



COOLING UNITS



**ELECTRICAL HEATING AND COOLING
SOLUTIONS
FOR THE INDUSTRY**



VULCANIC

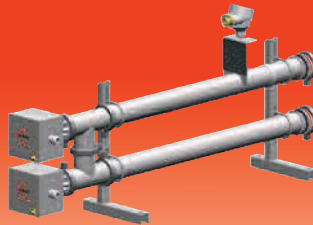
The Vulcanic group has been designing and manufacturing electrical process heating and temperature control solutions since 1973. Employing 550 people across 8 manufacturing locations, Vulcanic currently services 30 000 customers in 100 different countries across the globe and is an ISO 9001 v 2008 accredited company.



**You have an issue... let us solve it !
Vulcanic your worldwide local partner !**



Advice

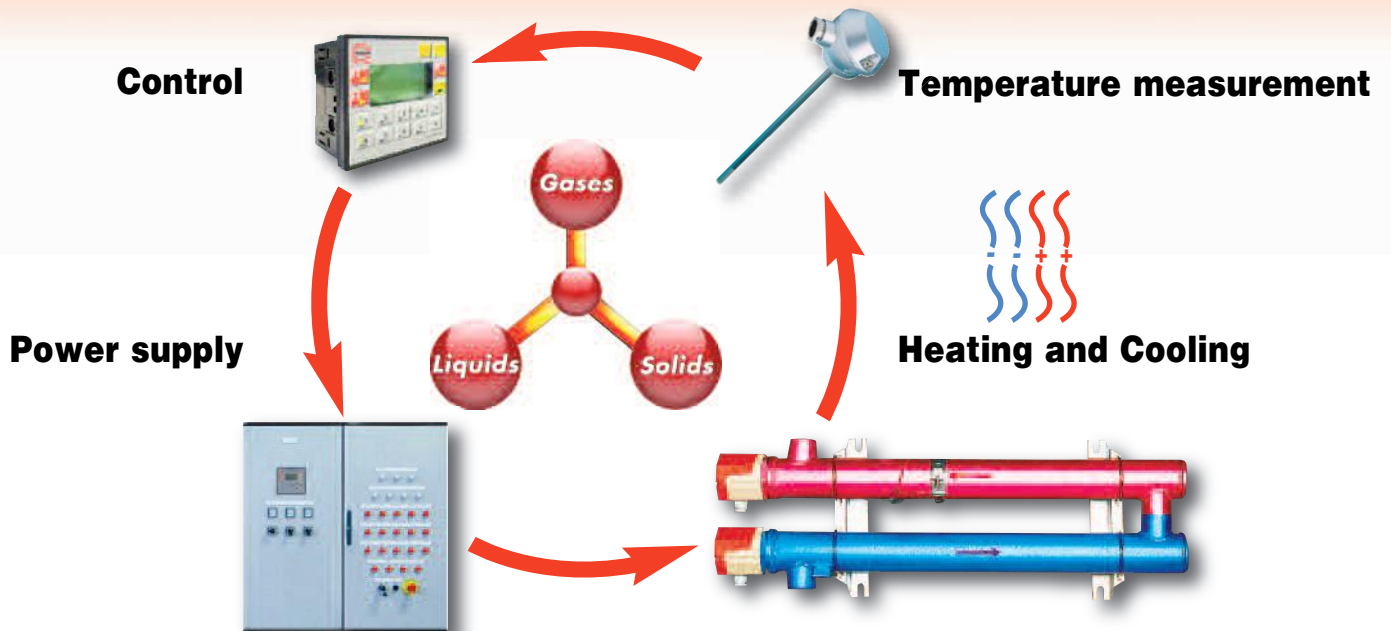


Design



Manufacturing

All in One Solutions





SERVED MARKETS



DESIGN EXPERTISE AND CODES

Vulcanic design teams support our partners from conceptual design and feasibility study throughout the life of the equipment. Our design capabilities include:

- Electrical design
- Mechanical design
- Thermal design
- Electronic design (hardware and software)
- Hydraulic design
- Automation
- Communication protocols
- Hazardous area certification



- AD 2000
- ASME
- CODAP
- EN 286

- PD 5500
- RCC-M / RCC-E
- STOOMWEZEN
- GOST



MANUFACTURING

Vulcanic offers the benefits of integrated "in house" manufacturing processes, using "state of the art" equipment to manufacture almost all components utilised within our product ranges. With only minimal dependance upon subcontractors, we remain in full control of Quality and Production schedules while maintaining a high level of know how in house.



