

meler 



# GLUING SOLUTIONS

**MACRO  
FOAM**

**Melting, foaming and pumping unit** for hot melt adhesives  
**Foam rates achievable up to 65%** (depending on the adhesive)  
**Easy to adjust, user- friendly** control parameters

## FOAMING SYSTEMS

Meler has developed a new range of equipments for melting, foaming and pumping thermoplastic hot melt adhesives and PUR/ POR adhesives: the Macro Foam series.

This series is offered with three different tank sizes: 35, 50 or 120 liters. These equipments are aimed for continuous and small-intermittent applications.\*

The foaming process consists on mixing the hot melt adhesive with inert gas under certain conditions of pressure and temperature. Once the mixture is applied, the gas expands creating a close- cells structure (foam).

A direct application system without recirculation is used for applying foam. This system offers a stable mixture of gas and adhesive both in percentage and in equal distribution.

\* Duration of intermittency depends on the type of adhesive. Usually up to 30 seconds.

### ADVANTAGES



#### INCREASE OPEN TIME

More adhesives range can be used



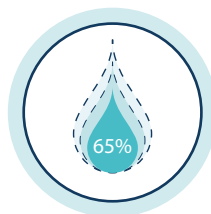
#### VOLUMETRIC INCREASE

After being applied, its volume increases, providing a hermetic seal in the cavities.



#### UNIFORMITY

Thanks to the direct system, constant gasification values are obtained allowing high application speeds.



#### REDUCE ADHESIVE CONSUMPTION

Up to 65%, depending on the adhesive



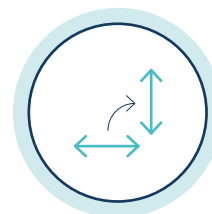
#### FOAM HIGHEST QUALITY

The foam generated is applied directly without recirculation, obtaining great uniformity.



#### FAST ADJUSTMENT

Only 3 parameters are adjusted for the operation of the equipment: Temperature, mixing pressure and gas pressure.

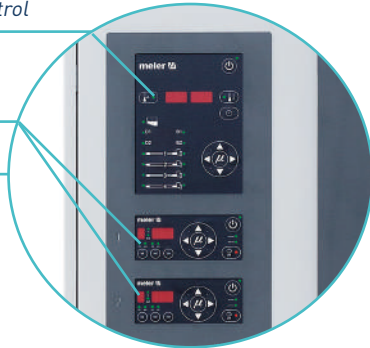


#### VERTICAL APPLICATION

More consistency on vertical surfaces

Temperature control

Foam pressure control



## CONTROL PANEL

- > Temperature range: from 40°C to 200°C
- > Foam pressure control. Quantity applied is proportional to pressure
- > Motor ON/ OFF external contact
- > Foam pressure external control

**GAS LEVEL ALARM**  
**ADHESIVE LEVEL ALARM**  
**TEMPERATURES OK**

## HEATED TANK

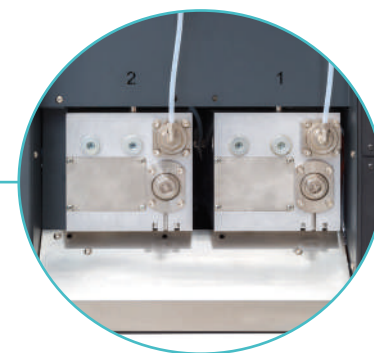
- > Capacity: 35/ 50/ 120 liters
- > PUR version with air- proof tank lid (50 liters)
- > Melting rate: a tank per hour (\*)

(\*) depending on the adhesive



## GAS PRESSURE

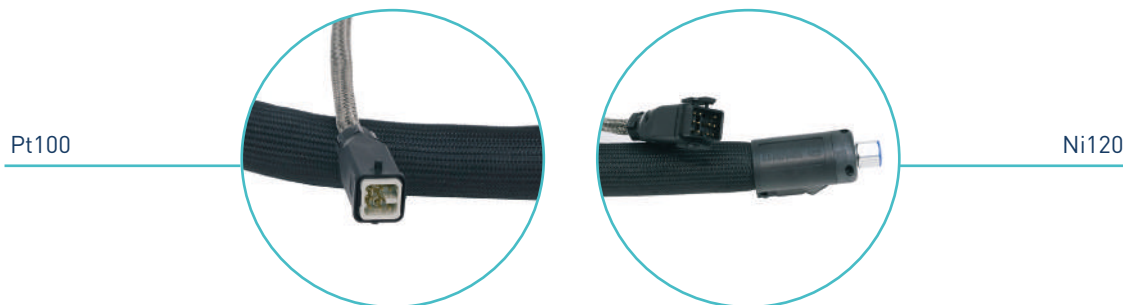
## BYPASS PRESSURE



Easy access to the motor-pump assembly by means of a movable electrical cabinet

## TECHNICAL FEATURES

Tank capacity	35, 50 and 120 liters (PUR version with air-proof tank lid for 50)
Rate volume including air	1.6, 3.3, 6.6 cc/rev
Melting rate	one tank volume per hour (*)
Number of pumps	2 (35, 50); 4 (120)
Number of hydraulic connections	1 per pump
Number of electric connections	up to 4 outputs
Motor power	1.100 W
Pump speed	0-150 rpm
Temperatures range	40 to 200°C
Temperature control	RTD $\pm 0.5^{\circ}\text{C}$ ( $\pm 1^{\circ}\text{F}$ )
Maximum working pressure	85 bar (1.233 psi)
Pressure relief valve	pneumatic
Max. input power (at 230 VAC)	10.750 W (1 simple pump/ 2 outputs) (35) 12.780 W (1 simple pump/ 2 outputs) (50) 17.050 W (1 single pump/ 2 outputs) (120)
External functions	Temperatures ok output Low level of adhesive alarm Gas low level alarm External standby activation Outputs enabled external contact Motor ON/OFF external contact Foam pressure external control
Electrical connections	3N~ 400V 50 Hz/ 60 Hz + PE
Options	Air dryer system for PUR
Dimensions (L x W x H)	1.080 x 510 x 1.600 mm (35, 50) 1.080 x 875 x 1.600 mm (120)
* Depending on type of adhesive	



The equipments Macro Foam can be supplied with a wide range of Meler hoses and guns both Pt100 and Ni120.

For more information speak with your Focke Meler representative:

**meler** 

**Focke Meler Gluing Solutions, S.A.**  
Pol. Los Agustinos, c/G, nave D-43  
E-31160 Orkoien - Navarra - Spain  
Phone: +34 948 351 110  
Fax: +34 948 351 130  
info@meler.eu - [www.meler.eu](http://www.meler.eu)

A Focke Group Company



Management System  
ISO 9001:2008  
www.tuv.com  
ID: 9105030748

