



Loop heaters/Superheaters

Output to spare

Having hot water as soon as water is drawn for complete comfort, being able to count on higher temperatures if required and according to needs for optimum effectiveness...

The loop heater/superheater is one of the best solutions for combating legionnaires' disease: water is maintained at a temperature of 50°C in the pipes.

Operation

Depending on its output, the loop heater/superheater provides instant heating of hot water with a mini-storage volume of 75 litres.

Loop heater function: either to maintain the temperature of the water circulating in the supply pipes to prevent the growth of legionella bacteria, or to prevent cold water from being supplied when water is first drawn.

Superheater function: as a complement to a water heater, to obtain higher temperatures for a defined period or flow.

Technical characteristics

- Steel RST 235 tank
- Securex mineral lining (anti-corrosion and anti-perforation)
- Working pressure: 7 bars and testing pressure: 12 bars
- 30 mm thick, 0% CFC polyurethane insulation foam
- Sheathed heating element (Incoloy 800 type) from 3 to 30 kW for completely heating the water above 60°C
- Control bulb thermostat, adjustable from 35°C to 85°C in 5°C increments, with a safety thermal cut-out mechanism, to be coupled with a power switch (not supplied) for models greater than 5 kW
- Inlet/outlet tubes (40/49) to provide a significant flow with low load losses

Technical data

75 litre tank	Output (kW)	Voltage (V)	Initial heat-up time**	Flow at 45°C		Net weight (kg)
				hour	Litres/minute	
RB/S - 3	3	T.C	1h36	86	1.4	40
RB/S - 6	6	Tri 230/400 V 3	48 mn	172	2.8	40
RB/S - 15	15	Tri 230/400 V 3	30 mn	430	7.2	45
RB/S - 30	30	Tri 400 V 3	10 mn	859	14.3	55

** from 15 to 65°C

Flow in litres per hour

Output (kW)	Temperature difference									
	10	15	20	25	30	35	40	50	60	70
3	258	172	129	103	86	74	64	52	43	37
6	515	344	258	206	172	147	129	103	86	74
15	1289	859	644	515	430	368	322	258	215	184
30	2577	1718	1289	1031	859	736	644	515	430	368

Applications

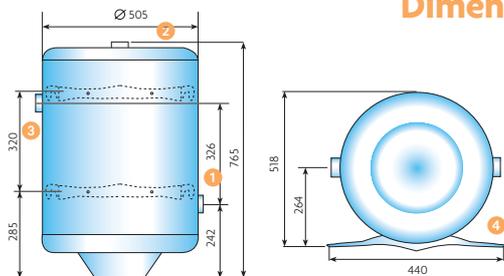
Loop heater function

• Hotels • Residential buildings • Cafeterias • Hospitals • Barracks • Industries...

Fonction surchauffeur

• Farms • Agri-business industries • Butchers • Kitchens • Launderettes • Industrial processes...

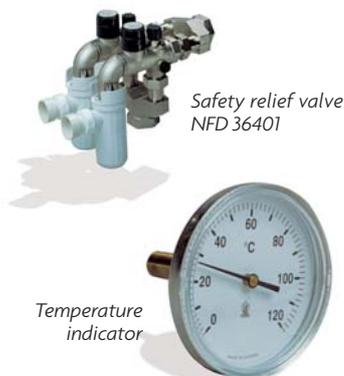
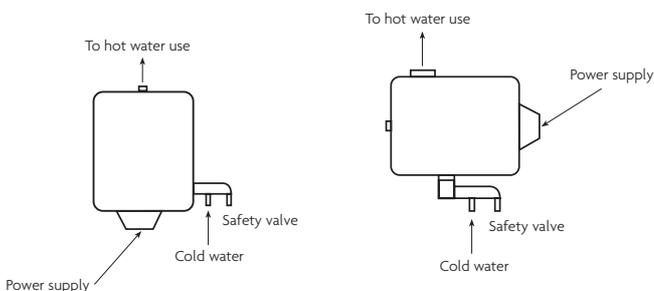
Dimensions Single 75 litre capacity



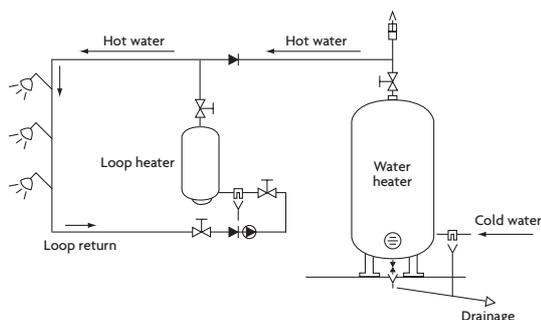
- 1 Cold water inlet: F40/49
- 2 Hot water outlet: F40/49 (vertical position)
- 3 Hot water outlet: F40/49 (horizontal position)
- 4 Bracket



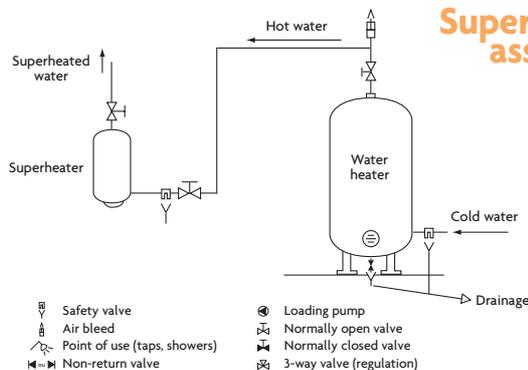
Multi-position



Loop heater assembly



Superheater assembly



Accessories and options

Accessories (to be specified for all requests)

	Electric water heaters	Loop heater/ super heater	Calorifiers with exchanger	Serpentix	Hotwater storage tank	Buffer tank
Temperature limiter	•		•	•		
Temperature indicator	•		•		•	
Safety valve 26-34** output installed =< 15 kW	•**	•	•**		•**	
Safety valve 26-34** output installed > 15 kW	•*	•	•*	•	•*	
DN 50 valve	•		•	•	•	•
Air bleed	•	•	•	•	•	•

Safety valve selection table

Capacity (L)	500	750	1000	1500	2000	2500	3000
Normal heating	26 - 34	26 - 34	26 - 34	26 - 34	33 - 42	33 - 42	33 - 42
Accelated heating	26 - 34	26 - 34	26 - 34	-	33 - 42	33 - 4	-

Options (to be specified at each request)

	Electric water heaters	Loop heater/ super heater	Calorifiers with exchanger	Serpentix	Hotwater storage tank	Buffer tank
Profiled and insulated 500-mm diameter inspection cover (>=500L)	•		•*		•*	•
Loop return on 500 L	•				•	
Bottom dome drain 500 L (excluding PU metal)	•				•	•
Addition of a 5 kW upper heating element (preheating or frost protection)	•					•*

* depending on the model - ** delivered without funnel