Heating element manufacturing



CNC machining



Sensor manufacturing



Welding



Wiring

CERTIFICATION



- ISO 9001: 2008
- PED 97/23/EC cat I-IV
- ATEX 94/9/EC
- IECEx
- TR CU
- CCOE
- VDE
- UL
- DNV
- INMETRO





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AIR CONDITIONING UNITS CHILLERS VULCAFROID® DEHUMIDIFIERS EDENAIR®



AIR-CONDITIONING UNITS FOR CABINETS

Cooling power : from 360 to 2500 W
(L35/L35 according to DIN 3168).

To be fixed either on the front door or side panel or top panel of a cabinet.

Factory pre-set to achieve an average cabinet temperature of 35°C max..

+ Customer's advantages

- One single cut-out for cabinets from 850 to 2500 W.
- **Powerless** condensation evaporating device.
- Electronic control with alarms and safety values (high pressure, cabinet opened, cabinet temperature, fan and compressor's thermal breakers).
- Ventilated hermetic compressor.
- Standard spare parts for all models.



Top mounted version



Standard electronic controller



Front face

Rear side

Wall mounted air conditioners

TYPE	REF.	Cooling power (W)	Voltage (V/ph/Hz)	H (mm)	L (mm)	P (mm)	Weight (kg)
CA 35 ME	80740-00	360	230/1/50	376	400	215	20
CA 85 ME	80812-08	850	230/1/50	800	400	215	34
CA 85 ME	80814-08	850	400/1/50	800	400	215	35
CA 120 ME	80812-12	1260	230/1/50	900	400	215	42
CA 120 TE	80834-12	1180	400/440/3/50/60	900	400	215	42
CA 170 ME	80812-17	1760	230/1/50	950	400	215	46
CA 170 TE	80834-17	1700	400/440/3/50/60	950	400	215	46
CA 210 ME	80812-21	2100	230/1/50	990	400	262	50
CA 210 TE	80834-21	2100	400/440/3/50/60	990	400	262	50
CA 250 TE	80834-25	2500	400/440/3/50/60	990	400	262	52

Top mounted

TYPE	REF.	Cooling power (W)	Voltage (V/ph/Hz)	H (mm)	L (mm)	P (mm)	Weight (kg)
CAH 150 ME	80799-00	1460	230/1/50	400	600	400	49
CAH 150 TE	80745-00	1460	400/440/3/50/60	400	600	400	39

AIR / WATER EXCHANGERS

Cooling power : from 3900 to 6000 W
(W10/L35 according to DIN 3168).

To be fixed either on the front door or side panel of a cabinet.

Factory pre-set to achieve an average cabinet temperature of 35°C max..

Cooling power at nominal water flow (W).

Heat-transfer liquid temp.	RO400				RO600				
	10°C	15°C	20°C	25°C	10°C	15°C	20°C	25°C	
	430 l/h				690 l/h				
Cabinet temperature	30°C	3100	2100	1500	800	4800	3200	2300	1300
	35°C	3900	3800	2300	1700	6000	4300	3500	2600
	40°C	4700	3500	3000	2600	7200	5400	4600	3900

TYPE	REF.	Voltage (V/ph/Hz)	H (mm)	L (mm)	P (mm)	Weight (kg)
RO 400	80705-40	400/1/50/60	850	400	160	20
RO 600	80705-60	400/1/50/60	1250	600	160	30

SELF-CONTAINED INDUSTRIAL CHILLERS VULCAFROID®

Chillers designed to cool down industrial process through a refrigerated water circulating in a closed loop (water with 5 % added glycol or ISO VG2 heat-transfer oil). Standard cooling power available from 1,6 to 30 kW.

On request : other powers and medium temperatures.



