ASKOII ENERGY SAVING ES2 ADAPT 60







activeADAPT mode for easier and faster installations





Effective performance tuning in constant differential pressure (Δ p-c), proportional differential pressure (Δ p-v) or fixed speed (min-max)

Wide range of temperature from +2°C to +110°C

Thermal insulation shell 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. 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
- activeADAPT modeElectronic controls allow to set
- advanced features and load adjustment capacity Δp-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

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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 (I,)	Min 0.03A, Max 0.33A						
Insulation class	Н						
Protection class	IP44						
Appliance class	II						
PUMP TECHNICAL DATA							
Ambient temperature	from +2°C to +40°C						
Allowed liquid temperature"	from +2°C to +110°C						
Temperature range at max. ambient temperature	of 30°C = +30°C to +110°C of 35°C = +35°C to +90°C of 40°C = +40°C to +70°C						
Maximum operating pressure	Max 1.0 MPa - 10 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 0.15 MPa (1.5 bar) at 110°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						
EMC Directive (2004/108/CE)	Standard used: EN 61000-3-2 and EN 61000-3-3, EN 55014-1 and EN 55014-2						
Ecodesign directive (2009/125/CE)	Standard used: EN 16297-1 and EN 16297-2						
Approved fluids	Water for heating according to VDI 2035. Mixtures of water and glycol with glycol percentages not greater than 30%.						

TYPE KEY

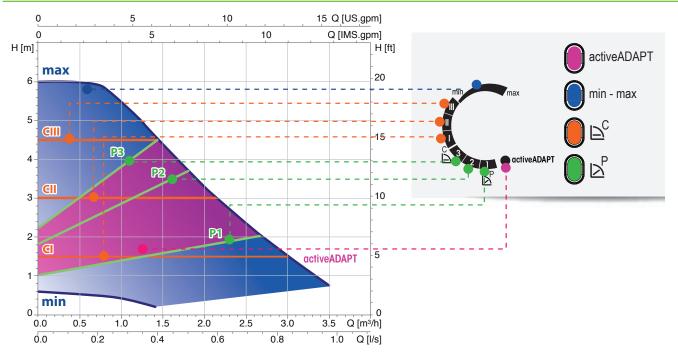
Example	ES2 ADAPT	15 - 60 / 130
Electronic circulator	T	TTTT
Standard version		
ADAPT: Version with activeADAPT		
SOLAR: Solar thermal version		
Cast-iron pump housing		
C: Composite pump housing		
B: Bronze pump housing		
A: Pump housing with air separator	·	
Nominal diameter (DN) of suction of ports ($15 = G1$, $25 = G1^{1}/_{2}$, $32 = G2$)	and discharge	
Maximum head [dm]		
Port-to-port length [mm]		

^{*} The benchmark for most efficient circulators is $EEI \le 0,20$.

^{**} To avoid condensation in the motor and electronics the temperature of the pumped liquid must always be greater than the ambient temperature.

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PERFORMANCE CURVES AND PUMP SETTINGS



MATERIALS

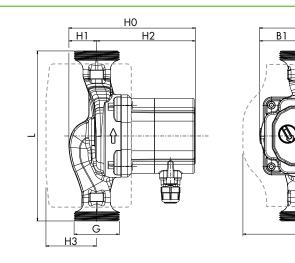
Model	Pump housing	Impeller	Shaft	Bearing	Thrust bearing	Rotor can
ES2 ADAPT 60	Cast iron EN-GJL-200 with cataphoretic coating (KTL)	Composite	Ceramic	Carbon	Ceramic	Composite

BO

Β3

B2

DIMENSIONS, WEIGHTS



MODEL	THREAD	DIMENSIONS [mm]								WEIGHTS [kg]		
	G	L I	BO	B1	B2	B3	HO	H1	H2	H3	Net	Gross
ES2 ADAPT 15 - 60/130	G 1	130	90	45	45	124	133,8	29,4	104,4	49	1,67	2,02
ES2 ADAPT 25 - 60/130	G 1 1/2	130	90	45	45	124	133,8	29,4	104,4	49	1,81	2,16
ES2 ADAPT 25 - 60/180	G 1 1/2	180	90	45	45	124	133,8	29,4	104,4	49	1,96	2,31
ES2 ADAPT 32 - 60/180	G 2	180	90	45	45	124	133,8	29,4	104,4	49	2,10	2,45