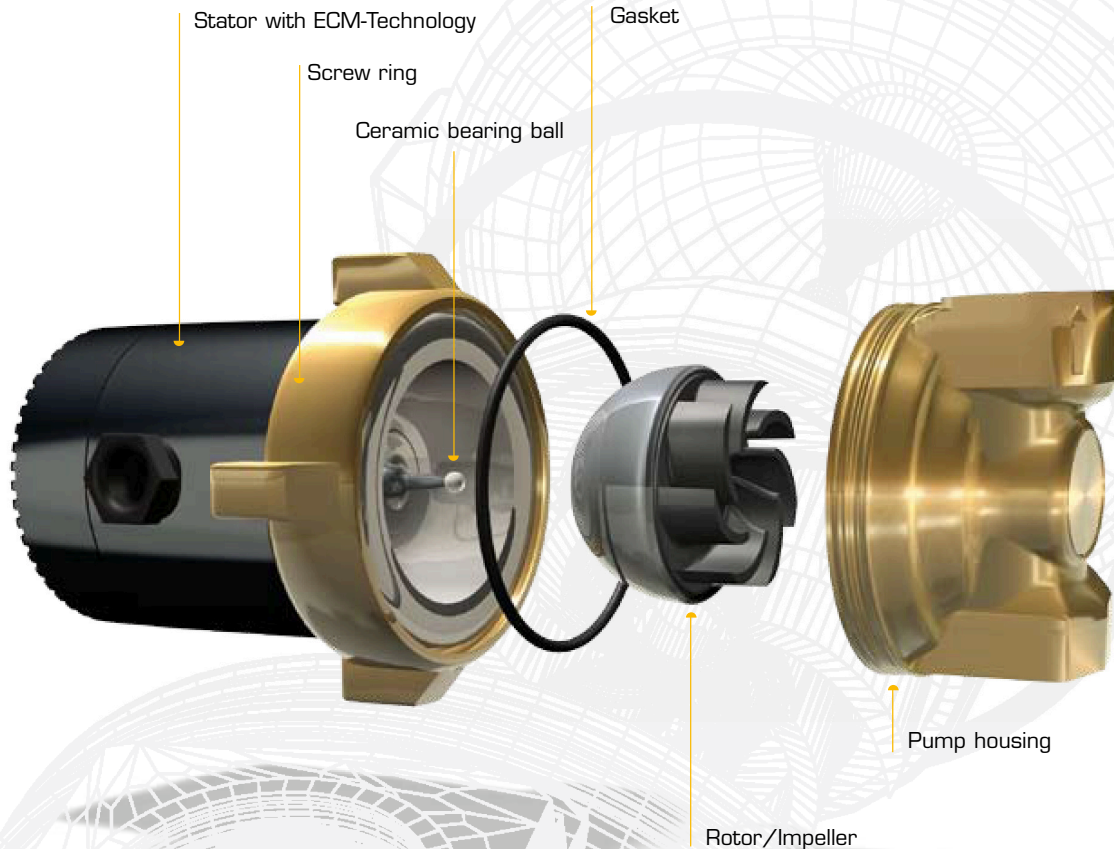


Design

Domestic hot water / Sanitary pumps **ecocirc**® E1



The spherical motor design

Ecocirc® DHW pumps are of the spherical motor pump design. The only moving part of this pump type is a spherical rotor/impeller unit which is suspended on an extremely wear resistant ceramic ball. Shaft seals or conventional bearing bushings with a shaft have been eliminated. The only self realigning bearing in the small pump market has many advantages:

The suspension on a ball eliminates any bearing play – even after years of use. The pump therefore will operate quietly for years.

The bearing is self-realigning. It is automatically lubricated and cooled by the pumped media (wet rotor pump). Ecocirc® pumps are normally maintenance free.

The rotor is magnetically centered on the bearing and therefore can tilt to avoid blocking by small dirt particles. Even after a long time of shut-off a safe start-up is virtually guaranteed.

The pump can be cleaned easily with typical household cleaner in the unlikely case of scale deposits.

Integrated, stepless scale protection thermostats are optional. These thermostats are used to set a water temperature where the pump shuts off. This also results in further electricity savings.

Energy Efficiency due to ECM-Technology

(electronic commutation with permanent magnetic rotor)

The circulating pumps Ecocirc® E1 are high efficiency pumps. ECM-Technology results in significant energy savings with the same performance:

The basis for the higher efficiency is the permanent magnet rotor. The magnetic field required in the rotor does not have to be created while incurring losses, but it is permanently there. A microprocessor installed in the pump creates a rotating magnetic field with variable frequency in the stator coils (electronic commutation), which turns the rotor. The starting torque, and therefore the blockage resistance, when compared with standard circulators, is significantly increased, too.



ecoCirc® E1 without check and ball valve

Model	Part number	Pump connection thread	Pump housing length	Electronic control thermostat (20-70°C)	for union fittings	Product category
E1-15/700 B	14 00 001	1/2" female	65 mm	•	AV 1/2 x 1/2	C
E1-15/700 BR	14 00 003		65 mm		AV 1/2 x 1/2	



ecoCirc® E1 with integrated check and ball valve

Model	Part number	Pump connection thread	Pump housing length	Electronic control thermostat (20-70°C)	for union fittings	Product category
E1-13/100 B	14 00 006	1 1/4" male and 1/2" female	110 mm	•	AV 5/4 x 3/4	C
E1-13/100 BR	14 00 008		110 mm		and AV 1/2 x 1/2	

ecoCirc® E1 Replacement motors for models E1



Model	Part number	Replacement motors (incl. two optional gaskets) for ...	Product category
E1-15/000	14 00 081	E1-15/700 B and Laing models S1, competitive pumps Grundfos UP 15-14	C
E1-15/000 R	14 00 083		C
E1-11/000	14 00 085	competitive pumps Vortex, Wilo Z15 and Grundfos UP 15 – 13 B	C

ecoCirc® E1 Accessories, components and spare parts



Model	Part number	Description	Product category
Others	RV 1/2"	Brass check valve 1/2" male x 1/2" female	C
	KH 1/2"	Brass ball valve chrome plated 1/2" male x 1/4" female	C
Union fittings	AV 1/2 x 1/2	2 pieces union fittings 1/2" male x 1/2" female	C
	AV 5/4 x 3/4	2 pieces union fittings 1 1/4" femal x 3/4" female	C
Replacement rotors	R-1	Rotor for series E1, incl. gasket	C