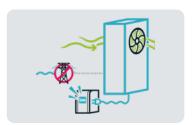
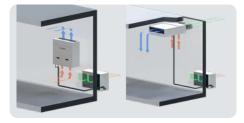


The air conditioners of the HTS series are units specially designed for telephone exchange facilities and shelters. Designed **for ceiling or wall mounting**, they are suitable for air conditioning of control centres with limited internal space or space entirely taken up by technological equipment. The rational layout of the internal components makes **unit installation easy**, also thanks to the many accessories available, making HTS **suitable for different shelter configurations**. The units have been accurately designed in **thermodynamic and aeraulic terms** to ensure **maximum energy efficiency**.



## **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.



## **Maximised shelter internal space**

The units of the HTS series are designed for **ceiling or wall mounting:** in this way, all the available internal space can be **entirely and efficiently used** for IT equipment installation.

- R410A refrigerant, alternatively available with R513A and R134a
- Version available with dual power supply for emergencies: 230/400V network and 24/48VDC backup supply
- Evaporating and condensing side fans available with EC motor
- Standard stainless steel condensate drain pan
- Evaporating coils with hydrophilic coating supplied as standard equipment
- Dehumidification function on request
- Electric lamination valve with optional electronic control
- Epoxy powder painted structural metalwork supplied as standard
- Electric heating function on request
- Temperature control through heating and post-heating systems with electric heaters (on request)







### **Shelter safety**

All models in the split 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.



#### **Easier scheduled maintenance**

The unit has been accurately designed to ensure **frontal access to components.**This aspect, combined with full extractability of filters and Free-Cooling damper (if any), **facilitates routine maintenance operations.** 



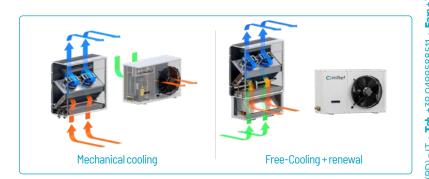
# Maximised energy saving with direct Free-Cooling

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

## Unit suitable for any kind of climate and environment

Different configurations and layouts are available, suitable for the setting in which the unit is to be installed.

- The high temperature version with R134a refrigerant and specific condensing fan is suitable for facilities or systems with outside 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 external temperatures is available. In this option, the outdoor 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 case of exposure to aggressive atmospheric agents such as sand or sunlight, the **outdoor unit metalwork can be ordered with double 160 µm paint finishing layer or in AISI 304 stainless steel alloy.** An epoxy powder painted condensing coil is also available.



HTS		0251	0351	0451	0561	0731	0901	1051	1201	1451	3101	3811
		Air temperature 27°C - Relative humidity 40% / Outdoor Air Temperature 35°C										
Cooling capacity	kW	2.9	4	4.7	6.2	7.5	9.9	10.6	13.4	15.4	31.4	39.1
Total absorbed power	kW	1	1.5	1.4	2.1	2.7	3.1	3.5	4.9	6.2	10.6	13
SHR		1	0.99	1	0.89	0.96	0.92	0.89	0.92	0.86	0.97	0.88
EER		4.44	3.38	4.62	3.78	3.28	3.77	3.82	3.29	2.84	3.45	3.57
				Air temper	ature 30°C	- Relative humidity 35% / Outdoor air Temperature 35°C						
Cooling capacity	kW	3.1	4.2	5	6.5	7.9	10.3	11	14.1	16	33.1	40.7
Total absorbed power	kW	1	1.5	1.4	2.1	2.7	3.1	3.5	4.9	6.3	10.7	13.1
SHR		1	1	1	0.95	1	0.97	0.94	0.97	0.91	1	0.92
EER		4.65	3.47	4.88	3.93	3.44	3.92	3.99	3.41	2.93	3.6	3.69
Indoor unit air flow rate	m³/h	950	930	1400	1400	2300	2300	2300	3200	3200	7750	7750
Outdoor unit air flow rate	m³/h	2300	2300 2050 3450			3350		5100		5450	9300	16280
Power supply		230/1/50					400/3+N/50					
Sound pressure at 2 m in free field	dB	56	56	59	59	59	59	59	61	61	63	63
Sound pressure at 10 m in free field	dB	34	37	37	39	40	37	42	40	42	45	47
Indoor unit dimensions [LxHxD]	mm	650x3	50x936	36 1050x350x93			6	1150x410x1026			1585x685x1096	
Outdoor unit dimensions [LxHxD]	mm	624 <b>x</b> 5	41 <b>x</b> 410			1003x633x42	0	1121x1128x579		128 <b>x</b> 579	1565 x1275 x605	1965 x1490 x950

Performance data relating to versions with R410A refrigerant. | Also available with 60 Hz power supply. | Indoor unit can only be installed on the ceiling for sizes 3101-3811.

