ErP ready

easy

air

autounlock

Display alternates pump power consumption and flow data information

Simple to set with Press&Turn dial. The operating mode symbol lights up when in use

All the necessary inputs for the remote monitoring and control of the pump are included

DESIGN

Askoll ENERGY SAVING is a wet rotor high efficiency circulator, driven by a permanent magnets synchronous motor (PM motor) controlled by an on board inverter. The motor is protected against overload thanks to a thermal protection and an automatic electronic release function of the rotor. No external protection is required. Operated by selector technology. Integrated display and symbols user interface.

APPLICATION

Hot-water heating systems of all kinds, closed cooling circuits, circulation in solar thermal and geothermal systems, for domestic and industrial circulation systems.

PRODUCT FEATURES AND BENEFITS

- Maximum savings on operating costs thanks to high-efficiency technology combined with speed control
- Your investments on the future thanks to its maximum energy efficiency, exceeding future energy efficiency regulations such as ErP
- "All-in" concept saves investment and commissioning costs
- Multiple pump operation
- Easy performance regulation in Δp-c (constant differential pressure) and Δp-v (proportional differential pressure)
- Min-Max mode with manual setting up to 10 fixed speed curves
- ECO-Mode with dynamic differential pressure set point adjustment
- Quick, easy and secure installation
- Thermal insulation shell included

MOTOR TECHNICAL DATA

Power supply	1x230 V (±10%), PE; Frequency: 50/60 Hz
Energy Efficiency Index (EEI)*	≤ 0,23 – Part 2
Input power (P_1)	Min 8W, Max 140W
Input current (I_1)	Min 0.10A, Max 1.15A
Insulation class	F
Protection class	IP44
Temperature class	TF 110

PUMP TECHNICAL DATA

Ambient temperature	from +0°C to +40°C
Allowed liquid temperature	from -10°C to +110°C
Temperature range at max. ambient temperature	of 30°C = +30°C to +90°C of 40°C = +40°C to +110°C
Maximum operating pressure	Max 1.0 MPa - 10 bar
Minimum pressure on the intake opening	0.05 MPa (0.5 bar) at 80°C 0.15 MPa (1.5 bar) at 95°C
Maximum relative humidity	≤ 80%
Sound pressure level	< 45 dB(A)
Low Voltage directive (2006/95/CE)	Standard used: EN 60335-1, EN 60335-2-51
EMC Directive (2004/108/CE)	Standard used: EN 61000-6-2, EN 61000-6-3
Ecodesign directive (2009/125/CE)	Standard used: EN 16297-1 e EN 16297-2
Approved fluids	Heating water to VDI 2035. Highly viscous fluids (e.g. 30 % glycol content and above) on request. Pure, thin-bodied, non-aggressive and non-explosive fluids not containing any mineral oil, solids or long fibres. Fluids with a viscosity of 10 mm^2/s max.
Inputs	Modbus RTU, 0-10VDC, Start/Stop signal, alarm signal, dual function

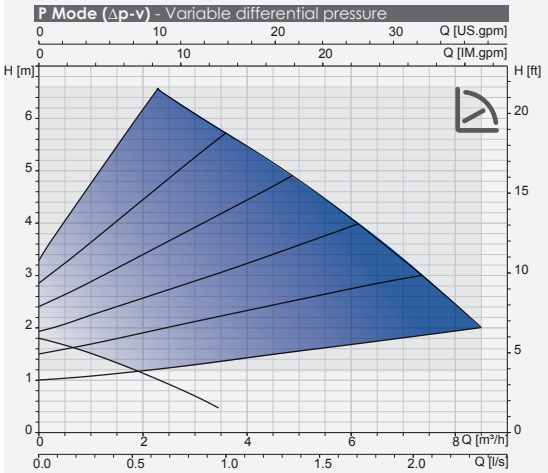
TYPE KEY

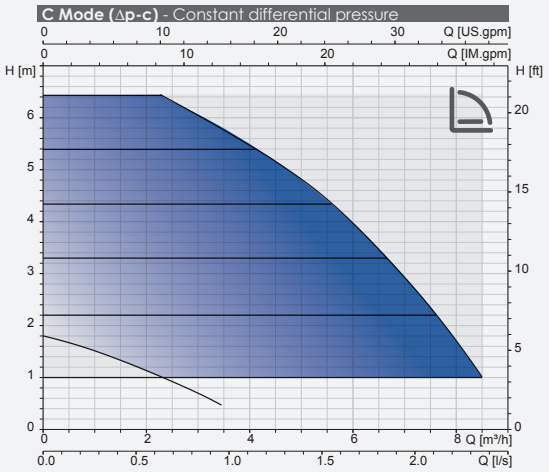
Example **ES** MAXI 25 - 80 / 180

- **ES** — Electronic circulator
- MAXI — Version
- 25 — Nominal diameter (DN) of suction and discharge ports (15 = G1, 25 = G1 1/2, 32 = G2)
- 80 — Maximum head [dm]
- 180 — Port-to-port length [mm]

