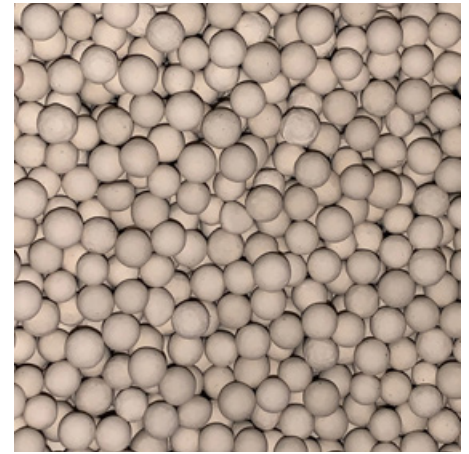


Clean, Dry Compressed Air Heatless Low Energy

MXLE 102C - MXLE 108



Adsorption Dryers

Whether a compressed air user wants to control the growth of micro-organisms (essential for direct and in-direct contact applications in the food, beverage & pharmaceutical industries), ensure air used for critical applications / instrumentation is free from water contamination or has external piping where low ambient temperature can cause condensation, adsorption dryers are the go to dryer technology.

There are many different adsorption dryer technologies available and whilst they all reduce water from the compressed air in the same way, they differ in the way they regenerate the desiccant material.

Vacuum Assisted Low Energy Adsorption Dryers

The simplest and most common method used to regenerate adsorbent desiccant material is the 'heatless' method (so called as it does not use heat for desiccant regeneration).

Using a proportion of the clean, dry process air for regeneration, heatless dryers typically have the lowest capital costs of all adsorption dryer types (due to the simplicity of the heatless design). Being very robust and having fewer components, they typically have the lowest maintenance cost of all the adsorption technologies.

Vacuum assisted Heatless Low Energy dryers maintain all the benefits and robustness of a standard heatless dryer whilst providing a reduction in the amount of process (purge) air and energy consumed .



Advantages

- Parker MXLE dryers provide a constant outlet dewpoint in accordance with ISO8573-1 classes 1, 2 or 3 for water vapour
- Parker MXLE dryers provide an outlet dewpoint which inhibits the growth of micro-organisms (allowing their efficient reduction using filtration)
- Parker MXLE dryers use clean, dry purge air for regeneration, eliminating any risk of damage to the adsorption bed or re-contamination of the downstream compressed air
- Parker MXLE dryer performance has been tested in accordance with ISO7183, the international standard for compressed air dryer testing
- No heat is used for regeneration; therefore, no insulation is required and loss of dewpoint on column changeover due to inefficient cool down is eliminated
- Full feature electronic control with dewpoint display and Energy Saving Technology fitted as standard
- Parker MXLE dryers include Parker OIL-X General Purpose & High Efficiency Coalescing pre-filtration and General Purpose Dry Particulate post filtration as standard
- Parker MXLE materials of construction are FDA Title 21 CFR compliant & EX1935/2004 exempt
- Specialist adsorbent fill method and modular design allow drying capacity to be easily increased should future air demand increase
- Vacuum assisted regeneration provides 17% more air for downstream applications and energy savings up to 62% lower than an equivalent heatless model
- Heatless fall back mode ensures dry compressed air is not lost if vacuum system is unavailable



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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	
MXLE	-40	-40	Class 2.2.2	-70	-100	Class 2.1.2	-20	-4	Class 2.3.2

ISO8573-1 Classifications when used with Parker domnick hunter OIL-X pre / post filtration

Technical Data

Dryer Models	Minimum Operating Pressure		Maximum Operating Pressure		Minimum Operating Temperature		Maximum Operating Temperature		Maximum Ambient Temperature		Electrical Supply (Standard)	Electrical Supply (Optional)	Thread Type	Noise Level dB(A)
	bar g	psi g	bar g	psi g	°C	°F	°C	°F	°C	°F				
MXLE 102C ~ MXLE 108	5	73	13	190	5	41	50	122	55	131	400V +/-10% 3PH 50Hz	460V +/-10% 3PH 60Hz	BSPP	<75

Flow Rates

Model	Pipe Size	Inlet Flow Rate			
		L/s	m³/min	m³/hr	cfm
MXLE 102C	2"	113	6.81	408	240
MXLE 103C	2"	170	10.22	612	360
MXLE 103	2"	213	12.75	765	450
MXLE 104	2½"	283	17	1020	600
MXLE 105	2½"	354	21	1275	750
MXLE 106	2½"	425	26	1530	900
MXLE 107	2½"	496	30	1785	1050
MXLE 108	2½"	567	34	2040	1200
2 x MXLE 105	2½"	708	43	2550	1500
2 x MXLE 106	2½"	850	51	3060	1800
2 x MXLE 107	2½"	992	60	3570	2100
2 x MXLE 108	2½"	1133	68	4080	2400
3 x MXLE 106	2½"	1275	77	4590	2700
3 x MXLE 107	2½"	1488	89	5355	3150
3 x MXLE 108	2½"	1700	102	6120	3600

Vacuum Pump Part Number & kW

Vacuum Pump 50Hz	Pump kW 50Hz	Vacuum Pump 60Hz	Pump kW 60Hz
MXLEP2C-E	3	MXLEP2C-E-60	4.8
MXLEP3C-E	3	MXLEP3C-E-60	4.8
MXLEP3-E	4	MXLEP3-E-60	6.5
MXLEP4-E	5.5	MXLEP4-E-60	9
MXLEP5-E	5.5	MXLEP5-E-60	9
MXLEP6-E	8	MXLEP6-E-60	13
MXLEP7-E	9.5	MXLEP7-E-60	15.5
MXLEP8-E	9.5	MXLEP8-E-60	15.5

Dryer & vacuum pump to be ordered separately.

