



LAING THERMOTECH SERIES

ecocirc[®] & ecocirc+

The Newest Generation Variable Speed ECM Smart Circulator for Heating, Cooling and Potable Water Systems

A reliable, highly-efficient, easy-to-install and simple-to-use smart circulator

The ecocirc® is a highly-efficient variable speed ECM circulator available for both hydronic heating and cooling systems, as well as potable water systems. It features a maximum shutoff head of 20 ft., or a maximum flow of 18 GPM, making it suitable for most residential systems. The ecocirc+ models allow for wireless connectivity directly to a smartphone for full control. With its ability to replace up to 70 pumps currently in the market, the ecocirc leaves no concerns for finding a suitable replacement on the job site.



Simplicity

Replace up to 70 different pumps on the market, which reduces inventory both in warehouses and on trucks, making it the simple solution for nearly any application.



Adaptability

Equipped with the most modes and the widest fluid temperature range. This allows it to serve both heating and cooling applications, working in a multitude of applications.



Efficiency

Industry leading efficiency at EEI levels at or below 0.18. The night mode and eAdapt features also help optimize energy consumption while letting you tailor the pump to the end user's application.



Connectivity

Bluetooth® connectivity (+) gives the user total control from a smartphone. It also maximizes the hydronic system, either through automated energy saving features or through the 0-10V input.

(+) designates ecocirc+ features



Insulation shell
This included component helps maintain the water temperature.

Pump protection (CircGuard™)
CircGuard provides built-in dry run protection stops the pump to avoid damage and ensure that the product lasts longer.

Best-in-class efficiency
With its optimized hydraulic and high-efficiency variable speed ECM motor, the ecocirc keeps operational costs to a minimum. (EEI ≤ 0.18).

Blocked rotor resistance (CircGuard)
Through its industry-leading CircGuard patented construction, including a ceramic shaft and ceramic bearings combination, the ecocirc avoids blocked rotors better.

Easy maintenance
The motor assembly can be easily removed for maintenance via four screws.

User friendliness
The friendly design provides hassle-free set-up of the pump.

Bluetooth connectivity (+)
The ability to connect directly to the pump allows full control and monitoring of the pump.

Full control (+)
Wireless connectivity lets the user maximize the hydronic system, either through automated energy saving features such as eAdapt and Night Mode, or through the 0-10V input.

ecocirc

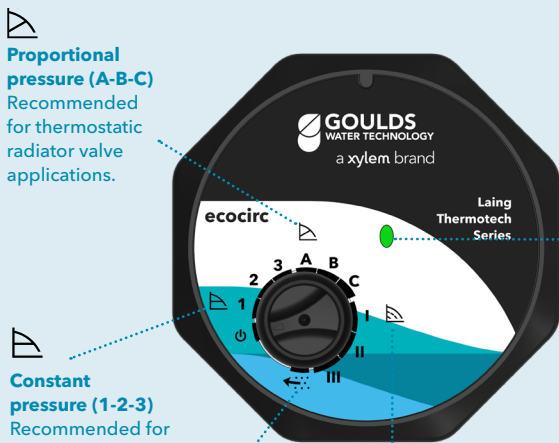
One control knob, three control modes

The standard ecocirc models include options for either cast iron or stainless steel pump housings. Like all ecocirc pumps, they are easy to set up and operate with "just one turn." The interface gives you all the information you need, with a multicolor LED to indicate pump status.

ecocirc+

Higher visibility, functionality and connectivity

Our more advanced ecocirc+ range takes the idea of smart simplicity to a whole new level. Equipped with the same functionality as the standard ecocirc range, these models all come with a three-digit display, communication via Bluetooth® wireless technology, for external monitoring, Night Mode and eAdapt to ensure optimal comfort at minimum cost.



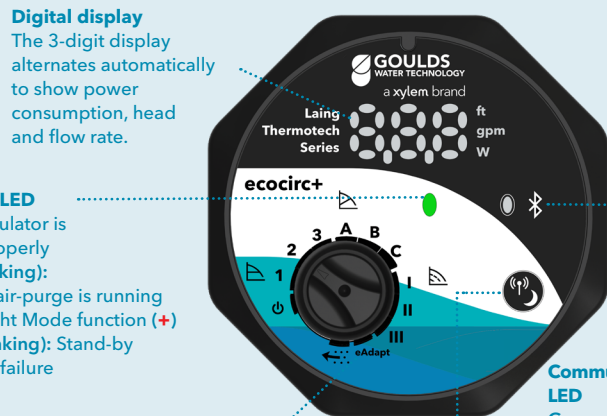
Proportional pressure (A-B-C)
Recommended for thermostatic radiator valve applications.

