



**Easy to install,
commission and control**

**Touch screen interface
and Modbus RTU**

**Maintains constant operating
pressure in the system**

TTM GeniX® GE18

Pressurization unit with control and monitoring

TTM GeniX® is an easy to install and easy to use pressurization unit for heating systems, designed to maintain a constant operating pressure in the system. The unit is designed for permanent installation and is ready to connect.

The TTM GeniX® consists of a digital control unit with touch, sensors and alarm, supplied with an open robust polyethylene expansion vessel with a stainless steel IP rated pressure maintenance pump. The automation for control, regulation and monitoring are connected via Modbus RTU.

TTM GeniX® GE18 is available in various sizes, are easy to place and can be adapted to both small and large heating systems.

Installation benefits:

- Easy to install, put into operation and operate
- Can be installed in both smaller and larger heating systems
- Easy to control with an intuitive touch screen for operation and monitoring
- Low weight – easy to transport
- Divisible construction enables flexible placing
- The expansion vessel is available in various sizes.

Operational benefits:

- Keeps the operation pressure constant in the entire heating system
- Sensors with alarm connected to deviations, pump, fluid level
- Noise level under 70db
- Minimal maintenance is required
- The automation for control, regulation and monitoring is connected via Modbus-RTU.

GeniX®
Expansion Vessel

TTM Energiprodukter AB

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Intuitive touch screen

The intuitive 3.5" color touch screen makes the TTM GeniX® GE18 easy to use.

Easy to install

TTM GeniX® is easy to install and place. Connection is made directly on the heating system's return line (R25) with 220 V electrical socket for plug.

Automation for simplified control

The unit can be integrated to the BMS through Modbus-RTU for remote operation and monitoring. Wireless remote connection is available as an option.

Robust and easy-to-place expansion vessel

The pressure holding vessels are made of robust and recyclable polyethylene plastic, which means low weight, high corrosion resistance and provides minimal environmental footprint. The expansion vessels can be connected in series and combined to the desired volume.



Environmental assessment according to SundaHus



Function

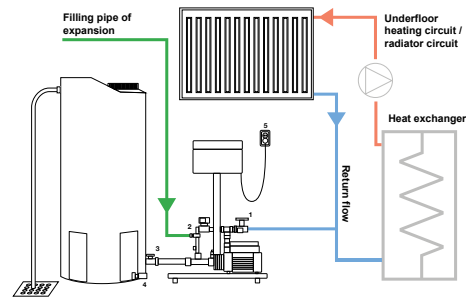
TTM GeniX®

The TTM GeniX® should be installed and used by authorized operating personnel. The pressurization unit is placed in a heated room and connected to the heating system return line (connector G25). Start-up is initiated by connecting the plug to an earthed wall socket (230V, 10A).

The system pressure sensor controls the pressure maintenance pump during filling and a solenoid valve regulates emptying. Pressure maintenance pump location close to the suction side helps to minimise the risk of negative pressure build-up. In this way, a constant operating pressure is maintained in the heating system at both heating and cooling

The pressure sensor in the water-filled expansion vessel displays the current level on the display. If the level in the vessel becomes too low, this is shown on the display with an alarm indication and via alarm relay for external indication.

TTM GeniX® is designed for permanent installation in both new and existing heating systems.

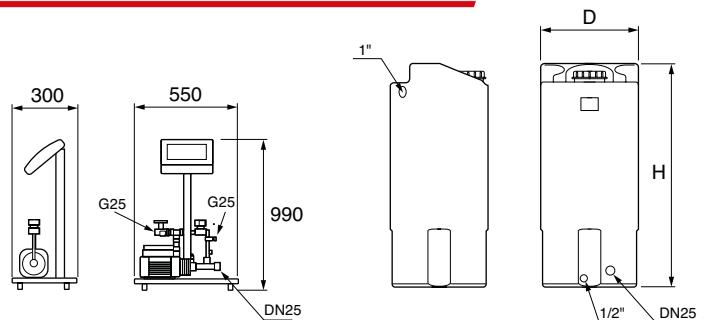


1. Expansion line (Thread 25 mm)
2. Filling pipe (Thread 15 mm)
3. Double shut-off knobs
4. Level sensor
5. Power cable with plug

Technical data

TTM GeniX®

Model	GE18
Media temperature °C	+5 – +70
Ambient temp. °C	+10 – +40
Pressure class PN	10
Allowed liquids	Tap water
Connection dimension	1"
Electrical data / Ext. fuse	1~230 V, 50 Hz / 10 A
Rated power	0,5 kW
Voltage	1~230 V, 50 Hz (plug)
Rated current	3,1 – 2,8 A
Protection class IP	55
Noise level dB	< 70
Modbus RTU	Yes



Models	GE18 110L/4	GE18 200L/4	GE18 300L/4	GE18 500L/4	GE18 110L/6	GE18 200L/6	GE18 300L/6	GE18 500L/6
Article no.	514046	514053	514060	514077	514091	514107	514114	514121
Diameter D	Ø mm 450	520	650	750	450	520	650	750
Height H	mm 1080	1190	1135	1385	1080	1190	1135	1385
Vessel volume	L 110	200	300	500	110	200	300	500
Operating pressure	Bar 3.0	3.0	3.0	3.0	6.0	6.0	6.0	6.0
Weight	kg 34	34	38	44	35	35	39	45

Options:

TTM flexible hose. Steel coiled Ø 1" hose fitted with R25 connections with internally threaded barrel nut at each end.

Length: 1,5 m. Art.no: 503 606



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