



White Paper

How to Size and Select Parker GSFE
Compressed Air Treatment Products

By Mark White - Compressed Air Treatment Applications Manager



ENGINEERING YOUR SUCCESS.

www.parker.com/gsfe

Selecting the right purification products for your compressed air system

To achieve the degree of air quality specified by ISO8573-1, a careful approach to system design, commissioning and operation must be adopted.

Parker recommends that compressed air is treated:

- Prior to entry into the distribution system
- At critical usage points and applications

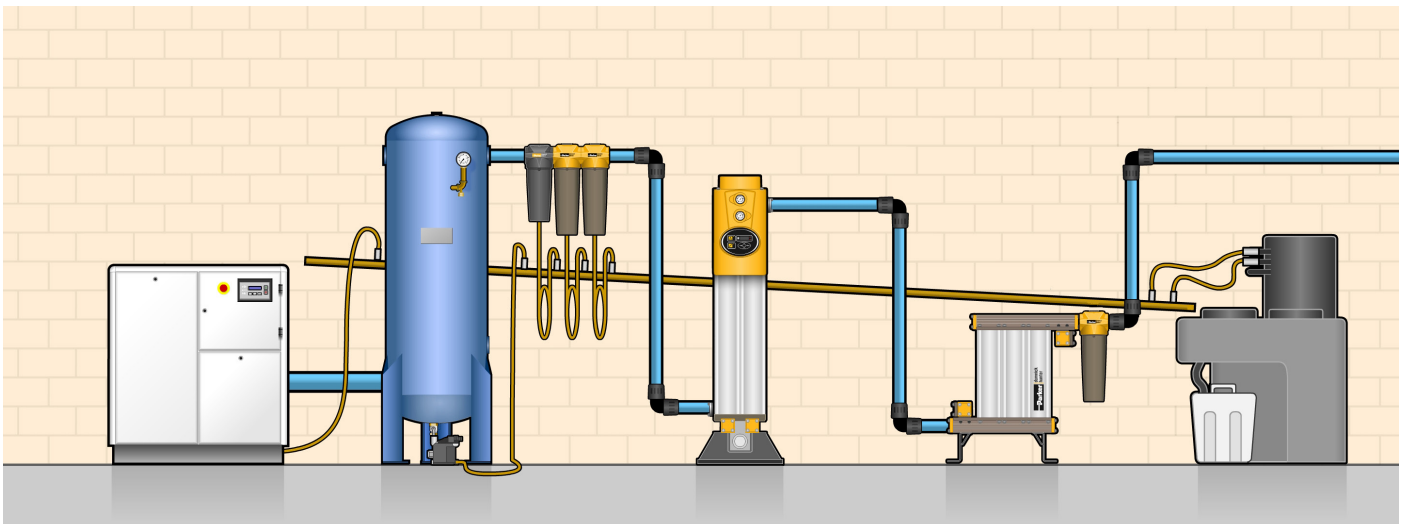
This ensures that contamination already in the distribution system is removed.

Purification equipment should be installed where the air is at the lowest possible temperature (i.e. downstream of after-coolers and air receivers). Point-of-use purification equipment should be installed as close as possible to the application.

In order to correctly size purification equipment, there are a number of primary operating parameters that must be obtained from the users site. These are:

- The MAXIMUM compressed air flow rate into the filters / dryer
- The MINIMUM operating pressure into the filters / dryer
- The MAXIMUM operating temperature into the filters / dryer
- The MAXIMUM ambient air temperature where the equipment is to be installed
- The required Dewpoint (dryers)

Individually, each of the primary operating parameters can influence product sizing however collectively they can have a major impact on product sizing and performance.



With the primary operating parameters, basic product selections can be made, however additional information may also be required to finalise product selection. Secondary parameters include:

- Minimum operating temperature
- Preferred pipe connections
- Available electrical supply (voltage / phase / frequency)
- Customers preference regarding drains, controllers or other options

Why is MAXIMUM Flow Rate Important?

Filtration: As compressed air flow rates increase, contamination levels increase and a larger filtration surface area is required to ensure adequate filtration performance, low pressure drop and 12 month lifetime of filter elements.

Dryers: As compressed air flow rates increase, the amount of water vapour the dryer must remove also increases.

Adsorption dryers must be sized on the highest flow rate to ensure the desiccant bed is large enough to provide the correct contact time and dewpoint.

Refrigeration dryers must be sized to ensure the heat exchanger is large enough and has enough cooling capacity.



Why is MINIMUM Inlet Pressure Important?

Dryers: As pressure decreases, the volume of compressed air increases, as does the water vapour content, therefore the amount of water vapour the dryer must remove also increases. Dryers must be sized for minimum inlet pressure to account for the increased amount of water vapour present.



Why is MAXIMUM Inlet Temperature Important?

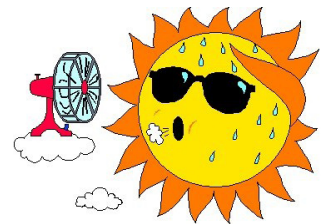
Dryers: As the temperature of the compressed air increases, so does the water vapour content, therefore the amount of water vapour the dryer must remove also increases. Dryers must be sized for maximum inlet temperature to account for the increased amount of water vapour present.



Why is MAXIMUM Ambient Temperature Important?

Refrigeration & Tandem Technology Dryers: Air cooled refrigeration & Tandem Technology dryers use ambient air for heat exchange.

The lower the ambient air temperature, the better the heat exchange process. Poor ventilation and / or high ambient air temperatures will result in loss of dewpoint.



Why correct a dryer for Dewpoint?

Adsorption Dryers: Dewpoint is derived from contact time between the air and the desiccant material, lower dewpoint's typically require the dryer to be de-rated to provide more contact time.

Refrigeration Dryers: The size of the heat exchangers affects the cooling capacity, too little cooling capacity results in poor dewpoint.



Frequently asked questions High / Low Temperatures

High Temperatures

Max temp (inlet & ambient) for dryers is 50°C or 122°F. For temperatures above this it is more cost effective to install an after-cooler than oversize a dryer. Also as a dryer increases in size, so does the volume of purge required to regenerate the dryer. Fitting an after-cooler is also more cost effective in terms of energy consumption.

Low Temperatures

Freezing water causes damage to a dryer therefore as the temperature approaches freezing, the dryer and ancillaries need protection. Sub-zero temperatures also affect the function of seals and electronics.

- Always keep purification equipment under shelter and out of cold wind / direct air blasts
- Trace heat & insulate anywhere where moisture is present i.e. Inlet filtration / drain lines / Inlet valves / columns / exhaust valves



Correct Product Selection

Compressed air filter and dryer literature will typically show the flow rate of the purification equipment at a set of reference conditions (usually the reference conditions of a standard to which the product was tested to).

The users compressed air system will rarely match all of these conditions, and if the product is not “re-sized” to match the site conditions, the product will fail to provide the correct filtration performance or dewpoint and allow contamination to continue downstream.

To re-size purification equipment to match the site conditions, correction factors are typically applied to the literature flow rates in order to adjust the product performance to match site conditions and allow correct operation of the equipment.

Below are examples of how to correctly size compressed air filters and dryers.

Filter Selection

Coalescing filters are installed to reduce six of the ten most common compressed air contaminants (water aerosols, oil aerosols, atmospheric particulate, rust, pipescale & micro-organisms). Dry particulate filters four of the ten contaminants (atmospheric particulate, rust, pipescale & micro-organisms). To ensure consistent filtration performance, filters must be sized for the maximum flow of compressed air at the minimum system operating pressure (not the discharge pressure of the compressor).

Unlike compressed air dryers or adsorption filters, only one correction factor is required

Filter selection example

Maximum Inlet Flow Rate	: 1500 m ³ /hr
Minimum Inlet Pressure	: 8.3 bar g
Maximum Temperature	: 40°C
Minimum Temperature	: 10°C
Pipe connections required	: 2 ½"
Thread type required	: BSPP
Filtration grade required	: Grade AO & Grade AA
Incident monitor required	: No

1. Ensure the maximum and minimum operating temperatures and pressure are within the operational parameters of the filter range

2. Select the correction factor for minimum operating pressure from the CFP table

Correction Factor for 8.3 bar g = 0.94

Line Pressure		Correction Factor Pressure (CFP)
bar g	psi g	
6	87	1.08
7	100	1.00
8	116	0.94
9	131	0.88

Important Notes:

Pressure: Always round down to nearest factor i.e. for 8.3 bar g use correction factor for 8 bar g

Flow: The Filter or Water Separator selected must have a flow rate equal to or greater than the minimum filtration capacity

3. Calculate the minimum filtration capacity

Minimum filtration capacity = Max compressed air flow rate x CFP

Minimum filtration capacity = 1500 m³/hr x 0.94 = 1410 m³/hr

4. Using the minimum filtration capacity, select a filter model from the literature flow rate tables

(filter selected must have a flow rate equal to or greater than the minimum filtration capacity)

Filter Model selected = 050 size

5. Select the pipe connections for the filter model selected

Existing pipe connections are 2 ½" therefore model selected = P050I

6. Select thread type required for the filter model selected

BSPP Threads are required therefore model selected = P050IG

7. Select filtration grade or grades

Grades AO & AA are required therefore models selected are AOP050IG & AAP050IG

8. Select Coalescing or Dry Particulate Use (Drain Selection or Pressures above 16 bar g)

If grade AO or AA is used as a coalescing filter then a float drain is required (up to 16 bar g). This is signified by using a letter F in the code.

If grade AO or AA is used as a dry particulate filter or for pressures above 16 bar then a manual drain is required. This is signified by using a letter M in the code. For ACS, the M for manual drain should be selected.

As filters are for use as coalescing filters and operating pressure is below 16 bar g, therefore models selected are AOP050IGF & AA050IGF

9. Is an incident monitor required (blockage indicator)

An incident monitor is standard up to 1 1/2" and is signified by the letter I. Filters from 2" to 4" are not available with an indicator from the factory (denoted by the letter X).

