



ITT

Building Services

Circulators for heating,
cooling and sanitary systems
ECOCIRC® – TLC – FLC Series



Engineered for life

Ecocirc® – TLC – FLC series

The ultimate in choice



The wide range of circulators from ITT Lowara is your first choice because of their reliability, durability and energy efficiency. There is always a competitive solution that meets your needs exactly.

- Ecocirc energy efficient residential circulators
- TLC reliable standard residential circulators
- FLC wide-ranging flanged commercial circulators

Green and economical

Modern, highly efficient motor technologies will contribute to a lower electricity bill and reduce your CO₂ emissions.

Take the Lowara Ecocirc range, for example. Where a standard heating circulator in a normal villa uses around 350-400 kWh per year, the class A Ecocirc EA can reduce this to less than 100 kWh/ year.

The domestic hot water pump Ecocirc EB is the first of its kind to need just 4 Watts of power, where a normal domestic hot water pump needs 25 Watts.

The new TLC SOL and TLCK circulators in the TLC range also support the use of alternative energies, such as solar and geothermal.



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Product range overview

	Applications					Technical data		Performance field
	Domestic heating systems	Water re-circulation systems	Commercial heating	Floor heating systems	Cooling systems	Solar thermal pumps	Shunt pumps	
EA	●		●	●	●			
						Power (W):	9 - 63	
						Connection:	DN 15-DN 32 (G 1"-2")	
						Material:	Cast iron	
						Pressure class:	6 bar	
						Capacity control:	Automatic	
						Temperature of pumped media:	-10°C ÷ +95°C	
EV	●		●	●	●			
						Power (W):	9 - 63	
						Connection:	DN 15-DN 32 (G 1"-2")	
						Material:	Cast iron	
						Pressure class:	6 bar	
						Capacity control:	Electronic	
						Temperature of pumped media:	-10°C ÷ +95°C	
EB		●				●		
						Power (W):	4 - 27	
						Connection:	DN 15-DN 20 (G 1"-1 1/4")	
						Material:	Bronze	
						Pressure class:	10 bar	
						Capacity control:	Electronic	
						Temperature of pumped media:	-10°C ÷ +110°C	
TLC	●		●			●		
						Power (W):	27 - 400	
						Connection:	DN 15-DN 32 (G 1"-2")	
						Material:	Cast iron	
						Pressure class:	10 bar	
						Capacity control:	3 speed	
						Temperature of pumped media:	-25°C ÷ +110°C	
TLCH		●						
						Power (W):	28 - 400	
						Connection:	DN 15-DN 32 (G 1"-2")	
						Material:	Bronze	
						Pressure class:	10 bar	
						Capacity control:	3 speed	
						Temperature of pumped media:	+2°C ÷ +110°C	
FLC			●	●	●			
						Power (W):	128-2735	
						Connection:	DN 40-DN 80	
						Material:	Cast iron	
						Pressure class:	10 bar	
						Capacity control:	4 speed	
						Temperature of pumped media:	-15°C ÷ +120°C	
EFLC			●					
						Power (W):	25-750	
						Connection:	DN 40-DN 80	
						Material:	Cast iron	
						Pressure class:	10 bar	
						Capacity control:	Electronic	
						Temperature of pumped media:	+15°C ÷ +90°C	

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Maximum reliability. Environmentally friendly. Cost efficient.

Ecocirc®

The Ecocirc circulator range sets new standards in energy efficiency. It has a unique spherical motor design with ECM (Electronic Commutated Motor) technology and proportional head control. The motor ensures maximum reliability and high efficiency at a low cost. Another benefit of the Ecocirc range is the compact design. With the terminal box axially integrated in the motor the physical space required for installation is minimized.

How does it work?

A microprocessor creates a rotating magnetic field with variable frequency in the stator coils which turns the permanent magnet rotor. Compared to an asynchronous motor, no energy is wasted in creating a magnetic field in the rotor. The result is a highly efficient circulator for use in hydronic systems, heat pumps, air conditioners, solar thermal systems and cooling loops in closed systems.