Front face

Rear side

P/N.	Power (W)	Voltage (V/ph/Hz)	H (mm)	L (mm)	P (mm)	Weight (kg)
99002-16	1600*	230/1/50	395	400	780	65
99002-66	1600*	400/3/50	395	400	780	65
99002-25	2500*	230/1/50	395	400	780	65
99002-75	2500*	400/3/50	395	400	780	65
99003-03	3500**	230/1/50	1130	580	830	110
99003-04	3500**	400/3/50	1130	580	830	110
99003-05	5000**	400/3/50	1130	580	830	120
99003-08	8000**	400/3/50	1600	780	1020	225
99003-12	12000**	400/3/50	1600	780	1020	240
99003-16	16000**	400/3/50	2400	900	1020	350
99003-22	22000**	400/3/50	2400	900	1020	360
99003-30	30000**	400/3/50	2400	900	1020	400

Power (W) ** for W10/L35 * for W20/L35

According to DIN 3168 / "W10" = water temperature at 10°C / "L35" = Air condensing temperature at 35°C

LIQUID CHILLER STL 200/250



These chillers are a self-contained cooling system for liquids, mobile and autonomus.

Applications :

- Hot sources Pelletier
- Lasers
- Optical systems

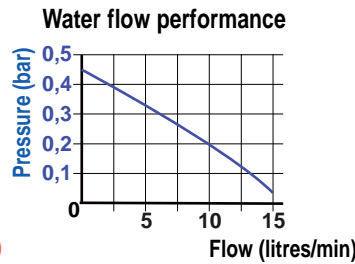
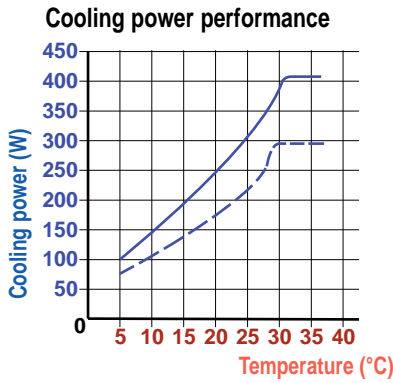
Features :

- Rubber feet.
- Handle for transport.
- Electronic PID controller.
- Adjustable high set point for safety temperature.
- Special and non corrosion treatment on heat exchanger.
- Internal liquid tank.
- Front mounted level control.
- Centrifugal pump with magnetic seal.

- Inlet and outlet for pipes Ø 8x10mm.
- Hermetic cooling compressor.
- Air condensing unit.

Options :

- Flow switch 0,4 l/min or 1 l/min.
- Flow rate control with low flow safety contact.
- Water condenser.
- Electrical heating.
- Painted box with castors.



Characteristics	TYPE	
	STL 250	STL 200
Hermetic cooling compressor	1/6 CV - 120 W 1/6 HP - 120 W	1/5 CV - 150 W 1/5 HP - 150 W
Cooling power (liquid 20°C Air 25°C)	180 W	230 W
Air flow	120 m³/h **	150 m³/h **
Supply voltage (50Hz)	230 V - 1ph	230 V - 1ph
Current output	2A	2A
Average power consumption (20°C - 80% HR)	160 W/h	180 W/h
Refrigerant gas	R134 a	R134 a
Water flow output (20°C - 0,25 bar)	6 l/min	6 l/min
Reserve capacity	1,5 liters	1,5 liters
Dimensions : P/L/H (mm)	370 x 290 x 460	370 x 290 x 460
Weight	23 Kg	24 Kg
Working capabilities	5°C up to 35°C - ambient 15°C up to 35°C	

DEHUMIDIFIER EDENAIR® DP 1200, 3500, 5000 AND 10000



Applications :

