

**WHAT IF  
PLUMBING WERE AS  
EASY  
AS TURNING THE DIAL?**

# ecocirc – a smarter choice

HIGH-EFFICIENCY CIRCULATORS FOR RESIDENTIAL HEATING,  
COOLING AND DOMESTIC WATER APPLICATIONS

# "Give us a smarter choice in circulation pumps"

**Faster setups. Fewer call-backs. Lower costs. These are just a few key factors you told us separate highly successful plumbers from the rest. Interestingly, it wasn't just one thing but a combination. And, when we asked you about circulation pumps for domestic applications, we heard a similar refrain: "Give us a smarter choice that combines high efficiency, simplicity and reliability in a single, cost-efficient package."**

## **You asked, we listened**

Combining all these benefits in a single circulator wasn't easy. But it proved to be the perfect brief to Lowara engineers for the development of ecocirc, our new range of high-efficiency circulation pumps for hydronic and domestic hot water applications. Available in basic (ecocirc) and advanced versions (ecocirc+), these revolutionary new circulators are ideal for heating and cooling, domestic hot water and underfloor heating systems, solar thermal and systems with thermostatic radiator valves.

## **Smarter for your customers, smarter for you**

There were two key parts to our design thinking. First, we wanted to give your customer a smarter, more efficient and reliable product that could lower their energy bills by up to 80% and, consequently, cut CO<sub>2</sub> emissions. Secondly, and equally important, we wanted to provide you with an "easy to install and forget" circulator that would let you get in and out of jobs quickly. No hassles, no surprises, no call-backs. In short, a smarter choice.

**ecocirc**



**ecocirc +**



### EFFICIENCY

Best-in-class energy efficiency enabled by ECM motor, optimized hydraulics and low power consumption.

### SIMPLICITY

Compact and easy to install in confined spaces with "one turn control knob" to facilitate setups.



### RELIABILITY

Robust design equipped with safety alerts and automatic shut-off to avoid pump burnout.

### ECONOMY

Cost savings with Night Mode and eAdapt functions (ecocirc+); faster payback compared to standard circulators.

