



MXLELow energy heatless dryers



Compressed air contamination is a real problem for industry

In today's modern production facilities, the use of compressed air is often pivotal to manufacturing processes. Irrespective of whether the compressed air comes into direct contact with the product or is used to automate a process, provide motive power, or even to generate other gases on-site, a clean, dry, reliable compressed air supply is essential to maintain efficient and cost effective production.

Parker provides complete compressed air treatment solutions to suit every industry, application & budget.

The benefits of using Parker compressed air treatment solutions:

- Plant Reliability trouble free operation from equipment and processes using compressed air
- Clean Dry Air available for all applications
- No contamination of products / processes / equipment
- Low Maintenance Costs Reduce or eliminate unexpected / unplanned plant maintenance for better budget control
- Lower plant energy consumption
- Lower plant environmental impact
- Legislation compliance e.g. assist in complying with hygiene legislation in the Food, Beverage & Pharmaceutical industries







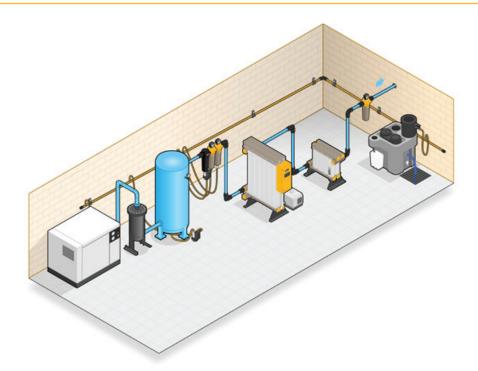






Compressed air dryers - The heart of the compressed air treatment solution

At the heart of any compressed air treatment solution is the dryer, it's purpose, to remove water vapour, stop condensation, corrosion and in the case of adsorption dryers, inhibit the growth of micro-organisms.



Heatless adsorption dryers (also known as PSA dryers) are the simplest type of adsorption dryer available and have long been the dryer of choice for many industries and applications. They are simple, reliable and cost effective and for small to medium flow systems, often

the only viable technology available. Additionally, modular heatless dryers such as MXLE provide an even more reliable, smaller, more compact & lightweight dryer which can be installed in both the compressor room or at the point of use.

Benefits of Heatless Adsorption Dryers

- Industry proven design
- Suitable for all industries and applications

 some adsorption dryer regeneration
 methods prevent their use in certain
 industries / applications
- Lower capital investment compared to other adsorption dryer regeneration methods
- Reduced complexity compared to other adsorption dryer regeneration methods

- Robust & reliable
- Uses clean, dry compressed air for regeneration making them suitable for all industries and applications
- Lower maintenance costs compared to other adsorption dryer regeneration methods
- No heat / heaters / heat related issues







Improving manufacturing efficiency

Every manufacturing organisation strives to improve its operational efficiency, especially in terms of energy consumption and environmental impact.

Heatless adsorption dryers use clean, dry process air for regeneration, but in real terms, this means that not all of the compressed air generated is available for manufacturing processes.

Generating compressed air uses electrical energy, so although heatless adsorption dryers have many benefits, the energy costs associated with this type of dryer may be higher when compared to other types of adsorption dryers with different regeneration methods.

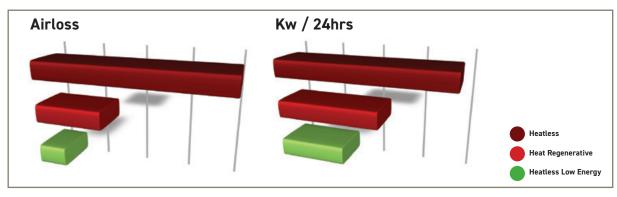


MXLE

Features & Benefits

- Complete clean dry air solution with guaranteed air quality
 - Includes Pre & Post Filtration
 - Delivered air quality in accordance with ISO8573-1
 - 3rd Party validated performance on both dryer and pre / post filtration
 - Dryer tested in accordance with ISO7183
 - Filters tested in accordance with ISO12500-1 / ISO8573-4
- Modular construction
 - Smaller, more compact & lightweight than traditional Twin Tower dryers
 - Fully expandable as your system grows
 - Existing MX dryers can be upgraded to extend life of existing capital equipment and lower capital expenditure
- Low energy heatless technology
 - 17% more air available for use than a comparative heatless dryer
 - On average, 60% lower energy consumption than a comparative heatless dryer & 39% lower energy consumption than a comparative heat regenerative dryer

