



MASTERIA[®]

Refrigeration dryer
with DTM[®] technology



PURE & SIMPLE



Control panel



Digital display

Status leds

Parameters adjustment

Drain test

European standards



Technical characteristics

- Frame in epoxy galvanised steel sheets
- Casing in epoxy galvanised steel sheets
- Hermetic type compressor
- Helicoid fan
- HP and LP switches protection
- Regulation by microprocessor with digital display of set point and dew point managing condensate drain
- DTM technology exchanger in copper and aluminium
- Remote alarm (optional)

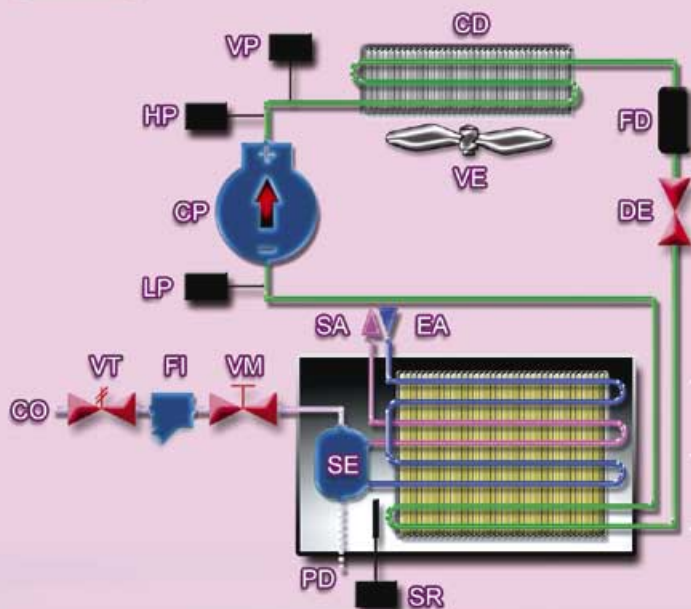


PURE & SIMPLE

MASTERIA®

Refrigeration dryer
with DTM® technology

Diagram



- CD Condenser
- CO Condensate outlet
- CP Compressor
- DE Pressure reducer
- EA Air inlet
- EC Intercooler
- EV Evaporator
- FD Filter dryer
- FI Filter
- HP HP switch
- LP LP switch
- PD Optional level detection drain
- SA Air outlet
- SE Separator
- SR Regulation sensor
- VE Fan
- VM Manual valve
- VP Fan switch
- VT Temporized valve

Description

Masteria dryers benefit from DTM technology (Dual Transfer Mode) and of its multiple advantages : maximum drying performance at all rates (+3°C dew point), reduced power consumption, compressed air circuit totally immune from accidental refrigerant pollution, reliable operation.

Thus, the most critical applications are achievable. Masteria's ergonomy is also noteworthy : secured casing design, clear dashboard, easy access for maintenance

DUAL TRANSFERT MODE

- Wet air
- Dry air
- Refrigerant

Intercooler

Evaporator

Aluminium : direct transfer (conduction)

Intermediate agent : indirect transfer (accumulation)



Models	MPE	004	006	008	010	015	020	025	030	040	050	060	075	100	125	150	
Nominal flow*	m ³ /h	30	48	70	100	140	175	210	260	300	420	540	660	780	920	1020	
Max. service pressure	bar	16															
Max. power input	kW	0,3	0,5	0,7	0,75	0,84	1,05	1,1	1,3	1,5	1,85	2,2	2,4	2,8	3,2	3,50	
Air connection	Gas M	1/2"	3/4"		1"			1 1/2"			2"			2 1/2"			
Réfrigérant		R134a					R 407c										
Power supply	V/Ph/Hz	230/1/50-60															
Width	mm	430	465		575			740			740			740			
Height	mm	430	585		685			945			980			1200			
Length	mm	430	470		540			600			760			1075			
Weight	kg	35	52	55	81	83	86	169	174	178	215	220	226	345	351	360	

* Flow in m³/h at 1 bar absolute and 20°C according to ISO 7135 (inlet air 35°C, pressure 7 bar, dew point +3°C, ambient 25°C.)
For different flows and pressure, please consult us.

Correction factors

Service pressure

bar	3	4	5	6	7	8	9	10	11	12	13	14	15	16
M1	0,74	0,84	0,91	0,96	1,00	1,04	1,07	1,10	1,13	1,15	1,17	1,19	1,20	1,21

Ambiant temperature

°C	25	30	35	40	43
M2	1,00	0,95	0,89	0,83	0,79

Dew point

°C	3	5	7	9
M3	1,00	1,12	1,24	1,38

Air inlet teperature

°C	30	35	40	45
M4	1,22	1,00	0,83	0,69

Corrected air flow = nominal flow x M1 x M2 x M3 x M4



ZA du caillou, 3 rue Jules Verne
69630 CHAPONOST - FRANCE
Tel. +33 (0)4 78 56 70 70
Fax +33 (0)4 78 56 17 31
Internet : <http://www.cta.fr>

PURE & SIMPLE