

# **DISCONTINUOUS NUCLEATION UNIT**

Presentation of the concept and operating modes







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INFORMATIONS LÉGALES

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Friday from 8am to 18pm. Outside these hours thank you for contacting us by e-mail, we will

Our offices are open Monday to

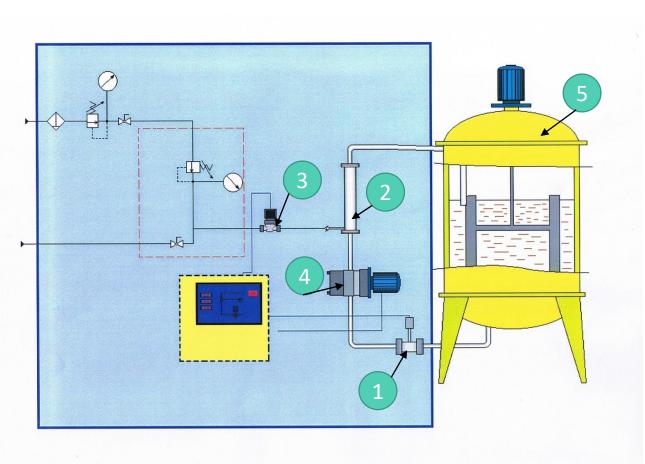
respond quickly.

**USEFUL INFORMATION** 



## **PRINCIPLE**

How it works:



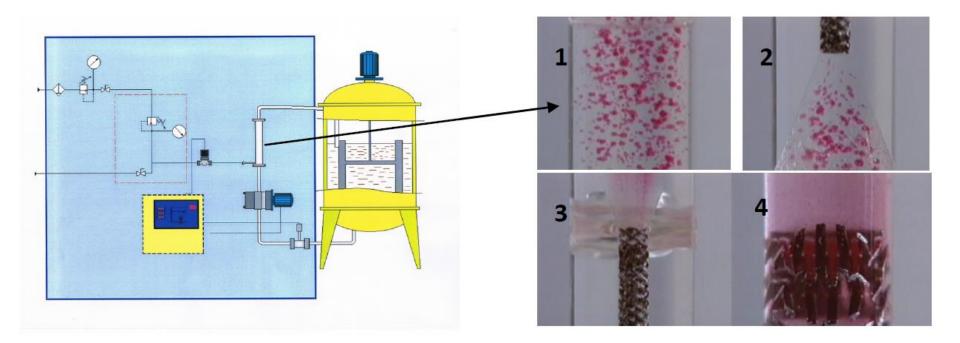
- A set of static mixers (2) allows a homogeneous dissolution of the gas in the polyol.
- A densimeter (1) continuously measures the density of the Polyol
- A flow meter valve (3) adjusts the amount of gas required depending on the density measured.
- The polyol is taken from the working tank (5), transferred to the mixers by means of a gear pump (4) and returned to the tank.
- The nucleation rate is constantly controlled and adjusted by an automaton



## **MIXING**

A series of 3 static mixers constitute the mixer:

- A traditional mixer
- A disperser to emulsify the mixture
- A homogenizer mixer





## **ADVANTAGES**

- The nucleator can easily adapt to an existing installation.
- It is completely autonomous
- It allows nucleation up to 30%
- It can nucleate dry air, nitrogen or CO2









#### CARACTERISTICS

- Flow rate: 26 l / min
- Viscosity: Polyol 100-2500 mPas at 20 ° C
- Air supply: 10 bar minimum-60 bar maximum
- Power supply: 400 V-3 phase-50 Hz-20 A
- Control voltage: 24 V
- Dimensions: approx. L 1570 x W 900 x H 1600
- Night mode, Weekend and production
- Multi language touch screen