- Energy Management System fitted as standard for additional savings
- Suitable for all industrial applications
- Ideally suited for food, beverage and pharmaceutical industries & applications
 - Uses clean dry process air for regeneration (no contamination of adsorption bed)
 - Materials of Construction FDA Title 21 Compliant and EC1935-2004 exempt
- · Heatless fall back mode for extra security
 - Extra security should a fault occur with the vacuum pump, dryer can be operated in full heatless mode to keep plant operational
- Lower total cost of ownership
 - Low running costs
 - Shorter maintenance times & extended preventative maintenance periods
 - Lower maintenance costs compared to other types of low energy dryer







MXLE

Product selection

	Model	Dina Cina	Flowrates					
	wodei	Pipe Size	L/s	m³/min	m³/hr	cfm		
	MXLE 102C	2"	113	6.81	408	240		
¥	MXLE 103C	2"	170	10.22	612	360		
Bank	MXLE 103	2"	213	12.78	765	450		
Single	MXLE 104	21/2"	283	17.03	1020	600		
S	MXLE 105	21/2"	354	21	1275	750		
	MXLE 106	21/2"	425	26	1530	900		
	MXLE 107	21/2"	496	30	1785	1050		
	MXLE 108	21/2"	567	34	2040	1200		



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

Dryer performance

Dryer Models	Dewpoint (Standard)		ISO8573-1:2010 Classification	Dewpoint (Option 1)		ISO8573-1:2010 Classification	Dewpoint (Option 2)		ISO8573-1:2010 Classification	
•	°C	°F	(standard)	°C	°F	(Option 1)	°C	°F	(Option 2)	
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 included Parker OIL-X pre / post filtration

Technical data

Dryer Models	Des	Min erating essure		Max erating essure		Min rating Temp	Оре	Max erating Temp		Max bient Temp	Electrical supply	Electrical supply	Thread Connections	Noise Level
	bar g	psi g	bar g	psi g	°C	· ·		(44.44.4)	(optional)		dB (A)			
MXLE	5	58	13	190	5	41	50	122	55	131	400V +/- 10% 3PH 50Hz 460V +/- 4.35% 3PH 60Hz	N/A	BSPP	<75

Model		MXLE102c	MXLE103c	MXLE103	MXLE104	MXLE105	MXLE106	MXLE107	MXLE108
Vacuum	50Hz	3	3	4	5.5	5.5	8	9.5	9.5
Pump kW	60Hz	4.8	4.8	6.5	9	9	13	15.5	15.5

Correction factors

Temperature Correction Factor CFT										
	°C		25	30		35	40		45	50
Maximum Inlet Temperature	°F		77	86		95	104	1	13	122
. oporataro	CFT	1.	00	1.00	1.	00	1.04	1.	14	1.37
Pressure Correction	Pressure Correction Factor CFP									
	bar g	5	6	7	8	9	10	11	12	13
Minimum Inlet Pressure	psi g	73	87	100	116	131	145	160	174	189
	CFP	1.33	1.14	1.00	0.89	0.80	0.73	0.67	0.62	0.57
Dewpoint Correcti	D	0	ption	2	Standard Op			Opti	on 1	

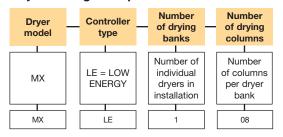
Dewpoint Correction Factor CFD		Option 2	Standard	Option 1
	PDP °C	-20	-40	-70
Required Dewpoint	PDP °F	-4	-40	-100
2011-201111	CFD	0.91	1.00	1.43

For correct operation, compressed air dryers must be sized for the minimum inlet pressure, maximum inlet temperature and maximum flow rate at the point of 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 greater than the MDC.