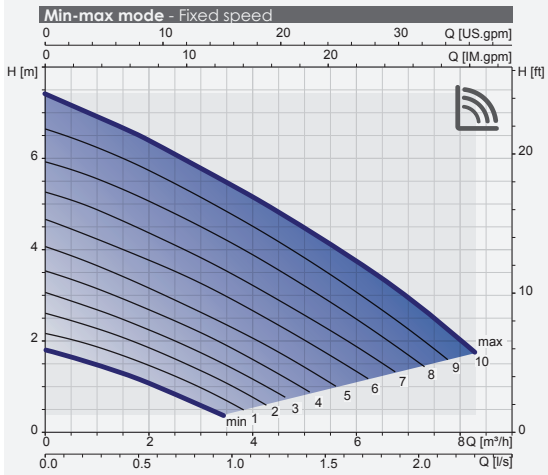
* The benchmark for most efficient circulators is EEI ≤ 0,20.

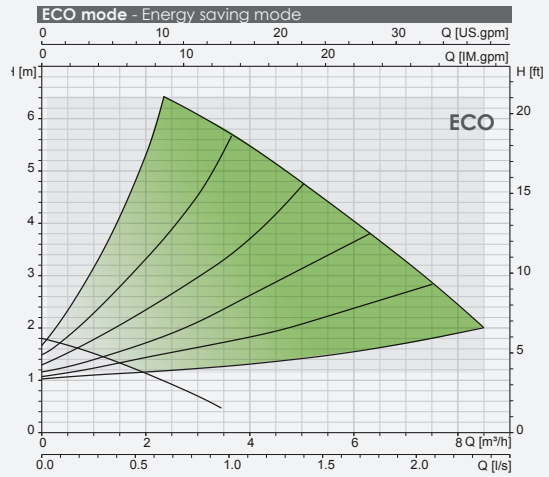
PERFORMANCE CURVES AND PUMP SETTINGS





Select program items and confirm parameters by pressing the button



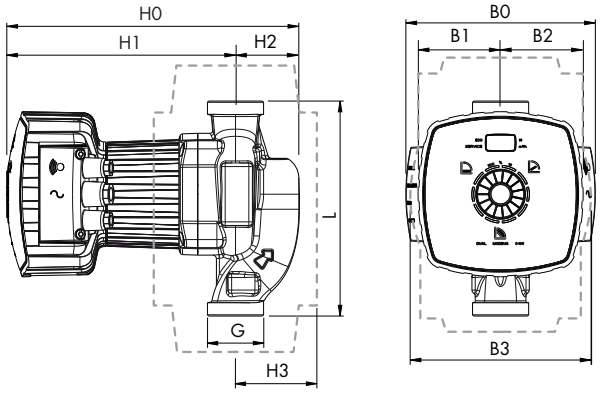


Set the parameters turning the button

MATERIALS

Model	Pump housing	Impeller	Shaft	Bearing	Rotor can	Thermal insulation shell
ES MAXI 80	Cast iron EN-GJL-200 with cataphoretic coating (KTL)	Stainless steel/ composite	Stainless steel 1.4304	Ceramics/ carbon (metal impregnated)	Stainless steel 1.4301	EPP

DIMENSIONS, WEIGHTS



MODEL	THREAD	DIMENSIONS [mm]									WEIGHTS [kg]	
	G	L	B0	B1	B2	B3	H0	H1	H2	H3	Net	Gross
ES MAXI 25 - 80/180	G 1 1/2	180	160	70	70	165	245	204	41	81	3,85	5,80
ES MAXI 32 - 80/180	G 2	180	160	70	70	165	245	204	41	81	3,85	5,80

Askoll Uno S.r.l. via L. Galvani, 31/33 - 36066 Sandrigo (VI) - ITALY
www.askoll.com