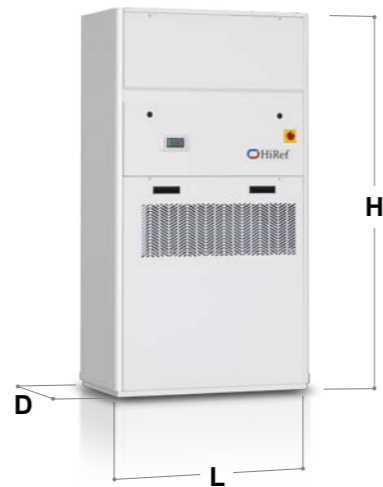


NTU

INDOOR MONOBLOC UNITS FOR SHELTERS WITH INVERTER DRIVEN BLDC COMPRESSOR - UPFLOW VERSION



		0045	0085	0110
Inlet air 27°C - 40% r.h.; Outside air temperature 35°C				
Total cooling capacity	kW	5.2	8.8	12.0
SHR	-	1.0	0.9	1.0
Refrigeration cycle EER	-	4.1	3.2	3.2
Total absorbed power	kW	1.5	3.2	4.7
Inlet air 30°C - 35% r.h.; Outside air temperature 35°C				
Total cooling capacity	kW	5.6	9.2	12.7
SHR	-	1.0	0.9	1.0
Refrigeration cycle EER	-	4.5	3.4	3.3
Total absorbed power	kW	1.5	3.2	4.8
Evaporator air flow	m ³ /h	1450	1700	3020
Condenser air flow	m ³ /h	2000	2000	3750
Power supply	V/ph/Hz	230 / 1 / 50		
Dimensions (L x H x D)	mm	800x1850x550	600x1850x550	1000x1850x550

Also available with 60 Hz power supply

ITALIAN
COOLING
SOLUTIONS

HiRef

INDOOR MONOBLOC UNITS FOR SHELTERS WITH INVERTER DRIVEN BLDC COMPRESSOR - UPFLOW VERSION

NTU



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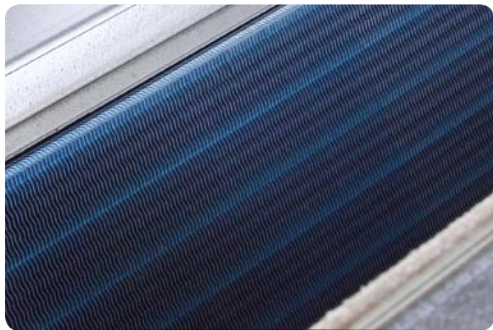
5 - 13 kW



NTU

INDOOR MONOBLOC UNITS FOR TECHNOLOGICAL EQUIPMENT SHELTERS - UPFLOW VERSION

● SHELTER SAFETY

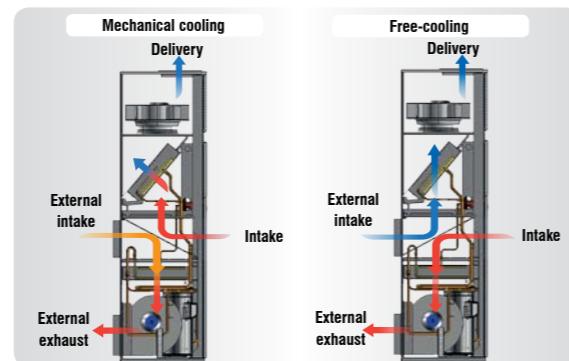


All models in the NTU range feature evaporating coils with hydrophilic coating. This special coating - together with an adequate adjustment of air through-flow speeds - helps condensate collection during the dehumidification process, avoiding dripping on the inside and outside of the unit.

● SIMPLE & FAST INSTALLATION

The monobloc construction ensures fast installation as no connecting refrigeration piping needs on-site laying. Thanks to the Plug & Play configuration, wall mounting and electrical connection of the unit are considerably simplified. NTU's internal design facilitates frontal access to components even with the units running. This aspect, combined with the fully removable filters and Free-Cooling damper, is particularly advantageous for routine maintenance operations.

● MAXIMISED ENERGY SAVING WITH DIRECT FREE-COOLING



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

● MAXIMISED REDUNDANCY



Where coupled with DUAL power supply (mains+DC power system), the operating mode according to the Free-Cooling system maintains the environmental thermal conditions unaltered even in the event of a power failure. This will ensure uninterrupted operation of the conditioning system.

Our NTU series conditioners are indoor monobloc units, with **inverter driven BLDC compressor**, designed for small equipment rooms and telecom shelters. The special configuration with downward air delivery makes these units ideal for spaces with double flooring. Thanks to the various configurations available, the range is very versatile and thus suited to many system set-ups, plus the accurate thermodynamic and air distribution design enhances energy efficiency.

● UNIT SUITABLE FOR ANY KIND OF CLIMATE AND ENVIRONMENT

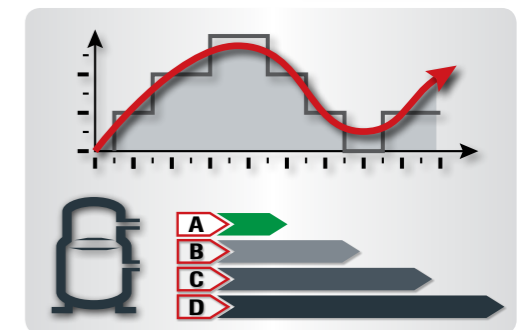
Depending on the environment in which the unit is installed, different outfitting layouts and configurations are available.

- In the case of extremely cold climates (down to -40 °C), a version for low outdoor temperatures is available, equipped with silicone cables, Free-Cooling damper with own servomotor and heated with electric heating elements, dual casing heater and electrically heated control panel.
- For aggressive environments, dedicated metalwork can be ordered with 160 µm double paint coating or made of AISI 316 stainless steel alloy.



● EFFICIENCY AND PRECISION

The integrated microprocessor allows, as the thermal load changes, the combined modulation of the air flow rate through control of the cooling capacity through the frequency management of the DC inverter compressors (standard feature). This allows not only a very accurate control of the ambient thermohygrometric parameters, but also the highest energy savings at partial loads.



- » R410A refrigerant
- » Available version with dual power supply for emergencies: mains 230/400 V and emergency 24/48 VDC
- » Electronically controlled optional expansion valve
- » Evaporating and condensing side fans available with EC motor
- » Control panel in separate enclosure
- » Machine on-board control microprocessor
- » Epoxy powder painted structural metalwork supplied standard