Final part numbers for the filters selected are **AOP050IGFX & AAP050IGFX**

Model	Port	Flow Rates			
		L/s	m ³ /min	m ³ /hr	cfm
GRADE P045I □ (※) X	2 ½"	330	19.8	1188	699
GRADE P050I □ (※) X	2 ½"	430	25.9	1548	911
GRADE P055I □ (※) X	2 ½"	620	37.3	2232	1314
GRADE P055J □ (※) X	3"	620	37.3	2232	1314

Dryer Selection

Compressed air dryers are installed to reduce the amount of water vapour in compressed air. To ensure consistent outlet dewpoint, dryers must be sized for the maximum amount of water vapour in the compressed air system (worst case conditions). Water vapour content is highest when system pressure is lowest, system temperature is highest and air flow (usage) is at maximum.

In the first instance, dryer selection should be carried out using the Parker sizing and selection software. If selection software is unavailable, correction factors should be applied to the dryer flow rates shown within this document. Apply correction factors if the minimum operating parameters are different to the reference conditions shown.

Dryer Selection Example

Maximum Inlet Flow Rate : 1500 m³/hr
 Minimum Inlet Pressure : 8.3 bar g
 Maximum Temperature : 40°C
 Maximum Ambient Temperature : 30°C
 Dewpoint of Compressed Air : -40°C

Minimum Temperature : 10°C
 Thread type required : BSPP
 Controller required : SMART
 Energy Management System required? : Yes

1. Select an appropriate dryer range from the flow rate tables.

**Dryer Ranges Providing
-20°C PDP / -40°C PDP / -70°C PDP**

Heatless	Flows (m ³ /hr)	Flows (cfm)	Low Energy Dryers	Flows (m ³ /hr)	Flows (cfm)
MIDAS - DAS	5.1 - 34	3 - 20	MXLE 102c - 108	408 - 2040	240 - 1200
MIDI - DME 012	40	24	Antares ATT025 - 0340	150 - 2040	88 - 2040
CDAS HL 50 - 85	55 - 300	32 - 177	WVM	2300 - 14210	1354 - 8364
OFAS HL 50 - 85	55 - 300	32 - 177			
MX 102c - 108	408 - 2040	240 - 1200			
K-MT 180 - 220	2500 - 6100	1472 - 3590			

**Dryer Ranges Providing
+3°C PDP / +7°C PDP / +10°C PDP**

Refrigeration Dryers	Flows (m ³ /hr)	Flows (cfm)
Starlette SPE 004 - 100	24 - 600	14 - 353
Polestar PST	450 - 10800	235 - 6357
Polestar Twin	14400 - 21600	8470 - 12705
Quasar	10200 - 21000	6004 - 12361

2. Ensure the maximum and minimum operating temperatures and pressure are within the operational parameters of the dryer range

3. Select the correction factor for maximum inlet temperature from the CFIT table

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

Correction Factor for 40°C = 1.04

4. Select the correction factor for 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

Correction Factor for 30°C = 1.00

5. Select the correction factor for minimum Inlet pressure from the CFP table

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

Correction Factor for 8.3 bar g = 0.89

6. Select the correction factor for the required dewpoint from the CFD

Maximum Inlet Temperature	°C	-20	-40	-70
	°F	-4	-40	-100
Correction Factor		0.91	1	1.43

Correction Factor for -40°C PDP = 1.00

Important Notes:

Temperature: Always round up to the next correction factor i.e. for 38°C select the correction factor for 40°C

Pressure: Always round down to nearest factor i.e. for 8.3 bar g select the correction factor for 8 bar g

Flow: The dryer selected must have a flow rate equal to or greater than the minimum filtration capacity

7. Calculate the minimum drying capacity

Minimum drying capacity = Compressed air flow rate x CFIT x CFAT x CFP x CFD

Minimum drying capacity = 1500 m³/hr x 1.04 x 1.00 x 0.89 x 1.00 = 1388 m³/hr

Using the minimum drying capacity, select an MX dryer model from the literature flow rate tables

Model selected = MX106

8. Which controller is required?

Smart controller is required therefore model selected = MXS106

9. Is DDS Energy Management System required?

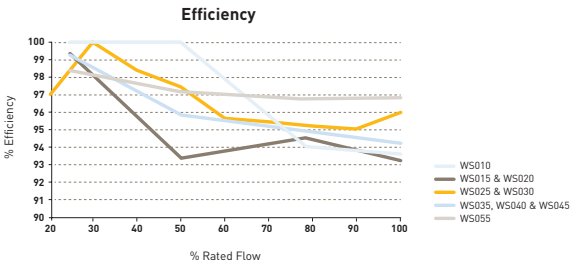
DDS Energy Management system is required therefore model selected = MXS106DS

	Model	Flow	
		m ³ /hr	cfm
Single Bank	MX □ 102C	408	240
	MX □ 103C	612	360
	MX □ 103	765	450
	MX □ 104	1020	600
	MX □ 105	1275	750
	MX □ 106	1530	900
	MX □ 107	1785	1050
	MX □ 108	2040	1200

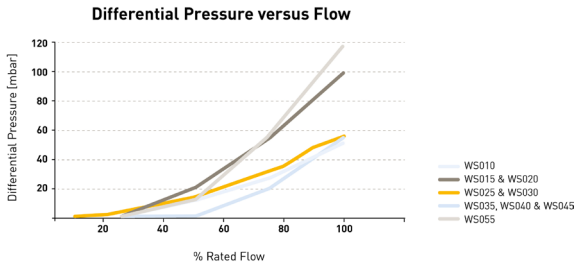
OIL-X Water Separators

Separation Performance

Liquid Removal % versus Flow Performance
(models WS010 - WS055)



Differential Pressure versus Flow
(models WS010 - WS055)



Technical Data

Grade	Water Separator Models	Min Operating Pressure		Max Operating Pressure		Min Operating Temp		Max Operating Temp	
		bar g	psi g	bar g	psi g	°C	°F	°C	°F
WS	P010A □ FX - P055J □ FX	1	15	16	232	2	35	80	176
WS	P060K □ FX	1	15	16	232	2	35	66	150

Flow Rates

Model	Pipe Size	L/S	m³/min	m³/hr	cfm
WSP010A □ FX	1/4"	10	0.6	36	21
WSP010B □ FX	3/8"	10	0.6	36	21
WSP010C □ FX	1/2"	10	0.6	36	21
WSP015C □ FX	1/2"	40	2.4	144	85
WSP020D □ FX	3/4"	40	2.4	144	85
WSP025D □ FX	3/4"	110	6.6	396	233
WSP025E □ FX	1"	110	6.6	396	233
WSP030G □ FX	1 1/2"	110	6.6	396	233
WSP035G □ FX	1 1/2"	350	21	1260	742
WSP040H □ FX	2"	350	21	1260	742
WSP045I □ FX	2 1/2"	350	21	1260	742
WSP050I □ FX	2 1/2"	800	48	2880	1695
WSP055J □ FX	3"	800	48	2880	1695
WSP060K □ FX	4"	1000	60	3600	2119

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.

Water separator coding example WS010 - WS055

Grade	Model	Pipe Size	Connection Type	Drain Option	Incident Monitor Option
WS	P & 3 digit code denotes filter housing size	Letter denotes pipe size	G = BSPP N = NPT DN = Flanged	F = Float	X = None
Example code					
WS	P010	A	G	F	X

Note:
Connection options
Models WSP010 - WSP060
Models WS800F - WS7200F
G = BSPP / N = NPT.
DN = flanged.

Product Selection & Correction Factors

To correctly select a separator model, the flow rate of the separator must be adjusted for the minimum operating pressure of the system.

1. Obtain the minimum operating pressure and maximum compressed air flow rate at the inlet of the separator.
2. Select the correction factor for minimum operating pressure from the CFP table (always round down e.g. for 5.3 bar, use 5 bar correction factor)
3. Calculate the minimum filtration capacity. Minimum Filtration Capacity = Compressed Air Flow Rate x CFP
4. Using the minimum filtration capacity, select a separator model from the flow rate tables above (separator selected must have a flow rate equal to or greater than the minimum filtration capacity).

CFP - Correction Factor Minimum Inlet Pressure

Minimum Inlet Pressure	bar g	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	psi g	15	29	44	58	73	87	100	116	131	145	160	174	189	203	218	232
Correction Factor		4.00	2.63	2.00	1.59	1.33	1.14	1.00	0.94	0.89	0.85	0.82	0.79	0.76	0.73	0.71	0.68

OIL-X Coalescing / Dry Particulate / Oil Vapour Removal Filters

Filtration Performance

Filtration Grade	Filter Type	Particle removal (inc water & oil aerosols)	Max Remaining Oil Content at 21°C (70°F)		Filtration Efficiency	Initial Dry Differential Pressure	Initial Saturated Differential Pressure	Change Element Every	Precede with Filtration Grade
A0	Coalescing & Dry Particulate	Down to 1 micron	0.5 mg/m ³	0.5 ppm(w)	99.925%	<70 mbar (1 psi)	<125 mbar (1.8 psi)	12 months	WS (for bulk liquid)
AA	Coalescing & Dry Particulate	Down to 0.01 micron	0.01 mg/m ³	0.01 ppm(w)	99.9999%	<70 mbar (1 psi)	<125 mbar (1.8 psi)	12 months	A0
ACS	Oil Vapour Removal	N/A	0.003 mg/m ³ 0.003 ppm(w)		N/A	<140 mbar (2 psi)		N/A	When oil vapour is detected A0+AA

Technical Data

Filter Grade	Filter Models	Min Operating Pressure		Max Operating Pressure		Min Operating Temp		Max Operating Temp	
		bar g	psi g	bar g	psi g	°C	°F	°C	°F
AO/AA	P010 - P055 (Float Drain)	1	15	16	232	2	35	80	176
AO/AA	P010 - P055 (Manual Drain)	1	15	20	290	2	35	80	176
AO/AA	P060 (Float Drain)	1	15	16	232	2	35	66	150
AO/AA	P060 (Manual Drain)	1	15	20	290	2	35	100	212
AO/AA	065 - 095 (Electronic Drain)	1	15	16	232	2	35	60	140
AO/AA	065 - 095 (Manual Drain)	1	15	16	232	2	35	80	176
ACS	P010 - P055 (Manual Drain)	1	15	20	290	2	35	50	122
ACS	P060 (Manual Drain)	1	15	20	290	2	35	50	122
ACS	065 - 095 (Manual Drain)	1	15	16	232	2	35	50	122