Constant pressure (1-2-3)
Recommended for underfloor heating applications.

Automatic air purge
Facilitates quick and immediate air-venting for safe operation.

Fixed speed (I-II-III)
Recommended for boiler feed, single-pipe heating systems or systems with hydraulic separators.

Multicolor LED
Green: Circulator is working properly
Green (blinking): Automatic air-purge is running
Yellow: Night Mode function (+)
Yellow (blinking): Stand-by
Red: Pump failure or dry run



Digital display
The 3-digit display alternates automatically to show power consumption, head and flow rate.

eAdapt
Automatic set-up of circulator performance

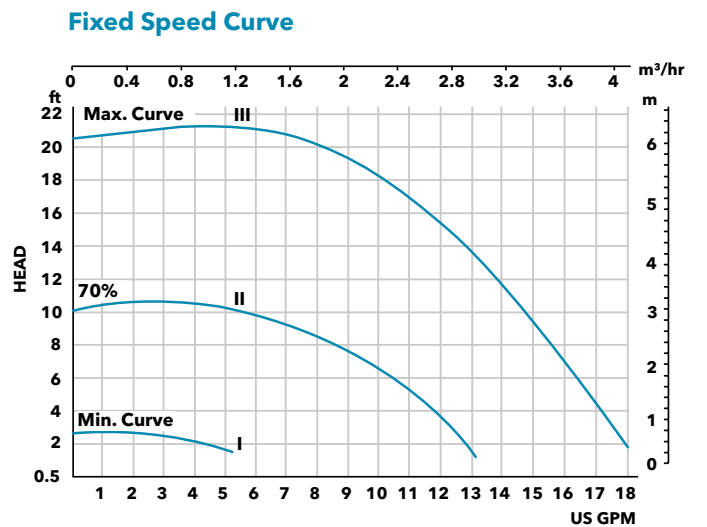
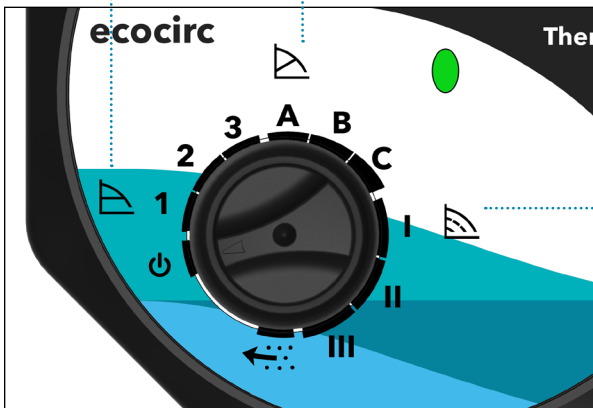
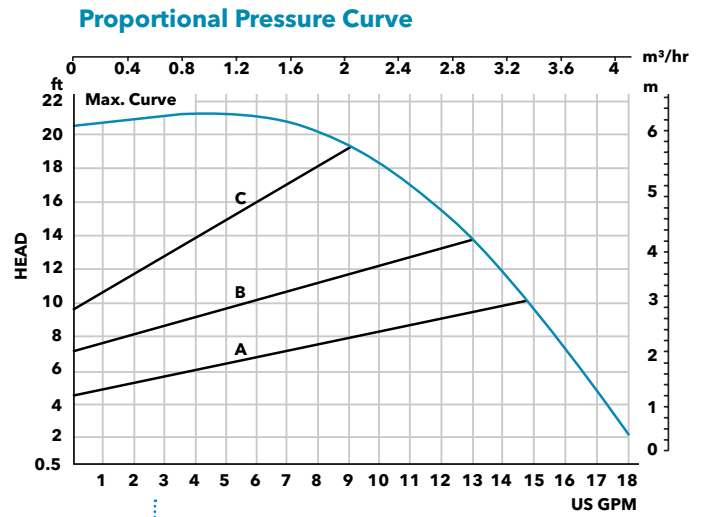
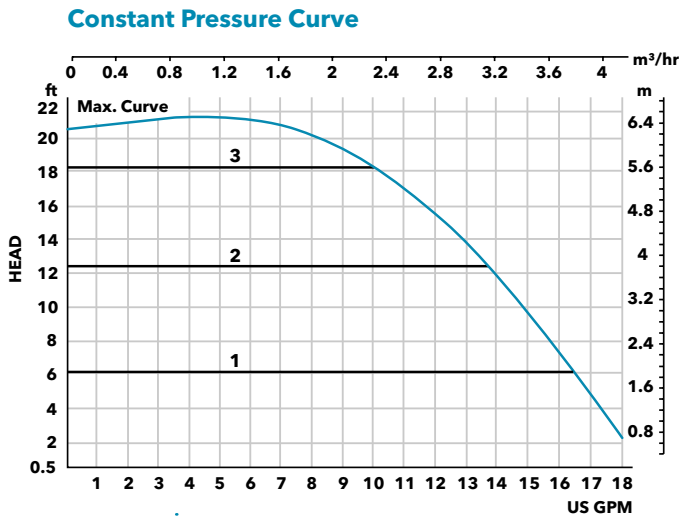
Communication LED
Green: communication via Bluetooth® wireless technology activated.