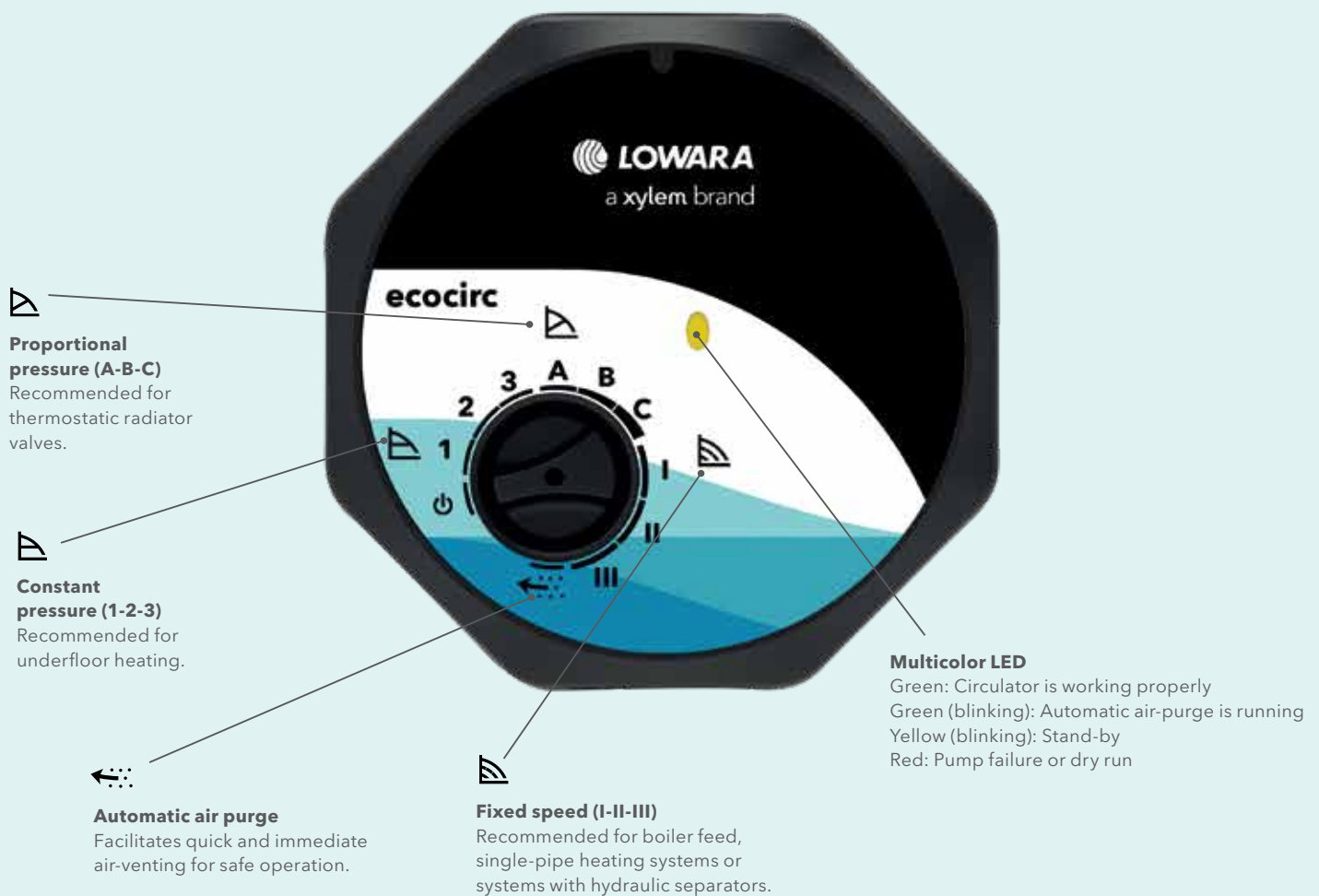
# Ready, set, go

**Simplicity is key for the new ecocirc range. Lightweight and easy to install, these robust circulators are all equipped with a convenient, multifunctional control knob to select functional modes and speed settings. You also get just the right level of display information to monitor the circulator's status. This is ecocirc, a smarter choice.**

## ecocirc

### One control knob, three control modes

The basic ecocirc range consists of 28 models, including 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 human-machine 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 basic ecocirc range, these 14 models all come with a three-digit display, the communication via **Bluetooth®** wireless technology, for external monitoring, Night Mode and eAdapt to ensure optimal comfort at the minimum cost.

#### Digital display

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

#### 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.

#### Communication LED

Green: communication via Bluetooth® wireless technology activated.

#### eAdapt

##### eAdapt

Automatic set-up of circulator performance to ensure minimum power consumption.



#### 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.



# Robust, reliable and cost-efficient

The ecocirc and ecocirc+ ranges are precision-engineered by Lowara, a global brand within Xylem Inc., based on more than half a century of R&D expertise and real-life testing experience. Our ambition in the HVAC sector is, quite simply, to give you a smarter choice of circulation pumps – easier-to-install units that just keep on running, delivering high efficiency and good value for money, day in and day out.

## **Cutting electric bills and CO<sub>2</sub> emissions**

Studies show that 10–15% of the electricity consumption in domestic households is due to heating circulators. The ecocirc motor and hydraulics are carefully engineered to minimize this. All ecocirc pumps feature high-efficiency ECM motors that allow energy savings of up to 80% compared to conventional circulators. The EEL level, rated at  $\leq 0.18$ , ensures a fast payback on investment.

## **Automatic air purge**

The automatic air purge mode facilitates quick and immediate air venting for safe operation.



## **Always hot and protected**

The insulation shell keeps the temperature of the pumped liquid and surrounding environment at just the right level and provides protection during transportation.



