

PI

Domestic hot water heat stations

PI



The PI series of domestic hot water heat stations are complete plug and play systems, suitable for the production of the domestic hot water in combination with TP-TPS tanks.

A stainless steel plate heat exchangers to AISI 316, they incorporate high efficiency variable speed water pump and an electronic controller with display and electronic D.H.W. flow switch. The electronic control maintains a constant value of the outlet water temperature by modulating the waterflow of the primary circuit.

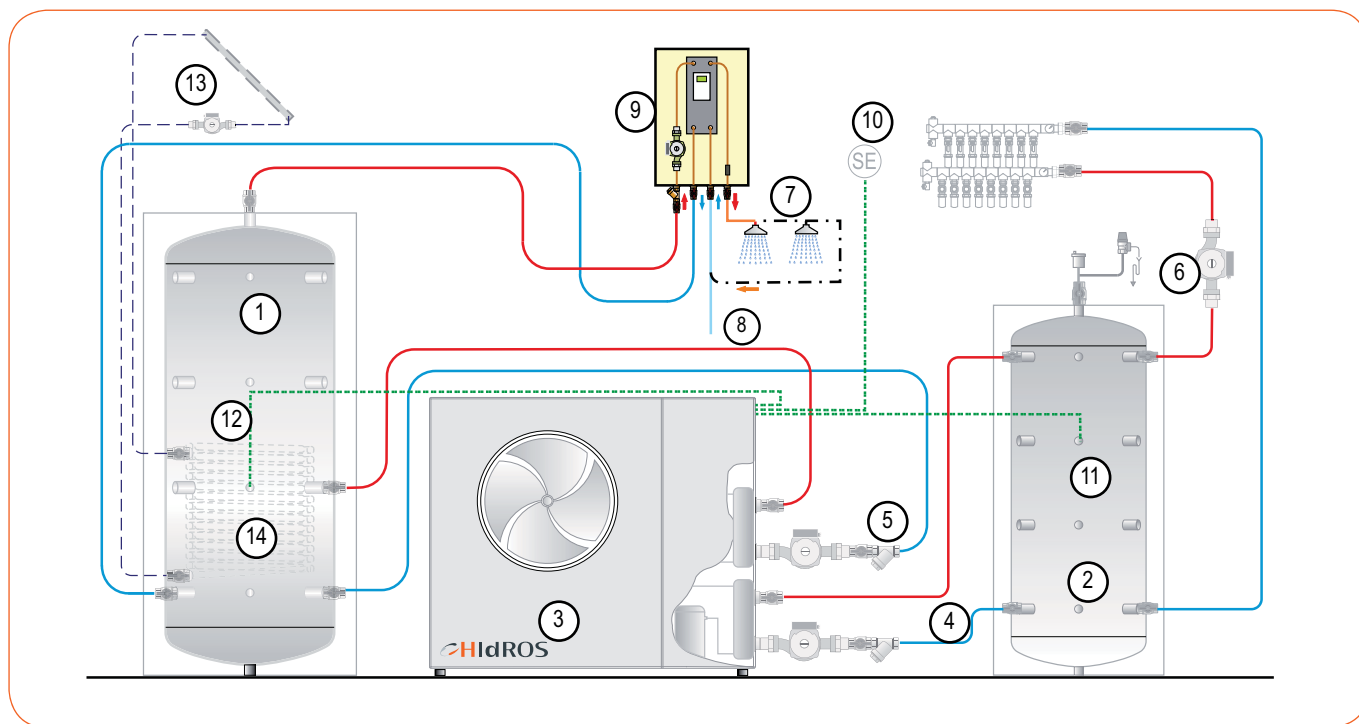
These devices enable the production of domestic hot water with minimal FORMATION OF LIMESTONE due to the very small amount of water present in the secondary water circuit.

VERSIONS AND ACCESSORIES

- **PI:** Domestic hot water heat station.

PRODUCT SPECIFICATIONS

- Precise regulation of water outlet temperature.
- Electronic driven water pump with very low input power.
- Graphic display with indication of water temperatures and heating capacity.
- Regulation of primary circuit water pump rpm depending on the required set point. Range: 30 - 65°C.
- Maximum water temperature Tmax. Range 60 -75°C.
- Management of recirculation water pump (max. input power 185W). Ability to control the secondary circuit water pump to maintain a constant temperature in the circuit (adjustable 10 - 40 °C).