Benefits include:

- Permanent alignment for silent running throughout its life.
- Robust spherical ceramic bearing for longer life and no blockages.
- A-class efficiency for better economy and environmental efficiency.
- Compact design to reduce space required for installation.



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Ecocirc Auto

The new standard in domestic heating pumping

The Ecocirc Auto (EA) range of automatically speed controlled heating circulators sets new standards with class A energy efficiency. It simply optimises the relationship between price and performance. The class A EA pump will automatically adjust the performance to always meet the exact requirements of the heating system reducing energy consumption and avoiding noise in the pipe works.



Ecocirc Vario

The optimal replacement pump

Ecocirc Vario (EV) has a stepless manual setting of speed allowing you to achieve maximum energy savings exactly. The EV 4 m version is class A and the 6 m version is class B. In heating systems where the flow variation is small or when replacing an old fixed speed pump, EV is the perfect choice.



Ecocirc Bronze

The most energy efficient domestic hot water pump

The revolutionary Ecocirc Bronze (EB) is the first domestic hot water pump to use down to only 3 Watts of power. Despite the dimensions, it has all the advantages of the spherical motor technology and will ensure instant delivery of hot water to the furthest tap. The EB series is available with a built-in thermostat that switches off the pump when the water is warm enough plus a timer version, both giving even higher energy savings.

Accessories

Available accessories include:

- Steel pipe unions for heating pumps.
- Brass pipe unions for sanitary pumps.
- Polyethylene insulation shell.



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Compact design. Long life. More comfort.

TLC Series

The standard TLC series has been designed for heating and cooling systems requiring a screwed connection fixed speed circulator. In addition to residential heating and sanitary applications, these threaded wet rotor circulators also suit light commercial uses.

The top cover venting screw design enables rapid fill of the circuit to achieve running conditions quickly, while giving access to the motor shaft to make tackling any rotor blockage simple. It is compact, with the terminal box axially integrated in the motor to reduce the physical space needed to install the pump.

Benefits include:

- Ceramic shaft and bearings for reduced noise and increased comfort.
- Class H insulation for long motor life.
- Simple bleed vent for rapid installation and maintenance.
- Compact design to reduce space required for installation.





TLC-TLCH

The low investment cost solution

The robust TLC circulators are designed for residential applications, with a head up to 7 metres. The TLCH is for light commercial use with head up to 12 metres. TLC-TLCH is a fixed speed pump and an ideal choice when focusing on low investment costs.



TLC SOL-TLCK

The green energy solution

ITT Lowara ensures you can embrace alternative power sources with these two new circulators. The TLC SOL circulators are designed for solar systems while the TLCK is specifically for geothermal cooling. Special resin insulation of the motor protects it from the condensation caused by cold pump media and ensures the circulators can handle large temperature variations, and they are specially designed for pumping a water-glycol mixture. Both deliver a head up to 6 metres.



TLCB-TLCHB

The widest range of bronze pumps

The TLCB bronze circulators are specially designed for residential sanitary systems, capable of head up to 6 metres. In light commercial applications the choice is the TLCHB with a head up to 12 metres.

Accessories

Available accessories include:

- Steel pipe unions for heating pumps.
- Brass pipe unions for sanitary pumps.
- Polyethylene insulation shell.



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Innovative simplicity. Great flexibility. High reliability.

FLC Series

The comprehensive FLC series of flanged-connection circulators is designed for large commercial and industrial systems. They are built with only three assemblies: the stator, the rotor assembly and the pump casing. This provides economical, technical and environmental advantages by ensuring that the circulator is reliable, highly efficient and low-maintenance.

Benefits include:

- Twin pump available to increase efficiency and economy.
- Electronic versions that need no programming.
- Comprehensive range to suit any application.

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FLC-FLCG

The economical 4 speed alternative

The FLC and FLCG are single and twin head circulators. They have 4 speed motors making it easy to adjust to the system needs. The simple design makes the pump robust, reliable and economical.