**Best-in-class energy efficiency**

The high efficiency ECM motor and optimized hydraulics keep your operational costs to a minimum. EEI level  $\leq 0.18$ .

**High visibility**

A larger, easier-to-read digital display facilitates quick viewing of the pump's operating status, warnings and alarms (ecocirc+ range).

**Always safe**

The built-in dry-run protection stops the pump and prevents damage if it runs without water.

**Communication**

via Bluetooth® wireless technology for external control and monitoring from your laptop, smartphone and tablet (ecocirc+ range).

**Economical operations**

Night Mode and eAdapt operational modes ensure optimal comfort at the minimum cost (ecocirc+ range).

**Quick and easy to install**

Interchangeable plug for electrical connection. The female plug is also compatible with the male plugs from previous circulators installed on site by third parties.



# How to choose the perfect circulator for your needs

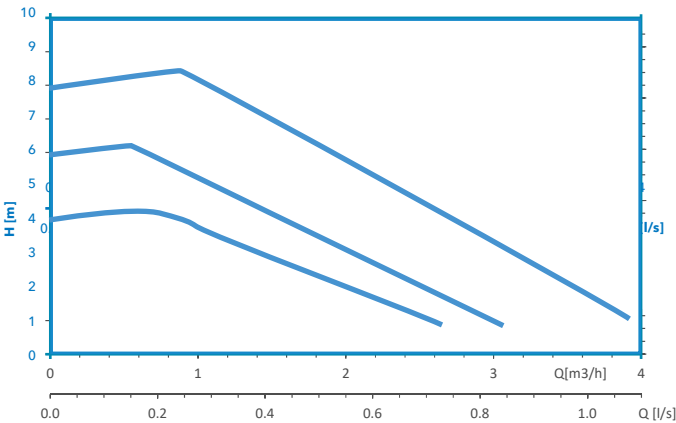
Need a circulator for underfloor heating? Or maybe one to move sanitary hot water from the boiler on up to taps and shower fixtures? Do you find it easier to view large digital displays? And what about the port-to-port dimension you need? No worries, we’ve got you covered.

### Easy to choose, easy to use

The ecocirc range consists of 42 different models, including a wide variety of materials, sizes and configurations. It also meets all requirements for residential heating, cooling and domestic hot water

applications. Below is an overview of hydraulic performances and main features. For details regarding your preferred model, please refer to the product range tables and measurements.

### Hydraulic performance range



### Main features

	ecocirc	ecocirc+
<b>Range</b>		
No. of models	28	14
Max head (m)	4 - 6 - 8	4 - 6 - 8
<b>Reading and setting</b>		
Knob	X	X
Fault indication	X	X
Display		X
<b>Control and operating modes</b>		
Proportional pressure	X	X
Constant pressure	X	X
Constant speed	X	X
e-Adapt		X
Night mode		X
Bluetooth® wireless technology		X

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# We've got you covered

**After delivering a circulator, we sometimes say in jest: "We hope to never see you again." There's some truth in this. That's because ecocirc circulation pumps are designed to just keep on running for many trouble-free years. However, should you experience any challenges along the way, our commitment does not stop with the delivery.**



## **Service Centers & Authorized Partners**

We offer full-range global service for pumps and systems through a network of service centers and Authorized Service Partners. Our certified technicians are trained to provide on-site support, if required, or answer any questions. The aim is to provide you with end-to-end support, from commissioning to replacement, ensuring zero downtime and high quality.

