



Lowara ecocirc® and ecocirc® PREMIUM

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

How can efficiency work

The simple spherical motor design....

Impressively simple, that's the shaftless spherical motor design. It requires only one single bearing, which is even self re-aligning but does not require any shaft at all. That significantly reduces the number of costly and complicated parts.

- 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 or plug assembly.
- Thermal barrier.
- Led light function on control giving operational status of Pump.
- **Directly interchangeable with other manufacturers units.**
- Automatic air purge function.
- 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.



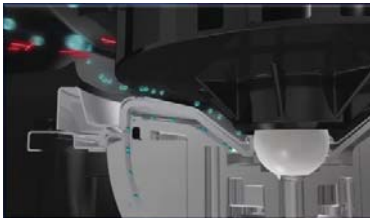
even harder?

...with the patented Anti-Block-Technology!



The spherical rotor

With the evolutionary Anti-Block-Technology, the ceramic bearing ball is now encapsulated inside in the centre of the rotor/impeller unit.



The new design

Magnetite and sludge, which are both found in the pumped liquid are both magnetic, this can accumulate at the permanent magnetic parts of a high efficiency pump, and therefore block and damage it, or decrease the pump's efficiency. 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 by our pump design.

Dry-run protection and enhanced motor technology

Ecocirc circulators come standard with an internal temperature sensor which measures the temperature directly at electronic components. Electronic temperature from 105°C to 115°C makes the pump reduce its speed continuously. The pump stops automatically at 125°C, and restarts again after cooling down at 115°C.

In addition, the inrush-current limitation of 6,5 Amp protects also older external heating controls that may be installed on site.



Easy settings

One single rotary dial serves all needs: stepless control options, automatic air purge and maximum hydraulic performance. The multi-colour LED inside the transparent dial indicates the currently chosen control option:

Control options:



white: stepless fixed speed, especially for boiler feed, single-pipe heating systems, systems with hydraulic separators;



blue: automatic proportional pressure control Δp_v , especially for thermostatic radiator valves



green: automatic constant pressure control Δp_c , especially for underfloor heating (available only in PREMIUM models)

In addition, a blink code of the LED indicates about potential messages.



Automatic air purge:

Simply turn the rotary dial towards the air purge symbol for more than 5 seconds. This will start the automatic air purging, no matter which control option had been chosen before. This will effectively remove the air from the inner of the pump. The circulator will return automatically to all its previously chosen settings after having finished this service mode.

Quick connection

ecocirc: pre-wired power cord (2 meter);

ecocirc PREMIUM: plug, no tools required for assembly

Affordable efficiency!

Approximately 10 to 15 percent of the electricity consumption of an average household is caused by domestic heating circulators. The overwhelming majority of these consist of fixed three speed standard circulators. The EU's new Eco-Design Directive, the ErP-Directive EC 641/2009 has started 1st January 2013. The purpose is to reduce the energy consumption significantly. Again in 2015 these strict requirements will be tightened further.

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.

Xylem now offers two options, both focus on a quick payback time: the Lowara ecocirc, a highly efficient circulator, and also the ecocirc PREMIUM, which offers in addition a multi-display, a plug for a quick and easy installation and even one more control option.

ecocirc®

The Lowara ecocirc focuses on quick amortisation and short payback times. No compromise in reliability and high efficiency, all with a clear focus on the essentials in mind.



Two stepless control options

- stepless fixed speed
- automatic proportional pressure control Δp_v

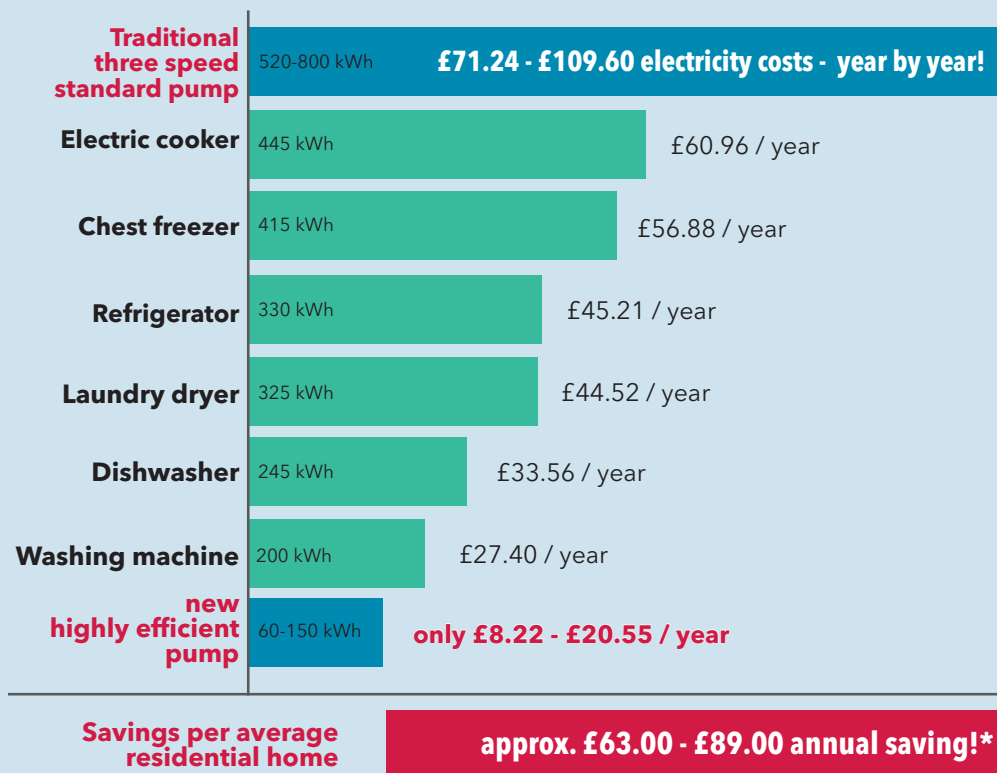
The Lowara ecocirc circulator has won the Plus X "Best Product of the Year 2013" award.