EFLC-EFLCG

The easiest to use electronic circulator on the market

The EFLC and EFLCG range of electronic single and twin head circulators is both simple and flexible. Simple because it doesn't require any programming and flexible because it can operate both in automatic adjustment or fixed speed mode. All set with one selector.

Accessories

Available accessories include:

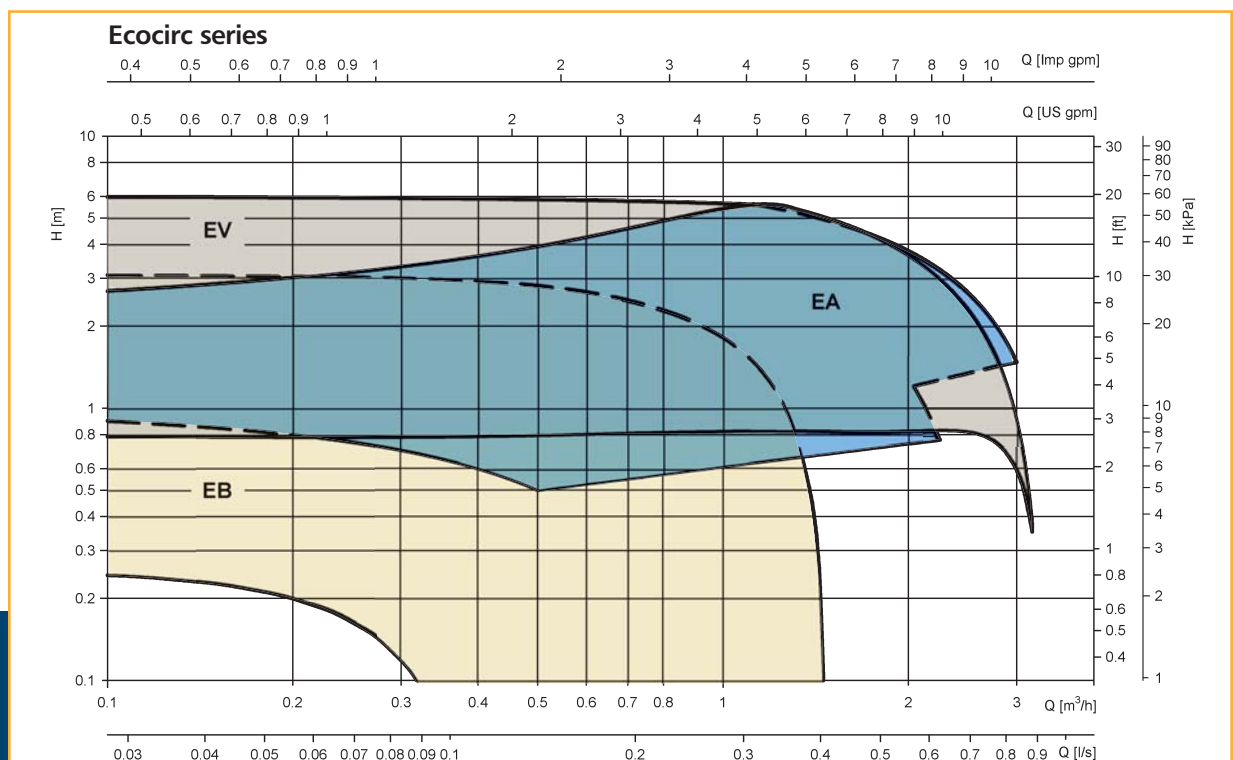
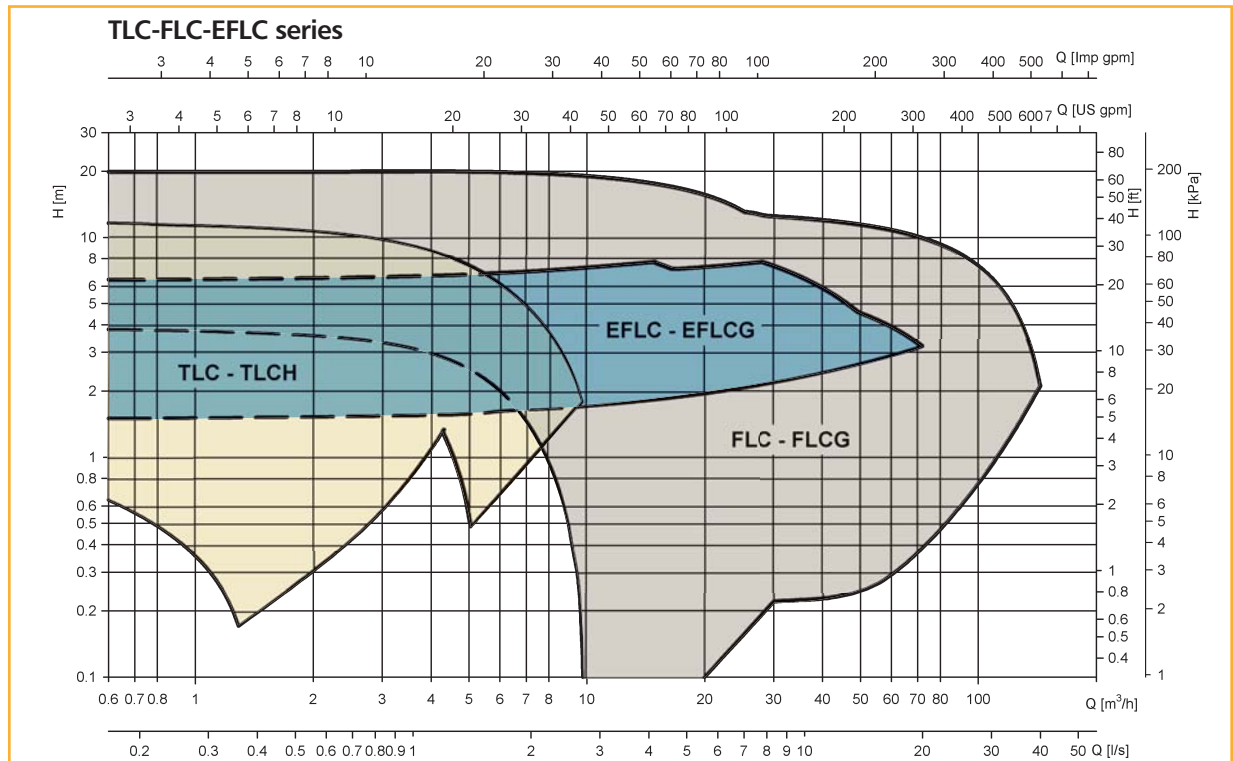
- Counterflanges.



