



PNEUDRI MX

Heatless Regeneration - Clean dry air system

A clean and dry compressed air supply is vital in many manufacturing processes; it is used to provide motive power and to automate process, as well as directly impact the product produced. The removal of water vapour is essential to maintain an efficient production line. The removal of water vapour inhibits the growth of micro-organisms, stops condensation and system corrosion.

Parker Zander PNEUDRI MX provides a compact and reliable solution for the removal of water vapour. The use of high tensile extruded aluminium columns eliminates the need for complex valves and interconnecting piping; while the length to diameter ratio of the column and non-welded construction means that the periodic inspections that twin tower dryers require for insurance purposes are not needed.

The modular design significantly reduces the footprint of the dryer, when compared to traditional twin tower dryers. Not only does PNEUDRI MX modular design offer space saving benefits, it also provides the option of multi-banking dryers. This allows the possibility of 100% stand-by, flexible maintenance and should extra drying capacity be required, additional dryers can be easily installed.

The adsorbent desiccant material used in the drying process is specially selected and 'snowstormed' filled. This gives maximum packing density for the desiccant material, eliminates desiccant breakdown and ensures 100% contact time between the air and desiccant, providing constant dewpoint performance and energy efficient operation.

To further improve energy efficiency the option to install an energy management system is available. This system matches the regeneration of the desiccant material to the operational requirements; which can be effected by production demand, ambient temperatures and humidity and savings of up to 80% are not uncommon.



Benefits:

- **Highest quality air**
Clean, dry, oil-free compressed air to class 1, 2 or 3 of ISO8573-1, the international standard for compressed air quality providing trouble free operation from equipment and processes using compressed air
- **Dry compressed air inhibits the growth of micro-biological contamination and eliminates condensation and corrosion**
Preventing product spoilage, recall and litigation
- **Approvals to international standards**
PED, CE, CSA (US+Canada), CRN
- **Flexible installation**
Providing low cost maintenance and reduced system downtime
- **Low Environmental Impact**
Reduced energy consumption and super quiet operation
- **Compact and lightweight modular design**
 - Modular construction means less than half the size of traditional twin tower dryers
 - 100% standby at a fraction of the cost of twin tower designs
 - 10 year guarantee on pressure envelope
 - Corrosion resistance due to alochroming and epoxy painting
 - Constant dewpoint performance thanks to snowstorm filling

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Dryer Performance

Dryer Models	Dewpoint (Standard)		ISO8573-1:2010 Classification (standard)	Dewpoint (Option 1)		ISO8573-1:2010 Classification (Option 1)	Dewpoint (Option 2)		ISO8573-1:2010 Classification (Option 2)
	°C	°F		°C	°F		°C	°F	
MX □	-40	-40	Class 2	-70	-100	Class 1	-20	-4	Class 3
MXP*	-40	-40	Class 2	-70	-100	Class 1	-20	-4	Class 3

Technical Data

Dryer Models	Min Operating Pressure		Max Operating Pressure		Min Operating Temp		Max Operating Temp		Max Ambient Temp		Electrical supply (standard)	Electrical supply (optional)	Thread Connections	Noise Level dB (A)
	bar g	psi g	bar g	psi g	°C	°F	°C	°F	°C	°F				
MXS	4	58	13	190	5	41	50	122	55	131	85 - 265 V 1ph 50/60Hz	N/A	BSPP or NPT	<75
MXA	4	58	13	190	5	41	50	122	55	131	85 - 265 V 1ph 50/60Hz	N/A	BSPP or NPT	<75

Product Selection

	Model	Port Connection	Flowrates			
			L/s	m ³ /min	m ³ /hr	cfm
Single Bank	MX □ 102C	2"	113	6.81	408	240
	MX □ 103C	2"	170	10.22	612	360
	MX □ 103	2"	213	12.78	765	450
	MX □ 104	2"	283	17.03	1020	600
	MX □ 105	2½"	354	21	1275	750
	MX □ 106	2½"	425	26	1530	900
	MX □ 107	2½"	496	30	1785	1050
	MX □ 108	2½"	567	34	2040	1200
Multi-Bank	2 x MX □ 105	2½"	708	43	2550	1500
	2 x MX □ 106	2½"	850	51	3060	1800
	2 x MX □ 107	2½"	992	60	3570	2100
	2 x MX □ 108	2½"	1133	68	4080	2400
	3 x MX □ 106	2½"	1275	77	4590	2700
	3 x MX □ 107	2½"	1488	89	5355	3150
	3 x MX □ 108	G 2½"	1700	102	6120	3600

Stated flows are for operation at 7 bar g (100 psi g) with reference to 20°C, 1 bar a, 0% relative water vapour pressure.
For flows at other pressures apply the correction factors shown.

