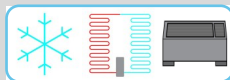


dal 1968



SCAMBIATORI - BOLLITORI - SERBATOI



POLARIS



FULLY ASSEMBLED PUMPSTATIONS
FOR CHILLED WATER

Hydronic kits for chilled water are pre-assembled units comprising hydraulic and electrical components for use in air-conditioning and refrigeration systems in conjunction with chillers or heat pumps.

They consist of a carbon steel tank, expansion vessel(s), electric pump(s) (available with various flow rates and heads), an electrical control panel, a safety valve, an air vent valve, shut-off valves, a drain valve, a water filter, insulation, a check valve and a filling unit.

The version with two pumps automatically switches the start-up in the event of a fault.

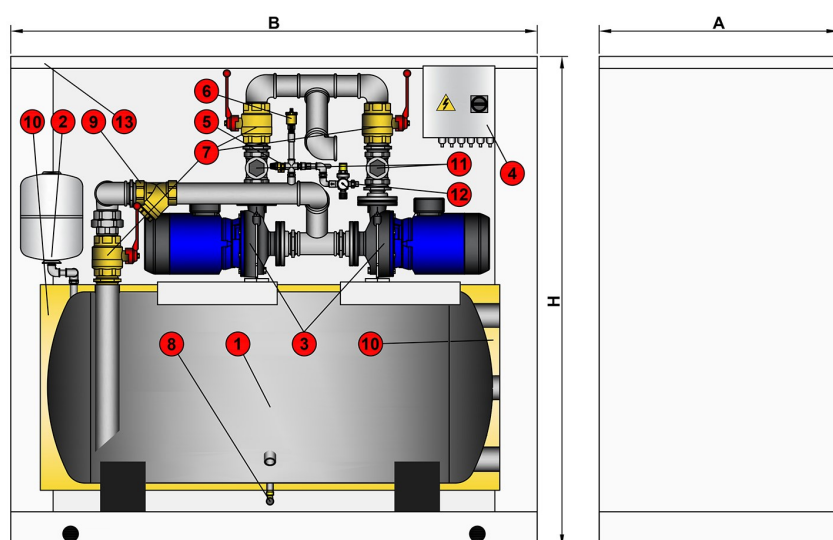
The kit is housed in a cabinet made of galvanised and painted sheet steel, resistant to external agents.

Available with tanks ranging from 75 to 1500 litres, with either a single or twin pump.

In addition to the standard models shown in this brochure, customised versions can be designed and manufactured to customer specifications.



Tank capacity	Tank orientation	Dimensions			Expansion vessel capacity	Connections diameter
		A	B	H		
<i>Litre</i>		<i>mm</i>	<i>mm</i>	<i>mm</i>	<i>L</i>	<i>Inches</i>
75	Vertical	700	1000	1000	8	1" 1/4
150	Horizontal	700	1000	1000	12	1" 1/2
300	Vertical	1100	1100	1650	18	2"
500	Vertical	1100	1100	1650	24	2" 1/2
750	Vertical	1000	1550	1980	2 × 18	3"
1000	Horizontal	1000	2200	2050	2 × 18	3"
1500	Horizontal	1000	2200	2050	2 × 24	3" / 4"



Parts description

- 1 Buffer vessel
 - 2 Expansion vessel (supplied disassembled)
 - 3● Pump/s
 - 4● Switch board
 - 5 Safety valve
 - 6 Automatic air vent valve
 - 7● Shut-off ball valve
 - 8 Drain coupling
 - 9● Filter
 - 10 Buffer vessel insulation
 - 11● Check valve ($\geq 300L$ capacity)
 - 12 Automatic filling unit
 - 13 Galvanized steel cabinet, painted (RAL 9002)
- Not included on Model L00 (without electric pump)

STANDARD WORKING CONDITIONS

	Capacity	75	150	300	500	750	1000	1500
Kit working pressure	bar	ATM ÷ 6	ATM ÷ 6	ATM ÷ 6	ATM ÷ 6	ATM ÷ 6	ATM ÷ 6	ATM ÷ 6
Kit working temperature	°C	-10 ÷ 65	-10 ÷ 65	-10 ÷ 65	-10 ÷ 65	-10 ÷ 65	-10 ÷ 65	-10 ÷ 65