The Plus X Awards is the world's largest innovation award ceremony for technology, sport and lifestyle products, and honors manufacturers of unique, innovative high-quality products. The winners of Plus X Awards are chosen by an independent, international panel of 25 judges from various industries.

In addition, it also was awarded as best in class for Innovation, High Quality and Functionality.



Personalise your ecocirc: Now you can leave your company/contact details behind when your job is done with our endcap campaign, we offer a choice of 11 different design templates which are free to order. Visit the ecocirc page on our website: www.lowara.co.uk



* Based on 13.7 pence per kWh.

ecocirc® PREMIUM

All Lowara ecocirc PREMIUM come standard with three control options, a plug that does not require a tool for assembly, and even a multi-display mounted on the end cap:



Multi-Display

The automatically alternating display shows either the power consumption, the pump head or the flow rate.



Three stepless control options

- stepless fixed speed
- automatic proportional pressure control Δp_v
- automatic constant pressure control Δp_c



Plug, no tools required for assembly

An easy and quick electrical connection. The female plug is compatible also with male plugs from previously on site installed third-party circulators.

By turning the stator via the screw ring, the plug can be fixed in any position, making an installation even in the hardest and tightest environment easy.



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 cable, automatic air purge mode;

Model	Part number	Version	Pump housing length (mm)	Connection	for union fittings	electric connection	Control options (stepless)	Magnetite resistance	Pump housing
ecocirc 25-4/130*	60500 8200	4 meter	130	G 1 1/2"	1"	2 meter pre-mounted power cable	- stepless fixed speed - automatic proportional pressure control Δp_v	Anti-Block-technology	cataphoresis coated cast iron
ecocirc 25-6/130*	60500 8250	6 meter	130	G 1 1/2"	1"				

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



Highly efficient circulators for domestic heating: Lowara ecocirc PREMIUM

Like ecocirc, however in addition with Multi-Display to show power consumption, pump head or flow rate; automatic constant pressure control Δp_c suitable especially for underfloor heating.

Model	Part number	Version	Pump housing length (mm)	Connection	for union fittings	electric connection	Control options (stepless)	Magnetite resistance	Pump housing
ecocirc PREMIUM 25-4/130*	605008208	4 meter	130	G 1 1/2"	1"	Plug	- stepless fixed speed - automatic proportional pressure control Δp_v - automatic constant pressure control Δp_c	Anti-Block-technology	cataphoresis coated cast iron
ecocirc PREMIUM 25-6/130*	605008262	6 meter	130	G 1 1/2"	1"				

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

Accessories

RG 3/4" RG 1" RG 5/4"	LH 95 00 014 LH 95 00 015 LH 95 00 016	Connection kit 1 1/4" IG x 3/4" IG (1 set) Connection kit 1 1/2" IG x 1" IG (1 set) Connection kit 2" IG x 1 1/4" IG (1 set)
WD-B PS-B	LH 96 00 011 LH 96 00 002B	Heat insulation capsule for all Lowara ecocirc and ecocirc PREMIUM cast iron housings Screw ring tool for ecocirc and ecocirc PREMIUM 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
Power consumption	ecocirc xx-4: 4 - 23 Watt ecocirc xx-6: 4 - 42 Watt
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

* check hydraulic performance with more than 20 % glycol

**non-freezing

Model designation

Connection in DN Pump head in meter

PREMIUM 25 - 4 / 130

Model Pump housing length (in mm)

