



ecocirc[®] 20-18 & ecocirc+[®] 20-18

THE NEWEST GENERATION VARIABLE SPEED ECM SMART CIRCULATOR FOR HEATING, COOLING AND POTABLE WATER SYSTEMS

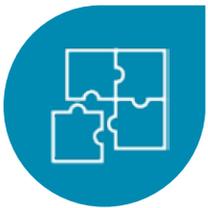
A reliable, highly-efficient, easy-to-install and simple-to-use smart circulator

The ecocirc® 20-18 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+ 20-18 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 20-18 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.

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 20-18 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 (ecocirc+ 20-18 only)
The ability to connect directly to the pump allows full control and monitoring of the pump.

Full control (ecocirc+ 20-18 only)
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 20-18

One control knob, three control modes

The standard ecocirc 20-18 models include options for either cast iron or stainless steel pump housings. Like all ecocirc 20-18 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.

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

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

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

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.

ecocirc+ 20-18

Higher visibility, functionality and connectivity

Our more advanced ecocirc+ 20-18 range takes the idea of smart simplicity to a whole new level. Equipped with the same functionality as the standard ecocirc 20-18 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.

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

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.

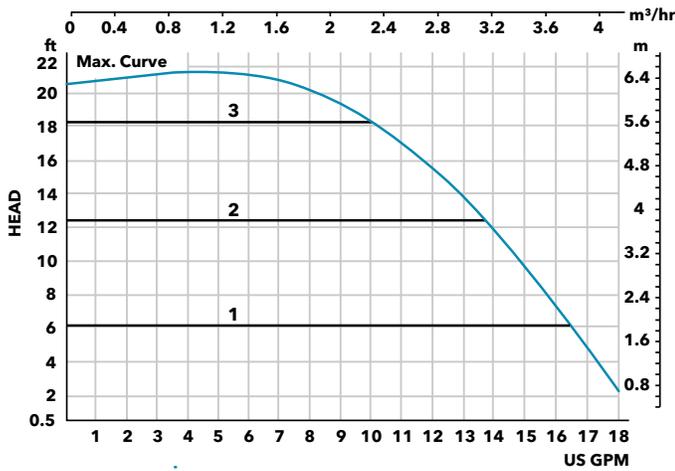
eAdapt
Automatic set-up of circulator performance

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

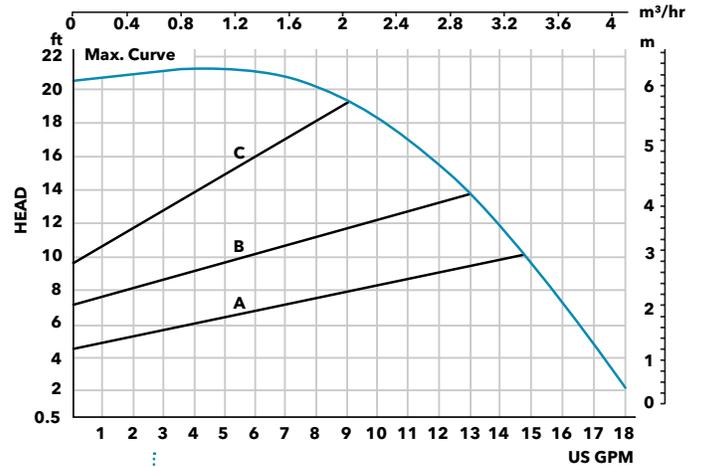
Performance targeted to individual applications is delivered across a broad spectrum of settings.

