



PERFORMANCE RANGE

- Flow rate up to **3.5 m³/h** (0.97 l/s)
- Head up to **6 m**

APPLICATION LIMITS

- Liquid temperature between **+2 °C** and **+95 °C**
- Ambient temperature between **0 °C** and **+40 °C**
- Maximum working pressure **6 bar**
- Minimum pressure while in suction:
 - **0.3 bar** at +50 °C
 - **1.0 bar** at +95 °C
- Maximum relative humidity \leq **95%**
- Sound pressure level **< 43 dB(A)**
- Maximum glycol **30%**
- Continuous service **S1**

CONSTRUCTION AND SAFETY STANDARDS

EN 60335-1	EN 61000-3-2	EN 55014-1
EN 60335-2-51	EN 61000-3-3	EN 55014-2
EN 62233	EN 16297-1	EN 16297-2

EU REGULATION N. 622/2012 - EEI \leq 0.20

The benchmark for the most efficient circulators is EEI \leq 0.20

INSTALLATION AND USE

Electronic circulating pumps at low energetic consumption as A+ class. Compared to traditional circulating pumps with same performances, these may go up to -85% consumption of electricity. These are recommended for house and residential building. Due to electronic control is possible to achieve advanced options as well as the running operations simply adjusting tuning selector from control box.

Running available programmes allow circulating pumps to perform the best lowering energetic consumption as well as cancelling noise of waterflow inside pipes, valves and radiators.

Installation needs to be undertaken in well ventilated closed areas or anyway protected from bad weather.

CERTIFICATIONS

Company with management system certified DNV ISO 9001: QUALITY

MODES OF OPERATION

The control panel allows one to select the preferred work curve by means of three programmes.

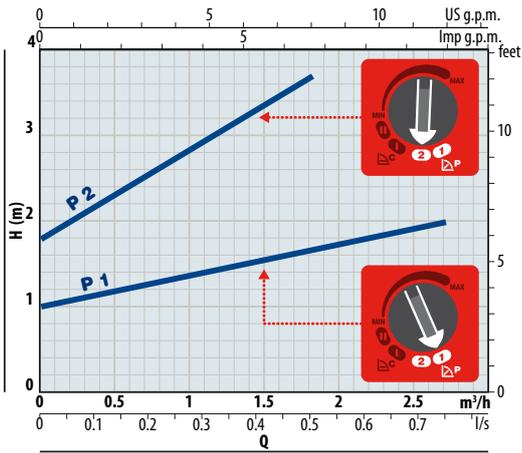
A luminous LED, with different colours, provides information regarding the operating status of the circulator.

	<p>PROPORTIONAL PROGRAMME (GREEN LED)</p>		<p>It changes proportionally the pressure (head) in accordance with demanded heat from the system (variation of delivery).</p>	<p>In case of air-bubble inside the system is told by a led in the control box. The built-in electronic allows automatic reset of the motor in case of this inconvenience occur.</p>
	<p>CONSTANT PROGRAMME (ORANGE LED)</p>		<p>It keeps the pressure constant (head) in accordance with demanded heat from the system (variation of delivery).</p>	
	<p>CUSTOM-MADE PROGRAMME (BLUE LED)</p>	<p>MIN MAX</p>	<p>Fixed speed curves of operation, adjustable by positioning the selector anywhere between the MIN and MAX positions</p>	

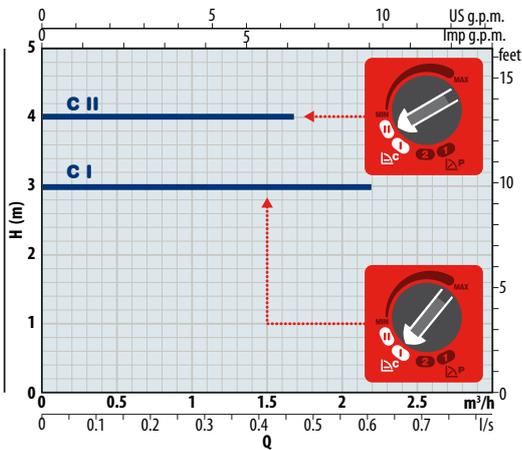
WHITE LED.
Air bubble in the system. Vent system.