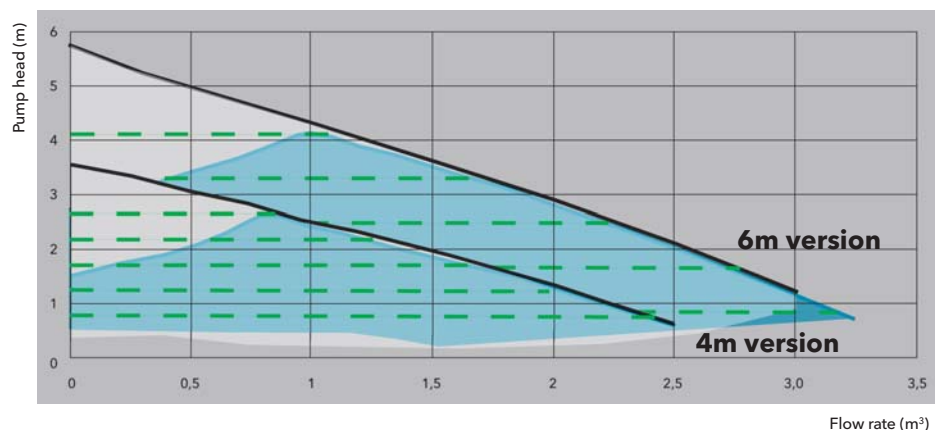


Replacement tool online:
www.lowara.com

Pump curves and dimensional drawings

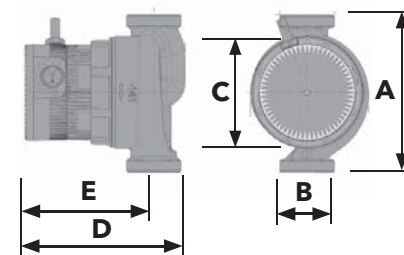
- stepless fixed speed, especially for boiler feed, single-pipe heating systems, systems with hydraulic switch
- automatic proportional pressure control Δp_v , especially for radiator heating
- automatic constant pressure control Δp_c , especially for underfloor heating (available only in PREMIUM models)

Lowara ecocirc and ecocirc PREMIUM - 4-Meter-Versions & 6-Meter-Versions



Models	A	B	C	D	E
ecocirc 25-x/130	130	G 1 1/2"	104	141	113

Dimensions in mm



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 or ecocirc PREMIUM 25-4
			Alpha 2 15/60	ecocirc 25-6 or ecocirc PREMIUM 25-6
			Alpha 2L 15/50	ecocirc 25-4
			Alpha 2L 15/60	ecocirc 25-6
		UPS 2	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 or ecocirc PREMIUM 25-4
	Wilo Gold 60	Smart 25/6	Stratos Pico 25/1-6	ecocirc 25-6 or ecocirc PREMIUM 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 or ecocirc PREMIUM 25-4
	VA 55/130	VEA 55/130	Evotron 60/130	ecocirc 25-6 or ecocirc PREMIUM 25-6
			Erosta	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

Xylem

Xylem /'zilem/

- 1) The tissue in plants that brings water upward from the roots.
- 2) A leading global water technology company.

We're 12,900 people unified in a common purpose: creating innovative solutions to meet our world's water needs. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. We move, treat, analyze, and return water to the environment, and we help people use water efficiently, in their homes, buildings, factories and farms. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise, backed by a legacy of innovation.

For more information on how Xylem can help you, go to www.xyleminc.com

alcon
SOLENOID VALVES

Bell & Gossett®

FLOJET

FLYGT

godwin

GOULDS
WATER TECHNOLOGY

JABSCO

LEOPOLD

LOWARA

MIDLAND-ACS

multitrode

PCI
SEWERS

PIMS

REDJACKET®
Water Products

rule

SANITAIRE

VOGEL PUMPEN

WEDECO

xylem
Let's Solve Water

Xylem Water Solutions UK Limited

Millwey Rise Industrial Estate
Axminster, Devon EX13 5HU - UK
Tel: +44 (0) 1297 630230
Fax: +44 (0) 1297 630270
e-mail: lowaraukenquiries@xyleminc.com
www.lowara.co.uk

Xylem Water Solutions Ireland Limited

50 Broomhill Close
Airtown Road
Tallaght, Dublin 24 D24 - Ireland
Tel: +353 (0) 1 452 4444
Fax: +353 (0) 1 452 4795
e-mail: flygtIRL@xyleminc.com
www.xylemwatersolutions.com/ie

Lowara is a trademark of Xylem Inc. or one of its subsidiaries.
© 2013 Xylem, Inc.

Code UKLIT0120 P11/13

CPD

CIBSE
PATRONS

Member of
BPMA
Industry
association

MANAGEMENT SYSTEM CERTIFICATION
ISO 14001 = OHSAS 18001
DNV