Flow Rates

Model	Pipe Size	L/S	m ³ /min	m ³ /hr	cfm	Replacement Element kit	No.
P010A ☐ ☐ ☐	1/4"	10	0.6	36	21	P010 P010	1
P010B ☐ ☐ ☐	3/8"	10	0.6	36	21	P010 P010	1
P010C ☐ ☐ ☐	1/2"	10	0.6	36	21	P010 P010	1
P015C ☐ ☐ ☐	1/2"	20	1.2	72	42	P015 P015	1
P020C ☐ ☐ ☐	1/2"	30	1.8	108	64	P020 P020	1
P020D ☐ ☐ ☐	3/4"	30	1.8	108	64	P020 P020	1
P025D ☐ ☐ ☐	3/4"	60	3.6	216	127	P025 P025	1
P025E ☐ ☐ ☐	1"	60	3.6	216	127	P025 P025	1
P030G ☐ ☐ ☐	1 1/2"	110	6.6	396	233	P030 P030	1
P035G ☐ ☐ ☐	1 1/2"	160	9.6	576	339	P035 P035	1
P040H ☐ ☐ ☐	2"	220	13.2	792	466	P040 P040	1
P045I ☐ ☐ ☐	2 1/2"	330	19.8	1188	699	P045 P045	1
P050I ☐ ☐ ☐	2 1/2"	430	25.9	1548	911	P050 P050	1
P055I ☐ ☐ ☐	2 1/2"	620	37.3	2232	1314	P055 P055	1
P055J ☐ ☐ ☐	3"	620	37.3	2232	1314	P055 P055	1
P060K ☐ ☐ ☐	4"	1000	60	3600	2119	P060 P060	3
065ND ☐ ☐ ☐	DN80	620	37.2	2232	1312	200 200	1
0700D ☐ ☐ ☐	DN100	1240	74.4	4464	2625	200 200	2
075PD ☐ ☐ ☐	DN150	1860	111.6	6696	3938	200 200	3
080PD ☐ ☐ ☐	DN150	2480	148.8	8928	5251	200 200	4
085QD ☐ ☐ ☐	DN200	3720	223.2	13392	7877	200 200	6
090RD ☐ ☐ ☐	DN250	6200	372	22320	13129	200 200	10
095SD ☐ ☐ ☐	DN300	8680	520.8	31248	18380	200 200	14

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

To correctly select a filter model, the flow rate of the filter must be adjusted for the minimum operating pressure of the system.

- Obtain the minimum operating pressure and maximum compressed air flow rate at the inlet of the filter.
- Select the correction factor for minimum operating pressure from the CFP table (always round down e.g. for 5.3 bar, use 5 bar correction factor)
- Calculate the minimum filtration capacity. Minimum Filtration Capacity = Compressed Air Flow Rate x CFP
- Using the minimum filtration capacity, select a filter model from the flow rate tables above [filter selected must have a flow rate equal to or greater than the minimum filtration capacity].

CFP - Correction Factor Minimum Inlet Pressure

Minimum Inlet Pressure	bar g	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	psi g	15	29	44	58	73	87	100	116	131	145	160	174	189	203	218	232	248	263	277	290
Correction Factor		2.65	1.87	1.53	1.32	1.18	1.08	1.00	0.94	0.88	0.84	0.80	0.76	0.73	0.71	0.68	0.66	0.64	0.62	0.61	0.59

When ordering a filter for pressures above 16 bar (g) [232 psi (g)], use a manual drain. Replace F with M in product code. e.g. AOP015BGFX becomes AOP015BGMX. Models 150 - 500 are not suitable for pressures above 16 bar (g) [232 psi (g)]

Filter coding example P010 - P055

Grade	Model	Pipe Size	Connection Type	Drain Option	Incident Monitor Option
A0	P & 3 digit code denotes filter housing size	Letter denotes pipe size	G = BSPP N = NPT D = Flanged	F = Float M = Manual	I = Indicator X = None
Example code					
A0	P010	A	G	F	I

Note:
Connection options
Models P010 - P060
Models 065 - 095
G = BSPP / N = NPT.
D = flanged.

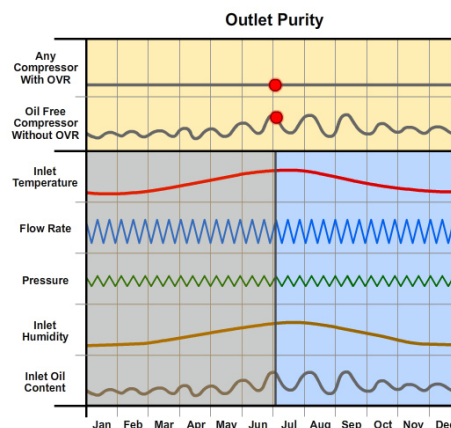
OVR product selection

To ensure correct air quality, OIL-X EVOLUTION Grade OVR filters must always be installed downstream of OIL-X EVOLUTION Grade AO General Purpose and Grade AA High Efficiency coalescing filters to ensure the removal of oil aerosols.

Correctly selecting an OIL-X EVOLUTION Grade OVR filter ensures both consistent air quality and 12 months lifetime from the activated carbon cartridges.

Product selection requires the literature flow rate of the unit to be adjusted to match the actual operating pressure and maximum (summer) temperature of the compressed air system, location of the unit within the compressed air system (before or after a dryer) and for the type of air compressor used (oil lubricated or oil free).

Typically, the inlet oil vapour concentration of a standard compressed air system does not exceed 0.05 mg/m^3 , therefore the standard OVR literature correction factors do not include factors for inlet concentration. There are circumstances where by the inlet concentration of oil vapour is known to be higher. In such instances, the additional correction factors shown on page 8 should be applied.



1 System Information Required for OVR Sizing & Selection

- Minimum pressure at the inlet of the OVR
- Compressor type (oil lubricated or oil free)
- Maximum inlet temperature at the inlet of the OVR (highest summer inlet temp)
- Maximum compressed air flow rate
- Dewpoint of the compressed air (i.e. is the proposed location of the unit before or after a compressed air dryer)
- Oil vapour concentration expected at the inlet of the OVR

2 Select correction factors

- For minimum inlet pressure, select a correction factor from the CFIP table that corresponds to the minimum inlet pressure of the compressed air system, remembering to always round down e.g. for 5.3 bar g use the 5 bar g correction factor.
- For maximum inlet temperature there are two tables, one for use with an oil lubricated compressor, the other for oil free compressor. Select a correction factor from the CFIT table for the relevant compressor type, remembering to always round up e.g. for 37°C use the 40°C correction factor.
- For pressure dewpoint, select a correction factor from the CFID table.
- For oil vapour concentration, select a correction factor from the CFIV table, remembering to always round up e.g. for 3.25g/m^3 use the correction factor for 4mg/m^3 .

3 Calculate minimum filtration capacity

Minimum filtration Capacity = Compressed Air Flow x CFIT x CFIP x CFID x CFIV

- Using the minimum filtration capacity, select an OVR model from the flow rate tables.
- The OVR model selected must have a flow rate equal to or greater than the minimum filtration capacity.
- If the minimum filtration capacity exceeds the maximum values of the models shown within the tables, please contact Parker domnick hunter for advice regarding larger multi-banked units.



OVR

Oil vapour removal filter

OIL-X EVOLUTION - Plant scale / point of use oil vapour removal Grade OVR filtration performance

Filtration Grade	Filter Type	Particle Removal (inc Water & Oil Aerosols)	Max Remaining Oil Content	Filtration Efficiency	Test Method Used	Inlet Challenge Concentration	Initial Dry Differential Pressure	Initial Saturated Differential Pressure	Adsorbent Life	Precede with Grade
OVR	Oil Vapour Removal	N/A	0.003 mg/m ³ 0.003 ppm (w)	N/A	ISO8573-5	0.05mg/m ³	<350 mbar <5 psi	N/A	*12 months	AO + AA

*When corrected to match systems conditions.

Product selection grade OVR

Stated flows are for operation at 7 bar g (100 psi g), 35°C (95°F) for flows at other conditions use Correction Factors below.

Model	Pipe Size	L/s	m ³ /min	m ³ /hr	cfm	Replacement Cartridge	No. Required
OVR300H □ XX	2	87	5.2	314	185	300OVR	1
OVR350H □ XX	2	177	10.6	637	375	350OVR	1
OVR400H □ XX	2	354	21.2	1274	750	400OVR	1
OVR450I □ XX	2 1/2	531	31.9	1911	1125	450OVR	1
OVR500I □ XX	2 1/2	708	42.5	2549	1500	500OVR	1
OVR550I □ XX	2 1/2	885	53.1	3186	1875	550OVR	1
2 x OVR550I □ XX	2 1/2	1770	106.2	6371	3750	550OVR	2
3 x OVR550I □ XX	2 1/2	2655	159.3	9557	5625	550OVR	3
4 x OVR550I □ XX	2 1/2	3540	212.4	12743	7500	550OVR	4
5 x OVR550I □ XX	2 1/2	4424	265.5	15928	9375	550OVR	5

□ G = BSPP / N=NPT

Correction factors inlet temperature (CFIT)

Oil lubricated compressors		
°C	°F	Correction Factor
25	77	1.00
30	86	1.00
35	95	1.00
40	104	1.25
45	113	1.55
50	122	1.90

Correction factors inlet temperature (CFIT)

Oil free compressors		
°C	°F	Correction Factor
25	77	1.00
30	86	1.00
35	95	1.00
40	104	1.02
45	113	1.04
50	122	1.05

Correction factors pressure (CFIP)

bar g	psi g	Correction Factor
3	44	2.00
4	58	1.60
5	73	1.33
6	87	1.14
7	100	1.00
8	116	1.00
9	131	1.00
10	145	1.00
11	160	1.00
12	174	1.00
13	189	1.00
14	203	1.00
15	218	1.00
16	232	1.00

Correction factors - Dewpoint (CFID)

	Installation	Correction Factor
Dry	After Dryer	1.00
Wet	Before Dryer	4.00

Correction factors - Inlet vapour content (CFIV)

mg/m ³	Correction Factor
0.05	1
0.1	2
0.2	4
0.3	6
0.4	8
0.5	10
0.6	12
0.7	14
0.8	16
0.9	18
1.0	20
2.0	40
3.0	60
4.0	80
5.0	100

Dryer Performance

Dryer Models	Dewpoint (Standard)		ISO8573-1:2010 Classification (Standard)	Dewpoint (Option 1)		ISO8573-1:2010 Classification (Option 1)
	°C	°F		°C	°F	
MiDAS	-40	-40	Class 2.2.2	-70	-100	Class 2.1.2

