




Lowara Ecocirc[®]

THE REVOLUTIONARY HIGHLY EFFICIENT CIRCULATORS FOR DOMESTIC HEATING WITH THE SIMPLE AND SHAFTLESS SPHERICAL MOTOR DESIGN AND PATENTED ANTI-BLOCK-TECHNOLOGY.

 **LOWARA**
a xylem brand

Affordable efficiency!

Approximately 10 to 15 percent of the electricity consumption of an average household is used by domestic heating circulators. The overwhelming majority of these consists of fixed three speed standard circulators. The EU new Eco-Design Directive, the ErP-Directive EC 641/2009, starting 1st January 2013. The purpose is to reduce significantly the energy consumption. In 2015 these strict requirements will be enforced even more.

To date there was only the choice of purchasing an inexpensive inefficient standard circulator with high energy consumption, or selecting a modern high efficiency pump which was quite costly but very energy saving. The new Lowara Ecocirc® made by Xylem strikes the balance between these two options: a modern, electronically controlled high efficiency pump, which pays for itself within a short period of installation.

The high efficiency technology was reduced to the simple spherical motor design.

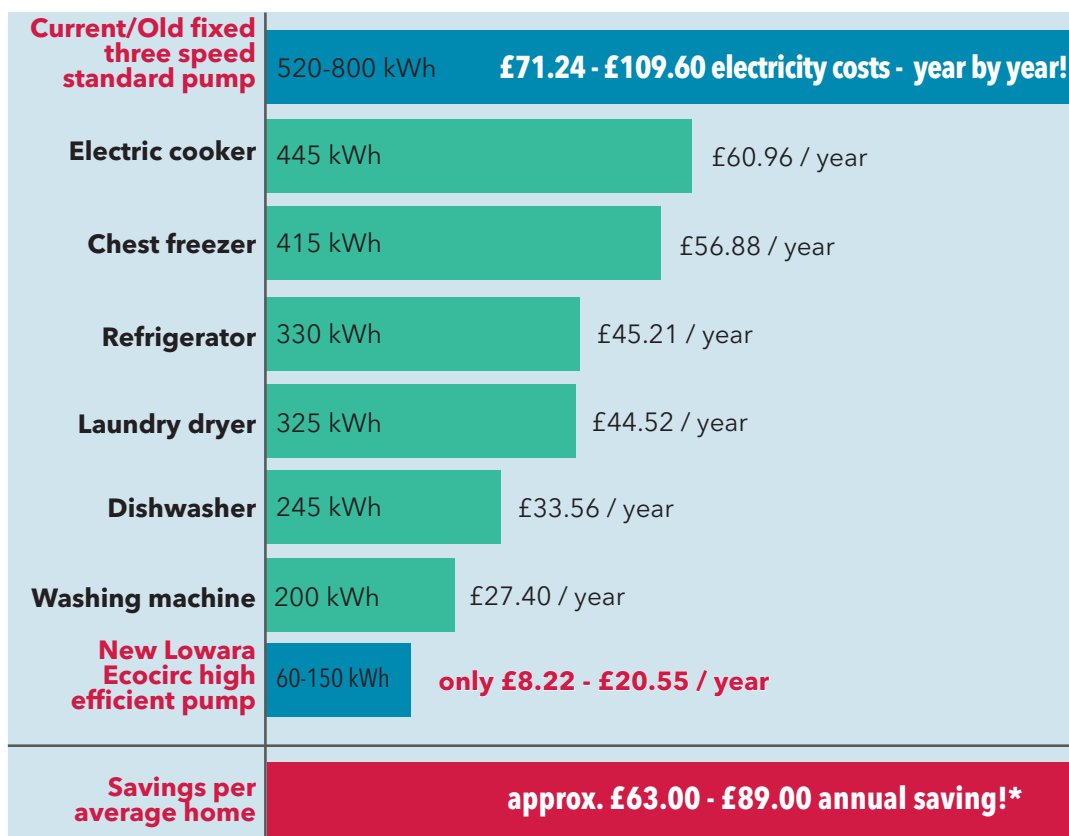
No compromise in high efficiency, and a clear focus on what a high efficiency pump should do best: pump efficiently! No more, no less!