**"We don't just buy pumps - we buy a relationship based on trust and knowledge."**

*Hungarian customer, Xylem Learning Center, Vicenza, Italy*

## **Xylem Learning Centers**

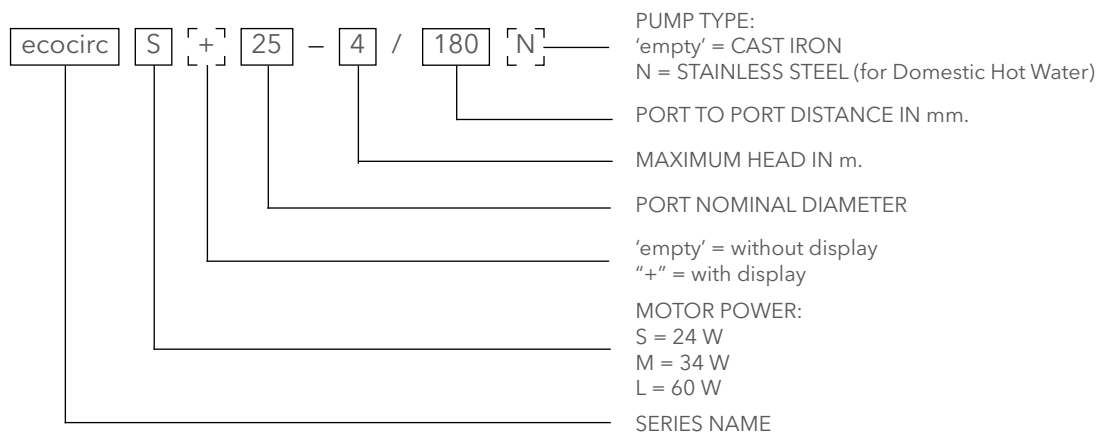
For the benefit of our customers, we also operate a Xylem Learning Center at a number of our manufacturing facilities across Europe. Here, in addition to a plant tour, you can learn more about pump theory, pumping systems, sizing and more. You also have an opportunity to meet colleagues and exchange views and best-practice experiences.



**"They just keep going and going and going."**

*Ecocirc Demo Tester, Hamburg, Germany*

## Model designation



EXAMPLE : ecocirc S + 25-4/180

Electronic circulator of the ecocirc series, motor power = 24 W, equipped with display, port nominal diameter = 25, max head = 4 m, with port to port distance 180 mm.

## Technical data

Flow rate: Up to 4.5 m<sup>3</sup>/h

Head: Up to 8 m

Maximum power consumption: 60 W

Temperature of pumped liquid: -10°C - 110°C

Ambient temperature: -10°C - 110°C

Maximum operating pressure: 10 bar (PN 10)

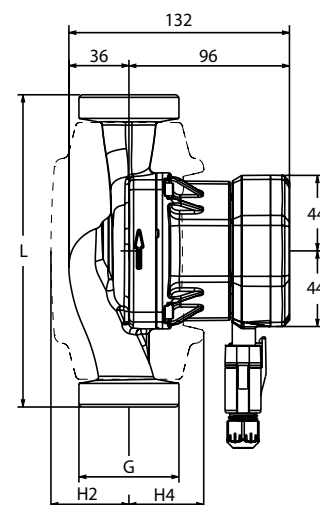
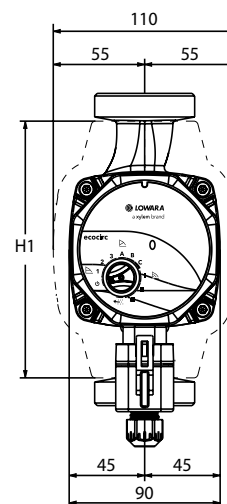
Power supply: Single-phase 200-240 V 50/60 Hz

Insulation class F (155°C)

Protection class IP 44

Sound level ≤ 43 dB(A)