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

Technical Data

Dryer Models	Min Operating Pressure		Max Operating Pressure		Min Operating Temperature		Max Operating Temperature		Max Ambient Temperature		Electrical Supply (Standard)	Electrical Supply (Optional)	Filter Thread Connections	Noise Level
	bar g	psi g	bar g	psi g	°C	°F	°C	°F	°C	°F				
DAS 1 - 7	4	58	12	175	2	35	50	122	55	131	230 / 1ph / 50Hz	115 / 1ph / 60Hz	BSPP or NPT	<75

Flow Rates

Model	Pipe Size BSPP or NPT	Inlet Flow Rate			
		L/s	m³/min	m³/hr	cfm
DAS 1	3/8	1	0.09	5.1	3
DAS 2	3/8	2	0.14	8.5	5
DAS 3	3/8	3	0.23	13.6	8
DAS 4	3/8	4	0.28	17.0	10
DAS 5	3/8	5	0.37	22.1	13
DAS 6	3/8	6	0.43	25.5	15
DAS 7	3/8	7	0.57	34.0	20

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 minimum pressure, maximum temperature 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 CFP x CFD

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

CFP - Correction Factor Minimum Inlet Pressure

Minimum Inlet Pressure	bar g	4	5	6	7	8	9	10	11	12
	psi g	58	73	87	100	116	131	145	160	174
Correction Factor		1.60	1.33	1.14	1.00	1.03	0.93	0.85	0.78	0.71

CFD - Correction Factor Dewpoint

Maximum Inlet Temperature	°C	-40	-70
	°F	-40	-100
Correction Factor		1	1.43

Controller Functions

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

Recommended Filtration

Model	Filter Pipe Size BSPT or NPT	Inlet General Purpose Pre-filter	Inlet High Efficiency Filter	Outlet Dust Filter
DAS1	3/8"	A0005B □ FX	Integrated*	Integrated*
DAS2	3/8"	A0005B □ FX	Integrated*	Integrated*
DAS3	3/8"	A0005B □ FX	Integrated*	Integrated*
DAS4	3/8"	A0005B □ FX	Integrated*	Integrated*
DAS5	3/8"	A0005B □ FX	Integrated*	Integrated*
DAS6	3/8"	A0P0010B □ F	Integrated*	Integrated*
DAS7	3/8"	A0P0010B □ F	Integrated*	Integrated*

*MiDAS dryers include integral high efficiency pre and general purpose dust filters.

□ = B (BSPT) or N (NPT)

Parker Catalogue Numbers

DAS -40°C 230V /1ph/50Hz		DAS-40°C 115V/1ph/60Hz	
Item Number	GSFE Ref	Item Number	GSFE Ref
DAS1	618310201	DAS1-115-60-CSA	618310101
DAS2	618310202	DAS2-115-60-CSA	618310102
DAS3	618310203	DAS3-115-60-CSA	618310103
DAS4	618310204	DAS4-115-60-CSA	618310104
DAS5	618310205	DAS5-115-60-CSA	618310105
DAS6	618310206	DAS6-115-60-CSA	618310106
DAS7	618310207	DAS7-115-60-CSA	618310107

For a -70°C PDP application please consult the factory.

Adsorption Dryer - Heatless MIDiplus

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	
MIDI DME	-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	Min Operating Pressure		Max Operating Pressure		Min Operating Temperature		Max Operating Temperature		Max Ambient Temperature		Electrical Supply (Standard)	Electrical Supply (Optional)	Filter Thread Connections	Noise Level
	bar g	psi g	bar g	psi g	°C	°F	°C	°F	°C	°F				
DME012	4	58	16	232	5	41	50	122	55	131	230V 1ph 50/60Hz	110V 1ph 50/60Hz	BSPP or NPT	<75

Flow Rates

Model	Pipe Size BSPP or NPT	Inlet Flow Rate			
		L/s	m³/min	m³/hr	cfm
DME012	3/4	11	0.67	40	24

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 minimum pressure, maximum temperature 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 CFP x CFD

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

CFP - Correction Factor Minimum Inlet Pressure

Minimum Inlet Pressure	bar g	4	5	6	7	8	9	10	11	12	13	14	15	16
	psi g	58	73	87	100	116	131	145	160	174	189	203	218	232
Correction Factor		1.60	1.33	1.14	1.00	0.89	0.80	0.73	0.67	0.62	0.57	0.53	0.50	0.47

CFD - Correction Factor Dewpoint

Maximum Inlet Temperature	°C	-40	-70
	°F	-40	-100
Correction Factor		1.00	1.43

Controller Functions

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

Recommended Filtration

For Dryer Model	Pipe Size BSPP or NPT	Inlet General Purpose Pre-filter
DME012	3/4	AOP020D □ FI

Included Filtration

For Dryer Model	Pipe Size BSPP or NPT	Inlet High Efficiency Filter	Oil Vapour Removal Filter	Outlet Dust Filter
DME012	3/4	AAP020D □ FI	-	AOP020D □ MI

The DME012 dryer is supplied with a High Efficiency Inlet Filter (Grade AA) & a General Purpose Dust Filter (Grade A0). For correct operation and to ensure the ISO8573-1 air quality classifications are met, a General purpose Inlet Filter must also be installed to protect the High Efficiency Filter (Grade AA). This additional filter should be ordered separately.

Parker Catalogue Numbers

230V/1ph/50Hz

DME -40°C		DME/DS -40°C		DME -70°C		DME/DS -70°C	
Item Number	GSFE Ref	Item Number	GSFE Ref	Item Number	GSFE Ref	Item Number	GSFE Ref
DME012BFBK	618330090	DME012DSBFBK	618330130	DME012BFBK-70	617330000	DME012BFBK-70	617330040

110V/1ph/60Hz

DME -40°C		DME/DS -40°C		DME -70°C		DME/DS -70°C	
Item Number	GSFE Ref	Number Part	GSFE Ref	Item Number	GSFE Ref	Item Number	GSFE Ref
DME012-CSA	618330150	DME012-DS-CSA	618330170	DME012 -70 CSA	617330150	DME012DS -70 CSA	617330170

Adsorption Dryer - Heatless Clean Dry Air System CDAS

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	
CDAS HL	-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	Min Operating Pressure		Max Operating Pressure		Min Operating Temperature		Max Operating Temperature		Max Ambient Temperature		Electrical Supply (Standard)	Electrical Supply (Optional)	Filter Thread Connections	Noise Level
	bar g	psi g	bar g	psi g	°C	°F	°C	°F	°C	°F				dB(A)
CDAS HL 50 - 85	4	58	16	232	5	41	50	122	55	131	85 - 265V 1ph 50/60Hz	24V DC	BSPP or NPT	<75

Flow Rates

Model	Pipe Size BSPP or NPT	Inlet Flow Rate			
		L/s	m³/min	m³/hr	cfm
CDAS HL 50	1/2	15	0.92	55	32
CDAS HL 55	1/2	19	1.17	70	41
CDAS HL 60	1/2	25	1.50	90	53
CDAS HL 65	1/2	31	1.84	110	65
CDAS HL 70	3/4	42	2.51	150	88
CDAS HL 75	1	51	3.09	185	109
CDAS HL 80	1	61	3.67	220	129
CDAS HL 85	1 1/2	83	5.01	300	177

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 minimum pressure, maximum temperature 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 CFP x CFD

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

CFP - Correction Factor Minimum Inlet Pressure

Minimum Inlet Pressure	bar g	4	5	6	7	8	9	10	11	12	13	14	15	16
	psi g	58	73	87	100	116	131	145	160	174	189	203	218	232
Correction Factor		1.60	1.33	1.14	1.00	0.89	0.80	0.73	0.67	0.62	0.57	0.53	0.50	0.47

CFD - Correction Factor Dewpoint

Maximum Inlet Temperature	°C	-20	-40	-70
	°F	-4	-40	-100
Correction Factor		0.91	1.00	2.00

Controller Functions

Dryer	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
CDAS HL	•	•	•	•	•	•	•	•

Included Filtration

For Dryer Model	Pipe Size BSPP or NPT	Inlet General Purpose Pre-filter	Inlet High Efficiency Filter	Oil Vapour Removal Filter	Outlet Dust Filter
CDAS HL 50	1/2	AOP015CGFI	AAP015CGFI	-	AOP015CGMI
CDAS HL 55	1/2	AOP015CGFI	AAP015CGFI	-	AOP015CGMI
CDAS HL 60	1/2	AOP020CGFI	AAP020CGFI	-	AOP020CGMI
CDAS HL 65	1/2	AOP025DGF	AAP025DGF	-	AOP025DGM
CDAS HL 70	3/4	AOP025DGF	AAP025DGF	-	AOP025DGM
CDAS HL 75	1	AOP025EGFI	AAP025EGFI	-	AOP025EGMI
CDAS HL 80	1	AOP025EGFI	AAP025EGFI	-	AOP025EGMI
CDAS HL 85	1 1/2	AOP030GGFI	AAP030GGFI	-	AOP030GGMI

Parker Catalogue Numbers

Model	Catalogue Number -20°C PDP / -40°C PDP BSPP	Catalogue Number -70°C PDP BSPP
CDAS HL 50	CDASHL050-40G16AE	CDASHL050-70G16AE
CDAS HL 55	CDASHL055-40G16AE	CDASHL055-70G16AE
CDAS HL 60	CDASHL060-40G16AE	CDASHL060-70G16AE
CDAS HL 65	CDASHL065-40G16AE	CDASHL065-70G16AE
CDAS HL 70	CDASHL070-40G16AE	CDASHL070-70G16AE
CDAS HL 75	CDASHL075-40G16AE	CDASHL075-70G16AE
CDAS HL 80	CDASHL080-40G16AE	CDASHL080-70G16AE
CDAS HL 85	CDASHL085-40G16AE	CDASHL085-70G16AE

Adsorption Dryer - Heatless Oil Free Air System OFAS

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	
OFAS HL	-40	-40	Class 2.2.0	-70	-100	Class 2.1.0	-20	-4	Class 2.3.0

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

Technical Data

Dryer Models	Min Operating Pressure		Max Operating Pressure		Min Operating Temperature		Max Operating Temperature		Max Ambient Temperature		Electrical Supply (Standard)	Electrical Supply (Optional)	Filter Thread Connections	Noise Level
	bar g	psi g	bar g	psi g	°C	°F	°C	°F	°C	°F				dB(A)
OFAS HL 50 - 85	4	58	16	232	5	41	50	122	55	131	85 - 265V 1ph 50/60Hz	24V DC	BSPP or NPT	<75

