Minimum cable section 0,75 mm							
	Thermostat cooling/heating signal	Quantity of wires	2							
		Maximum running current	Minimum cable section 0,75 mm							
	Operation ON signal	Quantity of wires	2							
		Maximum running current	Minimum cable section 0,75 mm							
Operation OFF signal	Quantity of wires	2								
	Maximum running current	Minimum cable section 0,75 mm								
EKRUAH*										
Cable requirements		Secondary remote controller	Quantity of wires	2						
			Maximum running current	Minimum cable section 0,75 mm						

Notes

- 1 Conditions: Ta 35°C - LWE 7°C ($\Delta t = 5^\circ\text{C}$)
- 2 This is ESP between inlet and outlet connections of unit, it consists out of pump SP minus all internal PD's
- 3 No peak current because of inverter compressor