A clear focus on a smart cost and performance ratio without any additional costly features. Concentrating on the basics, on reliable high efficiency and a maximum in profitability and payback.

This pump already complies with the ErP directive of 2015. High efficiency circulators have not been a new market to us: since 2009 we are one of Europe's leading high efficiency circulator manufacturers, to us high efficiency comes as standard.



The unknown electricity consumer becomes a highly efficient saving miracle!



* Based on 13.7 pence per kW/h.

A clear message to all plumbers and installers!

Domestic heating circulators have seen a dramatic technology leap in recent years.

The new high efficiency pump Lowara Ecocirc® made by Xylem saves up to 90% electricity costs compared to old standard heating circulators.

Depending on the exact purchasing and installation costs, the new Ecocirc® pays for itself normally within a 2-3 year period - good news for the homeowner.

The clear message to all plumbers and installers: it does pay back to replace every old circulator, even if it's still working. In every household, on every construction site. Great potential for additional sales! Fit one on your current or next job.

This would mean incremental sales for the wholesaler and you the installer together with savings for the homeowner. That's focusing on the basics. That's the Lowara Ecocirc®.

How can efficiency work even harder?

The answer is as simple as to the spherical motor design!

- No common shaft, shaft seals and conventional bearings have been eliminated.
- No back bearing.
- No air vent bleed valve.
- Floating spherical impeller.
- Self realigning ultra-hard ceramic ball bearing.
- Energy saving.
- Only one moving part.
- Anti-block devise.
- Quick and easy to install.
- 2 metre's of pre-wired cable.
- Thermal barrier.
- Led light function on control giving operational status of Pump.
- **Directly interchangeable with other manufacturers units.**
- Fast installation.
- ErP Ready to 2015 standards.
- Permanent magnet electronically commutated type motor.
- High efficiency and long term quiet operation.
- No special tools required.
- Speed selector switch with automatic regulation.
- Microprocessor controlled.

Improved hydraulics - improved efficiency

The very latest computer simulations have further optimised the pump housing and the impeller. The cast iron pump housing is cataphoresis coated completely and is therefore resistant to corrosion. Optional heat insulation shells are available for all models.

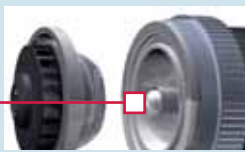


NEW

Blockage-free even under Challenging conditions: the revolutionary and patented Anti-Block-Technology!

The spherical rotor

The permanent magnet rotor/impeller-unit is the only moving part. Spherical motor pumps are shaftless, and therefore whisper quiet over the whole lifetime. In case of an indicated rotor blocking, emergency software shakes and vibrates the rotor to avoid further



blocking. The evolutionary Anti-Block-Technology is visible the best

also with the position of the ceramic ball bearing: in former versions it was quite visible from outside, today it sits inside in the centre of the rotor.

The new design is separating the magnetic chamber from the flow Magnetite and Sludge, which are both found in the pumped liquid and are both magnetic, this can accumulate at the permanent magnetic parts of a high efficiency pumps, and therefore block and damage it. Our new Anti-Block-Technology separates the main flow of the pumped media completely from the permanent magnetic parts, Blocking up even in very old, open systems is impossible with our pump design.



The main flow of the pumped media (blue) and its magnetite and sludge particles (red) flows outside the influence area of the permanent magnet rotor (bottom).



The side flow of the wet running circulators, which is required for lubrication and cooling of the bearing, is separated from the main flow with its magnetite and sludge.



Efficient quick installation
due to pre-wired 2 meter power cord

Always easy to access

The screw ring design results in a pump motor that can be rotated in any position around the 360° circle. The electrical connection as well as the control knob is therefore easy to access.

Easy to control

Two in one control:
- Step-less manually control with constant speed, displayed by a white LED, or alternatively
- Automatic differential pressure, displayed by a blue LED.