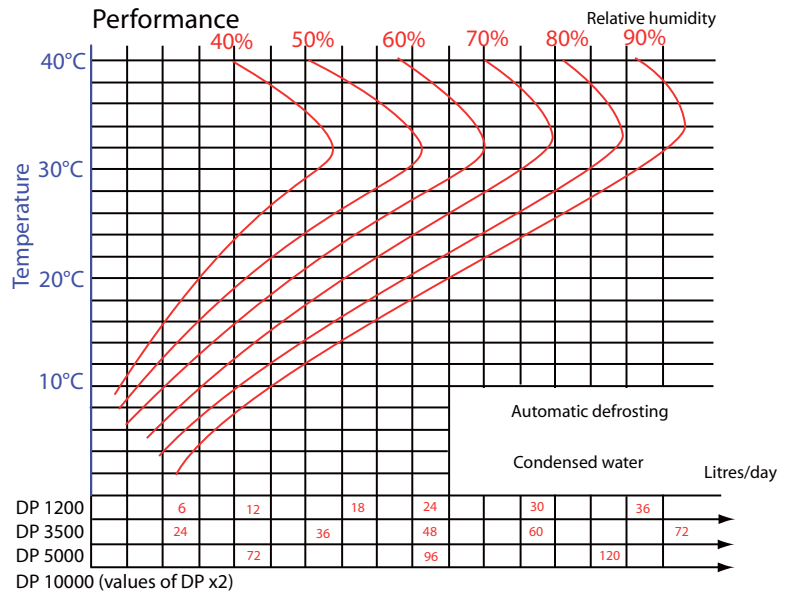
- Warehouses
- Swimming pools
- Cellars
- Underground shelters
- Laboratories
- Drying processes : (buildings, wood, food and beverage, clothes...)
- Archives
- Green houses
- Gymnasium
- Covered stadium

Features :

- Easily changeable air filter.
- Automatic defrosting.
- Two functions : ventilation only / ventilation and dehumidification.
- Adjustable controller from 0 up to 20°C, cut out the dehumidifier at low temperature.
- Cooper lined cold exchanger with protection against corrosion

Options :

- Remote control with moisture controller. and 3 position cut out controller.
- Transformer incorporated (remote control 24 V).
- Electrical heating.
- Hot water heating exchanger.



Characteristics	TYPE			
	DP 1200	DP 3500	DP 5000	DP 10000
Hermetic cooling compressor	0,5 CV - 380 W 0,5 HP - 380 W	1,25 CV - 930 W 1,25 HP - 930 W	2 CV - 1500 W 2 HP - 1500 W	4 CV - 3000 W 4 HP - 3000 W
Cooling power (liquid 20°C Air 25°C)	1400 W	3800 W	5250 W	11000 W
Air flow	360 m³/h **	900 m³/h **	1500 m³/h **	3000 m³/h **
Supply voltage (50Hz)*	230 V - 1ph ou 400V - 3ph	230 V - 1ph ou 400V - 3ph	230 V - 1ph ou 400V - 3ph	230 V - 1ph ou 400V - 3ph
Electrical power consumption (20°C - 80% HR)	730 W	1500 W	2500 W	4200 W
Power connexion :	3 x 1,5 ²	3 x 2,5 ² or 4 x 1,5 ²	3 x 1,5 ² or 4 x 1,5 ²	3 x 1,5 ² or 4 x 1,5 ²
Remote control	4 x 1 ²	4 x 1 ²	4 x 1 ²	4 x 1 ²
Condensed water outlet (mm)	Ø20	Ø20	Ø20	Ø20
Dimensions : P/L/H (mm)	630 x 425 x 305	845 x 530 x 472	850 x 610 x 572	850 x 1120 x 572
Weight	40 Kg	85 Kg	110 Kg	210 Kg
Volume treated	100 to 400m ³	300 to 900m ³	750 to 1750m ³	1000 to 3500m ³

* Others voltages and frequencies available for specific requirements ** Test bench CETIAT *** Value in DP 500 X2

DEHUMIDIFIERS EDENAIR® VDM 750, 1200, 3500, 5000 AND 10000



Applications :