Flow Rates

Model	Pipe Size BSPP or NPT	Inlet Flow Rate			
		L/s	m³/min	m³/hr	cfm
OFAS HL 50	1/2	15	0.92	55	32
OFAS HL 55	1/2	19	1.17	70	41
OFAS HL 60	1/2	25	1.50	90	53
OFAS HL 65	1/2	31	1.84	110	65
OFAS HL 70	3/4	42	2.51	150	88
OFAS HL 75	1	51	3.09	185	109
OFAS HL 80	1	61	3.67	220	129
OFAS HL 85	1 1/2	83	5.01	300	177

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 minimum pressure, maximum temperature 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 CFP x CFD

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

CFP - Correction Factor Minimum Inlet Pressure

Minimum Inlet Pressure	bar g	4	5	6	7	8	9	10	11	12	13	14	15	16
	psi g	58	73	87	100	116	131	145	160	174	189	203	218	232
Correction Factor		1.60	1.33	1.14	1.00	0.89	0.80	0.73	0.67	0.62	0.57	0.53	0.50	0.47

CFD - Correction Factor Dewpoint

Maximum Inlet Temperature	°C	-20	-40	-70
	°F	-4	-40	-100
Correction Factor		0.91	1.00	2.00

Controller Functions

Dryer	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
OFAS HL	•	•	•	•	•	•	•	•

Included Filtration

For Dryer Model	Pipe Size BSPP or NPT	Inlet General Purpose Pre-filter	Inlet High Efficiency Filter	Oil Vapour Removal Filter	Outlet Dust Filter
OFAS HL 50	1/2	AOP015CGFI	AAP015CGFI	Included	AOP015CGMI
OFAS HL 55	1/2	AOP015CGFI	AAP015CGFI	Included	AOP015CGMI
OFAS HL 60	1/2	AOP020CGFI	AAP020CGFI	Included	AOP020CGMI
OFAS HL 65	1/2	AOP025DGF	AAP025DGF	Included	AOP025DGM
OFAS HL 70	3/4	AOP025DGF	AAP025DGF	Included	AOP025DGM
OFAS HL 75	1	AOP025EGFI	AAP025EGFI	Included	AOP025EGMI
OFAS HL 80	1	AOP025EGFI	AAP025EGFI	Included	AOP025EGMI
OFAS HL 85	1 1/2	AOP030GGFI	AAP030GGFI	Included	AOP030GGMI

Parker Catalogue Numbers

Model	Catalogue Number -20°C PDP / -40°C PDP BSPP	Catalogue Number -70°C PDP BSPP
OFAS HL 50	OFASHL050-40G16AE	OFASHL050-70G16AE
OFAS HL 55	OFASHL055-40G16AE	OFASHL055-70G16AE
OFAS HL 60	OFASHL060-40G16AE	OFASHL060-70G16AE
OFAS HL 65	OFASHL065-40G16AE	OFASHL065-70G16AE
OFAS HL 70	OFASHL070-40G16AE	OFASHL070-70G16AE
OFAS HL 75	OFASHL075-40G16AE	OFASHL075-70G16AE
OFAS HL 80	OFASHL080-40G16AE	OFASHL080-70G16AE
OFAS HL 85	OFASHL085-40G16AE	OFASHL085-70G16AE

Adsorption Dryer - Heatless MX

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 2.2.1	-70	-100	Class 2.1.1	-20	-4	Class 2.3.1

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

Technical Data

Dryer Models	Min Operating Pressure		Max Operating Pressure		Min Operating Temperature		Max Operating Temperature		Max Ambient Temperature		Electrical Supply (Standard)	Electrical Supply (Optional)	Thread Connections	Noise Level
	bar g	psi g	bar g	psi g	°C	°F	°C	°F	°C	°F				dB(A)
MX102c - 108	4	58	13	190	5	41	50	122	55	131	85 - 265 V 1ph 50/60Hz	N/A	BSPP or NPT	<75

Flow Rates

Model	Pipe Size	Inlet Flow Rate			
		L/s	m³/min	m³/hr	cfm
MX □ 102C	2"	113	6.81	408	240
MX □ 103C	2"	170	10.22	612	360
MX □ 103	2"	213	12.78	795	450
MX □ 104	2 1/2"	283	17	1020	600
MX □ 105	2 1/2"	354	21	1275	750
MX □ 106	2 1/2"	425	26	1530	900
MX □ 107	2 1/2"	496	30	1785	1050
MX □ 108	2 1/2"	567	34	2040	1200
2 x MX □ 105	2 1/2"	708	43	2550	1500
2 x MX □ 106	2 1/2"	850	51	3060	1800
2 x MX □ 107	2 1/2"	992	60	3570	2100
2 x MX □ 108	2 1/2"	1133	68	4080	2400
3 x MX □ 106	2 1/2"	1275	77	4590	2700
3 x MX □ 107	2 1/2"	1488	89	5355	3150
3 x MX □ 108	2 1/2"	1700	102	6120	3600

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 minimum pressure, maximum temperature 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 CFP x CFD

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

CFP - Correction Factor Minimum Inlet Pressure

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

CFD - Correction Factor Dewpoint

Maximum Inlet Temperature	°C	-20	-40	-70
	°F	-4	-40	-100
Correction Factor		0.91	1	1.43

Controller Functions

Dryer	Controller Function							
	Power On Indication	Visual Fault Indication	Dewpoint Display	DDS - Energy Saving Technology	Filter Service Indicator	Dryer Service Indicator	Fault Relay: Power Loss Dewpoint Alarm Sensor Failure	4-20mA Dewpoint Re-transmission
MXS	•					•		
MXS DS	•	•	•			•		Option
MXA	•	•	•	•	•	•	•	•

Important Notes Regarding the Ordering of MX dryers

Please note that when ordering MX heatless dryers, the following items must be ordered separately.

- Dryer Model
- Inlet / Outlet Flange kit (BSPP or NPT)
- Pre / Post Filtration (Grades A0 / AA/ A0)
- FCD (Flow Control Device) - only required for multi-bank installations
- QRV - Quick Re-presurisation Valve Part Number 608203833 is required for operating pressures above 9 bar g

Parker Catalogue Numbers

	MX		MX / DS		MX ADVANCED		MXP Pneumatic	
	Catalogue Number	GSFE Ref	Catalogue Number	GSFE Ref	Catalogue Number	GSFE Ref	Catalogue Number	GSFE Ref
-20	MXS102C-20	612620102	MXS102CDS-20	712621102	MXA102C-20	612646102	MXP102C-20-ATEX	662630102
	MXS103C-20	612620103	MXS103CDS-20	712621103	MXA103C-20	612646103	MXP103C-20-ATEX	662630103
	MXS103-20	612620123	MXS103DS-20	712621123	MXA103-20	712646123	MXP103-20-ATEX	662630123
	MXS104-20	612620124	MXS104DS-20	712621124	MXA104-20	712646124	MXP104-20-ATEX	662630124
	MXS105-20	612620125	MXS105DS-20	612621125	MXA105-20	612646125	MXP105-20-ATEX	662630125
	MXS106-20	612620126	MXS106DS-20	712621126	MXA106-20	612646126	MXP106-20-ATEX	662630126
	MXS107-20	612620127	MXS107DS-20	612621127	MXA107-20	712646127	MXP107-20-ATEX	662630127
	MXS108-20	612620128	MXS108DS-20	712621128	MXA108-20	612646128	MXP108-20-ATEX	662630128
-40	MXS102C-40	714620102	MXS102CDS-40	714621102	MXA102C-40	714646102	MXP102C-40-ATEX	664630102
	MXS103C-40	714620103	MXS103CDS-40	714621103	MXA103C-40	714646103	MXP103C-40-ATEX	664630103
	MXS103-40	714620123	MXS103DS-40	714621123	MXA103-40	714646123	MXP103-40-ATEX	664630123
	MXS104-40	714620124	MXS104DS-40	714621124	MXA104-40	714646124	MXP104-40-ATEX	664630124
	MXS105-40	714620125	MXS105DS-40	714621125	MXA105-40	714646125	MXP105-40-ATEX	664630125
	MXS106-40	714620126	MXS106DS-40	714621126	MXA106-40	714646126	MXP106-40-ATEX	664630126
	MXS107-40	714620127	MXS107DS-40	714621127	MXA107-40	714646127	MXP107-40-ATEX	664630127
	MXS108-40	714620128	MXS108DS-40	714621128	MXA108-40	714646128	MXP108-40-ATEX	664630128
-70	MXS102C-70	717620102	MXS102CDS-70	717621102	MXA102C-70	617646102	MXP102C-70-ATEX	667630102
	MXS103C-70	617620103	MXS103CDS-70	717621103	MXA103C-70	717646103	MXP103C-70-ATEX	667630103
	MXS103-70	717620123	MXS103DS-70	717621123	MXA103-70	717646123	MXP103-70-ATEX	667630123
	MXS104 -70	617620124	MXS104DS-70	717621124	MXA104-70	617646124	MXP104-70-ATEX	667630124
	MXS105 -70	617620125	MXS105DS-70	617621125	MXA105-70	717646125	MXP105-70-ATEX	667630125
	MXS106-70	717620126	MXS106DS-70	617621126	MXA106-70	717646126	MXP106-70-ATEX	667630126
	MXS107-70	717620127	MXS107DS-70	717621127	MXA107-70	617646127	MXP107-70-ATEX	667630127
	MXS108 -70	617620128	MXS108DS-70	717621128	MXA108-70	617646128	MXP108-70-ATEX	667630128

The dryer codes above do not include filtration - Please order filters separately

Required Filtration

For Dryer Model	Pipe Size BSPP or NPT	Inlet General Purpose Pre-filter	Inlet High Efficiency Filter	Oil Vapour Removal Filter	Outlet Dust Filter
MX □ 102C	2"	AOP040HGFX	AAP040HGFX	*	AOP040HGMX
MX □ 103C	2"	AOP040HGFX	AAP040HGFX	*	AOP040HGMX
MX □ 103	2"	AOP040HGFX	AAP040HGFX	*	AOP040HGMX
MX □ 104	2½"	AOP045IGFX	AAP045IGFX	*	AOP045IGMX
MX □ 105	2½"	AOP050IGFX	AAP050IGFX	*	AOP050IGMX
MX □ 106	2½"	AOP050IGFX	AAP050IGFX	*	AOP050IGMX
MX □ 107	2½"	AOP055IGFX	AAP055IGFX	*	AOP055IGMX
MX □ 108	2½"	AOP055IGFX	AAP055IGFX	*	AOP055IGMX

***Note:** 'Technically Oil Free Air' to ISO8573-1:2010 Class 0 (<0.003 mg/m³) for Total Oil can be easily achieved by selecting an optional OIL-X OVR grade filter (refer to pages 7-8 of this document).