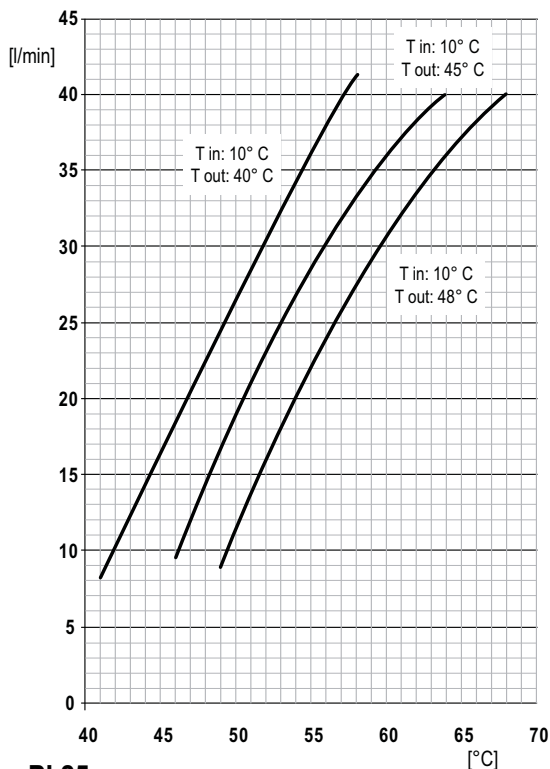


1	Hot water storage tanks TP/TPS
2	Buffer tank TF
3	Heat pump
4	Primary circuit pump (Heating and cooling)
5	Domestic hot water pump
6	Underfloor system water pump
7	Domestic hot water outlet

8	Cold water inlet
9	Domestic hot water station
10	External sensor (Supplied with the heat pump)
11	Hot water sensor (Supplied with the heat pump)
12	D.H.W. sensor (Supplied with the heat pump)
13	Solar system
14	Solar coil (TPS versions only)

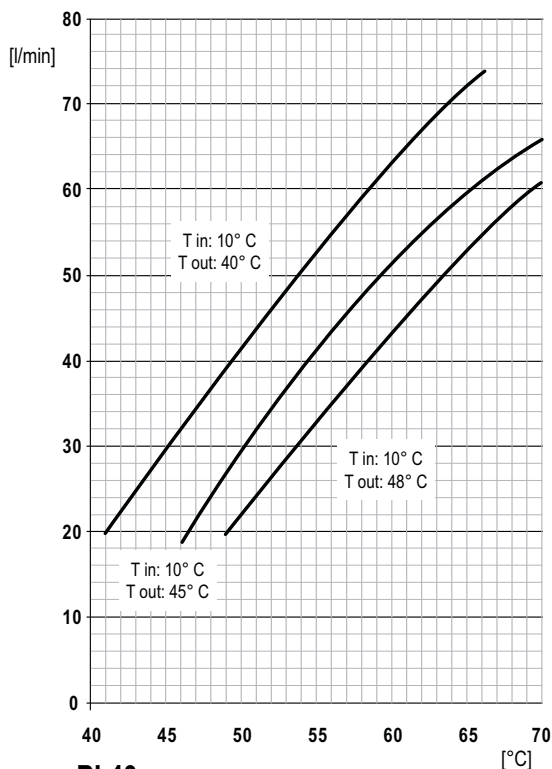
Model PI		25	40	60	70	80	100	120
Power supply		230V / 50 hz / 1 ph						
Water pump input power	W	40	80	310	310	310	450	450
Nominal domestic hot water circuit waterflow	l/min	25	40	60	70	80	100	120
Minimum domestic hot water flow	l/min	2	4	5	5	10	10	10
Water pump input current	A	0,58	0,96	1,37	1,37	1,37	2,01	2,01
Recirculation pump max. input power (optional)	W	185	185	185	185	185	185	185
Primary circuit waterflow	lt/h	2500	2800	6700	8200	9000	11000	14000
Primary circuit available static pressure	KPa	2,2	2,5	2,0	4,0	2,0	2,0	4,0
Weight	Kg	20,5	22,5	130,0	130,0	140,0	150,0	150,0
Primary water circuit volume	l	0,85	1,35	1,79	2,08	2,22	2,65	3,22
Domestic hot water circuit volume	l	0,95	1,45	1,93	2,22	2,36	2,79	3,36
Max. working pressure	bar	6	6	6	6	6	6	6
Protection degree	IP	40	40	40	40	40	40	40
Primary circuit water connections	Ø	1"	1"1/4	1"1/4	1"1/4	1"1/4	1"1/2	1"1/2
Domestic hot water circuit water connections	Ø	3/4"	1"	1"	1"	1"	1"1/4	1"1/4
Max. working temperature	°C	95	95	95	95	95	95	95