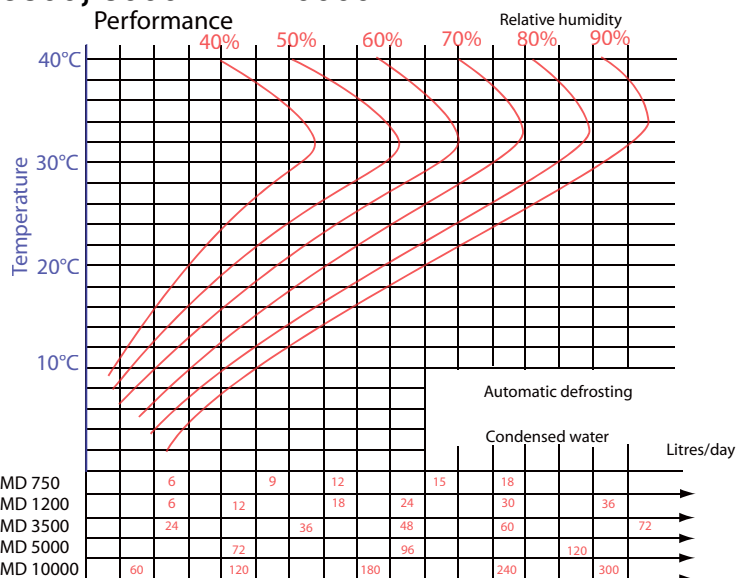
- Warehouses
- Swimming pools
- Cellars
- Underground shelters
- Laboratories
- Drying processes : (buildings, wood, food and beverage, clothes...)
- Archives
- Green houses
- Gymnasium
- Covered stadium

Features :

- Casing adaptor for air duct connection.
- Designed in two parts for easy maintenance and handling during transport.
- Automatic defrosting allows temperature up to 0°C for VMD 750/1200 and 5°C for VMD 3500/5000 and 10000.
- Adjustable thermostat from -5°C up to 15°C in air inlet to switch off dehumidifier at low temperature.
- Cooper lined cold exchanger with protection against corrosion.

Options :

- Remote controller with hygostat and 3 positions switch : ventilation on, ventilation+ dehumidification and off.
- Internal transformer 24 V.
- Electrical heating with temperature controller.
- High pressure available reinforced at 10 mmCE for VMD 750/1200
- High pressure available reinforced at 20 mmCE for VMD 3500/5000/10000.
- Hot water heat exchanger without controller.
- Water condenser.



CHARACTERISTICS	TYPE				
	VDM 750	VDM 1200	VDM 3500	VDM 5000	VDM 10000
Hermetic cooling compressor	1,3 CV - 380 W	1,3 CV - 930 W	1,25 CV - 930 W	2 CV - 1500 W	4 CV - 3000 W
Refrigerant gas	R134 a	R407 c	R407 c	R407 c	R407c
Cooling power (liquid 20°C Air 25°C)	870 W	1400 W	3800 W	5300 W	11000 W
Air flow treated	300 m³/h	400 m³/h	900 m³/h	1500 m³/h	3000 m³/h
Pressure available (CE)	5mm	5mm	10mm	10mm	10mm
Air duct inlet outlet	250/250	250/250			
Power supply (50Hz)*	230 V - 1ph	230 V - 1ph	230 V - 1ph or 400V - 3ph	230 V - 1ph or 400V - 3ph	230 V - 1ph or 400V - 3ph
Electrical power consumption (20°C - 80% HR)	8/550 W	85/900 W	300/1500 W	450/2200 W	900/4200 W
Water condensed outlet (mm)	Ø16	Ø16	Ø20	Ø20	2 x Ø20
Dimensions : P/L/H (mm)	850 x 440 x 310	850 x 440 x 310	1110 x 540 x 475	1240 x 630 x 575	1240 x 1300 x 575
Weight	34 Kg	41 Kg	90 Kg	120 Kg	200 Kg
Heating power	1000 W	1000 W	2250 W	4500 W	9000 W
Volume of the room to be treated	100 m³	100 to 400 m³	400 to 900 m³	750 to 1750 m³	1000 to 3500 m³
Temperature and humidity range	0°C to 37°C - 30% to 100% HR				

DEHUMIDIFIERS EDENAIR® T 750 AND 1200



Applications :

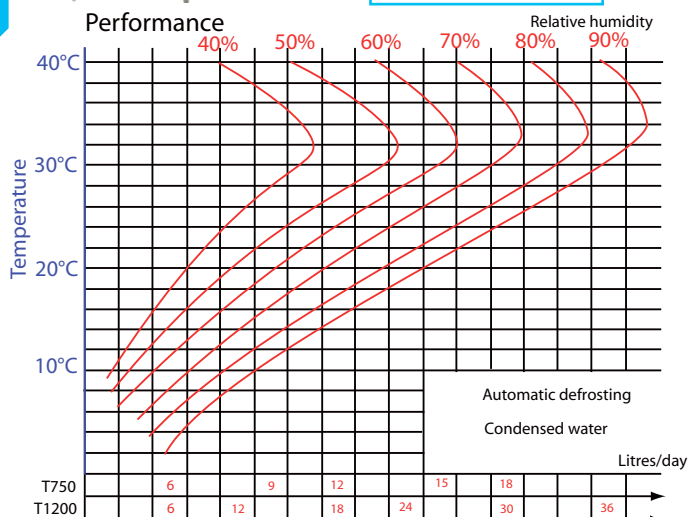
- Cellars
- Libraries
- Archives
- Photocopy centers
- Residences
- Restaurants
- Clothes dryers
- Boats
- Museums
- Green houses

