

Model	Airflowrate			Nominal abs. Power kW	Power supply	Air connections	Overall dimensions					Weight		
	m ³ /h	m ³ /min.	scfm				width		depth		height		Kg	lbs
							mm	in	mm	in	mm	in		
50 Hz models														
5MP0070	42	0,7	25	0,14	230/1/50	1/2"	530	20,9	300	11,8	510	20,1	35	76
5MP0120	72	1,2	42	0,16	230/1/50	1/2"	530	20,9	300	11,8	510	20,1	39	85
5MP0160	96	1,6	57	0,28	230/1/50	1/2"	530	20,9	300	11,8	510	20,1	41	90
5MP0270	162	2,7	95	0,32	230/1/50	3/4"	650	25,6	370	14,6	750	29,5	65	142
5MP0360	216	3,6	127	0,48	230/1/50	3/4"	650	25,6	370	14,6	750	29,5	67	147
5MP0480	288	4,8	170	0,50	230/1/50	1"	650	25,6	370	14,6	750	29,5	80	175
5MP0600	360	6	212	0,81	230/1/50	1"	780	30,7	370	14,6	850	33,5	103	227
5MP0900	540	9	318	0,85	230/1/50	1.1/2"	780	30,7	735	28,9	940	37	167	368
5MP1200	720	12	424	1,09	230/1/50	1.1/2"	780	30,7	735	28,9	940	37	189	417
5MP1600	960	16	565	1,87	400/3/50	2"	865	34,1	1017	40	1100	43,3	264	582
5MP1900	1140	19	671	2,29	400/3/50	2"	865	34,1	1017	40	1100	43,3	293	646
5MP2400	1440	24	848	2,72	400/3/50	2.1/2"	865	34,1	1317	51,9	1100	43,3	393	866

60 Hz models														
6MP0127	216	3,6	127	0,65	220/1/60	3/4"	650	25,6	370	14,6	750	29,5	67	147
6MP0170	289	4,8	170	0,97	220/1/60	1"	650	25,6	370	14,6	750	29,5	80	175
6MP0210	357	5,9	210	1,08	220/1/60	1"	780	30,7	370	14,6	850	33,5	103	227
6MP0315	535	8,9	315	1,19	220/1/60	1.1/2"	780	30,7	735	28,9	940	37	167	368
6MP0425	722	12,0	425	2,03	220/1/60	1.1/2"	780	30,7	735	28,9	940	37	189	417
6MP0565	960	16,0	565	2,60	440/3/60	2"	865	34,1	1017	40	1100	43,3	264	582
6MP0670	1138	19,0	670	3,10	440/3/60	2"	865	34,1	1017	40	1100	43,3	293	646
6MP0850	1444	24,1	850	3,67	440/3/60	2.1/2"	865	34,1	1317	51,9	1100	43,3	393	867

Data refers to the following working conditions: air FAD 20°C / 1bar A, pressure 7 bar(g), ambient temperature 25°C, air inlet temperature 35°C, pressure dew point from 3°C to 10°C, according to ISO 8573.1 standards. Dimensions refer to version with iDRAIN. Weights are net (without packing). The refrigerant used is R134a. Maximum working pressure 16bar(g) (25, 45 or 50 bar(g) on request); maximum ambient temperature 50°C; maximum inlet temperature 70°C. 6MP0315 and 6MP0425 also available with 440/3/60 power supply, absorbed power differs as a consequence.

CAPACITY correction factors (indicative values): CAPACITY = RATED VALUE 7 bar(g) x K1 x K2 x K3.

working pressure	bar/psig	3/46	4/62	5/77	6/93	7/108	8/124	9/139	10/155	11/170	12/186	13/201	14/217	15/232	16/248
correction factor	K1	0,50	0,63	0,75	0,88	1,00	1,04	1,07	1,09	1,11	1,13	1,15	1,16	1,18	1,19
ambient temperature	°C/°F	20/68	25/77	30/86	35/95	40/104	45/113	50/122							
correction factor	K2	1,09	1,00	0,91	0,81	0,72	0,62	0,51							
air inlet temperature	°C/°F	30/86	35/95	40/104	45/113	50/122	55/131	60/140	65/149	70/158					
correction factor	K3	1,27	1,00	0,78	0,60	0,50	0,44	0,39	0,35	0,30					

Complete your compressed air treatment system with M.T.A. aftercoolers, separators, filters, adsorption dryers, drains, oil-water separators and chillers.