RED LED.
Circulating pump is in block still under tension.

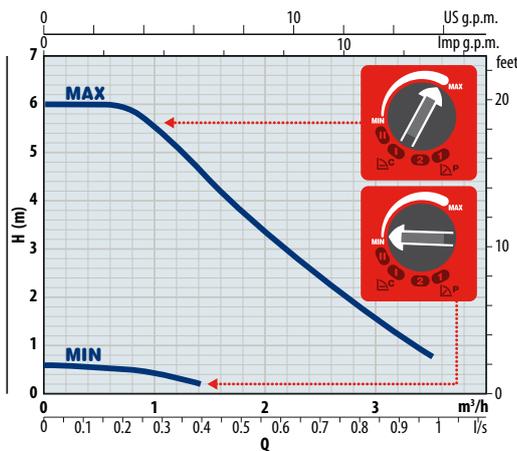
CHARACTERISTIC CURVES



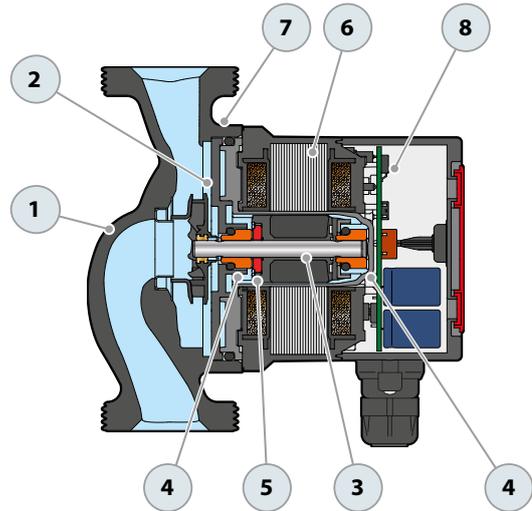
CHARACTERISTIC CURVES



CHARACTERISTIC CURVES MIN-MAX

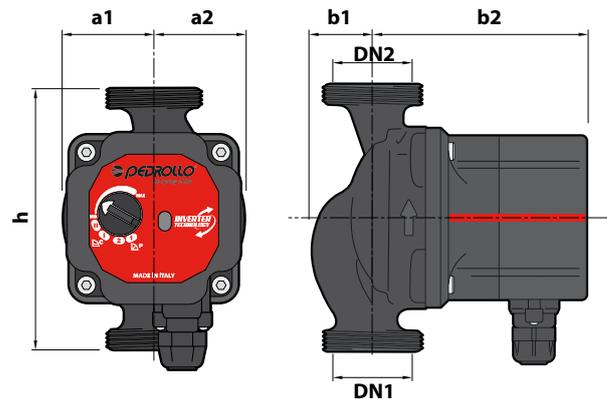


CONSTRUCTION CHARACTERISTICS



1	PUMP BODY	Cast iron with an Epoxy Electro Coating treatment
2	IMPELLER	Technopolymer
3	SHAFT	Ceramic
4	BEARINGS	Graphite
5	THRUST BEARING	Ceramic
6	ELECTRIC MOTOR	<ul style="list-style-type: none"> - Single-phase - 230 V (-10%; +6%) - 50 Hz - Absorbed power P1: Min 3 W - Max 42 W - Absorbed current I1: Min 0.03 A - Max 0.33 A - Insulation: class H - Protection: IP 44 - Appliance Class: II
7	SEALS	EPDM
8	ELECTRONIC CIRCUIT BOARD	

DIMENSIONS AND WEIGHT



MODEL	PORTS		DIMENSIONS mm					kg
	DN1	DN2	h	a1	a2	b1	b2	
Single-phase			130					
DHL 25-60/130	G 1½"	G 1½"	130	45	45	29	104.2	2.01
DHL 25-60/180			180					2.60