Stated flows are for operation at 7 bar (g) (102 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 below.

Product Selection & Correction Factors

For correct operation, compressed air dryers must be sized using for the maximum (summer) inlet temperature, maximum (summer) ambient temperature, minimum inlet pressure, required outlet dewpoint and maximum flow rate of the installation.

To select a dryer, first calculate the MDC (Minimum Drying Capacity) using the formula below then select a dryer from the flow rate table above with a flow rate equal to or above the MDC.

Minimum Drying Capacity = System Flow x CFIT x CFAT x CFMIP x CFOD

CFIT - Correction Factor Maximum Inlet Temperature

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

CFAT - Correction Factor Maximum Ambient Temperature

Maximum Ambient Temperature	°C	25	30	35	40	45	50
	°F	77	86	95	104	113	122
Correction Factor		1.00	1.00	1.00	1.00	1.00	1.00

CFMIP - Correction Factor Minimum Inlet Pressure

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
Correction Factor		1.60	1.33	1.14	1.00	0.89	0.80	0.73	0.67	0.62	0.57

CFOD - Correction Factor Outlet Dewpoint

Outlet Dewpoint	°C	-20	-40	-70
	°F	-4	-40	-100
Correction Factor		0.91	1.00	1.43

Controller Functions

Dryer Models	Controller Function							
	Power On Indication	Visual Fault Indication	Dewpoint Display	EST - Energy Saving Technology	Filter Service Indicator	Dryer Service Indicator	Fault Relay: Power Loss Dewpoint Alarm Sensor Failure	4-20mA Dewpoint Re-transmission
MXLE	•	•	•	•		•	•	

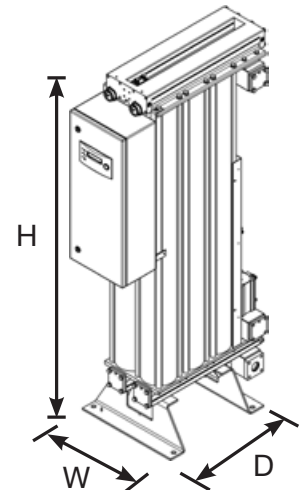
Included Filtration

Model	Pipe Size BSPP	Dryer Inlet		Dryer Outlet		
		General Purpose Pre-filter	High Efficiency Filter	Oil Vapour Reduction Filter	General Purpose Dry Particulate Filter	High Efficiency Dry Particulate Filter
MXLE 102C	2"	AOP040H	AAP040H	-	AOP040H	-
MXLE 103C	2"	AOP040H	AAP040H	-	AOP040H	-
MXLE 103	2"	AOP040H	AAP040H	-	AOP040H	-
MXLE 104	2½"	AOP045I	AAP045I	-	AOP045I	-
MXLE 105	2½"	AOP050I	AAP050I	-	AOP050I	-
MXLE 106	2½"	AOP050I	AAP050I	-	AOP050I	-
MXLE 107	2½"	AOP055I	AAP055I	-	AOP055I	-
MXLE 108	2½"	AOP055I	AAP055I	-	AOP055I	-

Filtration Performance	General Purpose Pre-filter	High Efficiency Filter	Oil Vapour Reduction Filter	General Purpose Dry Particulate Filter	High Efficiency Dry Particulate Filter
Filtration Grade	Grade AO	Grade AA	-	Grade AO	-
Filtration Type	Coalescing	Coalescing	-	Dry Particulate	-
Particle Reduction (inc water & oil aerosols)	Down to 1 micron	Down to 0.01 micron	-	Down to 1 micron	-
Maximum Remaining Oil Aerosol Content at 21°C	≤0.5 mg/m ³ (≤0.5 ppm(w))	≤0.01 mg/m ³ (≤0.01 ppm(w))	-	N/A	-
Maximum Remaining Oil Vapour Content at System Temperature	N/A	N/A	-	N/A	-
Filtration Efficiency	99.925%	99.9999%	-	99.925%	-

Weights & Dimensions

Model	Pipe Size BSPP	Dimensions (Dryer Only)						Weight (Dryer Only)	
		Height (H)		Width (W)		Depth (D)		kg	lbs
		mm	ins	mm	ins	mm	ins		
MXLE 102C	2"	1647	64.8	793	31.5	550	21.7	265	583
MXLE 103C	2"	1647	64.8	962	37.9	550	21.7	346	761
MXLE 103	2"	1892	74.5	962	37.9	550	21.7	385	847
MXLE 104	2½"	1892	74.5	1131	44.6	550	21.7	480	1056
MXLE 105	2½"	1892	74.5	1300	51.2	550	21.7	573	1261
MXLE 106	2½"	1892	74.5	1469	57.9	550	21.7	667	1467
MXLE 107	2½"	1892	74.5	1641	64.6	550	21.7	761	1674
MXLE 108	2½"	1892	74.5	1807	71.2	550	21.7	855	1881



Quality Assurance / IP Rating / Pressure Vessel Approvals

Development / Manufacture	ISO 9001 / ISO 14001 / Materials of Construction FDA Title 21 CFR Compliant & EC1935/2004 Exempt
Ingress Protection Rating	IP55 Indoor Use Only
EU	Pressure vessel approved for fluid group 2 in accordance with the Pressure Equipment Directive 2014/68/EU
USA	Approval to ASME VIII Div. 1 not required
AUS	Approval to AS1210 not required
GUS	TR (formerly GOST-R)
For use with Compressed Air Only	

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