

Easy to install, commission and control

Reduces operating costs

Increases energy efficiency in heating and cooling systems

TTM NoXygen® C625

Removes harmful gases in hydronic system

TTM NoXygen® C625 is part of a series of fully automatic and easy-to-install vacuum deaerators that can be connected for control, regulation and monitoring via Modbus RTU. The unit is designed for permanent operation in multi-family residential buildings for treatment of fluids in cooling and heating systems up to 25 m³. This corresponds to approximately 200 apartments. A system fluid with a high gas content causes energy losses, corrosion and noise problems.

TTM NoXygen® keeps the system free from aggressive gases, prevents and eliminates gas-related problems that would otherwise impair the system fluid's ability to absorb and release energy.

TTM NoXygen® is environmentally assessed and can be installed in both existing and new systems.

CE EMC LVD

TTM NoXygen® may be installed in disturbance sensitive environments such as hospitals, offices and industries.

Installation advantages

- Easy to install, commission and control
- Rapid degassing function
- Can be installed in both small and large systems

Operational advantages

- Reduces operating costs
- Prevents corrosion of system components
- Eliminates the need to bleed radiators
- Increases energy efficiency in heating and cooling systems
- Minimises noise problems in heating and cooling systems
- Stable and straightforward balancing
- Removes dissolved and free gases from the system fluid
- The automation for control, regulation and monitoring is connected via Modbus-RTU, RS485

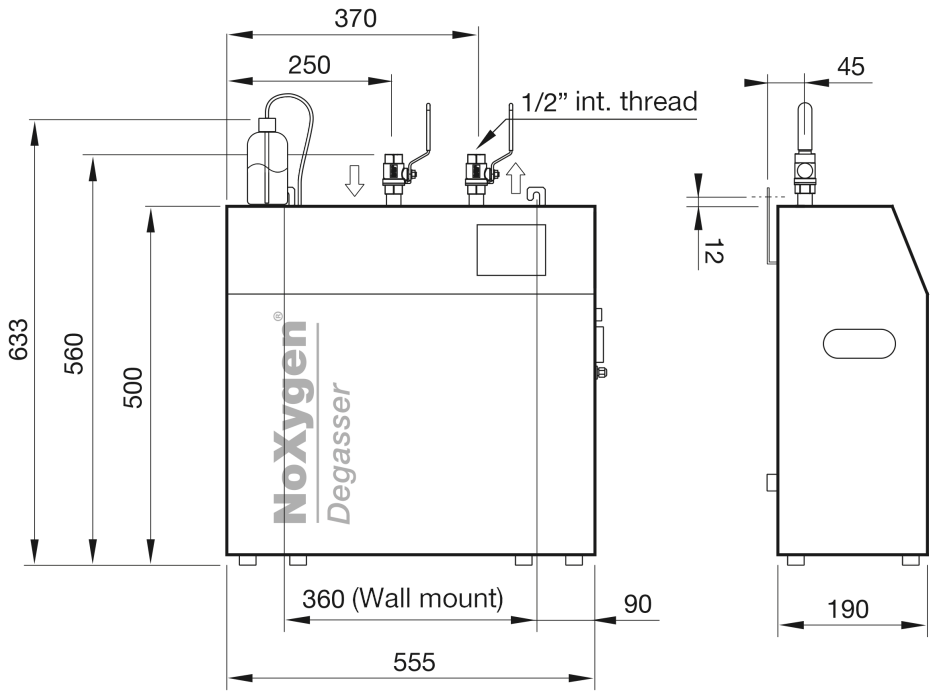
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NoXygen® Degasser

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Model	NoXygen® C625 Modbus
Article number	519157
Connection to DUC	Modbus RTU (RS485)
Maximum load	-
Ambient temperature (°C)	0 – +40°C
Capacity, degassed fluid	Min. 100 l/h
Dims. (WxHxD) mm	555 × 560 × 190
Electrical data / Voltage	1~230 V, 50 Hz, plug
Energy consumption	25 kWh/year*
Internal Fuse (A)	10 A
Medium temperature (°C)	0 – +60 °C
Noise level (dB)	58 dB
Operating range, system pressure in connection point	+0.8 – +2.5 bar
Permitted fluids	Water and deionised water, Kilfrost max 35 vol%
Pressure class (PN)	PN10
Rated current (A)	3.0 A
Rated power (kW)	0.5 kW
Weight	19 kg
Connection dimension	R15 (G½)
Protection class (IP)	IP44
Vacuum capacity during degassing	Down to -0.9 Bar

*) Operation with 30 days of rapid deaeration results in an energy consumption of 60–75 kWh during the first year, depending on system pressure.



Operating principle

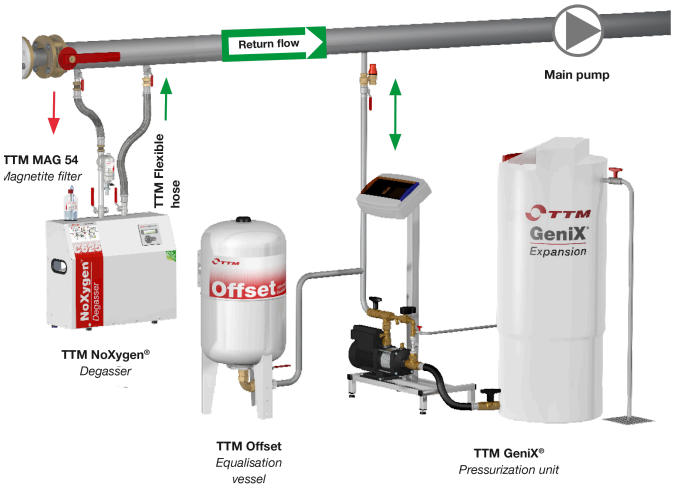
TTM NoXygen® C625

TTM NoXygen® removes dissolved and free gases in heating, heat recovery or cooling systems by reducing the system pressure down to -0.9 bar. Dissolved gases in the system fluid are released under the significant pressure reduction and form free gas bubbles, which can then be vented off. Deaeration takes place entirely independently of the existing system pressure or fluid temperature.

When TTM NoXygen® is installed for the first time, the unit automatically starts in rapid deaeration mode. This means that TTM NoXygen® quickly reduces the gas content in the system and then, once the gases have been removed, transitions to maintenance deaeration.

The vacuum deaerator is designed for permanent installation to keep the system free from free and dissolved gases over the long term. If the process is stopped, the gas content in the system will gradually increase, as no fluid system is completely diffusion-tight. Should the system ever need to be drained of system fluid, the new system fluid is effectively deaerated through the unit's rapid deaeration mode.

TTM NoXygen® C625 is suitable for system volumes from 0.5 – 25 m³. In system volumes exceeding 25 m³ or where faster deaeration is desired, TTM NoXygen® units can be installed in series in the return flow of the common header.



Pack of 2 hoses R15 (G½)

Compatible with NoXygen C625, C650, F650 and FiltrX C125. Two connection nipples with gaskets are included with each hose.

Article number: 517726

MAG 54

Installation of TTM MAG 54 together with TTM NoXygen® is recommended if it is known that there is magnetite or other particles in the system fluid.

Article number: 514 428

Expansion vessel 60L PN10

Expansion vessel used together with NoXygen® negative-pressure deaerator in systems sensitive to pressure variations. NOTE! Does NOT fit with Noxygen® C6100. See TTM Offset 200 for more information.

Article number: 518853

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