Minimum Drying Capacity = System Flow x CFT x CFP x CFD

Dryer coding example



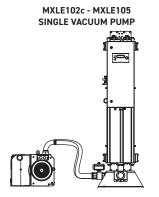
Part numbers

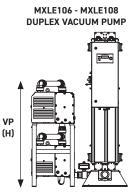
Dryer Part	Numbers	Vacuum Pump	Vacuum Pump	Dryer	
-20°C /-40°C PDP	-70°C PDP	Part Numbers 50Hz	Part Numbers 60Hz	Upgrade Kits Part Numbers	
MXLE102C	MXLE102C-70	MXLEP2C-E	MXLEP2C-E-60	MXLEK2C	
MXLE103C	MXLE103C-70	MXLEP3C-E	MXLEP3C-E-60	MXLEK3C	
MXLE103	MXLE103-70	MXLEP3-E	MXLEP3-E-60	MXLEK3	
MXLE104	MXLE104-70	MXLEP4-E	MXLEP4-E-60	MXLEK4	
MXLE105	MXLE105-70	MXLEP5-E	MXLEP5-E-60	MXLEK5	
MXLE106	MXLE106-70	MXLEP6-E	MXLEP6-E-60	MXLEK6	
MXLE107	MXLE107-70	MXLEP7-E	MXLEP7-E-60	MXLEK7	
MXLE108	MXLE108-70	MXLEP8-E	MXLEP8-E-60	MXLEK8	

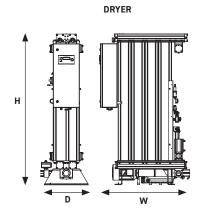
Weights and dimensions

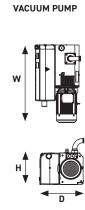
		Dryer Dimensions									
Model	Pipe Size	Height (H)		Width	Width (W)		Depth (D)		ight		
		mm	ins	mm	ins	mm	ins	kg	lbs		
MXLE102c	2"	1647	64.8	793.5	31.5	550	21.7	265	583		
MXLE103c	2"	1647	64.8	962.5	37.9	550	21.7	346	761		
MXLE103	2"	1892	74.5	962.5	37.9	550	21.7	385	847		
MXLE104	21/2"	1892	74.5	1131.5	44.6	550	21.7	480	1056		
MXLE105	21/2"	1892	74.5	1300.5	51.2	550	21.7	573	1261		
MXLE106	21/2"	1892	74.5	1469.5	57.9	550	21.7	667	1467		
MXLE107	21/2"	1892	74.5	1641.5	64.6	550	21.7	761	1674		
MXLE108	21/2"	1892	74.5	1807.5	71.2	550	21.7	855	1881		

			Vacuu	ım Pum	p Dimer	nsions		
Model	Heig	ht (H)	Widt	h (W)	Dept	th (D)	Weight	
	mm	ins	mm	ins	mm	ins	kg	lbs
MXLE102c	400	15.75	933	36.73	523	20.59	89	196
MXLE103c	400	15.75	933	36.73	523	20.59	89	196
MXLE103	400	15.75	933	36.73	523	20.59	194	428
MXLE104	400	15.75	933	36.73	523	20.59	184	406
MXLE105	400	15.75	933	36.73	523	20.59	184	406
MXLE106	1304	51.34	1100	43.31	560	22.05	420	926
MXLE107	1304	51.34	1100	43.31	560	22.05	390	860
MXLE108	1304	51.34	1100	43.31	560	22.05	390	860









Included filtration

For Dryer Model	Filter Pipe Size BSPP	Inlet General Purpose Pre-filter	Inlet High Efficiency Filter	Outlet Dry Particulate Filter
MXLE 102C	2"	AOPX040H	AAPX040H	AOPX040H
MXLE 103C	2"	AOPX040H	AAPX040H	AOPX040H
MXLE 103	2"	AOPX040H	AAPX040H	AOPX040H
MXLE 104	21/2"	AOPX045I	AAPX045I	AOPX045I
MXLE 105	21/2"	AOPX050I	AAPX050I	AOPX050I
MXLE 106	21/2"	AOPX050I	AAPX050I	AOPX050I
MXLE 107	21/2"	AOPX055I	AAPX055I	AOPX055I
MXLE 108	21/2"	AOPX055I	AAPX055I	AOPX055I

