ASKOII ENERGY SAVING







The adjustment is simple and intuitive: simply turn the regulator to select the desired program



Pull-out resistant cable gland with integrated sealing lip



Flat surfaces on the pump housing provide a secure hold when tightening

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. LED user interface.

APPLICATION

Hot-water heating systems of all kinds, in domestic and commercial buildings.

PRODUCT FEATURES AND BENEFITS

- Very high degrees of efficiency due to Askoll permanent magnets motor
- Compact design: the smallest available on the market
- A LED provides information about the operation status of the circulator
- Electronic controls allow to set advanced features and load adjustment capacity ∆p-c (constant differential pressure) and Δp-v (proportional differential pressure)
- Min-Max mode: allows to set the exact working point across the range
- The pump housing is cataphoresis treated (KTL) and resistant to corrosion

MOTOR TECHNICAL DATA

MOTOR TECHNICAL DATA	
Power supply	1x230 V (-10%; + 6%); Frequency: 50 Hz
Electrical connection	Pull resistant cable clamp PG11
Energy Efficiency Index (EEI)*	≤ 0,20 – Part 2
Input power (P ₁)	Min 3W, Max 42W
Input current (I1)	Min 0.03A, Max 0.33A
Insulation class	Н
Protection class	IP44
Appliance class	ll
PUMP TECHNICAL DATA	
Ambient temperature	from +2°C to +40°C
Allowed liquid temperature"	from +2°C to +95°C
Temperature range at max. ambient temperature	of 30°C = +30°C to +95°C of 35°C = +35°C to +90°C of 40°C = +40°C to +70°C
Maximum operating pressure	Max 0.6 MPa - 6 bar
Minimum pressure on the intake opening	0.03 MPa (0.3 bar) at 50°C 0.10 MPa (1.0 bar) at 95°C
Maximum relative humidity	≤ 95%
Sound pressure level	< 43 dB(A)
Low Voltage directive (2006/95/CE)	Standard used: EN 62233, EN 60335-1 and EN 60335-2-51

(2006/95/CE) EMC Directive (2004/108/CE) Ecodesign directive (2009/125/CE)

Approved fluids

Water for heating according to VDI 2035. Mixtures of water and glycol with glycol percentages not greater than 30%.

EN 55014-1 and EN 55014-2

Standard used: EN 61000-3-2 and EN 61000-3-3,

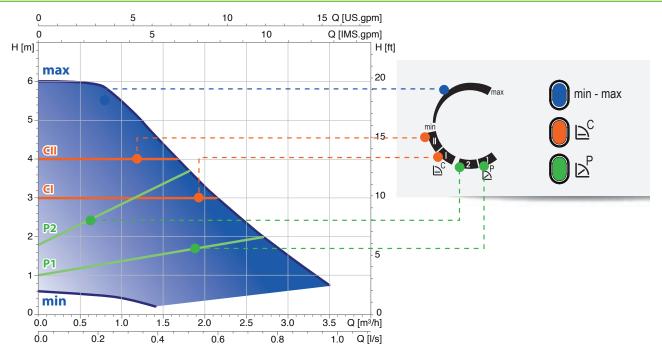
Standard used: EN 16297-1 and EN 16297-2

TYPE KEY

Example	ES2	25 - 60 / 1	80
Electronic circulator			T
Standard version			
ADAPT: Version with activeADAPT			
SOLAR: Solar thermal version			
Cast-iron pump housing			
C: Composite pump housing			
B: Bronze pump housing			
A: Pump housing with air separato	r		
Nominal diameter (DN) of suction of	and discharge		
ports (15 = G1, 25 = G1 ¹ / ₂ , 32 = G2)			
Maximum head [dm]			
Port-to-port length [mm]			
i on to pointongin [min]			

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PERFORMANCE CURVES AND PUMP SETTINGS

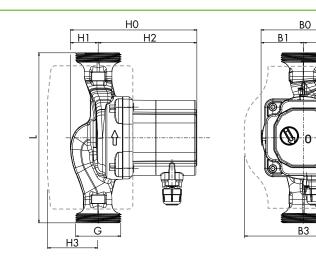


MATERIALS

Model	Pump housing	Impeller	Shaft	Bearing	Thrust bearing	Rotor can
ES2 60	Cast iron EN-GJL-200 with cataphoretic coating (KTL)	Composite	Ceramic	Carbon	Ceramic	Composite

B2

DIMENSIONS, WEIGHTS



MODEL	THREAD		DIMENSIONS [mm]								WEIGHTS [kg]	
	G	L	BO	B1	B2	B3	HO	H1	H2	H3	Net	Gross
ES2 15 - 60/130	G 1	130	90	45	45	124	133,8	29,4	104,4	49	1,67	1,87
ES2 25 - 60/130	G 1 1/2	130	90	45	45	124	133,8	29,4	104,4	49	1,81	2,01
ES2 25 - 60/180	G 1 1/2	180	90	45	45	124	133,8	29,4	104,4	49	1,96	2,6
ES2 32 - 60/180	G 2	180	90	45	45	124	133,8	29,4	104,4	49	2,10	2,30

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