Optimized motor technology

Doubled electric windings combined with the latest 32 Bit processor technology - that also makes the Ecocirc® even more efficient. The integrated over-temperature protection can automatically reduce the speed of the pump or even make it stop and start again to protect the electronics and the bearing in case of dry run situations.

Product range



Highly efficient circulators for domestic heating Lowara Ecocirc®

High efficiency pumps with ECM-technology and permanent magnet rotor for applications like radiant heating (one- and two pipe systems), underfloor and surface heating, boiler feed, solar stations and similar applications; Efficiency ErP ready 2015; shaftless, maintenance-free spherical motor, magnetite resistant Anti-Block-Technology, switchable control options (step-less manually or automatic variable differential pressure), cataphoresis coated cast iron pump housing, LED operation indicator, pre-wired 2 metre power cord.

Model	Part No.	Version	Pump housing length (mm)	Connection	for union fittings	Energy Efficiency	Control options	Magnetite resistance	Pump housing
Ecocirc 25-4/130***	60500 8202	4 metre	130	G 1 1/2"	1"	ErP 2015	switchable - step-less manually or - automatic variable differential pressure	Anti-Block-Technology	cataphoresis coated cast iron
Ecocirc 25-6/130***	60500 8252	6 metre	130	G 1 1/2"	1"	ErP 2015	switchable - step-less manually or - automatic variable differential pressure	Anti-Block-Technology	cataphoresis coated cast iron

Accessories

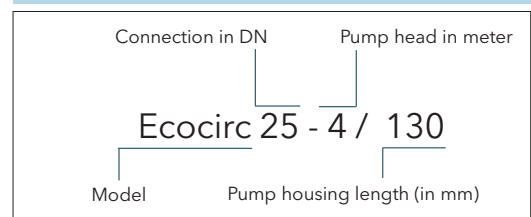
For all heating circulators Lowara Ecocirc®

RG 1"	LH 95 00 015	2 pieces union fittings 1 1/2" female x 1" female
WD-A PS-A	LH 96 00 001 LH 96 00 002	Heat insulations capsule for all Lowara Ecocirc® cast iron pump housings Pump head removal tool for all Ecocirc® heating circulators

Technical Data

Motor design	Electronically commutated, shaftless spherical motor design with permanent magnetic rotor
Max. system pressure	10 bar
Electric connection	200 - 240 Volt, 50 / 60 Hertz
Accepted liquids	Heating water VDI 2035 Water/Glycol mixtures*
Magnetite resistance	Anti-Block-Technology
Accepted temperature range	-10 °C** to +110° C
Energy efficiency	ErP 2015 ready
Motor protection class	IP 44
Insulation class	F