Correction Factors

Temperature Correction Factor CFT							
Maximum Inlet Temperature	°C	25	30	35	40	45	50
	°F	77	86	95	104	113	122
	CFT	1.00	1.00	1.00	1.04	1.14	1.37

Pressure Correction Factor CFP											
Minimum Inlet Pressure	bar g	4	5	6	7	8	9	10	11	12	13
	psi g	58	73	87	100	116	131	145	160	174	189
	CFP	1.60	1.33	1.14	1.00	0.89	0.80	0.73	0.67	0.62	0.57

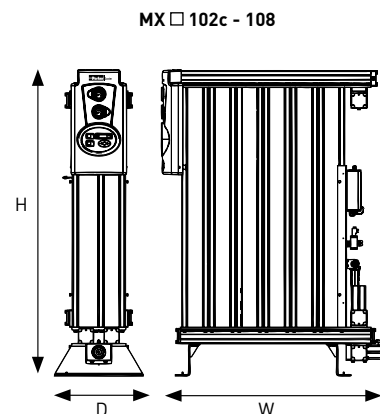
Dewpoint Correction Factor CFD		Option 2	Standard	Option 1
Required Dewpoint	PDP °C	-20	-40	-70
	PDP °F	-4	-40	-100
	CFD	0.91	1.00	1.43

Controller Options

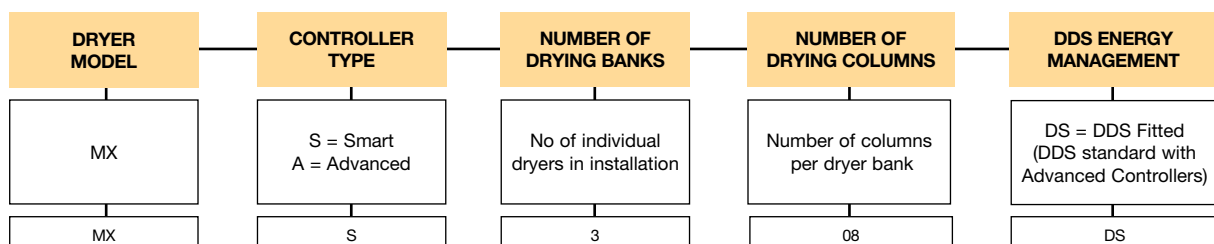
Controller Options	Function								
	Power on Indication	Fault Indication	Display Fault Condition Values	Service Interval Indication	Service Countdown Timers	Configurable Alarm Settings	Remote Volt Free Alarm Contacts	Filter Service Timer	DDS Energy Management System
SMART	•	•		•			•		
SMART DDS	•	•		•			•		•

Weights and Dimensions

Model	Port Connection	Dimensions						Weight	
		Height (H)		Width (W)		Depth (D)		kg	lbs
		mm	ins	mm	ins	mm	ins		
MX □ 102C	2"	1647	64.8	687	27.0	550	21.7	235	518
MX □ 103C	2"	1647	64.8	856	33.7	550	21.7	316	696
MX □ 103	2"	1892	74.5	856	33.7	550	21.7	355	782
MX □ 104	2"	1892	74.5	1025	40.3	550	21.7	450	992
MX □ 105	2½"	1892	74.5	1194	47.0	550	21.7	543	1197
MX □ 106	2½"	1892	74.5	1363	53.6	550	21.7	637	1404
MX □ 107	2½"	1892	74.5	1532	60.3	550	21.7	731	1611
MX □ 108	2½"	1892	74.5	1701	67.0	550	21.7	825	1818



Dryer Coding Example



Example: PNEUDRI model MXS308DS

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