

HTR

ROOFTOP FOR PRECISION AIR CONDITIONING

7-64 kW



HTR rooftops are direct expansion air-cooled units developed and designed for container air conditioning. They represent the simplest solution for the air conditioning of CEDs inside containers; this is thanks to the **external positioning** of the shelter and the **easy installation** typical of single-block versions. The internal design and the careful choice of components are designed to provide the unit with **maximum energy efficiency**, to obtain **the highest savings in terms of operating costs of the cooling system**.

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.



- R410A refrigerant, alternatively available with R513A and R134a
- Temperature control through heating and post-heating systems with electric heaters (on request)
- Evaporating coils with hydrophilic coating supplied as standard equipment
- Electrical panel in overpressure for the utmost safety
- Configurable with side intake and delivery
- Epoxy powder painted structural metalwork supplied as standard
- Condensing side fans available with EC motor
- Fans on evaporating side with standard EC motor
- Dehumidification function (on request)
- Electric lamination valve with optional electronic control
- Configurable con aspirazione e mandata laterali
- Evaporating side fans with EC motor as standard



Maximum efficiency

The use of EC electronic switching fans (as part of the standard equipment) in the evaporating section **minimises ventilation costs, helping boost the unit energy efficiency.**



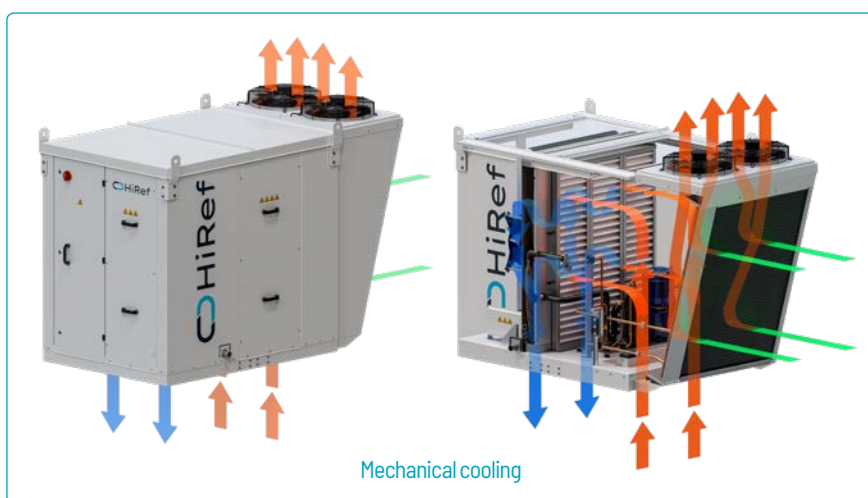
Complete accessibility

All Rooftop HTR components are easily accessible by removing the unit's removable side panels. This solution greatly **facilitates all scheduled and unscheduled maintenance operations.**



Maximised shelter internal space

HTR Rooftop units are designed to be installed **outside shelters**. This translates into **optimisation of internal space** that can be used exclusively for installation of the server racks.



HTR		0701	1201	1601	1801	2501	3201	5602
R410A - Indoor air 27°C - 40% / Outdoor air 35°C								
Cooling capacity	kW	6.8	11.6	15.2	17.6	24.8	33	59.8
Total absorbed power	kW	2.5	4.2	5.5	5.5	8.5	11.1	20.6
EER		4.24	3.54	3.48	4.25	3.73	3.73	3.97
SHR		1	1	1	1	1	0.99	1
R410A - Indoor air 30°C - 35% / Outdoor air 35°C								
Cooling capacity	kW	7.3	12.4	16.1	18.8	26.3	34.9	63.4
Total absorbed power	kW	2.6	4.2	5.5	5.6	8.5	11.2	20.7
EER		4.4	3.77	3.64	4.48	3.9	3.89	4.16
SHR		1	1	1	1	1	1	1
R513A - Indoor air 27°C - 40% / Outdoor air 35°C								
Cooling capacity	kW	8.3	12.6	15.4	17.4	24.9	30.5	60.5
Total absorbed power	kW	2.7	3.6	4.8	4.9	7.7	10	20.3
EER		4.47	4.62	4.18	4.91	4.25	3.89	4.08
SHR		0.99	1	0.99	0.99	0.99	1	1
R513A - Indoor air 30°C - 35% / Outdoor air 35°C								
Cooling capacity	kW	8.8	13.3	16.4	18.6	26.6	32.4	64.3
Total absorbed power	kW	2.8	3.7	4.8	5	7.8	10.2	20.6
EER		4.71	4.83	4.4	5.18	4.45	4.03	4.27
SHR		1	0.99	1	0.99	1	0.99	0.99
Rated air flow	m³/h	2500	4000	4800	6000	8000	9000	17000
Power supply	V/ph/Hz				400/3+N/50			
Dimensions [LxHxD]	mm	910x1630x2300			1200x1630x2300		2060x1630x2300	

Also available with 60 Hz power supply.