REGULATORY COMPLIANCE

European Pressure Equipment Directive (PED) 2014/68/UE | Sound Engineering Practice - excluded from CE marking - Art. 4.3

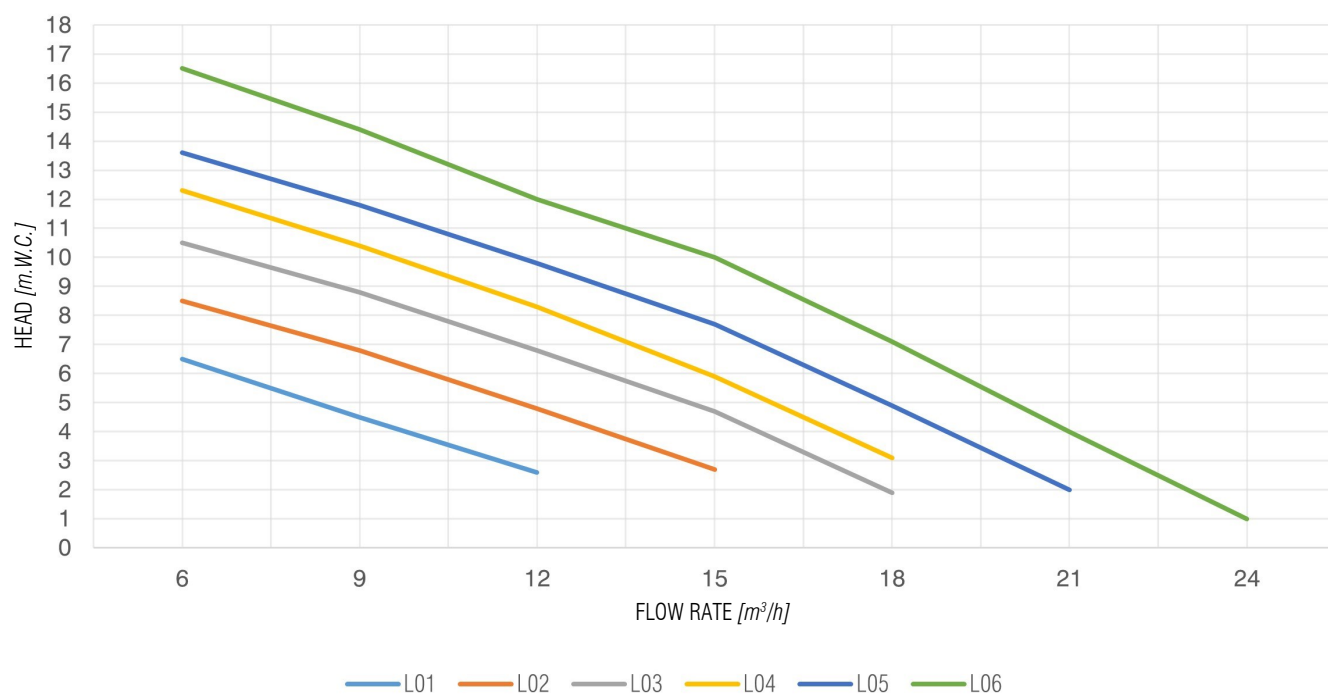
ELECTRIC PUMPS SELECTION TABLE

Model	Power kW	Operating Point 1		Operating Point 2		Operating Point 3		Operating Point 4		Operating Point 5		Operating Point 6		Operating Point 7		Operating Point 8	
		Flow rate m³/h	Head m.W.C.	Flow rate m³/h	Head m.W.C.	Flow rate m³/h	Head m.W.C.	Flow rate m³/h	Head m.W.C.	Flow rate m³/h	Head m.W.C.	Flow rate m³/h	Head m.W.C.	Flow rate m³/h	Head m.W.C.	Flow rate m³/h	Head m.W.C.
L01	0,37	6	6,5	9	4,5	12	2,6										
L02	0,55	6	8,5	9	6,8	12	4,8	15	2,7								
L03	0,75	6	10,5	9	8,8	12	6,8	15	4,7	18	1,9						
L04	0,90	6	12,3	9	10,4	12	8,3	15	5,9	18	3,1						
L05	1,10	6	13,6	9	11,8	12	9,8	15	7,7	18	4,9	21	2,0				
L06	1,50	6	16,5	9	14,4	12	12,0	15	10,0	18	7,1	21	4,0	24	1,0		
L07	1,10	12	14,1	15	12,7	18	10,7	21	8,1	24	5,2						
L08	1,50	12	18,0	15	16,7	18	14,7	21	12,4	24	9,7	27	6,6				
L09	1,85	12	21,9	15	20,5	18	18,7	21	16,1	24	14,0	27	11,0				
L10	1,50	12	12,8	15	11,9	18	10,7	24	8,2	30	5,3	36	2,2				
L11	2,20	12	16,5	15	15,8	18	14,7	24	12,2	30	9,3	36	6,1	42	2,2		
L12	3,00	12	20,4	15	19,1	18	18,0	24	15,3	30	12,3	36	8,9	42	5,2	48	1,4
L13	5,50	30	24,2	36	23,2	42	22,0	48	20,3	60	16,3	72	10,9				
L14	7,50	30	31,2	36	30,2	42	28,5	48	26,5	60	21,8	72	15,9				
L15	11,00	48	27,5	60	26,2	72	24,7	84	22,5	96	20,2	108	17,7	120	15,0		
L16	15,00	48	39,5	60	38,2	72	36,7	84	34,5	96	31,7	108	28,7	120	25,0		