Features :

- Wheels.
- Easy access Air filter - Efficiency 50%.
- Hygostat control - Accuracy +/- 7%
- Hot gas defrosting with automatic and thermostatic timer.
- Level control contact safety.
- High pressure contact safety.
- Hydraulic adapter for water connection on the customer network.
- May be built-in (on specific request).
- Cooper lined cold exchanger with protection against corrosion.

Options :

- Pump for condensed water.
- Centrifugal fan for air duct network 50 Pa (5 mm CE).
- Water exchanger.
- Electrical heater.



CHARACTERISTICS	TYPE	
	T 750	T1200
Hermetic cooling compressor	1/3 CV - 250 W 1/3 HP - 250 W	1/2 CV - 930 W 1/2 HP - 380 W
Cooling power (liquid 20°C Air 25°C)	870 W 2900 BTU	1400 W 4750 BTU
Air flow treated	300 m³/h **	400 m³/h **
Power supply (50Hz)	230 V - 1ph	230 V - 1ph
Electrical power consumption (20°C - 80% HR)	450 W	730 W
Refrigerant gas	R134 c	R407 c
Heating power 20°C - 80% HR	800 W	1200 W
Tank for condensate	10 litre	20 litre
Dimensions : P/L/H (mm)	420 x 410 x 650	470 x 140 x 780
Weight	38 Kg	50 Kg

* Others voltages and frequencies available for specific requirement ** Test bench CETIAT

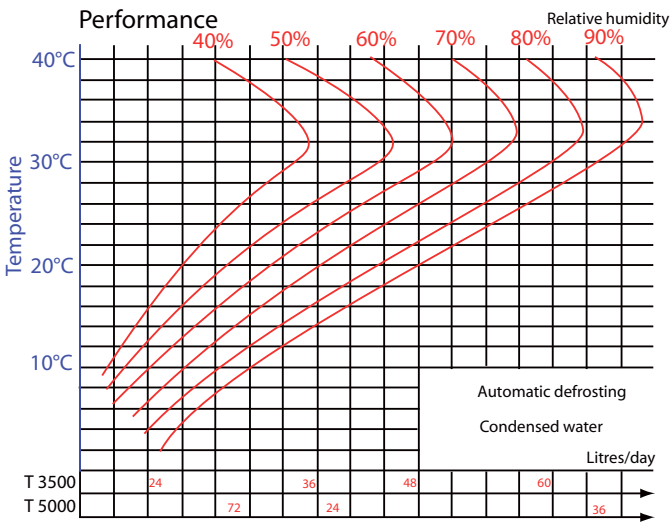
DEHUMIDIFIERS EDENAIR® T 3500 AND 5000



- Applications :**
- Warehouses
 - Swimming pools
 - Cellars
 - Tanks
 - Underground shelters
 - Silos
 - Laboratories
 - Drying proceses (wood, plaster, buildings, food and beverage)
 - Librairies
 - Archives
 - Photocopy centers
 - Residences
 - Restaurants
 - Clothes dryers...

- Features :**
- Wheels.
 - Easy access air filter - Efficiency 50%.
 - Hygrostat control - Accuracy +/- 7%
 - Hot gas defrosting with automatic and thermostatic timer.
 - **Cooper lined cold exchanger with protection against corrosion.**

- Options**
- Pump for condensed water.
 - Centrifugal fan for air duct network 50 Pa (5 mm CE).
 - Water exchanger.
 - Electrical heater.
 - Water tank of 2 liters with automatic switch off.



