

0,08-30  
m<sup>3</sup>/min

3-1060  
cfm

16-20  
bar



## MODULAR ADSORPTION COMPRESSED AIR DRYERS

HMD model chemical dryers use a modular design for a lightweight, compact body. Having half the size and weight of traditional twin-tower chemical dryers, they provide users with the advantage of flexible installation. This is one of the chemical air dryer models with the lowest pressure drop in the world with its highly engineered inlet valve and discharge manifold design.

### **Advantages**

- Low footprint, lightweight, compact design
- Corrosion-resistant aluminium structure
- Problem-free and reliable electronic control
- Can be mounted on the floor, bench, or wall
- Suitable layout for any workplace
- Easy to install and maintain
- High efficiency and flexibility
- Energy efficient
- Dew point from -40°C to -70°C (optional)



Model	Capacity		Max. Pressure		Connection	Filter	Voltage	Dimensions (mm)			Weight	Controller
	m³/min	cfm	bar	psi				[V/ph/Hz]	Length	Width		
HMD 3	0,08	3	16	232	G 1/2"	HGON35 MX+MY+MP	230/1/50-60	336	320	558	17	Crouzet Millenium 3
HMD 5	0,17	5	16	232	G 1/2"	HGON35 MX+MY+MP	230/1/50-60	320	320	633	19	Crouzet Millenium 3
HMD 10	0,33	10	16	232	G 1/2"	HGON35 MX+MY+MP	230/1/50-60	320	320	908	27	Crouzet Millenium 3
HMD 15	0,42	15	16	232	G 1/2"	HGON35 MX+MY+MP	230/1/50-60	350	370	808	31	Crouzet Millenium 3
HMD 20	0,58	20	16	232	G 1/2"	HGON55 MX+MY+MP	230/1/50-60	350	370	1108	42	Crouzet Millenium 3
HMD 25	0,75	25	16	232	G 1/2"	HGON55 MX+MY+MP	230/1/50-60	350	370	1258	48	Crouzet Millenium 3
HMD 30	0,83	30	16	232	G 1/2"	HGON55 MX+MY+MP	230/1/50-60	350	370	1508	54	Crouzet Millenium 3
HMD 40	1,17	40	16	232	G 1 1/2"	HGON100 MX+MY+MP	230/1/50-60	495	410	1250	71	Crouzet Millenium 3
HMD 50	1,42	50	16	232	G 1 1/2"	HGON100 MX+MY+MP	230/1/50-60	495	410	1400	78	Crouzet Millenium 3
HMD 60	1,67	60	16	232	G 1 1/2"	HGON100 MX+MY+MP	230/1/50-60	495	410	1750	92	Crouzet Millenium 3
HMD 75	2,17	75	16	232	G 1 1/2"	HGON150 MX+MY+MP	230/1/50-60	622	430	1300	120	Crouzet Millenium 3
HMD 100	2,83	100	16	232	G 1 1/2"	HGON225 MX+MY+MP	230/1/50-60	622	430	1450	133	Crouzet Millenium 3
HMD 120	3,33	120	16	232	G 1 1/2"	HGON225 MX+MY+MP	230/1/50-60	622	430	1750	152	Crouzet Millenium 3
HMD 180	5,00	180	16	232	G 1 1/2"	HGON400 MX+MY+MP	230/1/50-60	734	410	1499	186	Crouzet Millenium 3
HMD 240	6,67	240	16	232	G 1 1/2"	HGON500 MX+MY+MP	230/1/50-60	889	410	1497	235	Crouzet Millenium 3
HMD 340	9,6	340	16	232	2"	HGON600 MX+MY+MP	230/1/50-60	994	400	1654	400	Crouzet Millenium 3
HMD 400	11,3	400	16	232	2"	HGON800 MX+MY+MP	230/1/50-60	1335	400	1554	600	Crouzet Millenium 3
HMD 500	14,2	500	16	232	2"	HGON1000 MX+MY+MP	230/1/50-60	1505	400	1654	700	Crouzet Millenium 3
HMD 590	16,7	590	16	232	2"	HGON1000 MX+MY+MP	230/1/50-60	1675	400	1754	850	Crouzet Millenium 3
HMD 735	20,8	735	16	232	3"	HGON1550 MX+MY+MP	230/1/50-60	1675	400	2054	950	Crouzet Millenium 3
HMD 890	25	890	16	232	3"	HGON1550 MX+MY+MP	230/1/50-60	1845	400	2054	1050	Crouzet Millenium 3
HMD 1060	30	1060	16	232	3"	HGON2000 MX+MY+MP	230/1/50-60	2015	400	2054	1200	Crouzet Millenium 3

**20 bar**

HMD 20	0,7	25	20	290	G 1/4"	HGON55 MX+MY+MP	115-230/1/50-60	483	365	1112	37	Crouzet Millenium 3
HMD 30	1	35	20	290	G 1/4"	HGON55 MX+MY+MP	115-230/1/50-60	453	310	1510	48	Crouzet Millenium 3
HMD 40	1,5	53	20	290	G 3/8"	HGON100 MX+MY+MP	115-230/1/50-60	382	410	1209	73	Crouzet Millenium 3
HMD 50	1,7	60	20	290	G 3/8"	HGON100 MX+MY+MP	115-230/1/50-60	382	410	1360	80	Crouzet Millenium 3
HMD 75	2,2	78	20	290	G 1/2"	HGON150 MX+MY+MP	115-230/1/50-60	382	520	1260	120	Crouzet Millenium 3
HMD 100	2,7	95	20	290	G 1/2"	HGON150 MX+MY+MP	115-230/1/50-60	382	520	1410	133	Crouzet Millenium 3

**CORRECTION FACTORS FOR HMD SERIES**

Pressure (bar)	4,5	5	6	7	8	9	10	11	12	13	14	15	16	20
F1	0,7	0,8	0,9	1	1,12	1,25	1,37	1,5	1,62	1,74	1,87	1,99	2,11	2,2
Inlet Temperature (°C)	20	25	30	35	40	45	50	-	-	-	-	-	-	-
F2	1	1	1	1	0,8	0,73	0,59	-	-	-	-	-	-	-

**HMD Dryer Sizing Example;**

If a compressor delivers 2,0 m³/min at 10 bar, the dryer inlet temperature is 40 °C. please choose your dryer as follows;

Dryer Capacity = 2,0 / 1,37 / 0,80 = 1,82 m³/min

The correct dryer model for this application is HMD 75.

**Correction Formula:** Dryer Capacity = Air Delivery Capacity of the Compressors / F1 / F2

**PRE FILTER (X)**

Efficiency rating:  
1 Micron particle  
removal & 0.5mg/m³  
oil removal

**FINE FILTER (Y)**

Efficiency rating:  
0.01 Micron particle  
removal & 0.01mg/m³  
oil removal

**PARTICLE FILTER (P)**

Efficiency rating:  
5 Micron particle  
removal  
(removes desiccant  
particles after the dryer)

**ACTIVATED CARBON  
FILTER (A)**

Efficiency rating:  
0.01 Micron particle  
removal & 0.003 mg/m³  
oil removal