

High-pressure autoclave with full-length inspection window

At last – the «sonar» has arrived! Premex reactor ag now presents a high-pressure autoclave with a full-length inspection window – and it can cope with pressures up to an incredible 150 bar! Now you can also follow the reaction visually as it proceeds. You will not only be convinced by this product's technical details, but also by its extremely compact design.

Basic information

Nominal volume	300 ml
Excess operating pressure	150 bar
Operating temperature	200°C
Material	Mat. no. 1.4435 (AISI 316L)

Dimensions

Internal vessel diameter, 60x145 mm; total height including magnetic stirrer, approx. 600 mm

Autoclave lock

Jaw lock (fast closing system)

Autoclave seal

Viton O-ring

Magnetic stirrer drive

Type Mini 100.4, magnetic coupling torque: 50 Ncm, electrical motor with nominal power 40 Watt, 3x230/400 V, 50 Hz.

Fittings on the MINI 100

1. Whitey gas supply valve
2. Manometer 0–160 bar, ø 40 mm

Fittings on the autoclave cover

1. Temperature sensor, Pt 100 (1x)
2. Sapphire window to light the vessel
3. Bore hole for pressure release with Whitey valve
4. Nupro spring pressure safety valve
5. Bore hole with plug

Base outlet

Whitey ball valve, type SS-43XS6MM

Base form

Conical outlet, 10°C. A frit can be fitted.

Inspection window

Inspection window running the whole length of the cylinder, inner width 10 mm, made of dual glass.

Stirrers

Gas injection stirrer or other stirrers.

Heating / cooling

Double shell heating, welded structure, insulated all round and clad with a CN shell. Internal guide plates are used to direct the oil. The outer shell of the autoclave vessel has two connectors for forward/reverse heat transfer oil flow. Alternatively, premex reactor ag offers the «sonar» autoclave with electrical heating.

Structural design

Three adjustable supporting legs on the base plate of the autoclave provide sufficient floor clearance for the outlet valve to be operated.

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