Flow Control Device

Why do I need a Flow Control Device for multi-bank installations?

When the compressed air requirements of a facility requires the installation of more than one single MX dryer, flow control devices (known as FCD's or sonic nozzles) must be fitted to the outlet of each dryer to protect it from overflow or preferential flow.

FCD's are sized to an installation and are designed to provide no more than 125% of the outlet flow of the dryer. If the system usage tries to overflow the dryer by more than 125% the FCD will restrict air flow, increasing differential pressure.

Benefits of fitting a Flow Control Device:

- Prevents preferential or significant overflow of the dryer
- Helps to maintain a constant outlet pressure dewpoint
- Indicates by high pressure drop when system demand exceeds rated capacity



Example of a multi-bank installation

Flanged Connection Kits for MX dryers

MX dryers do not include an inlet / outlet connection. When ordering an MX dryer the flanged connection kit must be ordered in addition to the dryer and must match the connection sizes of the inlet & outlet filtration.

When more than one dryer is installed (multi-bank installation), a Flow Control Device (FCD) is also required. The FCD will fit inside the outlet flange. Please order the appropriate inlet / outlet connection kit from the list below and FCD from the tables on the following pages.

The MX102c – MX103 dryers have 2" connections

608620076 FCD threaded connection 2" BSPP

608620078 FCD threaded connection 2" NPT

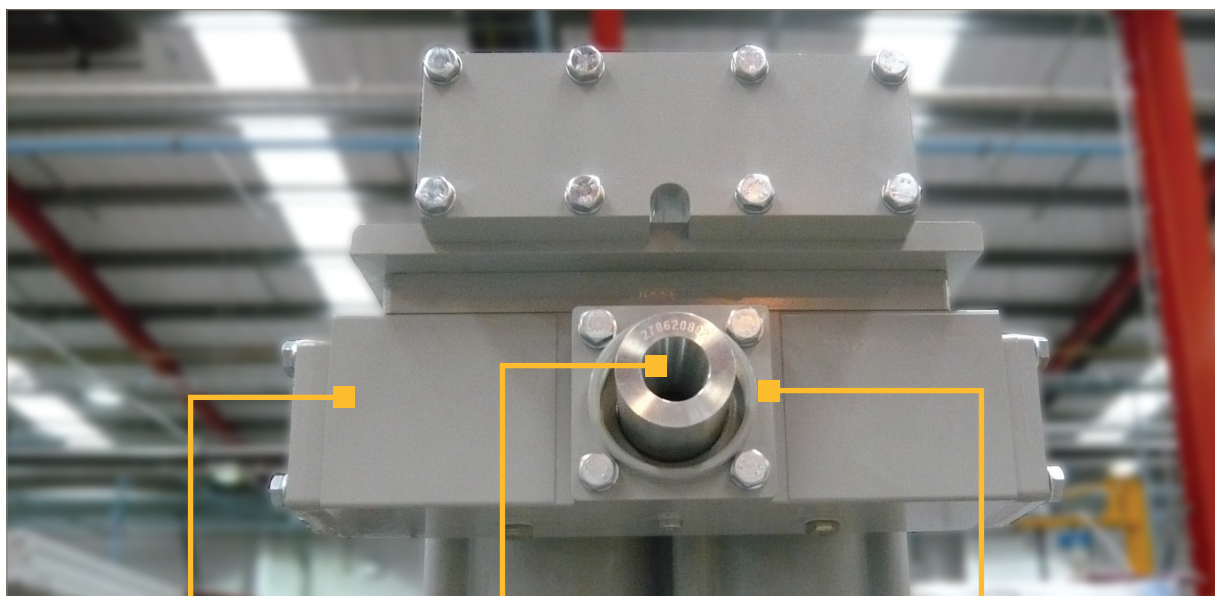
The MX104 – MX108 dryers have 2.5" connections

608620077 FCD threaded connection 2 1/2" BSPP

608620079 FCD threaded connection 2 1/2" NPT



608620077 thread connection kit (outlet flange on left)



MX
Dryer

Flow Control Device
(Sonic Nozzle)

Flange

Flow Control Device (FCD) Product Selection for MX Heatless dryer

To size FCD's correctly, the following information is required:

- Dryer Model
- Dewpoint dryer has been sized to deliver
- Minimum Inlet pressure
- Maximum Inlet Temperature

Sizing Example

The customer orders 2 x MXS108 and requires BSPP connections. The site parameters are an inlet temperature of 35°C, inlet pressure of 7 bar g, and a pressure dewpoint of -40°C. The FCD is 608620053, and the correct flange kit is 608620077.

35°C Inlet Temperature -20°C PDP								
Pressure	MX 102c	MX 103c	MX 103	MX 104	MX 105	MX 106	MX 107	MX 108
4 bar	608620009	608620014	608620017	608620021	608620043	608620046	608620049	608620052
5 bar	608620010	608620015	608620018	608620022	608620044	608620048	608620051	608620054
6 bar	608620011	608620015	608620018	608620023	608620045	608620048	608620052	608620055
7 bar	608620011	608620016	608620019	608620023	608620045	608620049	608620052	608620056
8 bar	608620011	608620016	608620019	608620024	608620046	608620050	608620053	608620056
9 bar	608620011	608620016	608620020	608620024	608620046	608620050	608620053	608620057
10 bar	608620012	608620017	608620020	608620024	608620047	608620050	608620054	608620057
11 bar	608620012	608620017	608620020	608620025	608620047	608620051	608620054	608620057
12 bar	608620012	608620017	608620020	608620025	608620047	608620051	608620054	Contact Pdh
13 bar	608620012	608620017	608620020	608620025	608620047	608620051	608620054	Contact Pdh

35°C Inlet Temperature -40°C PDP								
Pressure	MX 102c	MX 103c	MX 103	MX 104	MX 105	MX 106	MX 107	MX 108
4 bar	608620008	608620012	608620015	608620019	608620040	608620044	608620047	608620049
5 bar	608620009	608620013	608620016	608620020	608620042	608620045	608620048	608620051
6 bar	608620009	608620014	608620017	608620021	608620043	608620046	608620049	608620052
7 bar	608620010	608620014	608620017	608620022	608620043	608620047	608620050	608620053
8 bar	608620010	608620015	608620018	608620022	608620044	608620047	608620050	608620053
9 bar	608620010	608620015	608620018	608620022	608620044	608620048	608620051	608620054
10 bar	608620010	608620015	608620018	608620023	608620044	608620048	608620051	608620054
11 bar	608620011	608620015	608620018	608620023	608620045	608620048	608620052	608620055
12 bar	608620011	608620015	608620019	608620023	608620045	608620049	608620052	608620055
13 bar	608620011	608620016	608620019	608620023	608620045	608620049	608620052	608620055

35°C Inlet Temperature -70°C PDP								
Pressure	MX 102c	MX 103c	MX 103	MX 104	MX 105	MX 106	MX 107	MX 108
4 bar	608620008	608620012	608620015	608620019	608620040	608620044	608620047	608620049
5 bar	608620009	608620013	608620016	608620020	608620042	608620045	608620048	608620051
6 bar	608620009	608620014	608620017	608620021	608620043	608620046	608620049	608620052
7 bar	608620010	608620014	608620017	608620022	608620043	608620047	608620050	608620053
8 bar	608620010	608620015	608620018	608620022	608620044	608620047	608620050	608620053
9 bar	608620010	608620015	608620018	608620022	608620044	608620048	608620051	608620054
10 bar	608620010	608620015	608620018	608620023	608620044	608620048	608620051	608620054
11 bar	608620011	608620015	608620018	608620023	608620045	608620048	608620052	608620055
12 bar	608620011	608620015	608620019	608620023	608620045	608620049	608620052	608620055
13 bar	608620011	608620016	608620019	608620023	608620045	608620049	608620052	608620055

40°C Inlet Temperature -20°C PDP								
Pressure	MX 102c	MX 103c	MX 103	MX 104	MX 105	MX 106	MX 107	MX 108
4 bar	608620009	608620014	608620016	608620021	608620042	608620046	608620049	608620051
5 bar	608620010	608620014	608620017	608620022	608620043	608620047	608620050	608620053
6 bar	608620010	608620015	608620018	608620022	608620044	608620048	608620051	608620054
7 bar	608620011	608620015	608620018	608620023	608620045	608620048	608620052	608620055
8 bar	608620011	608620016	608620019	608620023	608620045	608620049	608620052	608620055
9 bar	608620011	608620016	608620019	608620024	608620046	608620049	608620053	608620056
10 bar	608620011	608620016	608620019	608620024	608620046	608620050	608620053	608620056
11 bar	608620011	608620016	608620020	608620024	608620046	608620050	608620053	608620057
12 bar	608620012	608620017	608620020	608620024	608620047	608620050	608620054	608620057
13 bar	608620011	608620017	608620020	608620025	608620047	608620050	608620054	608620057

40°C Inlet Temperature -40°C PDP								
Pressure	MX 102c	MX 103c	MX 103	MX 104	MX 105	MX 106	MX 107	MX 108
4 bar	608620008	608620012	608620015	608620018	608620040	608620043	608620046	608620048
5 bar	608620009	608620013	608620016	608620020	608620042	608620044	608620047	608620050
6 bar	608620009	608620013	608620016	608620020	608620043	608620045	608620048	608620051
7 bar	608620009	608620014	608620017	608620021	608620043	608620046	608620059	608620052
8 bar	608620010	608620014	608620017	608620021	608620044	608620047	608620050	608620053
9 bar	608620010	608620015	608620017	608620022	608620044	608620047	608620050	608620053
10 bar	608620010	608620015	608620018	608620022	608620044	608620047	608620051	608620054
11 bar	608620010	608620015	608620018	608620022	608620045	608620048	608620051	608620054
12 bar	608620010	608620015	608620018	608620023	608620045	608620048	608620051	608620054
13 bar	608620010	608620015	608620018	608620023	608620045	608620048	608620051	608620054

