

MICRON+ SERIES

DIMENSIONS



TECHNICAL SPECIFICATIONS		
Melting rate*		from 9.0 to 30 kg/h (from 20 to 66 lb/h)
Pumping capacity*		29.3 kg/h (65 lb/h) - 7cc/pump, 66.0 kg/h (145 lb/h) - 19cc/pump
Number of outputs		2, 4 or 6 electrical outputs, 6 hydraulic outputs (threads of 9/16)
Range of temperatures		40 to 200 °C (104 to 392 °F)
	Optional	40 to 230 °C (104 to 446 °F)
Temperature control		RTD ± 0.5°C (±1°F) Ni120, Pt100 or NTC-R
Maximum hydraulic working pressure		81.6 bar (1,183 psi) / Pneumatic pressure up to 6 bar
Maximum connection power (The maximum permissible current connection is 27 A per phase)		Maximum connection power for each hose/applicator pair: 1,800 W Consult power tables available in MICRON+ piston pump manual according to each case or installation
External features	Inputs	Unit On-Off, Standby On-Off, inhibition of electrical outputs
	Outputs	Running and Alarms
Electrical requirements		L/N/PE ~ 230V 50/60Hz
		3L/N/PE ~ 400V 50/60Hz
		3L/PE ~ 230V 50/60Hz
	Optional	3L/PE ~ 400V 50/60Hz with transformer unit
	Optional	3L/PE ~ 480V 50/60Hz with transformer unit (UL)
Ambient temperature		0 to 40 °C (32 to 104 °F)
Weight (unloaded)		37.5 kg (5 L) / 45.7 kg (10 L) / 60.2 kg (20 L) / 90.1 kg (35 L) 83 lb (1.3 gal) / 101 lb (2.6 gal) / 133 lb (5.3 gal) / 199 lb (9.3 gal)
*Depending on the type of adhesive.		

RANGE OPTIONS		MICRON	MICRON+	
			ICONS	STANDARD
Temperature Sensor	Pt-100	✓	✓	✓
	NI-120	✓	✓	✓
	NTC-R	✗	✓	✓
Electrical Outputs for hose-applicators	2 Outputs	✓	✓	✓
	4 Outputs	✓	✓	✓
	6 Outputs	✓	✓	✓
	8 Outputs	✗	✓	✓
Pattern Controller Integrated	StarBi	✗	✗	✓
	Splitter	✗	✓	✓
Communications	Modbus	✗	✓	✓
	Ethernet-IP	✗	✓	✓
	Profibus	✗	✓	✓
	Profinet	✗	✓	✓
	Ethercat	✗	✓	✓
	Bluetooth	✗	✗	✓
	Wifi	✗	✗	✓
	External HMI control	✗	✗	✓
Monitoring devices	Flowmeter	✗	✗	✓
Certifications	CE	✓	✓	✓
	UL	✗	✓	✓

FUNCTIONALITIES		MICRON	MICRON+	
			ICONS	STANDARD
Calendar	On/Off and Standby Scheduling	✓	✓	✓
	General activation / deactivation	✓	✓	✓
Standby	One temperature reduction for all heated elements	✓	✓	✓
	One temperature reduction for each heated element	✗	✗	✓
	Independent standby activation for each heated element	✗	✓	✓
	General activation / deactivation	✗	✓	✓
Sequential Heating	Create heating groups by user	✗	✗	✓
Temperatures	Programmable temperatures	✓	✓	✓
	Modify temperature warning limits by user	✗	✗	✓
	Modify temperature alarm limits by user	✗	✗	✓
	Inhibition: create groups by user	✗	✗	✓
Security / Safety	Predetermined user profiles	✗	✓	✓
	Pumping safety functionality	✗	✓	✓
Digital Inputs	Programmable inputs	✗	✗	✓
	Fixed inputs (on/off & standby)	✓	✓	✗
Digital Outputs	Programmable outputs	✗	✗	✓
	Fixed outputs (ready & alarm)	✓	✓	✗

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gluing
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MICRON+ SERIES

ICONS INTERFACE

A global language for
seamless operations

UNIVERSAL | VISUAL | CONNECTED

More accessible, clearer and easier to use
thanks to the icon-based interface.

MICRON
by meler

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PISTON PUMP SERIES

C-0326 - ENG - Focke Meler reserves the right to change the contents of this catalogue without prior notice.

MICRON+ SERIES

ICONS INTERFACE

An icon-based interface isn't just a design choice; it reduces language dependency, minimizes operational errors, and shortens learning time.

In industrial environments where every second counts, visual clarity drives productivity.

More understanding. More performance.

USABILITY AND DEVICE CONTROL

ADVANCED USABILITY THANKS TO AN INTUITIVE CONTROL PANEL AND THE ICON VERSION

MICRON+ enables quick control of the equipment with all information to hand.

7" touchscreen

- Easy to use and simplified menu.
- Functions: alarms, calendars, schedules, passwords (levels), etc.
- Fast programming.

Icon-based interface

- Cross-cultural usability.
- Language independence.
- Quick learning curve; icons simplify navigation.

FLEXIBILITY

MICRON+ ADAPTS TO ANY INSTALLATION REQUIREMENT

MICRON+ provides intuitive and efficient control of the equipment, with all key information easily accessible.

- Fully integrated in the main machine thanks to its compact design.
- Easy-clean design for easy maintenance.

CONNECTIVITY

COMMUNICATIONS AND CONFIGURABILITY

MULTIPLE COMMUNICATION PROTOCOLS

controlled from a single interface:

MODBUS RTU PROFINET ETHERCAT
PROFIBUS ETHERNET-IP



Hose electrical connections



ENERGY EFFICIENCY LESS CONSUMPTION

All units in the **MICRON+** series are based on "MICRON TECHNOLOGIE", aimed at **reducing electricity consumption to a minimum.**

CAREFUL TREATMENT OF THE ADHESIVE

Sequential heating.

Greater improvement to the unit's efficiency of use:

- Quality of the adhesive
- Durability of the materials
- Efficiency of the process
- Energy and air savings

The temperature is distributed uniformly over the entire contact surface of the tank, with no hotspots where the adhesive can degrade, for **careful and efficient melting.**

USE AND MAINTENANCE

- Same functioning for all Meler units.
- In very few steps, we get full access to the interior of the unit.
- Cool Touch exterior housing ensures maximum operator safety.
- The large tank lid opens fully, making it easier to fill and clean.

MICRON+ FEATURES

PROCESS AUTOMATION

SPLITTER by meler

A pattern generator for adhesive savings:

- Increases savings by converting a continuous bead into a dotted pattern.
- User flexibility and autonomy.
- Easy integration into the customer's production line.

AUTOMATIC ADHESIVE FEEDER

It **avoids manual filling** guaranteeing a continuous level of adhesive and improving operator safety.

USABILITY AND SAFETY

EXTERNAL PRESSURE REGULATION

Allows quick and precise pressure adjustment from the outside of the unit, improving operator safety and simplifying daily operation.



Manual



Automatic



MICRON+ ADVANTAGES

The best energy efficiency on the market

Low maintenance cost and long useful life

Easy to use

Quick and easy to clean

Units equipped for Industry 4.0

Cool Touch exterior housing

Compact design makes it easy to integrate into any installation

EASY CLEAN TOTAL ACCESS