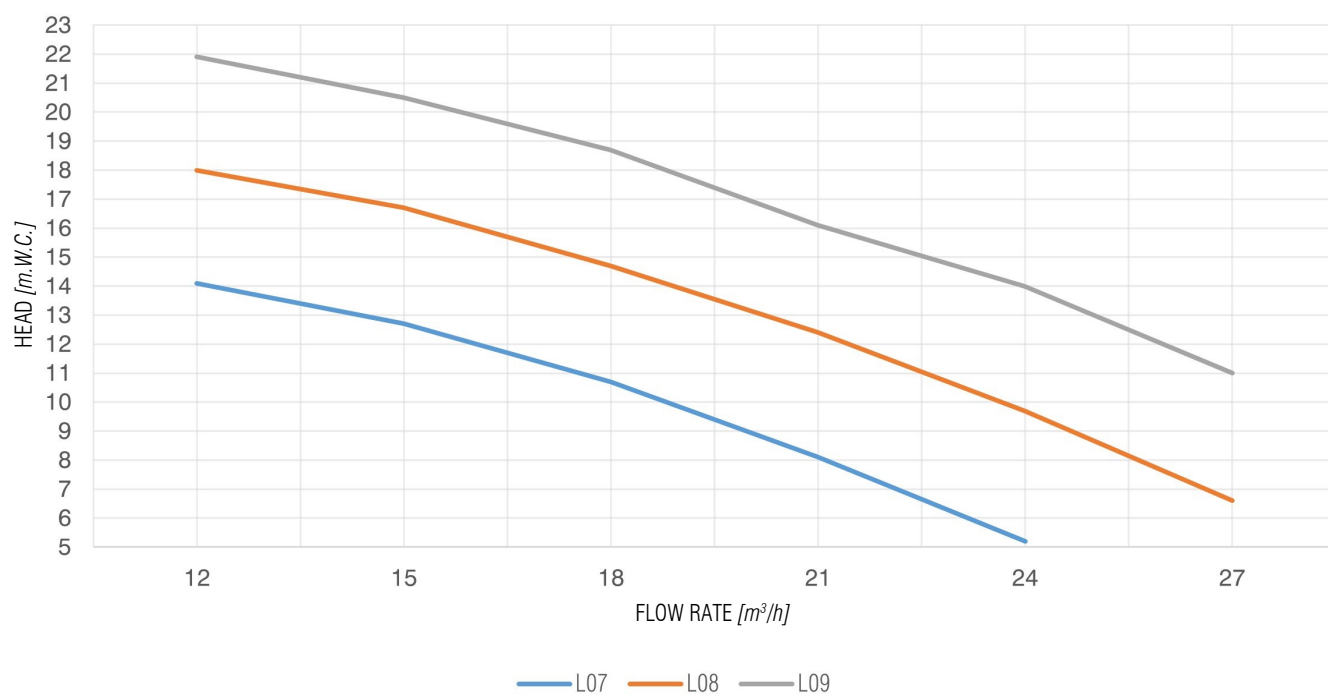
ELECTRIC PUMPS / BUFFER VESSEL COUPLING TABLE

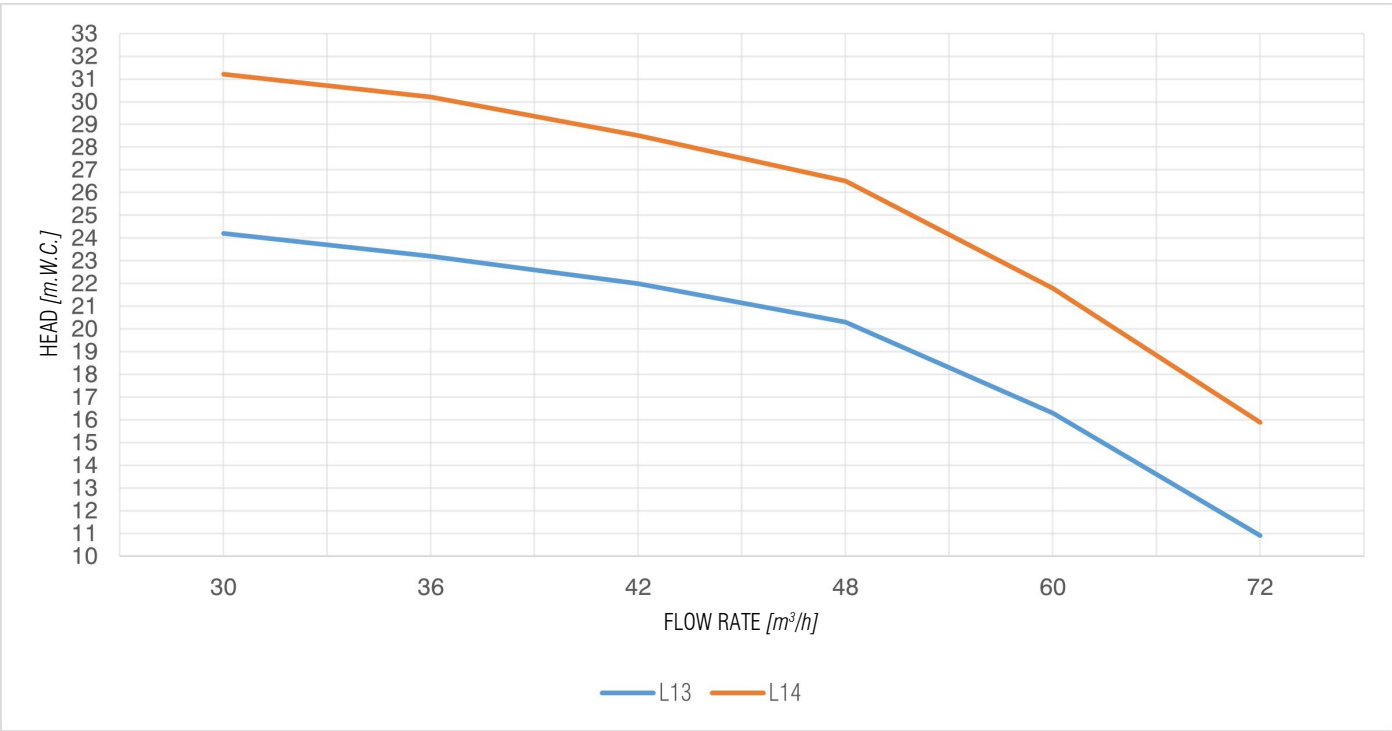
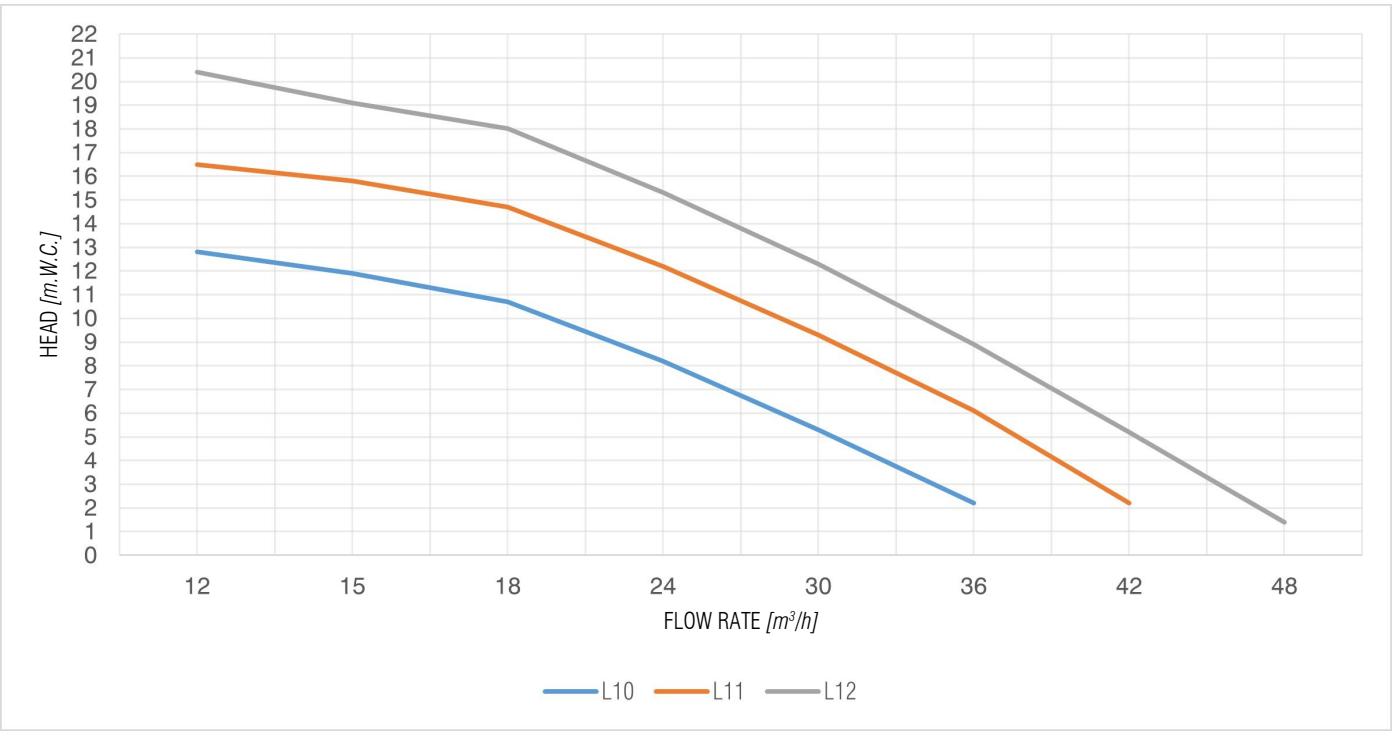
Model	Tank Capacity						
	75	150	300	500	750	1000	1500
L00 - No electric pump	✓	✓	✓	✓	✓	✓	✓
L01	✓	✓	✓	✓	✓	✓	✓
L02	✓	✓	✓	✓	✓	✓	✓
L03	✓	✓	✓	✓	✓	✓	✓
L04	✗	✓	✓	✓	✓	✓	✓
L05	✗	✓	✓	✓	✓	✓	✓
L06	✗	✓	✓	✓	✓	✓	✓
L07	✗	✗	✓	✓	✓	✓	✓
L08	✗	✗	✓	✓	✓	✓	✓
L09	✗	✗	✓	✓	✓	✓	✓
L10	✗	✗	✓	✓	✓	✓	✓
L11	✗	✗	✓	✓	✓	✓	✓
L12	✗	✗	✓	✓	✓	✓	✓
L13	✗	✗	✗	✗	✓	✓	✓
L14	✗	✗	✗	✗	✓	✓	✓
L15	✗	✗	✗	✗	✗	✓	✓
L16	✗	✗	✗	✗	✗	✓	✓