CHARACTERISTICS	TYPE	
	T 3500	T 5000
Hermetic cooling compressor	1,25 CV - 930 W 1,25 HP - 930 W	2 CV - 1500 W 2 HP - 1500 W
Cooling power (liquid 20°C Air 25°C)	3800 W 13000 BTU	5250 W 18000 BTU
Air flow treated	1000 m³/h **	1500 m³/h **
Power supply (50Hz)	230 V - 1ph 400 V - 3ph	230 V - 1ph 400 V - 3ph
Electrical power consumption (20°C - 80% HR)	1500 W	2200 W
Refrigerant gas	R407 c	R407 c
Heat output 20°C - 80%HR	2600 W	4000 W
Water condensed outlet (mm)	Ø16	Ø16
Dimensions : P/L/H (mm)	555 x 555 x 1080	655 x 655 x 1280
Weight	100 Kg	130 Kg
Volume of the room to be treated	100 to 900 m³	750 to 1750 m³
Temperature and humidity range	5°C to 35°C	30% to 100% H

* Others voltages and frequencies available for specific requirements ** Test bench CETIAT

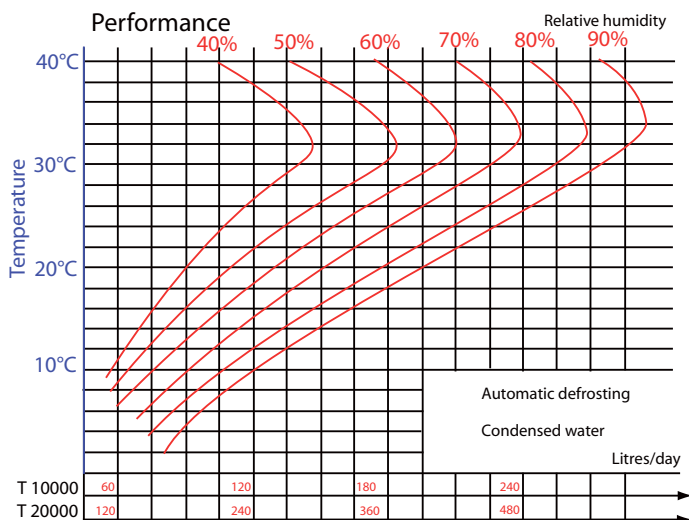
DEHUMIDIFIERS EDENAIR® T 10000 AND 20000



- Applications :**
- Warehouses
 - Swimming pools
 - Cellars
 - Tanks
 - Underground shelters
 - Silos
 - Laboratories
 - Drying proceses (wood, plaster, buildings, food and beverage)
 - Librairies
 - Archives
 - Photocopy centers
 - Residences
 - Restaurants
 - Clothes dryers
 - Small workshops
 - Boats
 - Museums

- Features :**
- Wheels.
 - Air filter easy access - Efficiency 50%.
 - Hygrostat control - Accuracy +/- 7%
 - Hot gas defrosting with automatic and thermostatic timer.
 - **Cooper lined cold exchanger with protection against corrosion.**

- Options :**
- Pump for condensed water.
 - Centrifugal fan for air duct network 50 Pa (5 mm CE).
 - Water exchanger.
 - Electrical heater.



CHARACTERISTICS	TYPE	
	T 10000	T 20000
Hermetic cooling compressor	1x4 CV - 4 kW	2x4 CV - 6 kW 2x4 HP - 2X3 kW
Cooling power (liquid 20°C Air 25°C)	9500 W 32400 BTU	19250 W 65600 BTU
Air flow treated	3000 m³/h **	5300 m³/h **
Power supply (50Hz)	400 V - 3ph	400 V - 3ph
Electrical power consumption (20°C - 80% HR)	4000 W	7500 W
Refrigerant gas	R407 c	R407 c
Heat output 20°C - 80%HR	7000 W	15000 W
Water condensed outlet (mm)	Ø20	Ø20
Dimensions : P/L/H (mm)	1110 x 660 x 900	1350 x 1350 x 1000
Weight	250 Kg	450 Kg
Volume of the room to be treated	1500 to 3500 m³	3500 to 8000 m³
Temperature and humidity range	5°C to 35°C	30% to 100% H

* Others voltages or frequency available on specific requirement ** Test bench CETIAT



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