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Hydraulic performance range





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Like all our products, our circulators reflect the Lowara philosophy of innovation in producing energy-efficient and long-lasting products. They are an expression of our commitment to excellence that ensures we save energy, time, money.

We believe the following to be the important goals that we have reached with our circulators: the ability to conserve 80% more energy than standard circulators; to guarantee savings of 200 kWh per year; to protect and respect our planet by drastically reducing the emission of CO₂. Like all our products, our circulators are engineered for life.

For man. For the environment. For you.

André Dhawan
President
Residential & Commercial Water - EMEA



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ITT Lowara part of ITT Corporation and headquarters of "Residential and Commercial Water - EMEA".

World leading in offering high reliable fluid handling solutions for Building Services, Irrigation and Industrial applications. We provide a complete range of high quality pumps, packaged systems and controls and are specialized in engineering and manufacturing stainless steel products.

ITT Lowara is headquartered in Vicenza, Italy and operates in more than 80 countries across the world with own plants in Italy, Austria, Poland and Hungary. The company has 1.300 employees and generated 2008 sales exceeding \$440 million. ITT Lowara is wholly owned by the ITT Corporation of White Plains, New York, and is the EMEA headquarter of ITT's Residential and Commercial Water division. ITT Corporation is a high-technology engineering and manufacturing company operating on all seven continents in three vital markets: water and fluids management, global defense and security, motion and flow control. ITT Corporation generated 2008 sales of \$11.7 billion

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