Night Mode and Communication selection button
Night Mode - to be activated with one of the other functional modes - ensures minimal power consumption at night time. Use the communication via Bluetooth® wireless technology to switch to a remote interface and set up the circulator.

One model with nine different settings can solve a multitude of applications

Performance targeted to individual applications is delivered across a broad spectrum of settings.

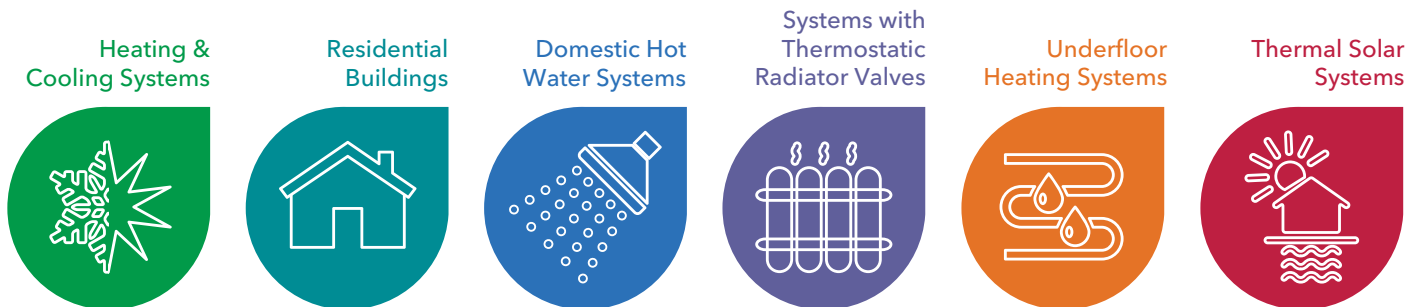
Performance






(+) designates ecocirc+ features

Applications

ecocirc® provides a superior product for both heating and cooling as well as potable water, applications including: gas boilers, oil-fired heaters / boilers, wood heaters and pellet boilers, heat pumps, heat transfer stations / mixing units, district heating, heat interface units, domestic hot water systems, and fresh water modules.



Common Application Settings

|  Constant pressure |  Proportional pressure |  Fixed speed | Delta T | eAdapt |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------|-------------------|
| In-floor heating | 2-pipe heating systems | 1-pipe heating systems | Solar heating | Most applications |
| Closed loop heating | Thermostatic radiator valve applications | Domestic hot water | 1-pipe heating systems | |
| Radiant heat system | | Systems with hydraulic separators | 2-pipe heating systems | |
| Chilled water | | | In-floor heating | |
| Potable water | | | | |