Parker Worldwide

Europe, Middle East, Africa

AE - United Arab Emirates,

Dubai

Tel: +971 4 8127100

AT - Austria, St. Florian

Tel: +43 (0)7224 66201

AZ - Azerbaijan, Baku Tel: +994 50 2233 458

BE/NL/LU - Benelux,

Hendrik Ido Ambacht

Tel: +31 (0)541 585 000

BY - Belarus, Minsk

Tel: +48 (0)22 573 24 00

CH - Switzerland, Etoy Tel: +41 (0)21 821 87 00

CZ - Czech Republic,

Prague

Tel: +420 284 083 111

DE - Germany, Kaarst

Tel: +49 (0)2131 4016 0

DK - Denmark, Ballerup

Tel: +45 43 56 04 00

ES - Spain, Madrid

Tel: +34 902 330 001

FI - Finland, Vantaa

Tel: +358 (0)20 753 2500

FR - France, Contamine s/Arve

Tel: +33 (0)4 50 25 80 25

GR - Greece

Tel: +30 69 44 52 78 25

HU - Hungary, Budaörs

Tel: +36 23 885 470

IE - Ireland, Dublin

Tel: +353 (0)1 466 6370

IL - Israel

Tel: +39 02 45 19 21

IT - Italy, Corsico (MI)

Tel: +39 02 45 19 21

KZ - Kazakhstan, Almaty

Tel: +7 7273 561 000

NO - Norway, Asker

Tel: +47 66 75 34 00

PL - Poland, Warsaw

Tel: +48 (0)22 573 24 00

PT - Portugal

Tel: +351 22 999 7360

RO - Romania, Bucharest

South America

Tel: +54 3327 44 4129

Tel: +55 080 0727 5374

CL - Chile, Santiago

Tel: +56 22 303 9640

MX - Mexico, Toluca

Tel: +52 72 2275 4200

AR - Argentina, Buenos Aires

BR - Brazil, Sao Jose dos Campos

Tel: +40 21 252 1382

RU - Russia, Moscow

Tel: +7 495 645-2156

SE - Sweden, Borås

Tel: +46 (0)8 59 79 50 00

SL - Slovenia, Novo Mesto

Tel: +386 7 337 6650

TR - Turkey, Istanbul

Tel: +90 216 4997081

UK - United Kingdom, Warwick

Tel: +44 (0)1926 317 878

ZA - South Africa, Kempton Park

Tel: +27 (0)11 961 0700

North America

CA - Canada, Milton, Ontario

Tel: +1 905 693 3000

US - USA, Cleveland

Tel: +1 216 896 3000

Asia Pacific

AU - Australia, Castle Hill

Tel: +61 (0)2-9634 7777

CN - China, Shanghai

Tel: +86 21 2899 5000

HK - Hong Kong

Tel: +852 2428 8008

IN - India. Mumbai

Tel: +91 22 6513 7081-85

JP - Japan, Tokyo

Tel: +81 (0)3 6408 3901

KR - South Korea, Seoul

Tel: +82 2 559 0400

MY - Malaysia, Shah Alam

Tel: +60 3 7849 0800

NZ - New Zealand, Mt Wellington

Tel: +64 9 574 1744

SG - Singapore

Tel: +65 6887 6300

TH - Thailand, Bangkok

Tel: +662 186 7000

TW - Taiwan, Taipei Tel: +886 2 2298 8987

© 2021 Parker Hannifin Corporation. All rights reserved.

CATMXLE-04-EN



EMEA Product Information Centre Free phone: 00 800 27 27 5374

(from AT, BE, CH, CZ, DE, DK, EE, ES, FI, FR, IE, IL, IS, IT, LU, MT, NL, NO, PL, PT, RU, SE, SK, UK, ZA)

US Product Information Centre Toll-free number: 1-800-27 27 537

www.parker.com/gsfe

Your local authorized Parker distributor