ELECTRIC PUMP HEAD & FLOW CURVE L01 + L06

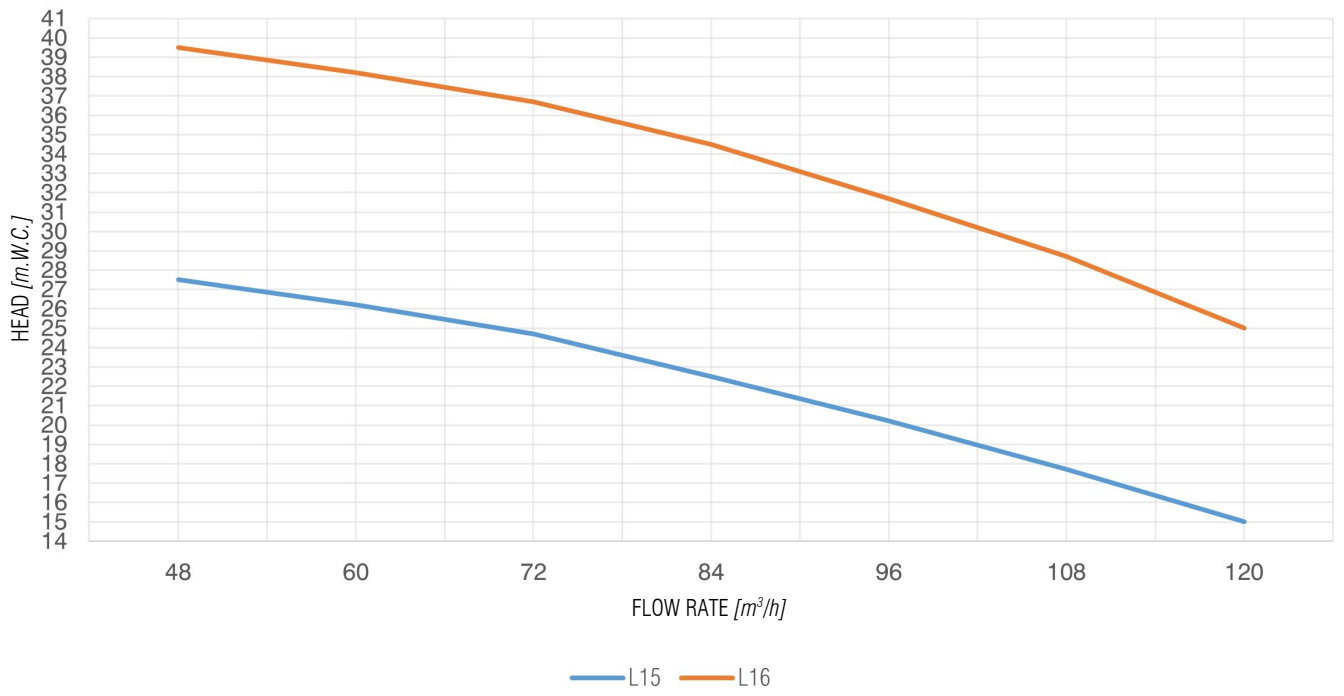


ELECTRIC PUMP HEAD & FLOW CURVE L07 + L09

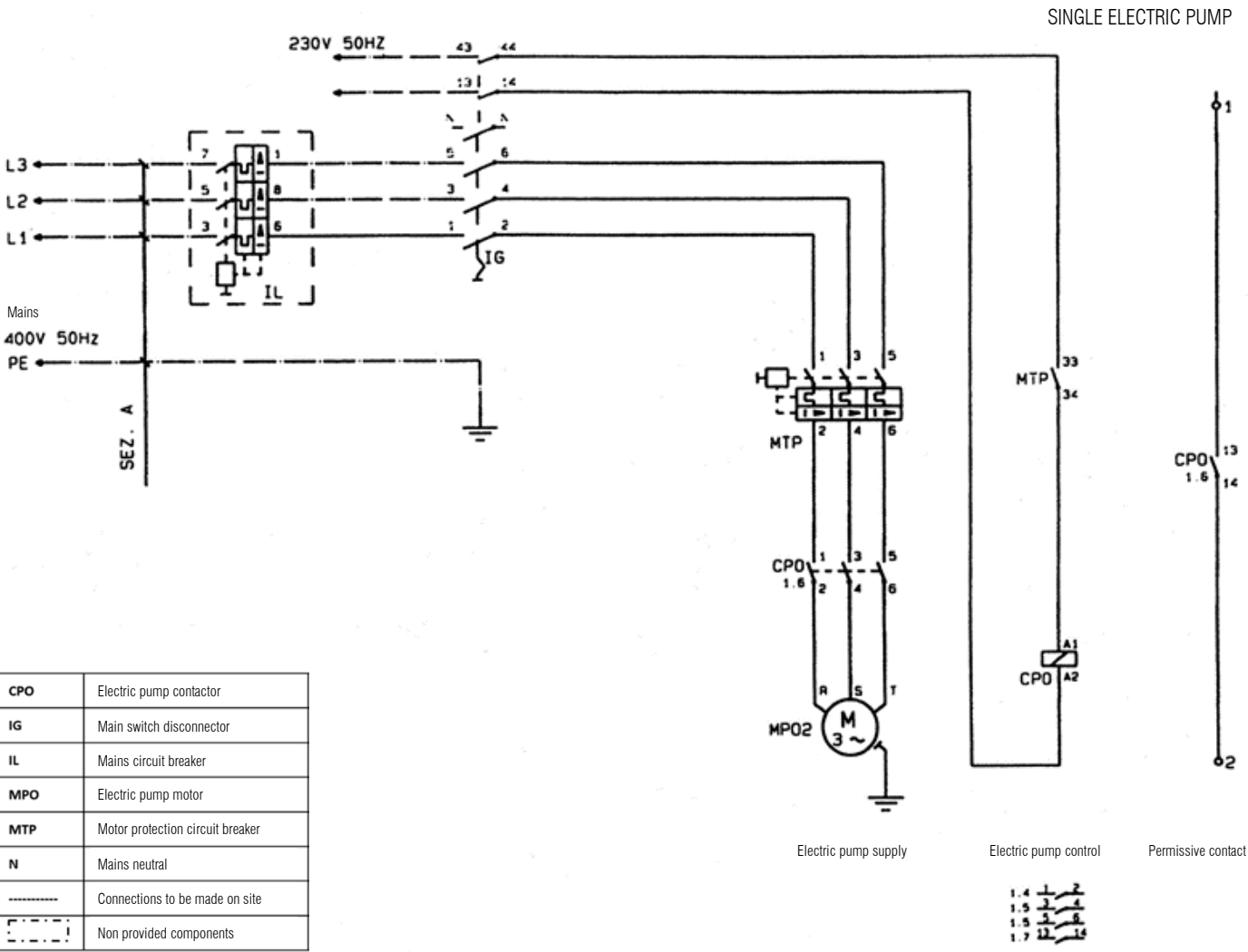




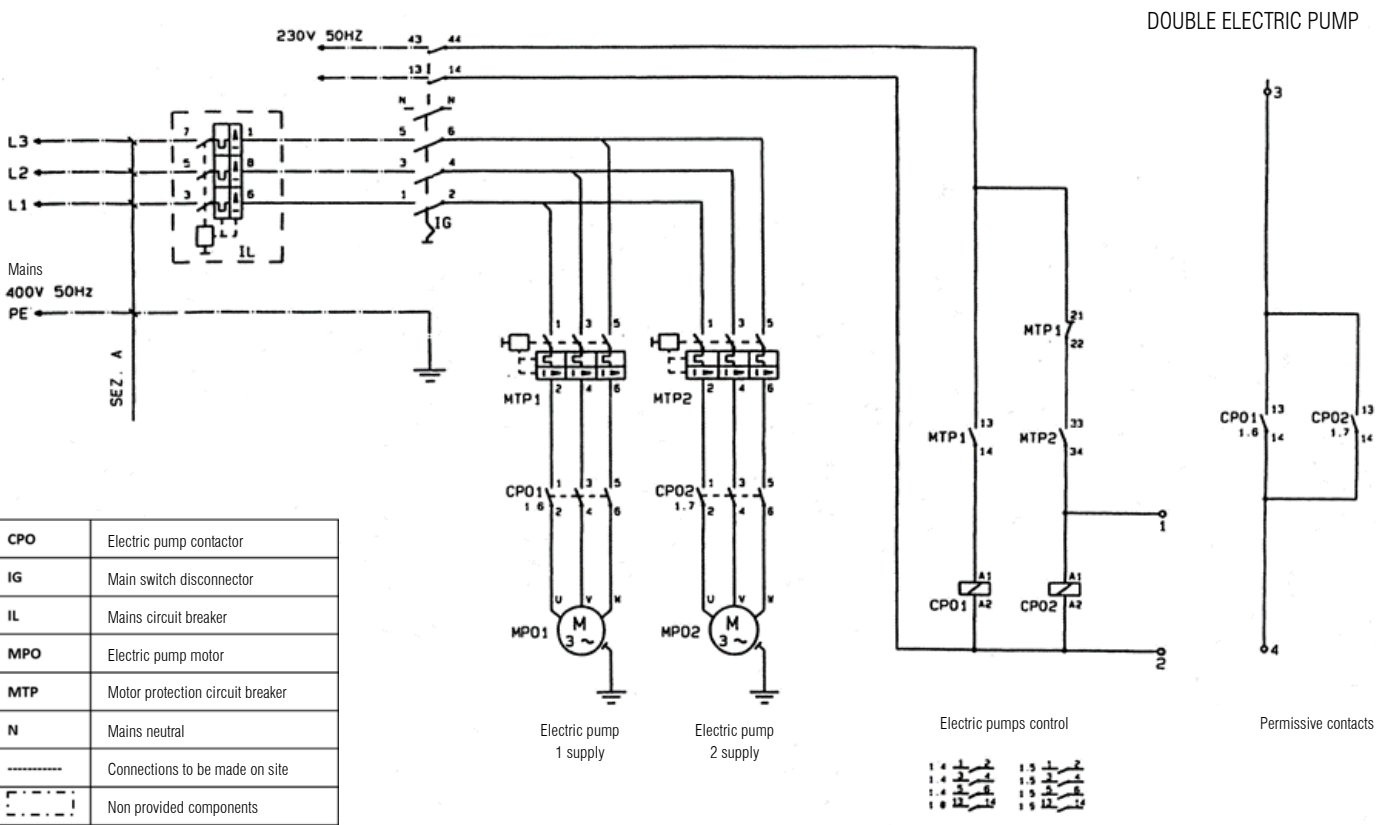
ELECTRIC PUMP HEAD & FLOW CURVE L15-L16



SINGLE ELETRIC PUMP WIRING DIAGRAM



DOUBLE ELETRIC PUMP WIRING DIAGRAM



INSTALLATION ASSUMPTION

POLARIS



CHILLED WATER HYDRONIC KIT

HOW TO ORDER

Model

POL

-

L07

+

2

/

1000

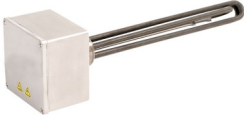
0 → Without pump (L00)

1 → Single pump

2 → Double pump

Tank capacity

ACCESSORIES & SPARE PARTS

ITEM	PART NO.	
500 W antifreeze electric heater (230V) - 1"¼ connection	RES005-IP55	

www.pacetti.it



MADE IN ITALY

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