Performance

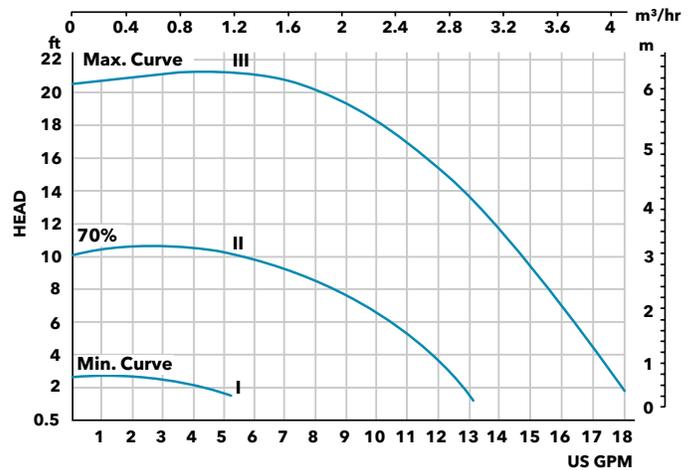
Constant Pressure Curve



Proportional Pressure Curve



Fixed Speed Curve

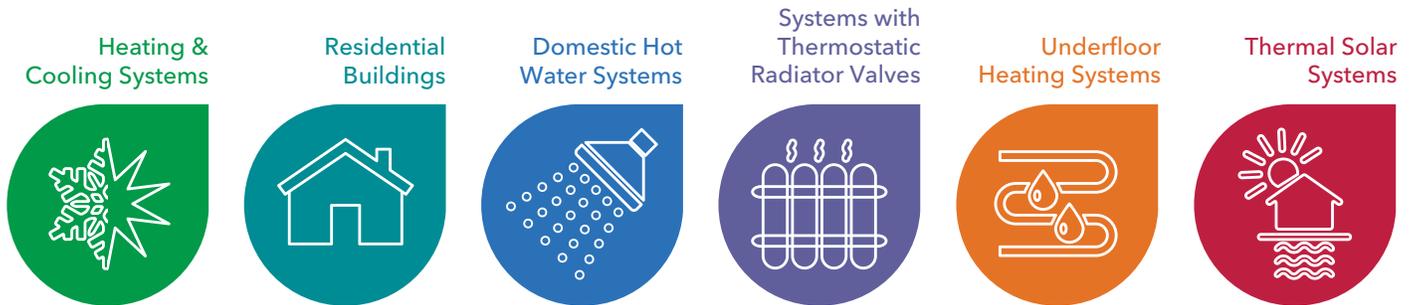


Two highly-efficient versions

Features	ecocirc 20-18	ecocirc+ 20-18
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		✓
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		✓
1 x external temperature sensor input		✓
Communication and Monitoring:		
Bluetooth communication with a smartphone		✓

Applications

ecocirc® 20-18 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
- Fresh Water Modules

Cross Reference Chart

ecocirc 20-18 ecocirc+ 20-18	Bell & Gossett	Grundfos	Taco	Armstrong	Wilo
ecocirc 20-18 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 20-18 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 20-18 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+ 20-18.

Service and support from the most trusted name in the industry – Bell & Gossett.

The Bell & Gossett name has always stood for uncompromising quality and dependability. That's evident in the way every one of our pumps is built and backed by our outstanding customer service and support team.

Your local Bell & Gossett representative is available any time and is an experienced professional with a wealth of technical expertise. In addition to expert system and product application assistance and a wide product inventory warehoused locally, we offer ESP-Systemwise software selection program.



ESP-Systemwise is a Bell & Gossett web-based software that helps you design HVAC systems accurately, effectively and very quickly. You get fast, precise equipment selection, pump performance curves and equipment schedules, submittals, specifications and more.

ESP-Systemwise includes:

- Pumps
- Expansion Tanks
- Replacement Parts
- Air/Dirt Separators
- Heat Exchangers
- Suction Diffuser and Triple Duty Valve
- Drives and Controls
- PIC Valves
- Wastewater/Stormwater

Bell & Gossett Little Red Schoolhouse®

We are known throughout the hydronic heating business as the industry's educator. Our Little Red Schoolhouse, a completely equipped learning center, has trained more than 60,000 engineers, contractors and installers in the proper design, installation and maintenance of hydronic and steam systems.



Opened in 1954, the Little Red Schoolhouse offers seminars covering a wide range of topics tailored to different occupations in the industry. Attendance is by select invitation only. Graduates of the Little Red Schoolhouse can be found throughout North America, as well as Europe, Middle East, Asia, Latin America and Australia.

The Bell & Gossett Little Red Schoolhouse is an Accredited Provider by the International Association for Continuing Education and Training (IACET) and is authorized to offer IACET CEUs for its programs that qualify under the ANSI/IACET Standard. The Little Red Schoolhouse has also been approved by the Green Building Certification Institute (GBCI) as a provider of continuing education for LEED professionals.

For applications to attend these seminars, please contact a Bell & Gossett Representative in your area. They will facilitate the arrangements to attend.

Remote training opportunities are also available as an extension of the Little Red Schoolhouse when schedules do not allow for in person training. Visit bellgossett.com to access live and on-demand webinars, YouTube training videos and IACET approved e-Learning courses.



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

We value your feedback. Please take our 3 question survey at **bellgossett.com/survey** to let us know how we are doing.



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