

HENNECKE PRESS RELEASE

AEROMAT ST – the „little brother“ of the AEROMAT GU

The patented gas-loading device AEROMAT GU has long proven itself in the processing of compact PU systems and the production of rigid integral-skin foam. Hennecke has developed the new AEROMAT ST particularly for low to medium gas-loading degrees up to 25 percent.

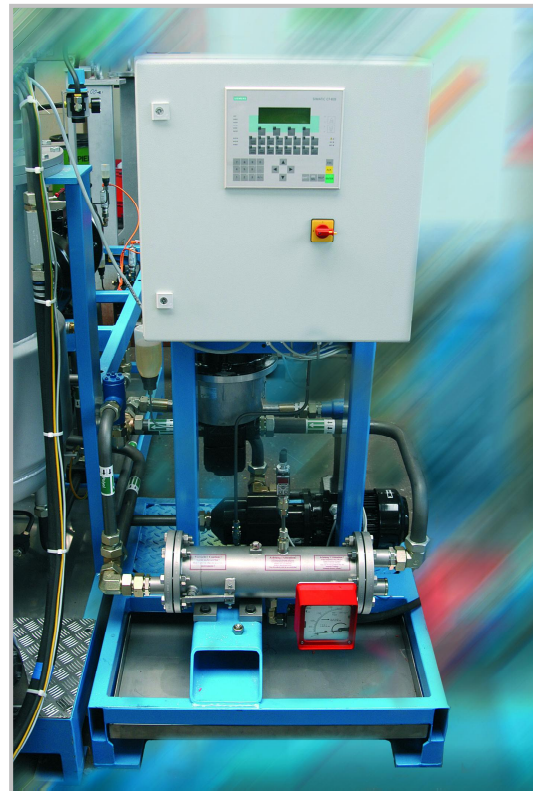
For specific PU applications gas-loading of the polyol component is a must. When producing rigid integral-skin foams this process serves to create the extremely high number of gas nuclei required for the ultra-fine cell structure of these foams. Gas-loading rates around 20 percent are common in these applications.

Gas-loading is a widely used process as well in processing compact PU systems such as RIM and RRIM. During the chemical reaction it produces a dwell pressure in the mould, thereby preventing the formation of sink marks and considerably reducing trimming and finishing requirements. In these particular applications the gas-loading rates are significantly higher, ranging between 50 and 70 percent – a clear case for the AEROMAT GU.

With its AEROMAT ST Hennecke now offers this well-proven technology specially for low and medium gas-loading rates up to 25 percent in combination with a standard 4 bar machine tank.

Thanks to the modular design, the stand-alone unit can be operated in by-pass mode or as a system with integrated pre-pump. In the latter case, the required admission pressure on the polyol metering pump is created by the AEROMAT feed pump, rendering the installation of an additional feed pump unnecessary.

All assemblies are mounted on a separate base frame with an integrated, removable collecting basin, which allows for quick start-up and good accessibility of all modules for cleaning and maintenance purposes.



The frequency-controlled circulating pump can be flexibly adapted to the operating conditions. The output of the circulating pump and the metering machine are adjusted to each other.

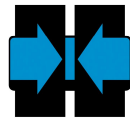
As can be expected from Hennecke technology, it goes without saying that the AEROMAT ST – just like the AEROMAT GU – has been fitted with high-quality assembly parts and offers easy and convenient operation. All the operator has to do is enter the density of the unloaded component and the desired gas-loading rate – everything else is done automatically by the control system.

The AEROMAT ST process yields ultra-fine gas dispersion. Continuous density measurement ensures highly accurate control. The AEROMAT ST is suited for easy adaption to different tanks.

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