



Easy to install,
commission and control

Reduces operating costs

Increases energy efficiency
in heating & cooling systems

TTM NoXygen® C6100

Designed for high system pressures (4 to 10 bar)

TTM NoXygen® C6100 is part of a series of fully automatic and easy-to-install vacuum deaerators for treatment of fluids in cooling and heating systems, and can be connected for control, regulation and monitoring via Modbus RTU. Energy losses, corrosion and noise problems are primarily caused by excessive gas content in the system fluid.

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.

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 on 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 gases from the system fluid
- Can be connected to BMS via MODBUS RTU over RS485.



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

NoXygen®
Degasser

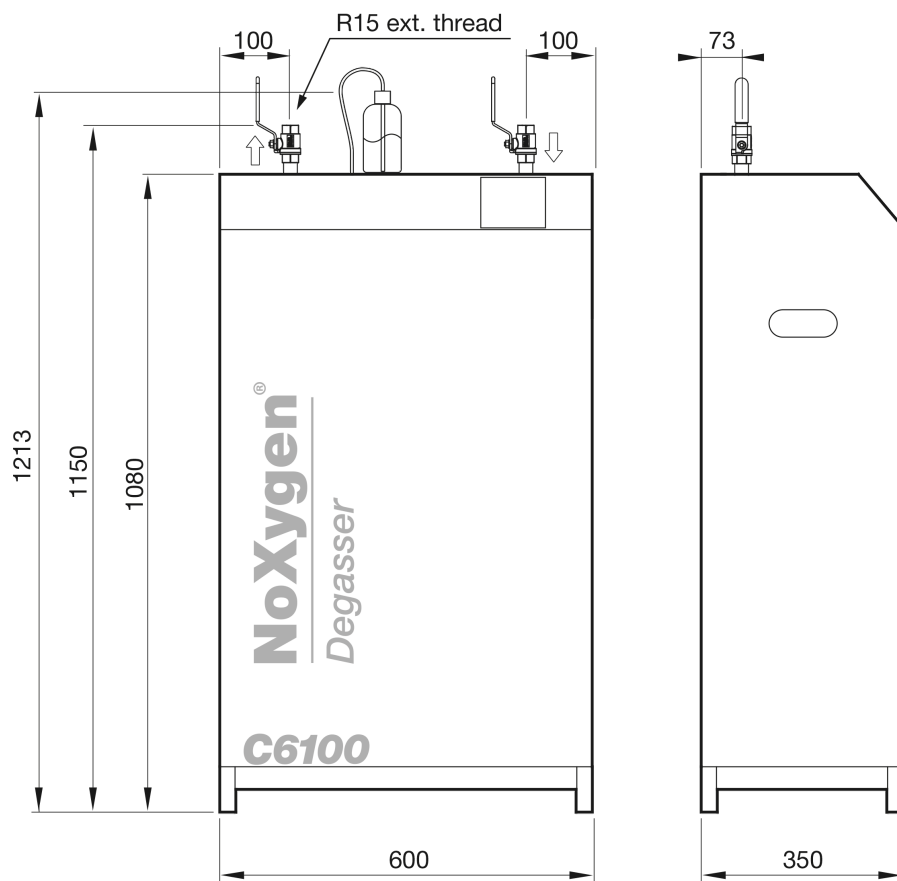
TTM Energiprodukter AB

Slöjdaregatan 1, 393 66 Kalmar | Tel. 0480-41 77 40
info@ttmenergi.se | www.ttmenergi.se

Model	NoXygen® C6100 Modbus
Article number	519461
Connection to DUC	Modbus RTU (RS485)
Maximum load	-
Ambient temperature (°C)	0 – +40°C
Capacity, degassed fluid	Min. 250 l/h
Dims. (WxHxD) mm	600 × 1150 × 350
Electrical data / Voltage	3 × 400V, 50 Hz
Energy consumption	60 – 80 kWh/year **
Internal Fuse (A)	10A
Medium temperature (°C)	0 – +70 °C
Noise level (dB)	61 dB
Operating range, system pressure in connection point	Min 4 bar, Max 10 bar
Permitted fluids	Water, deionized water and ethanol less than 30 vol%
Pressure class (PN)	PN16
Rated current (A)	3.14 A
Rated power (kW)	1.5 kW
Weight	60 kg

*) When degassing ethanol, ensure that the room is well ventilated.

**) Operation with 30 days of rapid degeassing results in an energy consumption of 220–280 kWh during the first year, depending on system pressure.



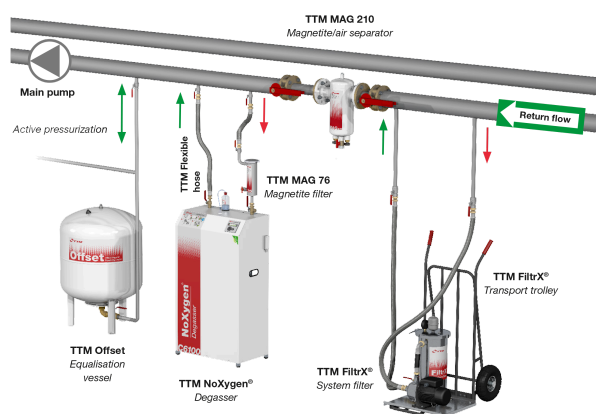
Operating principle

TTM NoXygen® C6100

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

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 transitions to maintenance deaeration once the gases have been removed.

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



Pack of 2 hoses R15 (G½) 20 bar

Compatible with NoXygen C6100. Two connection nipples with gaskets are included with each hose.

Article number: 519775

MAG 76

The recommendation is to install TTM MAG 76 together with TTM NoXygen® if it is known that magnetite or other particles are present in the system fluid.

Article number: 506188

Equalisation vessel 200L PN16

Expansion vessel used together with NoXygen® negative-pressure deaerator in systems sensitive to pressure variations.

Article number: 520429