

DATA SHEET

LK 810 ThermoMat ECO+ Load Unit



Main features

Application	for heating circuits with solid fuel boiler and thermal store
Description	Load Unit mixes return water from a heating system or thermal store with hot water from boiler flow, keeping boiler return water at a given min. temperature; it is fitted with backflow preventer
Check valve function	permits boiler cooling by gravity circulation during power breakdown, preventing also thermal store cooling down via extinguished boiler
Installation	on boiler return pipe
Working fluid	water, water/glycol mixture (max. 1:1) or water/glycerine mixture (max 2:1)

Codes

max. boiler output

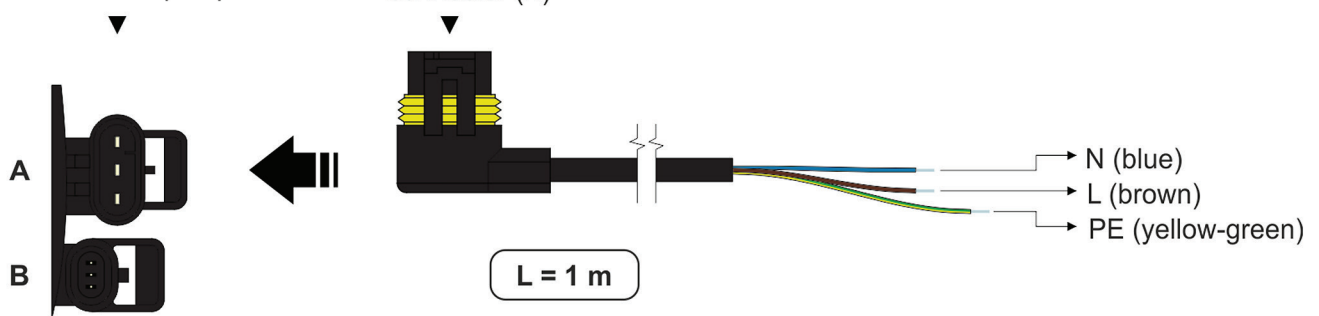
15046	for thermostatic element opening temp. 55 °C	56 kW
15047	for thermostatic element opening temp. 65 °C	45 kW
16244	for thermostatic element opening temp. 72 °C	41 kW

Load unit data

Fluid working temperature	2–110 °C
Max. working pressure	10 bar
Min. working pressure	0.5 bar
Max. power input	52 W
Ambient temperature	0–70 °C
Power supply	230 V, 50 Hz
Insulation material	EPP
Overall dimensions	258 x 204 x 120 mm
Total weight	3.45 kg
Connection	3 x G 5/4" F

Connection of UPM3 Auto pump

connection for power supply (A)
and PWM signal transmission (B)
- not used in this pump



* PWM control is not supported by UPM3 Auto pump.

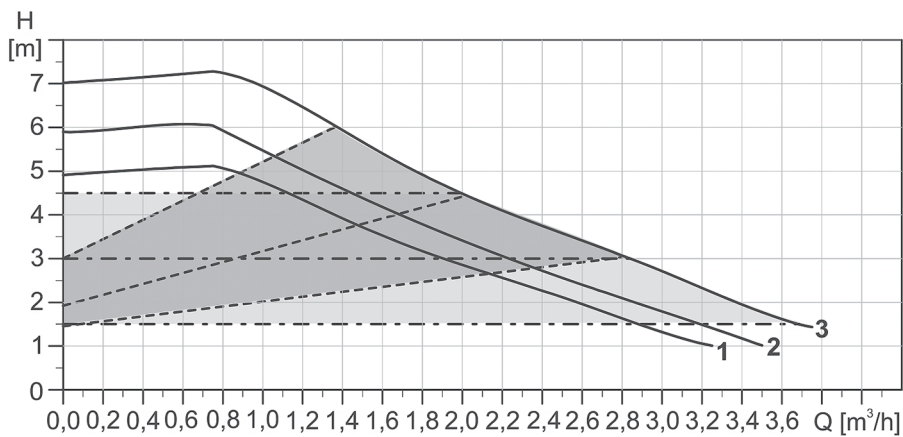
Power supply cable with terminal is included in supply.

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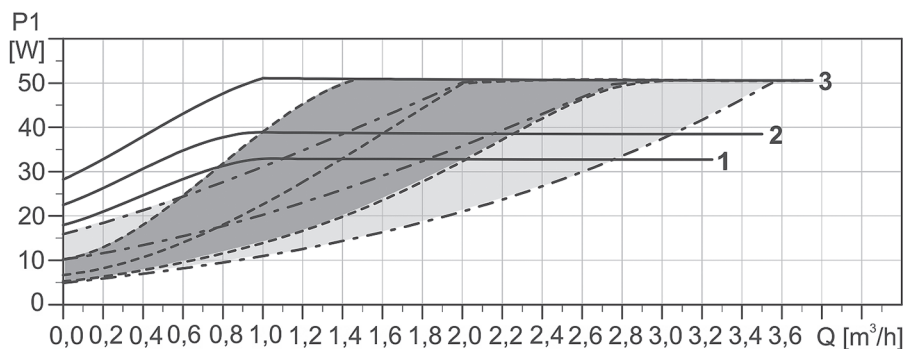
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Performance view

	Display	Control mode	
	Green LED BLINKING	Internal	
1		Proportional pressure AUTO _{ADAPT}	
2		Constant pressure AUTO _{ADAPT}	
3		Proportional pressure	I
4			II
5			III
6		Constant pressure	I
7			II
8			III
9		Constant speed	I
10			II
11			III

Performance curves for UPM3 Auto


Curve	Max. H (upper graph)	Max. P ₁ (lower graph)
—	5 m	33 W
- - - - -	6 m	39 W
- · - · - ·	7 m	52 W



—	Constant curve
- - - - -	Proportional pressure
- · - · - ·	Constant pressure