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Marco Polo

refrigeration dryers
0,7-24 m³/min



PURE ENERGY



Purifying your compressed air,
increasing your efficiency.



Cooling, conditioning, purifying.

Marco Polo

Marco Polo represents absolute peace of mind for refrigeration dryer Users. The simple and reliable design, with highest operating limits and absolutely no need for seasonal adjustments, ensures Marco Polo always operates perfectly whatever the conditions. Energy savings of up to 80% are achieved thanks to Marco Polo's thermal storage operation, and digital control technology is standard across the range.



User friendly

- No start-up programming required.
- Automatically adapts itself to every operating condition.
- No need to turn dryer on and off, Marco Polo does so automatically.
- User friendly digital control interface on all models.

Maintenance friendly

- On-off operation ensures no seasonal adjustments are required.
- Simple refrigeration circuit, fewer components requiring maintenance.
- Top mounted condenser for reduced fouling.
- Service warning on controller.

Operates everywhere

- 70°C maximum air inlet temperature.
- 50°C maximum ambient temperature.
- 16 barg maximum working pressure.
- Excellent overload capacity thanks to environmentally friendly refrigerant R134a.

Operates continuously

- Simple refrigeration circuit without the complications of a hot gas valve.
- Compressor runs cooler and less often, increasing its longevity.
- Extensively factory tested for increased peace of mind.
- No risk of freezing in winter.



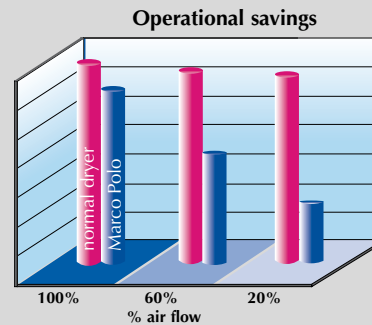
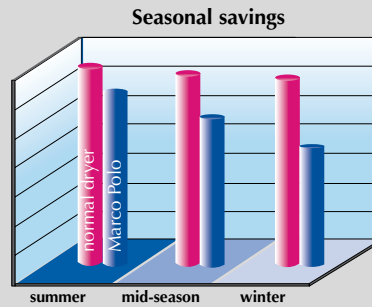
ENERGY SAVINGS OF UP TO 80%

Marco Polo's unique thermal storage consists of a silica mass, which stores excess cooling energy and releases it when required. Energy savings are notable, and can easily reach 80%:

Seasonal savings – Marco Polo saves energy during winter and mid season conditions, when the ambient temperature is much lower than the conditions for which the dryer has been dimensioned.

Operational savings – The compressed air network rarely works at full load; when the network is in stand-by or when it is operating at partial load conditions Marco Polo switches on and off, saving energy.

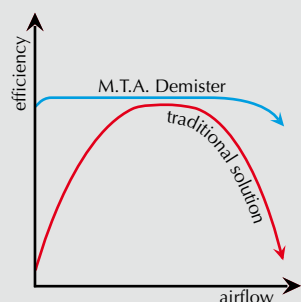
Invest wisely, choose a dryer which pays for itself, choose a dryer which only operates when it needs to.



Marco Polo

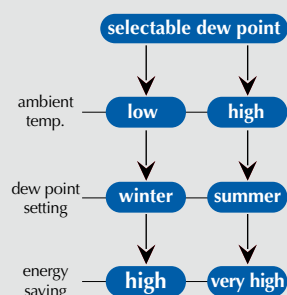
Steady dew point

- Stainless steel demister separator (perfect separation even at reduced loads).
- Marco Polo's thermal storage acts as a stand-by buffer to prevent dew point peaks due to sudden increases in load.
- No hot gas by-pass, no operating fluctuations.



iDRY digital controller

- Standard up to 5MP0900.
- Digital LED display.
- Easy to understand worded and coded messages.
- 4 alarms.
- Choose between 2 dew point settings.
- LED informing that dryer is in energy saving mode.



TDC microprocessor

- Standard from 5MP1200.
- Numerical LED dew point reading.
- 14 alarms with alarm history.
- General alarm volt-free contact.
- 2 dew point settings.
- RS485 serial connection.
- Full programmability.



iDRAIN

- Standard on all models.
- Adapts drain operation to effective dryer load, saving energy.
- Always works perfectly, no programming required.
- Wide drainage orifice for increased reliability and reduced chance of blockage.

