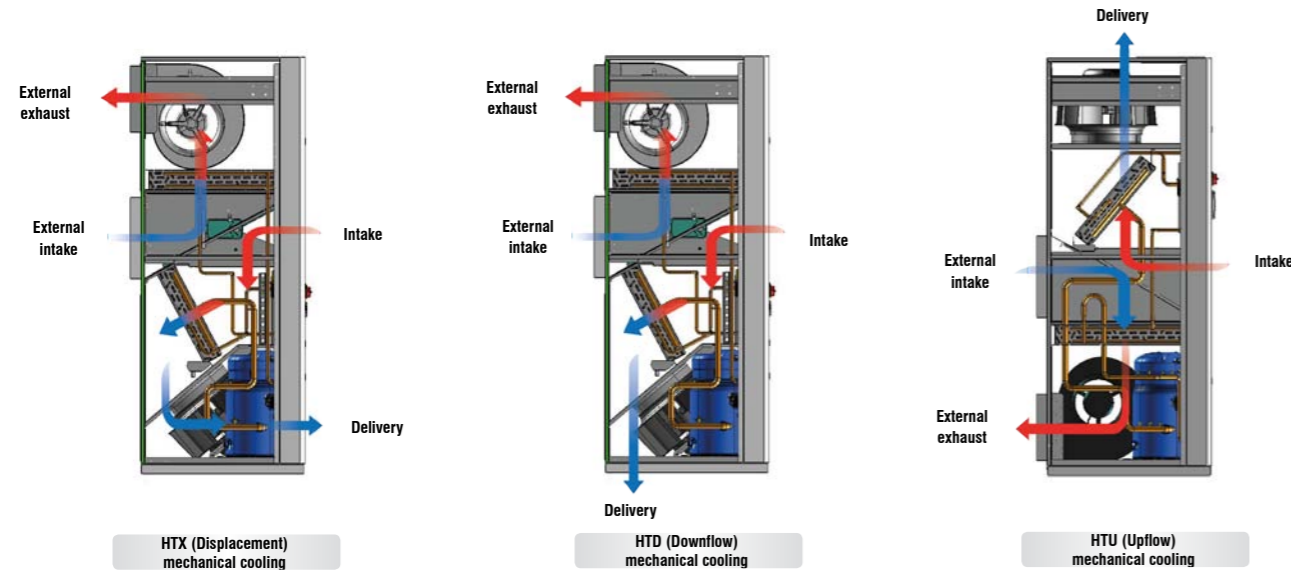


# HTU-D-X

## INDOOR MONOBLOC UNITS FOR SHELTERS DESIGNED FOR IT EQUIPMENT



		00451	00561	00731	00901	01051	01201	01501	01701	01801	02001	02201	02501
<b>Inlet air 27°C - 40% r.h.; Outside air 35°C</b>													
Total cooling capacity	kW	4.4	6.0	7.0	10.7	10.9	12.7	15.0	16.4	18.4	22.1	24.9	27.6
SHR	-	1.0	0.9	1.0	1.0	1.0	0.9	1.0	0.9	1.0	1.0	1.0	1.0
Refrigeration cycle EER	-	4.2	3.5	3.3	3.3	3.7	2.8	3.4	2.9	4.7	3.8	3.8	3.5
Total absorbed power	kW	1.9	2.5	3.2	4.8	4.4	6.0	6.4	7.6	7.1	9.0	10.0	11.4
<b>Inlet air 30°C - 35% r.h.; Outside air 35°C</b>													
Total cooling capacity	kW	4.7	6.0	7.4	11.4	11.6	13.3	15.9	17.2	19.6	23.5	26.3	28.9
SHR	-	1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Refrigeration cycle EER	-	4.5	3.6	3.4	3.4	3.9	2.9	3.5	3.0	4.4	3.4	3.9	3.6
Total absorbed power	kW	1.9	2.5	3.2	4.8	4.5	6.0	6.5	7.7	7.1	9.1	10.0	11.4
Evaporator air flow	m <sup>3</sup> /h	1450	1450	2100	3020	3020	3020	3800	3800	5500	5500	6500	6500
Condenser air flow	m <sup>3</sup> /h	2250	2250	2250	3750	3750	3750	4700	4700	8800	8800	8800	8800
Power supply	V/ph/Hz	230 / 1 / 50					400 / 3+N / 50						
Dimensions (L x H x D)	mm	800x1850x550			1000x1850x550			1160x1850x550			1500x2050x800		

Also available with 60 Hz power supply

ITALIAN  
COOLING  
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HiRef

## INDOOR MONOBLOC UNITS FOR SHELTERS DESIGNED FOR IT EQUIPMENT

# HTU-D-X



HiRef

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HF65001022 Rev.A

4 - 29 kW

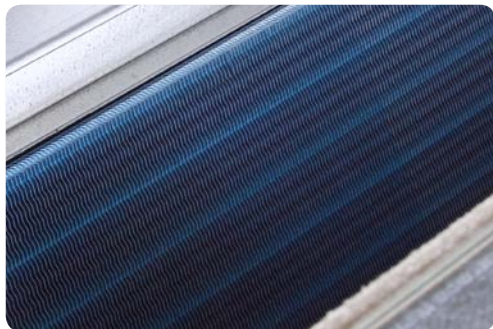




# HTU-D-X

## INDOOR MONOBLOC UNITS FOR SHELTERS DESIGNED FOR IT EQUIPMENT

### ● SHELTER SAFETY



All models in the monobloc interior 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, avoiding dripping on the inside and outside of the unit.

### ● SIMPLE & FAST INSTALLATION



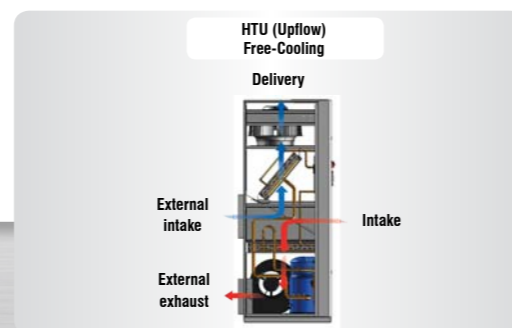
The **monobloc** construction ensures fast installation with no on-site refrigeration piping requirements. Thanks to the **Plug & Play** configuration, wall mounting and electrical connection of the unit are considerably simplified: rain shields to be installed on the external wall are available on request.

### ● 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 mains power failure. This will ensure **uninterrupted operation** of the IT equipment.

### ● 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 (partial Free-Cooling) and, under full Free-Cooling conditions, allows the compressor to be turned off, with major effects on the system **PUE** (*Power Usage Effectiveness*).

Our **HTD**, **HTU** and **HTX** series conditioners are indoor monobloc units designed for equipment rooms and low power telecom shelters. Thanks to their three different air flow configurations, they are suitable for installation in multiple ways. 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:

- The **high temperature** version with R134a refrigerant and specific condensing fan is suitable for applications with outdoor air temperature above 45°C. The unit is capable of starting even in extreme conditions (60°C indoors and 60°C outdoors).
- 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.

### ● EASIER SCHEDULED MAINTENANCE

The unit has been painstakingly designed to ensure 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.



- » R410A refrigerant, also available with R134a and R513a
- » Available version with dual power supply for emergencies: mains 230/400 V and emergency 24/48 VDC
- » Evaporating and condensing side fans with EC motor available on request
- » Available in a modulating version with Brushless DC ("N" series) compressors
- » Stainless steel condensate drain tank
- » Dehumidification function
- » Epoxy powder painted structural metalwork supplied as standard