

## Pressure pulsation test

Typ: PPM 278-00

### Main Features:

- High dynamic features
- Test pressure range -0.8 to +3.5 bars
- fully air-conditioned test chamber

### Function:

The pressure pulsation test bench allows pressure alternation to be performed in the overpressure-overpressure, overpressure-vacuum and vacuum-vacuum range. The alternating pressure hysteresis is variably adjustable and can take place under a variety of climate conditions. Test temperatures of -72°C to +180°C and an adjustable air humidity up to 98% can be set in the climatic chamber, which also serves as a test chamber. Three test connections are located on each side in the test chamber and can be individually shut off via separate valves. An automated leak test can detect a leak in each individual test piece every X cycles and exclude them from the test circuit.

### Structure:

The centrally placed climatic chamber constitutes the central points of the machine. On the left side of the machine are the overpressure components, consisting of an adsorption dryer with a compressed air tank and two overpressure accumulators for test pressure generation. On the left side of the machine are the vacuum components. Vacuum pump, vacuum reservoir and two underpressure tanks. Also located on the right side are the machine controls with a 19" touch screen, alternatively with a keyboard and a mouse.

For transport, the machine basically consists of six modules which can be joined into a single unit at the installation site. Pressure and utility lines are equipped with quick connectors on the modules for easy disassembly.



### Technical Specifications:

Test pressure	-0.8 to 3.5 bars
Test frequency	0.5 Hz
Test volume	15 dm <sup>3</sup>
Temperature testing	-72°C to +180°C
Climate testing	+10°C to 95°C
Humidity range	10 % RH to 98 % RH
Dryer compressed air dewpoint	-40°C
Test space dimensions	1,100 mm wide 2,150 mm deep 950 mm high
Machine dimensions	4,000 mm wide 3,200 mm deep 3,600 mm high
Total weight	approx. 4200 kg
Connection values	Pressurised air: 5000 NI/min Electrical: 20 kW