



AIR CONDITIONING UNIT - CLIMA-HT



Total cooling power (kW)

9,5, 12,6, 25,1, 35,6, 47,7, 70,7, 87,3

Specific conditioning units for clean rooms that require the maintenance of hygrometric conditions with restricted tolerances. The particular constructional features mean extreme simplicity of installation and maintenance, ensuring the complete inspection of the device from the front and the quick replacement of each component. The conditioning unit is controlled by a programmable microprocessor system to meet the particular needs of each clean room. The functions to control all the aeraulic, electric and refrigerator components, mean the unit is effectively an integrated system for the precise maintenance and monitoring of temperature, humidity, pressure, ventilation and air purity.

SKU: N/A







Technical Data

120 Hz		0091	0131	0241	0341	0462	0682	0902
Total cooling power*	kW	9,5	12,6	25,1	35,6	47,7	70,7	87,3
SHR	-	0,86	0,91	0,92	0,81	0,96	0,90	0,88
Compressor absorbed power	kW	2,5	3,3	7,3	12,4	13,0	25,6	30,2
Compressor absorbed current	А	3,8	5,3	11,7	19,8	24,0	40,9	48,3
Airflow to evaporator	m³/h	2150	3700	6800	7280	14150	19420	22500
Fan absorbed power	kW	0,2	0,4	0,9	1,1	2,3	2,6	3,8
AESP @ max. fan speed	Pa	726	574	397	329	305	393	230
Power	V/ph/Hz	400/3+N/50						
Compressor	Type	BLCD - Tv	vin Rotary	BLCD - Scroll				
	N°	1	1	1	1	2	2	2
Measurements (WXHXD)	mm	600 x 1875 x 600	900 x 1875 x 600	1010 x 1998 x 795	1280 x 1998 x 795	2030 x 1998 x 795	2510 x 1998 x 795	2510 x 1998 x 950
Weight	kg	157	230	375	401	745	979	1013





CLIMA-HT

Air conditioning unit for Cleanrooms with variable speed compressor







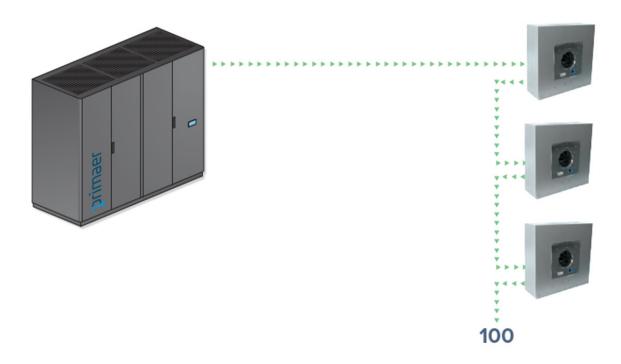








Function Diagram



Microprocessor controls

Climate-HT series units are equipped with specific control

software developed on the basis of experience gained over the years in the production of Cleanrooms, to meet the needs of different industrial sectors. It is a truly integrated system that allows total control of all the Cleanroom parameters, including those typical of the air conditioner, such as:

- Temperature
- Humidity
- Airflow
- Ambient pressure
- Clogged pre-filters and HEPA filters

The PLC is equipped with an interface that allows managing, via

Modbus, up to 100 Filter Fan Units (FFU) series AIR-1 and HT-AIR10-ML, normally used for room air circulation. Of each unit the system monitors:

- Start / Stop.
- State / alarm.
- Set operating point.
- Class
- Operating mode (normal / reduced).

The application also allows you to:





- Display the alarms detected in their acoustic signal by means of the buzzer;
- The display of all set sizes;
- The management of the data logger;
- The remote control of all parameters via web interface to any user in charge of the Cleanroom controls./li>

Standard Features

- Unit with variable speed BLDC compressor;
- · Continuous modulation of the cooling capacity;
- Environmentally friendly refrigerant R410A;
- · Fans with reverse blades and EC series motors;
- Electric expansion valve electronically control;
- · Programmable microprocessor control with LCD display;
- Drain pan made of stainless steel AISI 403;
- Painted RAL 7016 panels and rounded edges;
- · Painted interior panels;
- · Finned battery pack with hydrophilic treatment;
- · Airflow Sensor;
- · G4 class air filter;
- · Room temperature and pressure sensors;
- · Front access for maintenance / control of components even with the unit running;
- · Technical compartment separate from the airflow;
- · Automatic switches load protection;
- · Rotalock connections for ease of installation;
- New design of the external panels with flathead screws of thesame colour as the structure and special foam gasket seals to ensure maximum tightness.





Optional accessories

- Automatic control of the airflow and the display;
- · Dehumidification with humidity sensor;
- Humidifier with immersed electrodes;
- Humidifier with immersed electrodes, drain pump and cylinder that can be inspected;
- · Electric heaters;
- Post-heating systems:
 - > Hot water coil with modulating valve;
 - > Hot gas battery with regulation;
 - > PRECISE Hot gas battery with the modulation of the coolant flow.
- Flood, fire, smoke, additional T and humidity sensors;
- Module H500 Base;
- Base frame;
- Servo-controlled dampers for Base Module for the automatic adjustment of the ambient pressure;
- Air distribution plenum (horizontal or vertical);
- Serial cards for protocols: Carel / Modbus / LonWorks / Trend;
- HIWEB Hardware: Ethernet card for protocols: BACnet / SNMP;
- HIWEB Software: Ethernet card for Web connectivity;
- Touch-Screen colour graphic display.