EMC (electromagnetic compatibility) EN 55014-1:2006 and EN 55014-2:1997



Pump type	Dimension (mm)				
	L	G	H1	H2	H4
ecocirc S 15-4/130 N	130	G 1 / R ½	142	46	44
ecocirc S 20-4/150 N	150	G 1 ¼ / R ½	142	46	44
ecocirc S 25-4/180 N	130	G 1 ½ / R 1	142	46	44
ecocirc S 25-4/180 N	180	G 1 ½ / R 1	148	47	45
ecocirc S 32-4/180 N	180	G 2 / R 1 ¼	148	47	45
ecocirc M 15-4/130 N	130	G 1 / R ½	142	46	44
ecocirc M 20-4/150 N	150	G 1 ¼ / R ¾	142	46	44
ecocirc M 25-4/130 N	130	G 1 ½ / R 1	142	46	44
ecocirc M 25-4/180 N	180	G 1 ½ / R 1	148	47	45
ecocirc M 32-4/180 N	180	G 2 / R 1 ¼	148	47	45
ecocirc L 15-8/130 N	130	G 1 / R ½	142	46	44
ecocirc L 25-8/130 N	130	G 1 ½ / R 1	142	46	44
ecocirc L 25-8/180 N	180	G 1 ½ / R 1	148	47	45
ecocirc L 32-8/180 N	180	G 2 / R 1 ¼	148	47	45

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Pump type	Dimension (mm)				
	L	G	H1	H2	H4
ecocirc S(+) 15-4/130	130	G 1 / R ½	142	46	44
ecocirc S(+) 20-4/150	130	G 1 ¼ / R ½	142	46	44
ecocirc S(+) 25-4/180	130	G 1 ½ / R 1	142	46	44
ecocirc S(+) 25-4/180	180	G 1 ½ / R 1	148	47	45
ecocirc S(+) 32-4/180	180	G 2 / R 1 ¼	148	47	45
ecocirc M(+) 15-6/130	130	G 1 / R ½	142	46	44
ecocirc M(+) 20-6/150	130	G 1 ¼ / R ¾	142	46	44
ecocirc M(+) 25-6/130	130	G 1 ½ / R 1	142	46	44
ecocirc M(+) 25-6/180	180	G 1 ½ / R 1	148	47	45
ecocirc M(+) 32-6/180	180	G 2 / R 1 ¼	148	47	45
ecocirc L(+) 15-8/130	130	G 1 / R ½	142	46	44
ecocirc L(+) 25-8/130	130	G 1 ½ / R 1	142	46	44
ecocirc L(+) 25-8/180	180	G 1 ½ / R 1	148	47	45
ecocirc L(+) 32-8/180	180	G 2 / R 1 ¼	148	47	45

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## Product ranges

Models ecocirc	Power limit [W]	Port to port [mm]	Port nominal diameter	Max head [m]	Connection	EEI level	Part number	
							Cast iron	AISI304
ecocirc S 15-4/130 (N)	24	130	15	4	G 1 / R ½	≤ 0.16	60B0L1000	60B0L1001
ecocirc M 15-6/130 (N)	34	130	15	6	G 1 / R ½	≤ 0.17	60B0L1002	60B0L1004
ecocirc L 15-8/130 (N)	60	130	15	8	G 1 / R ½	≤ 0.18	60B0L1003	60B0L1005
ecocirc S 20-4/130	24	130	20	4	G 1 ¼ / R ¾	≤ 0.16	60B0L1006	-
ecocirc S 20-4/150 N	24	150	20	4	G 1 ¼ / R ¾	≤ 0.16	-	60B0L1008
ecocirc M 20-6/130	34	130	20	6	G 1 ¼ / R ¾	≤ 0.17	60B0L1007	-
ecocirc M 20-6/150 N	34	150	20	6	G 1 ¼ / R ¾	≤ 0.17	-	60B0L1009
ecocirc S 25-4/130 (N)	24	130	25	4	G 1 ½ / R 1	≤ 0.16	60B0L1010	60B0L1013
ecocirc S 25-4/180 (N)	24	180	25	4	G 1 ½ / R 1	≤ 0.16	60B0L1016	60B0L1019
ecocirc M 25-6/130 (N)	34	130	25	6	G 1 ½ / R 1	≤ 0.17	60B0L1011	60B0L1014
ecocirc M 25-6/180 (N)	34	180	25	6	G 1 ½ / R 1	≤ 0.17	60B0L1017	60B0L1020
ecocirc L 25-8/130 (N)	60	130	25	8	G 1 ½ / R 1	≤ 0.18	60B0L1012	60B0L1015
ecocirc L 25-8/180 (N)	60	180	25	8	G 1 ½ / R 1	≤ 0.18	60B0L1018	60B0L1021
ecocirc S 32-4/180 (N)	24	180	32	4	G 2 / R 1 ¼	≤ 0.16	60B0L1022	60B0L1025
ecocirc M 32-6/180 (N)	34	180	32	6	G 2 / R 1 ¼	≤ 0.17	60B0L1023	60B0L1026
ecocirc L 32-8/180 (N)	60	180	32	8	G 2 / R 1 ¼	≤ 0.18	60B0L1024	60B0L1027