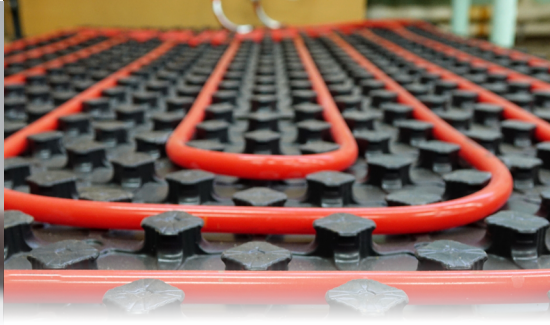
Cross Reference Chart

| ecocirc ecocirc+ | Bell & Gossett | Grundfos | Taco | Armstrong | Wilo |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| ecocirc CI Flanged | ecocirc 19-16 CI, NRF-9L/W, NRF-22, NRF-33 | Alpha2 15 55 (+), Alpha1 15-55, UPS 15-58, UP 15-42, UP 15-10 | VT-2218 (+), VR-1816, 0018e (+), 0015e3, 007e, 006e3, 005-F, 007-F, 008-F, 0015-F | Compass H 20-20CI (+), Astro 2 210 CI, Astro 2 220 CI, Astro 2 230 CI, Astro 2 250 CI | Stratos ECO, Stratos 1.25 X 3- (+), 20 Star S-21 |
| ecocirc SS Flanged | ecocirc 19-16 SS, NBF-12F/LW, NBF-22, NBF-25, SSF-12F/LW, SSF-22 | Alpha2 15-55 (+), Alpha1 15-55, UPS 15-55, UPS 15-35, UP 15-29 | 005-BF, 007-BF, 008-BF, 0015-SF | Compass H 20-20 (+), SSF Astro 2 210 SS, Astro 2 230 SS, Astro 2 250 SS | Star Z S-21 |
| ecocirc SS Union | NBF-8S/LW, NBF- 9U/LW, NBF-10S/ LW, NBF-12U/ LW, NBF-18S/LW, NBF-22U, SSF-9U/ LW, SSF-12U/LW, SSF-22U | UP 15-10B, UP 15- 18B, UP 15-29SU | 003-B, 003-BC, 006-B, 006-BC, 008-BC | Compass H 20-20 (+), SSU Astro 2 220, SSU Astro 2 225, SSU Astro 2 225, BS | N/A |

Note: Stainless steel (SS) versions are NSF-61 certified. (+) designates the cross reference to the ecocirc+ or ecocirc+ features.

Two highly-efficient versions

| Features | ecocirc | ecocirc+ |
|------------------------------------------------------------------------|---------|----------|
| Performance and Construction: | | |
| Delivers maximum performance of 20 ft of head and 18 gpm | ✓ | ✓ |
| Maximum power of 70W | ✓ | ✓ |
| Designed for both heating & cooling with fluid temperature of 14-230°F | ✓ | ✓ |
| Insulation shell included | ✓ | ✓ |
| Check valve included | ✓ | ✓ |
| Control Modes: | | |
| Proportional pressure mode (Delta p-v) | ✓ | ✓ |
| Constant pressure curve (Delta p-c) | ✓ | ✓ |
| Constant speed curve | ✓ | ✓ |
| Constant pressure mode | ✓ | ✓ |
| eAdapt auto learn and night mode | | ✓ |
| T-Constant temperature control mode | | ✓ |
| ΔT-Delta temperature control mode | | ✓ |
| Automatic air purge | ✓ | ✓ |
| System Protections: | | |
| Complete integrated system protection (via CircGuard™) | ✓ | ✓ |
| Pump Readings, Settings and Display: | | |
| Multi-color LED display for easy reading | ✓ | ✓ |
| Turn knob for easy setup of the pump | ✓ | |
| Digital display panel | | ✓ |
| Operating status notification | | ✓ |
| Warning and alarm notification | ✓ | ✓ |
| Errors and work log history | | ✓ |
| Dry run protection (via CircGuard) | ✓ | ✓ |
| Input/Output: | | |
| 0-10V input only | | ✓ |
| 2x External temperature sensors | | ✓ |
| Communication and Monitoring: | | |
| Bluetooth communication with a smartphone | | ✓ |



About Goulds Water Technology

Goulds Water Technology, a Xylem brand, is one of the world's leading brands in residential and commercial water products. The brand began in 1848 in Seneca Falls, NY, (USA) when Seabury S. Gould purchased a pump making business. Today, Xylem's Gould Water Technology brand is a leader of residential, commercial, and agricultural products globally.

We are proud to offer a complete line of circulators and accessories as part of the Goulds Water Technology brand and the Laing Thermotech Series. We're committed to honoring the history of the brand and making sure our customers have reliable products and solutions designed to operate hydronic heating and cooling as well as potable water systems most efficiently. Whether it's in a home, small business or larger commercial application, Goulds Water Techlogy has a solution to meet the demands of a wide range of applications.

**ecocirc
Brass
DHW
Circulators**



**ecocirc DHW
Timer**



**Autocirc Undersink
Circulators**

ecocirc +

ecocirc



**ACT DHW
Retrofit
Circulators**



**D5 Brass
Circulators**



Learn more about
Laing Thermotech Series



Visit www.xylem.com/goulds for information on our entire product portfolio, including literature, product specifications and resources.

Xylem |'zīləm|

1) The tissue in plants that brings water upward from the roots;

2) a leading global water technology company.

We're a global team unified in a common purpose: creating advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. 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 with a strong focus on developing comprehensive, sustainable solutions.

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

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Xylem Product Cybersecurity

Xylem values your system security and the availability of your critical services. For more information on Xylem cybersecurity practices or to contact the cybersecurity team please visit www.xylem.com/security.



Xylem Inc.
2881 East Bayard Street Ext., Suite A
Seneca Falls, NY 13148
Phone: (866) 325-4210
Fax: (888) 322-5877
www.xylem.com/goulds

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