40°C Inlet Temperature -70°C PDP								
Pressure	MX 102c	MX 103c	MX 103	MX 104	MX 105	MX 106	MX 107	MX 108
4 bar	608620003	608620006	608620008	608620011	608620032	608620034	608620036	608620038
5 bar	608620004	608620007	608620009	608620013	608620033	608620036	608620038	608620040
6 bar	608620005	608620008	608620010	608620014	608620034	608620037	608620039	608620042
7 bar	608620005	608620009	608620011	608620014	608620035	608620038	608620040	608620043
8 bar	608620006	608620009	608620012	608620015	608620036	608620039	608620041	608620043
9 bar	608620006	608620010	608620012	608620015	608620036	608620039	608620042	608620044
10 bar	608620006	608620010	608620012	608620016	608620037	608620040	608620042	608620045
11 bar	608620006	608620010	608620012	608620016	608620037	608620040	608620043	608620045
12 bar	608620006	608620010	608620013	608620016	608620037	608620040	608620043	608620045
13 bar	608620007	608620010	608620013	608620016	608620038	608620041	608620043	608620046

45°C Inlet Temperature -20°C PDP								
Pressure	MX 102c	MX 103c	MX 103	MX 104	MX 105	MX 106	MX 107	MX 108
4 bar	608620008	608620012	608620015	608620019	608620040	608620043	608620046	608620049
5 bar	608620009	608620013	608620016	608620020	608620041	608620044	608620047	608620050
6 bar	608620009	608620014	608620016	608620021	608620042	608620045	608620049	608620051
7 bar	608620009	608620014	608620017	608620021	608620043	608620046	608620049	608620052
8 bar	608620010	608620014	608620017	608620022	608620043	608620047	608620050	608620053
9 bar	608620010	608620015	608620018	608620022	608620044	608620047	608620050	608620053
10 bar	608620010	608620015	608620018	608620022	608620044	608620048	608620051	608620054
11 bar	608620010	608620015	608620018	608620022	608620044	608620048	608620051	608620054
12 bar	608620010	608620015	608620018	608620023	608620045	608620048	608620051	608620054
13 bar	608620011	608620015	608620018	608620023	608620045	608620048	608620051	608620054

45°C Inlet Temperature -40°C PDP								
Pressure	MX 102c	MX 103c	MX 103	MX 104	MX 105	MX 106	MX 107	MX 108
4 bar	608620007	608620010	608620013	608620016	608620038	608620041	608620043	608620046
5 bar	608620007	608620011	608620014	608620018	608620039	608620042	608620045	608620047
6 bar	608620008	608620012	608620015	608620019	608620040	608620043	608620046	608620049
7 bar	608620008	608620013	608620015	608620019	608620041	608620044	608620047	608620050
8 bar	608620009	608620013	608620016	608620020	608620041	608620045	608620047	608620050
9 bar	608620009	608620013	608620016	608620020	608620042	608620045	608620048	608620051
10 bar	608620009	608620013	608620016	608620020	608620042	608620045	608620048	608620051
11 bar	608620009	608620014	608620016	608620021	608620042	608620046	608620049	608620052
12 bar	608620009	608620014	608620017	608620021	608620042	608620046	608620049	608620052
13 bar	608620009	608620014	608620017	608620021	608620043	608620046	608620049	608620052

45°C Inlet Temperature -70°C PDP								
Pressure	MX 102c	MX 103c	MX 103	MX 104	MX 105	MX 106	MX 107	MX 108
4 bar	608620002	608620005	608620007	608620009	608620029	608620032	608620033	608620035
5 bar	608620003	608620006	608620008	608620011	608620031	608620034	608620036	608620038
6 bar	608620004	608620007	608620009	608620012	608620033	608620035	608620037	608620039
7 bar	608620004	608620008	608620010	608620013	608620034	608620036	608620038	608620040
8 bar	608620005	608620008	608620010	608620013	608620034	608620037	608620039	608620041
9 bar	608620005	608620008	608620011	608620014	608620035	608620037	608620040	608620042
10 bar	608620005	608620009	608620011	608620014	608620035	608620038	608620040	608620042
11 bar	608620005	608620009	608620011	608620015	608620036	608620038	608620041	608620043
12 bar	608620006	608620009	608620011	608620015	608620036	608620039	608620041	608620043
13 bar	608620006	608620009	608620012	608620015	608620036	608620039	608620041	608620044

50°C Inlet Temperature -20°C PDP								
Pressure	MX 102c	MX 103c	MX 103	MX 104	MX 105	MX 106	MX 107	MX 108
4 bar	608620005	608620009	608620011	608620015	608620036	608620038	608620041	608620043
5 bar	608620006	608620010	608620012	608620026	608620037	608620040	608620043	608620045
6 bar	608620007	608620011	608620013	608620017	608620038	608620041	608620044	608620046
7 bar	608620007	608620011	608620014	608620018	608620039	608620042	608620045	608620047
8 bar	608620008	608620012	608620014	608620018	608620040	608620043	608620045	608620048
9 bar	608620008	608620012	608620015	608620019	608620040	608620043	608620046	608620049
10 bar	608620008	608620012	608620015	608620019	608620040	608620043	608620046	608620049
11 bar	608620008	608620012	608620015	608620019	608620041	608620044	608620047	608620049
12 bar	608620008	608620013	608620015	608620019	608620041	608620044	608620047	608620050
13 bar	608620008	608620013	608620016	608620020	608620041	608620044	608620047	608620050

50°C Inlet Temperature -40°C PDP								
Pressure	MX 102c	MX 103c	MX 103	MX 104	MX 105	MX 106	MX 107	MX 108
4 bar	608620004	608620007	608620010	608620013	608620033	608620036	608620038	608620040
5 bar	608620005	608620009	608620011	608620014	608620035	608620038	608620040	608620042
6 bar	608620006	608620009	608620012	608620015	608620036	608620039	608620041	608620044
7 bar	608620006	608620010	608620012	608620016	608620037	608620040	608620042	608620045
8 bar	608620007	608620010	608620013	608620016	608620038	608620040	608620043	608620046
9 bar	608620007	608620011	608620013	608620017	608620038	608620041	608620044	608620046
10 bar	608620007	608620011	608620013	608620017	608620038	608620041	608620044	608620047
11 bar	608620007	608620011	608620014	608620017	608620039	608620042	608620044	608620047
12 bar	608620007	608620011	608620014	608620018	608620039	608620042	608620045	608620047
13 bar	608620007	608620012	608620014	608620018	608620039	608620042	608620045	608620048

50°C Inlet Temperature -70°C PDP								
Pressure	MX 102c	MX 103c	MX 103	MX 104	MX 105	MX 106	MX 107	MX 108
4 bar	608620001	608620002	608620003	608620005	608620028	608620027	608620028	608620030
5 bar	608620001	608620003	608620005	608620007	608620028	608620029	608620031	608620033
6 bar	608620002	608620004	608620006	608620009	608620029	608620031	608620033	608620035
7 bar	608620002	608620005	608620007	608620010	608620030	608620032	608620034	608620036
8 bar	608620003	608620006	608620008	608620010	608620031	608620033	608620035	608620037
9 bar	608620003	608620006	608620008	608620011	608620031	608620034	608620036	608620038
10 bar	608620003	608620006	608620008	608620011	608620032	608620034	608620036	608620038
11 bar	608620004	608620007	608620009	608620012	608620032	608620035	608620037	608620039
12 bar	608620004	608620007	608620009	608620012	608620033	608620035	608620037	608620039
13 bar	608620004	608620007	608620009	608620012	608620033	608620035	608620038	608620040

MX Heatless Dryers

Does the dryer have a fault alarm relay fitted?

Yes, a single pole fault relay is fitted as standard.

Are the inlet valves normally open or normally closed?

The inlet valves on the MX dryer are normally closed as standard.

What is the power requirement of the dryer?

MXS, MXSDS = 15W. MXA = 35W.

What IP rating is the dryer?

IP65.

Is a QRV (Quick Re-pressurisation Valve) fitted as standard?

No, if the inlet pressure is equal to or greater than 9 bar, a QRV must be ordered with the dryer. Part Number: 608203833.

Why do I have 3 sets of purge plates in the packing crate?

As standard the dryer will be factory fitted with the 7 bar purge plates. If you are operating the dryer at a different pressure please use the appropriate purge plate.

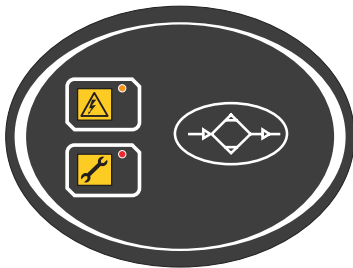
MX Displays

MXS – The MXS display provides power and service interval indicators.

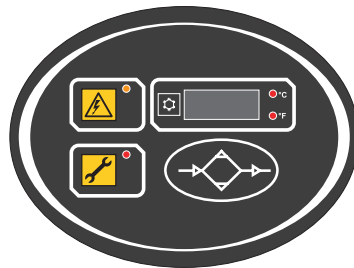
MXS/DS - In addition to the power supply and service interval indicators the dryer comes complete with a digital display. It will display dewpoint and has a ECO display when the dryer is in energy saving mode.

MXA – The advanced controller provides a complete system overview on an LCD status display screen.