D.H.W. SUPPLY FLOW RATE



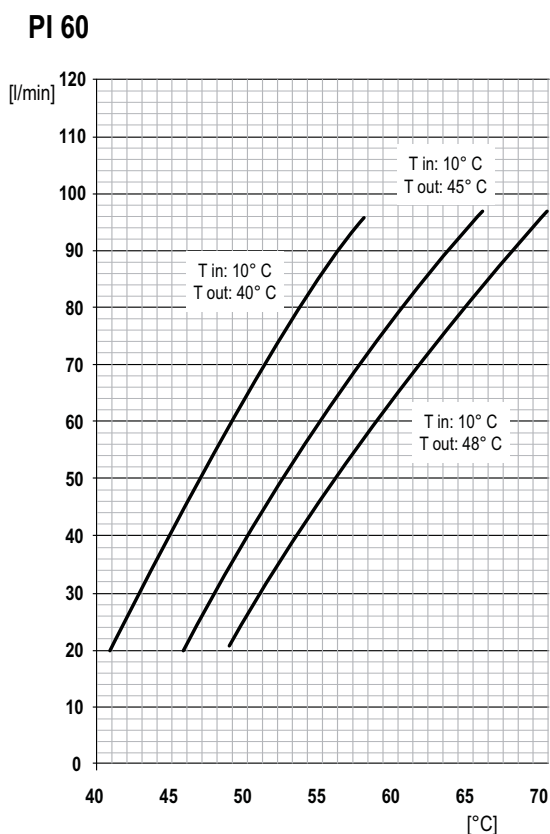
PI 25

Primary input temperature



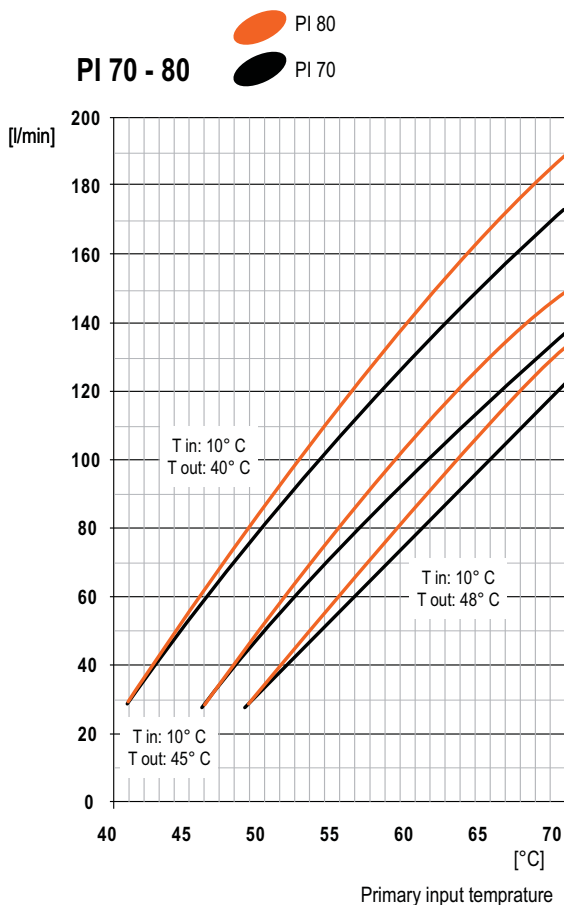
PI 40

Primary input temperature



PI 60

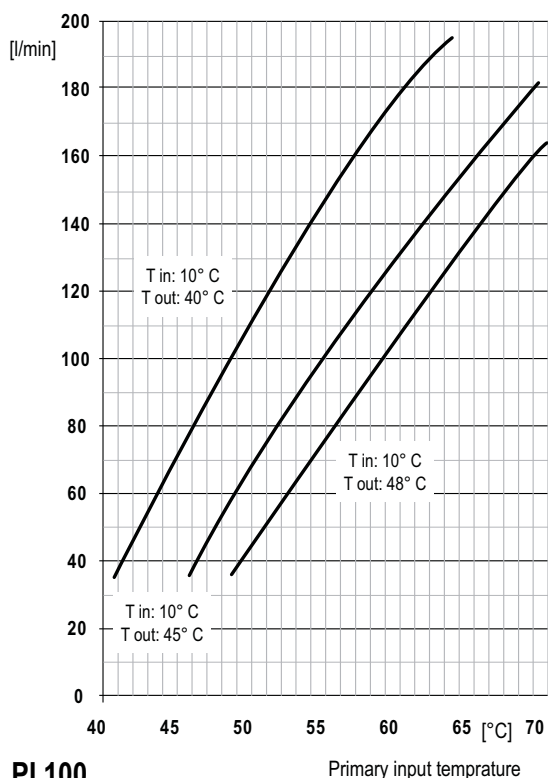
Primary input temperature



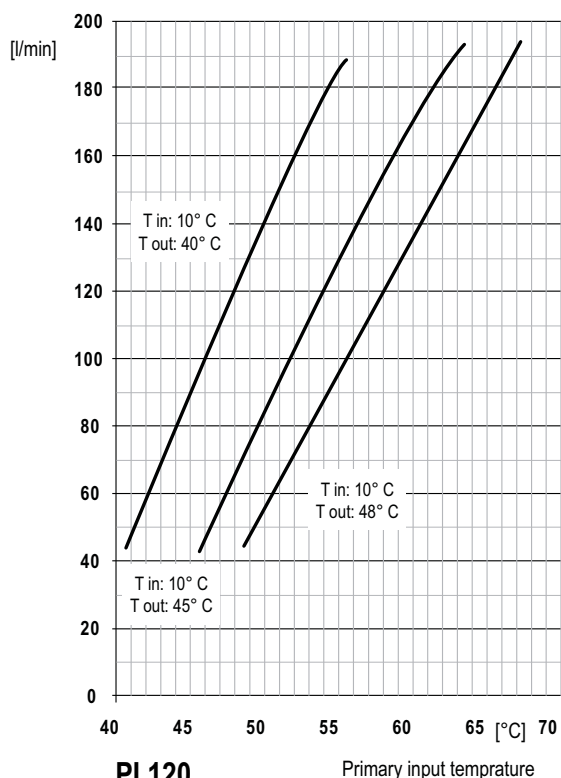
PI 70 - 80

Primary input temperature

D.H.W. SUPPLY FLOW RATE



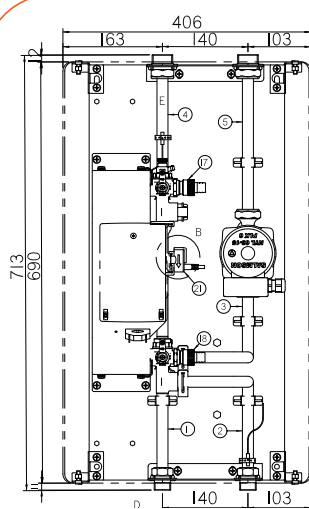
PI 100



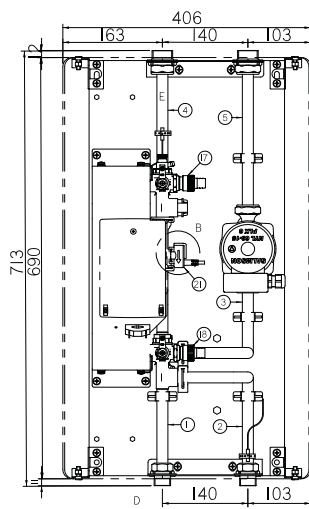
PI 120

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|---|--|
| 1 | Electronic driven water pump (primary circuit) |
| 2 | Temperature sensor (PT1000) |
| 3 | Microprocessor control |
| 4 | Electric enclosure |
| 5 | Plate heat exchanger AISI 316 |
| 6 | Supply primary water circuit |
| 7 | Return primary water circuit |

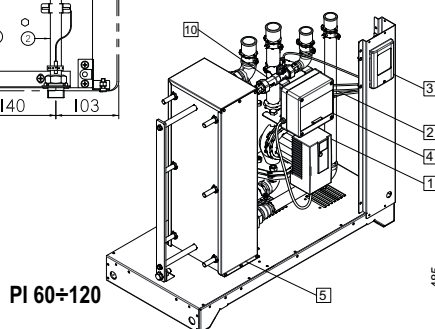
- | | |
|----|---------------------------|
| 8 | Cold water inlet |
| 9 | Domestic hot water outlet |
| 10 | Flowmeter |
| 11 | |
| 12 | |
| 13 | |
| 14 | |



PI 25



PI 40



PI 60÷120

