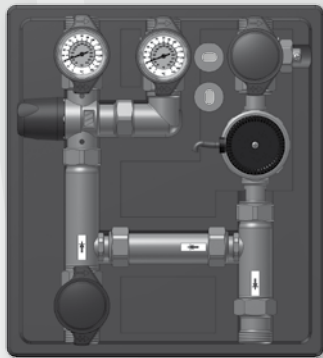


TANK ACCESSORIES

CIRCULATION UNIT



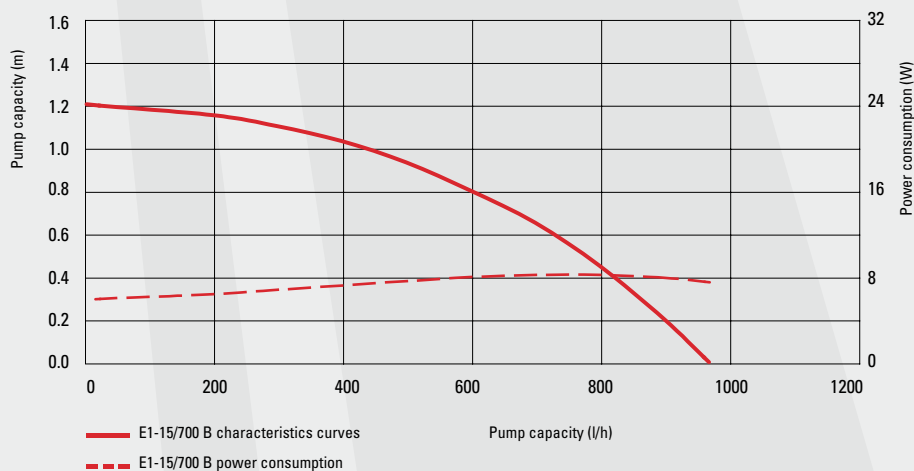
Description

This pump group provides hot water circulation in sanitary systems. The advantages are the immediate availability of hot water (lower water consumption) and protection from Legionella. The hot water temperature is always held constant by action of the integrated thermostatic mixing valve. A bypass from the circulation pipe to the mixing valve minimises the energy loss in the hot water circulation. Unfavourable fluid flow is prevented by integrated check valves. The ready-to-install component is fully insulated and assembled. The circulation pump can be adjusted to the desired circulation temperature by means of the in-built thermostat.

Specifications

Type	ALS 1500	
Item no.	1610610	
Connections	1" male thread	
Max. discharge capacity	1500 l/h with 1 bar pressure loss	
Insulation	Material	EPP
	Thermal conductivity	0.041 W/mK
	Max. temperature	120°C
	Temperature for short periods up to	180°C
	Height	360 mm
	Width	340 mm
	Depth	180 mm
Individual parts	Lower shell	360 x 340 x 65
	Upper shell	360 x 340 x 115
Circulation pump	Type	Laing ECOCIRC-E1 15/700BR
	Installation length	65 mm
	Max. delivery pressure	15 kPa
	Temperature range	-10°C/+110°C
	Housing material	Bronze
	Max. power consumption	8W
	Max. operating pressure	10 bar
	Thermostat adjustment range	20 °C - 70 °C

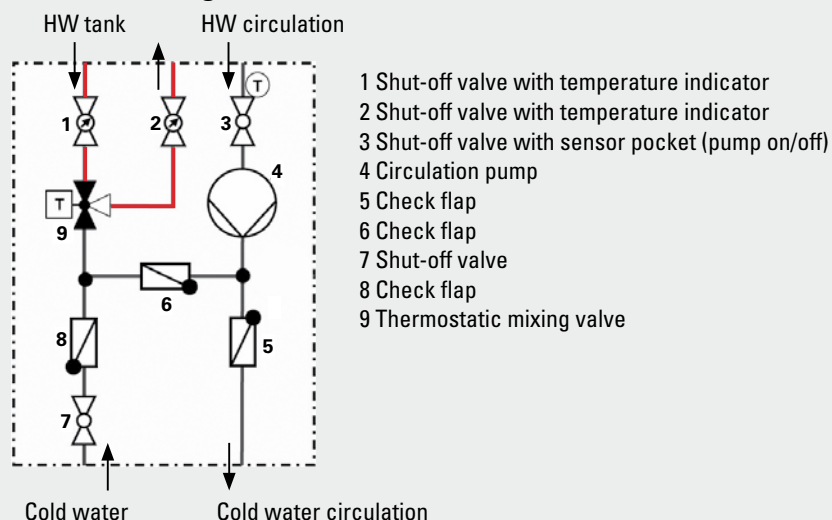
Pump characteristics curves and power consumption



CIRCULATION UNIT

Shut-off valve with temperature measurement	Material	Brass
	Temperature range	0 °C – 120 °C
	Dimension	1"
	Installation length	65 mm
	Installation location	Hot water pipe Mixed water pipe
Shut-off valve with sensor pocket	Material	Brass
	Dimension	1"
	Installation length	65 mm
	Installation location	Circulation pipe
Blocking valve	Material	Brass
	Dimension	1"
	Installation length	65 mm
	Installation location	Cold water pipe Circulation pipe
Check flaps	Material	Plastic
	Installation location	Mixing valve on hot water side Mixing valve on cold water side Cold water ball valve Bypass Circulation pipe
Thermostatic mixing valve	Material	Brass
	Dimension	1"
	Max. hot water temperature	85°C
	Max. static pressure	10 bar
	Operating pressure	0.2 – 5 bar
	Temperature adjustment range	30 – 65 °C
	Flow at 3 bar	57 l/m
	Temperature deviation	1.5°C
	Anti-scalding protection	in compliance with EN1111 and EN1287
Piping	Material	Brass
	Dimension	1"
Installation options:	Wall installation	
Mounting material	Screws and anchors included in the scope of delivery	

Functional diagram



- 1 Shut-off valve with temperature indicator
- 2 Shut-off valve with temperature indicator
- 3 Shut-off valve with sensor pocket (pump on/off)
- 4 Circulation pump
- 5 Check flap
- 6 Check flap
- 7 Shut-off valve
- 8 Check flap
- 9 Thermostatic mixing valve

TANK ACCESSORIES

CIRCULATION UNIT

Pressure drop curves

