

TELECOMMUNICATIONS

NTG

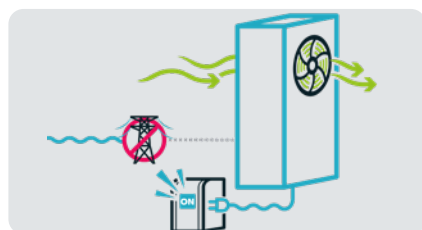
INDOOR MONOBLOC UNIT WITH MODULATING COMPRESSORS FOR SHELTERS DESIGNED FOR IT EQUIPMENT - DISPLACEMENT VERSION

7-9 kW



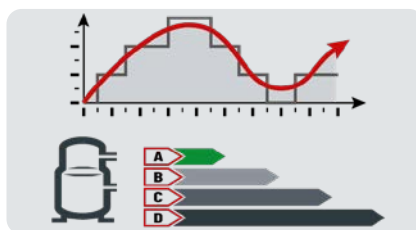
Our NTG series conditioners with inverter compressor are indoor monobloc units designed for small equipment rooms and telecom shelters. Their special configuration with **displacement air delivery** makes these units ideal **for spaces without double flooring**. Thanks to the various configurations available, the range is **very versatile and thus suited to many system set-ups**; additionally, the **accurate thermodynamic and aeraulic distribution design enhances energy efficiency**.

- Refrigerant R410A
- Version available with dual power supply for emergencies: 230/400V network and 24/48VDC backup supply
- Electric lamination valve with optional electronic control
- Condensing side fans available with EC motor
- Evaporating coils with hydrophilic coating supplied as standard equipment
- Control panel in separate enclosure
- Electric heating function (on request)
- Fans on evaporating side with standard EC motor
- Temperature control through heating and post-heating systems with electric heaters (on request)



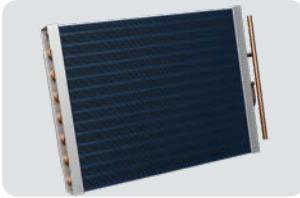
Maximised Redundancy

If **dual power supply** (mains + DC UPS) is provided, unit control and ventilation always remain active, **even in the event of a mains failure**. If the unit is configured as a Free-Cooling version (upon request), the damper will continue to operate, too, and this guarantees **operational continuity for the conditioning system**.



Efficiency and precision

As the thermal load changes, the integrated microprocessor allows for combined modulation of the air flow - via standard EC fans and cooling capacity control, by adjusting the speed of the DC inverter compressors supplied as standard. This ensures **accurate adjustment of environmental hygrothermal parameters and maximised energy savings at partial loads**.



Shelter safety

All models in the NTG range feature evaporating coils with hydrophilic coating. This special coating - together with adequate adjustment of air through-flow speeds - **helps condensate collection during the dehumidification process, preventing any dripping on the inside and outside of the unit.**



Simple and fast installation

The monobloc construction ensures **fast installation** with no need to provide on-site refrigeration connecting piping. Thanks to the **Plug&Play** configuration, wall mounting and electrical connection of the unit are **considerably simplified**. The unit has been designed to be installed directly on the door or on the wall of the shelter. The special internal design **facilitates front access to the components, even with the unit running**. This aspect, combined with full extractability of filters and Free-Cooling damper (if any), **facilitates routine maintenance operations**.

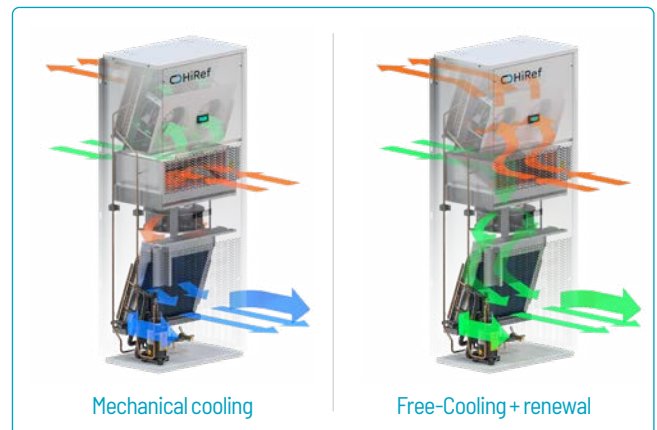
Unit suitable for any kind of climate and environment

Different configurations and layouts are available, according to the setting in which the unit is to be installed:

- In the case of extremely cold climates (down to -40°C) **a version for low external temperatures is available**. In this option, the unit is equipped with special condensing fans to be able to operate at low temperatures, an electrically heated switchboard, double compressor casing heaters, and condenser coil flooding system.
- In the case of **exposure to aggressive atmospheric agents** such as sand, an epoxy powder painted condensing coil is available.

Maximised energy saving with direct Free-Cooling

The units can, on request, be equipped with a **direct Free-Cooling** module. This system, which can also be retrofitted on site to a unit already in operation, reduces compressor work requirements and, under full Free-Cooling conditions, allows the compressor to be turned off, **with major benefits for the system's PUE (Power Usage Effectiveness).**



NTG		0060		0085	
R410A - Indoor air 27°C - 40% / Outdoor air 35°C					
Cooling capacity	kW	6.6		8.3	
Total absorbed power	kW	2.5		3.4	
EER		3.45		3.03	
SHR		0.9		0.89	
R410A - Indoor air 30°C - 35% / Outdoor air 35°C					
Cooling capacity	kW	6.9		8.6	
Total absorbed power	kW	2.5		3.4	
EER		3.54		3.09	
SHR		0.95		0.95	
Rated air flow	m³/h	1500		1800	
Power supply	V/ph/Hz			230/1/50	
Dimensions [LxHxD]	mm	730x1640x400		930x1640x400	

Also available with 60 Hz power supply.