Model designation

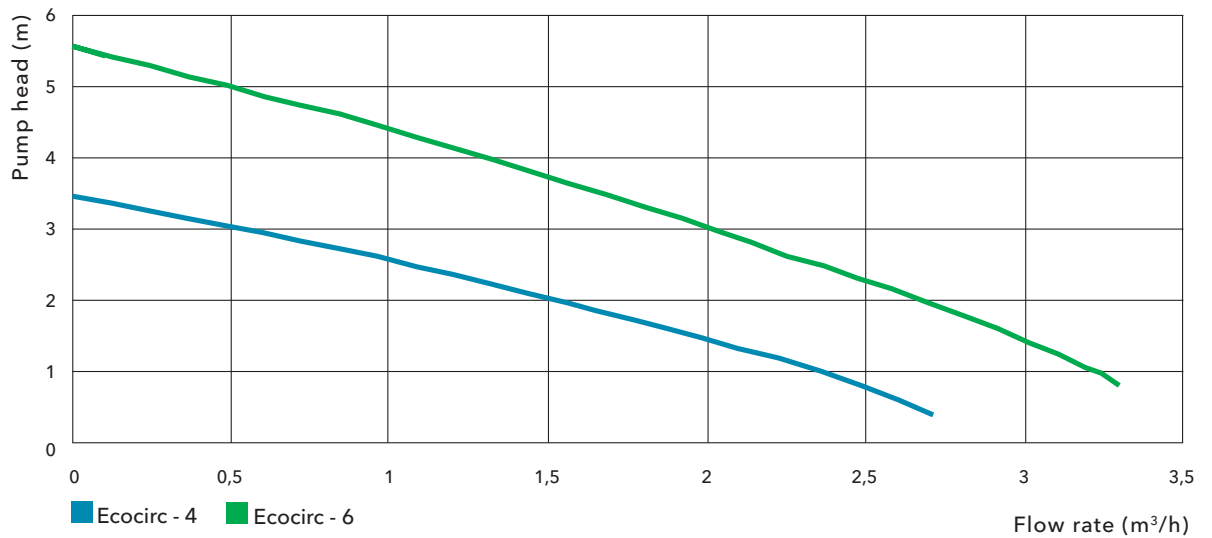


* check hydraulic performance with more than 20 % glycol

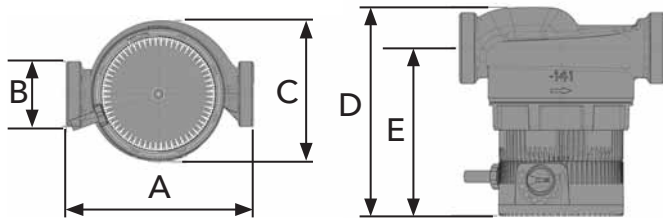
**non-freezing

***other models with different port lengths available on request.

Pump curves



Dimensions



Models	A mm	B	C mm	D mm	E mm
Ecocirc 25-xx/130	130	G 1 1/2"	104	141	113

Replacement guide

Grundfos	Grundfos Fixed Speed	Grundfos ErP Pump	Lowara ErP Replacement
	UPS 15/50		Ecocirc 25-4
	UPS 15/60		Ecocirc 25-6
		Alpha + 15/50	Ecocirc 25-4
		Alpha + 15/60	Ecocirc 25-6
		Alpha 2 15/50	Ecocirc 25-4
		Alpha 2 15/60	Ecocirc 25-6
		Alpha 2L 15/50	Ecocirc 25-4
		Alpha 2L 15/60	Ecocirc 25-6

Wilo	Wilo Fixed Speed	Wilo "A" Pump	Wilo ErP Pump	Lowara ErP Replacement
	Wilo Gold 50	Smart 25/4	Stratos Pico 25/1-4	Ecocirc 25-4
	Wilo Gold 60	Smart 25/6	Stratos Pico 25/1-6	Ecocirc 25-6

Dab	Dab Fixed Speed	Dab "A" Pump	Dab ErP Pump	Lowara ErP Replacement
	VA 35/130	VEA 35/130	Evotron 40/130	Ecocirc 25-4
	VA 55/130	VEA 55/130	Evotron 60/130	Ecocirc 25-6

CPC/Myson	CPC/Myson Fixed Speed	Lowara ErP Replacement
	CP53	Ecocirc 25-4
	CP63	Ecocirc 25-6

Lowara	Lowara Fixed Speed	Lowara ErP Replacement
	TLC 25-5	Ecocirc 25-4
	TLC 25-6	Ecocirc 25-6

About Xylem

Xylem (XYL) is a leading global water technology provider, enabling customers to transport, treat, test and efficiently use water in public utility, residential and commercial building services, industrial and agricultural settings. The company does business in more than 150 countries through a number of market-leading product brands, and its people bring broad applications expertise with a strong focus on finding local solutions to the world's most challenging water and wastewater problems. Launched in 2011 from the spinoff of the water-related businesses of ITT Corporation, Xylem is headquartered in White Plains, N.Y., with 2011 revenues of \$3.8 billion and 12,500 employees worldwide.

The name Xylem is derived from classical Greek and is the tissue that transports water in plants, highlighting the engineering efficiency of our water-centric business by linking it with the best water transportation of all - that which occurs in nature. For more information, please visit us at www.xylem.com



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