Models ecocirc +	Power limit [W]	Port to port [mm]	Port nominal diameter	Max head [m]	Connection	EEI level	Part number	
							Cast iron	AISI304
ecocirc S+ 15-4/130	24	130	15	4	G 1 / R ½	≤ 0.16	60B0L1028	-
ecocirc M+ 15-6/130	34	130	15	6	G 1 / R ½	≤ 0.17	60B0L1029	-
ecocirc L+ 15-8/130	60	130	15	8	G 1 / R ½	≤ 0.18	60B0L1030	-
ecocirc S+ 20-4/130	24	130	20	4	G 1 ¼ / R ¾	≤ 0.16	60B0L1031	-
ecocirc M+ 20-6/130	34	130	20	6	G 1 ¼ / R ¾	≤ 0.17	60B0L1032	-
ecocirc S+ 25-4/130	24	130	25	4	G 1 ½ / R 1	≤ 0.16	60B0L1033	-
ecocirc M+ 25-6/130	34	130	25	6	G 1 ½ / R 1	≤ 0.17	60B0L1034	-
ecocirc L+ 25-8/130	60	130	25	8	G 1 ½ / R 1	≤ 0.18	60B0L1035	-
ecocirc S+ 25-4/180	24	180	25	4	G 1 ½ / R 1	≤ 0.16	60B0L1036	-
ecocirc M+ 25-6/180	34	180	25	6	G 1 ½ / R 1	≤ 0.17	60B0L1037	-
ecocirc L+ 25-8/180	60	180	25	8	G 1 ½ / R 1	≤ 0.18	60B0L1038	-
ecocirc S+ 32-4/180	24	180	32	4	G 2 / R 1 ¼	≤ 0.16	60B0L1039	-
ecocirc M+ 32-6/180	34	180	32	6	G 2 / R 1 ¼	≤ 0.17	60B0L1040	-
ecocirc L+ 32-8/180	60	180	32	8	G 2 / R 1 ¼	≤ 0.18	60B0L1041	-

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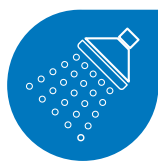
## Applications



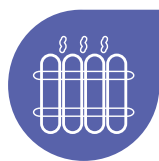
Heating and Cooling Systems



Residential Buildings



Domestic Hot Water Systems



Systems with Thermostatic Radiator Valves



Underfloor Heating Systems



Thermal Solar Systems

# Xylem ['zīləm]

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

We're 12,000 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 [xyleminc.com](http://xyleminc.com)

## Free Line group

We offer:

- Engineering and technical solutions of Xylem for water supply, wastewater and water purification systems, which are leading in the world.
- A full range of pumps and equipment for such applications as supplying drinking or untreated water, diversion of industrial wastewater, sewage, drainage, monitoring installations and operation, primary and secondary biological treatment, filtration and disinfection.
- Technical support and maintenance of pumps. Our local service center provides comprehensive services and support for safe, efficient and reliable operation. You can rely on us to ensure trouble-free operation and minimal downtime. We will quickly respond and give a professional answer to your questions, as well as provide high-quality service using original spare parts.

### Free Line Group LLC

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