



Easy to install,  
commission and control

Lowers  
operating costs

Increases energy efficiency  
in heating and cooling

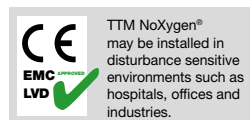
# TTM NoXygen® C650

## Removes harmful gases in hydronic system

TTM NoXygen® C650 is a fully automatic vacuum degasser for heating and cooling systems. Energy losses, corrosion and sound problems in the systems are mainly caused by a high gasconcentration in the system fluid.

TTM NoXygen® C650 prevents above stated problems by using an effective method that keeps the system free of gases that gives higher energy efficiency, lower maintenance cost and longer lifetime of the system components. TTM NoXygen® can be installed in both existing and new systems.

TTM NoXygen® is environmentally assessed according to a Swedish Standard.



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

### Installation benefits:

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

### Operational benefits:

- Reduces operating costs
- Prevents corrosion of system components
- No need to vent radiators
- Increases energy efficiency of heating and cooling systems
- Minimises noise problems in heating and cooling systems
- Stable and easy adjustment
- Removes gases from the system fluid
- Prevents degradation of refrigerant liquids.

**NoXygen®**  
*Degasser*

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## Operating principle

TTM NoXygen® takes out and treats a partial stream that is pumped from the main fluid conduit and processed with a strong underpressure in the degasser unit down to -0.9 bars. The gases are released by the pressure reduction and are led out through a gas-release valve. The fluid is then returned to the main conduit.

TTM NoXygen® is very easy to install, commission and operate. Operation is monitored by a control unit where 2 pushes of a button is enough to start the operating mode.

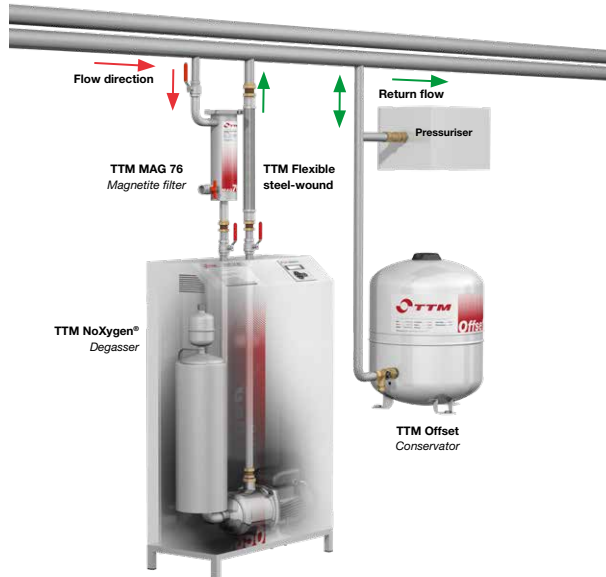
## TTM NoXygen® C650

TTM NoXygen® starts in manual operation and after 30 days it automatically switch to a timer mode.

There is an option to select manual operation between 1-30 days before. TTM NoXygen® switches over to timer operation. Time operation can be selected using three different starting times: 9:00 am, 1:00 pm or 7:00 pm. In most cases, one hour of operation per day is fully sufficient to keep the gas concentration in the fluid at a low level. Timer operation can be chosen for operating times of 1-8 hours.

## Options

## TTM NoXygen® C650



### TTM MAG 76

- Magnetite trap/particle filter. **Art. no: 506188**

### TTM Flexible steel-wound

- Flexible steel-wound connection hose. 2 st 1,5 m, connection dim. DN15. **Art. no: 505440**

### TTM Offset

- TTM Offset prevents the pump expansion system turning on and off and generating noise in the system on the premises. **Art. no: 508410**

## Technical data

## TTM NoXygen® C650

System pressure standard, total pressure at the connection point, max.	5.0 bar
Media temperature	0 – +70 °C
Ambient temperature	0 – +40 °C
Capacity, degassed fluid	min. 135 l/h
Vacuum capacity during degassing	down to -0.9
Pressure class	PN 10
Media	Water and deionised water Ethanol* less than 30 vol% Kilfrost max 30 vol%
Connection dimension	DN15 – G1/2"
Electrical data External fuse	1~230 V, 50 Hz 10 A
Nominal power Voltage Nominal current Anslutning till DUC Alarm output, max load:	0,75 kW 1~230 V, 50 Hz 5.0 A Switching potential-free contact 24 V, 1.0 A
Class of protection	IP44
Noise Level	61 dB
Weight	26 kg
Art. no.	509554

\*) When degassing ethanol, make sure the room is well ventilated.