Controllers

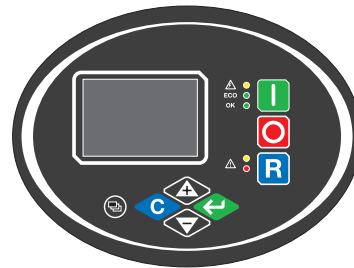


MXS Controller
Power On LED
Service interval LED
Volt free fault alarm



MXS DS Controller
Dewpoint Display
ECO - DDS active display
Sensor failure indication

Option
4-20mA dewpoint re-transmission



Advanced Controller
Power On LED
Dryer OK LED
DDS LED
Warning LED
Fault LED

System status display
10cm LCD display
Inlet temperature
Inlet pressure
Outlet PDP
Service interval indication
Fault messages
4-20m Amp pressure output
Volt free general alarm
Volt free dewpoint alarm

Adsorption Dryer - Heatless KE-MT

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	
KE-MT	-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	Min Operating Pressure		Max Operating Pressure		Min Operating Temperature		Max Operating Temperature		Max Ambient Temperature		Electrical Supply (Standard)	Electrical Supply (Optional)	Thread Connections	Noise Level
	bar g	psi g	bar g	psi g	°C	°F	°C	°F	°C	°F				dB(A)
KE-MT 250 - 600	5	73	10	145	1.5	35	50	122	55	131	230V 1ph 50Hz	NA	DIN Flange	<75

Flow Rates

Model	Pipe Size	Inlet Flow Rate			
		L/s	m³/min	m³/hr	cfm
KE-MT250	DN 80	695	42	2500	1472
KE-MT300	DN 80	833	50	3000	1766
KE-MT380	DN 100	1056	63	3800	2237
KE-MT500	DN 100	1347	81	4850	2855
KE-MT600	DN 125	1695	102	6100	3590

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 minimum pressure, maximum temperature 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 CFP x CFD

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

CFP - 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

CFD - Correction Factor Dewpoint

Maximum Inlet Temperature	°C	-20	-40	-70
	°F	-4	-40	-100
Correction Factor		0.91	1.00	1.43

Controller Functions

Dryer	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
KE-MT	•		• (option)	• (option)				

Required Filtration

For Dryer Model	Pipe Size	Inlet General Purpose Pre-filter	Inlet High Efficiency Filter	Oil Vapour Removal Filter	Outlet Dust Filter
KE-MT250	DN 80	A00700DFX	AA0700DFX	-	A00700DMX
KE-MT300	DN 80	A00700DFX	AA0700DFX	-	A00700DMX
KE-MT380	DN 100	A00700DFX	AA0700DFX	-	A00700DMX
KE-MT500	DN 100	A0075PDPFX	AA075PDPFX	-	A0075PDMX
KE-MT600	DN 100	A0075PDPFX	AA075PDPFX	-	A0075PDMX

Parker Catalogue Numbers

Model	Catalogue Number Standard	Catalogue Number With Dewpoint Control
KE-MT250	K250/10D1-F230M	K250/10D1-F230MT
KE-MT300	K300/10D1-F230M	K300/10D1-F230MT
KE-MT380	K380/10D1-F230M	K380/10D1-F230MT
KE-MT500	K500/10D1-F230M	K500/10D1-F230MT
KE-MT600	K600/10D1-F230M	K600/10D1-F230MT

Adsorption Dryer - Heatless Low Energy - MXLE

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 2.2.1	-70	-100	Class 2.1.1	-20	-4	Class 2.3.1

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

Technical Data

Dryer Models	Min Operating Pressure		Max Operating Pressure		Min Operating Temperature		Max Operating Temperature		Max Ambient Temperature		Electrical Supply (Standard)	Electrical Supply (Optional)	Thread Connections	Noise Level
	bar g	psi g	bar g	psi g	°C	°F	°C	°F	°C	°F				dB(A)
MXLE 102c - 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	12.78	795	450
MXLE 104	2 1/2"	283	17	1020	600
MXLE 105	2 1/2"	354	21	1275	750
MXLE 106	2 1/2"	425	26	1530	900
MXLE 107	2 1/2"	496	30	1785	1050
MXLE 108	2 1/2"	567	34	2040	1200

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.

Vacuum Pump kW

Model	kW 50Hz Pump	kW 60Hz Pump
MXLE 102C	3	4.8
MXLE 103C	3	4.8
MXLE 103	4	6.5
MXLE 104	5.5	9
MXLE 105	5.5	9
MXLE 106	8	13
MXLE 107	9.5	15.5
MXLE 108	9.5	15.5



Product Selection & Correction Factors

For correct operation, compressed air dryers must be sized using for the minimum pressure, maximum temperature 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 CFP x CFD

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

CFP - Correction Factor Minimum Inlet Pressure

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

CFD - Correction Factor Dewpoint

Maximum Inlet Temperature	°C	-20	-40	-70
	°F	-4	-40	-100
Correction Factor		0.91	1	1.43

Controller Functions

Dryer	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

For Dryer Model	Pipe Size BSPP	Inlet General Purpose Pre-filter	Inlet High Efficiency Filter	Oil Vapour Removal Filter	Outlet Dust Filter
MXLE 102C	2"	AOP040HGFX	AAP040HGFX	*	AOP040HGMX
MXLE 103C	2"	AOP040HGFX	AAP040HGFX	*	AOP040HGMX
MXLE 103	2"	AOP040HGFX	AAP040HGFX	*	AOP040HGMX
MXLE 104	2½"	AOP045IGFX	AAP045IGFX	*	AOP045IGMX
MXLE 105	2½"	AOP050IGFX	AAP050IGFX	*	AOP050IGMX
MXLE 106	2½"	AOP050IGFX	AAP050IGFX	*	AOP050IGMX
MXLE 107	2½"	AOP055IGFX	AAP055IGFX	*	AOP055IGMX
MXLE 108	2½"	AOP055IGFX	AAP055IGFX	*	AOP055IGMX

***Note:** 'Technically Oil Free Air' to ISO8573-1:2010 Class 0 (<0.003 mg/m³) for Total Oil can be easily achieved by selecting an optional OIL-X OVR grade filter (refer to pages 7-8 of this document).

Parker Catalogue Numbers

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

Adsorption Dryer - Vacuum Regeneration WVM

Dryer Performance

Dryer Models	Dewpoint (Standard)		ISO8573-1:2010 Classification [Standard]	Dewpoint (Option 1)		ISO8573-1:2010 Classification (Option 1)
	°C	°F		°C	°F	
WVM	-40	-40	Class 2.2.2	-25	-13	Class 2.3.2

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

Technical Data

Dryer Models	Min Operating Pressure		Max Operating Pressure		Min Operating Temperature		Max Operating Temperature		Max Ambient Temperature		Electrical Supply (Standard)	Electrical Supply (Optional)	Thread Connections	Noise Level
	bar g	psi g	bar g	psi g	°C	°F	°C	°F	°C	°F				dB(A)
WVM	4	58	10	145	1.5	35	40	104	40	104	400V 3ph 50Hz	N/A	DIN Flange	<75

Flow Rates

Model	Pipe Size	Inlet Flow Rate)			
		L/s	m³/min	m³/hr	cfm
WVM 40	DN 40	117	7.014	420	247
WVM 50	DN 40	142	8.517	510	300
WVM 65	DN 50	178	10.688	640	377
WVM 85	DN 50	236	14.195	850	500
WVM 120	DN 80	328	19.706	1180	695
WVM 150	DN 80	417	25.05	1500	883
WVM 200	DN 80	550	33.066	1980	1165
WVM 235	DN 100	653	39.245	2350	1383
WVM 300	DN 100	814	48.931	2930	1725
WVM 355	DN 100	986	59.285	3550	2090
WVM 410	DN 150	1139	68.47	4100	2413
WVM 475	DN 150	1317	79.158	4740	2790
WVM 525	DN 150	1458	87.675	5250	3090
WVM 620	DN 150	1725	103.707	6210	3655
WVM 710	DN 150	1972	118.57	7100	4179
WVM 800	DN 200	2222	133.6	8000	4709
WVM 920	DN 200	2556	153.64	9200	5415
WVM 1080	DN 200	3000	180.36	10800	6357
WVM 1230	DN 250	3417	205.41	12300	7240
WVM 1450	DN 250	4028	242.15	14500	8535

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 and with a 25 °C ambient temperature, 60 % relative humidity. 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 minimum pressure, maximum temperature and maximum flow rate of the installation. Please Note: The method of selecting WVM differs from the method used for other Parker dryers.

First select the correction factors for the required outlet dewpoint [-40°C PDP or -25°C PDP]. For an outlet dewpoint of -70°C PDP, please contact Parker.

Example: Outlet dewpoint required -40°C. Maximum inlet flow = 4095 m³/hr, at a minimum pressure of 9 bar g, and a maximum inlet temperature of 30 °C:

The -40°C PDP correction factor for 30°C & 9 bar = 0.96 should be applied to the maximum inlet flow.

4095 m³/hr x 0.96 = 3931 m³/hr.

Using the flow table above, select a dryer model with a flow rate equal to or greater than 4095 m³/hr. Model selected = WVM 410 (for a pressure dew point of -40 °C)

Correction Factors for -40°C Outlet Pressure Dewpoint								Correction Factors for -25°C Outlet Pressure Dewpoint							
Temperature (°C / °F)	Pressure (bar g / psi g)							Temperature (°C / °F)	Pressure (bar g / psi g)						
	4 (58)	5 (73)	6 (87)	7 (102)	8 (116)	9 (131)	10 (145)		4 (58)	5 (73)	6 (87)	7 (102)	8 (116)	9 (131)	10 (145)
30°C / 86°F	1.52	1.32	1.15	1.08	1.02	0.96	0.90	30°C / 86°F	1.45	1.25	1.11	0.98	0.94	0.85	0.78
35°C / 95°F	2.50	1.72	1.30	1.11	1.05	0.97	0.90	35°C / 95°F	2.27	1.61	1.25	1.00	0.95	0.86	0.78
40°C / 104°F	3.85	2.63	1.79	1.47	1.39	1.32	1.18	40°C / 104°F	3.57	2.38	1.69	1.43	1.27	1.14	1.04



Controller Functions

Dryer	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
WVM	•		•	•		•		

Recommended Filtration

For Dryer Model	Pipe Size BSPP or NPT	Inlet General Purpose Pre-filter	Inlet High Efficiency Filter	Oil Vapour Removal Filter	Outlet Dust Filter
WVM 235	DN 100	A00700DFX	AA0700DFX	-	A00700DMX
WVM 300	DN 100	A00700DFX	AA0700DFX	-	A00700DMX
WVM 355	DN 100	A00700DFX	AA0700DFX	-	A00700DMX
WVM 410	DN 150	A0075PDFX	AA075PDFX	-	A0075PDMX
WVM 475	DN 150	A0075PDFX	AA075PDFX	-	A0075PDMX
WVM 525	DN 150	A0075PDFX	AA075PDFX	-	A0075PDMX
WVM 620	DN 150	A0075PDFX	AA075PDFX	-	A0075PDMX
WVM 710	DN 150	A0080PDFX	AA080PDFX	-	A0080PDMX
WVM 800	DN 200	A0085QDFX	AA085QDFX	-	A0085QDMX
WVM 920	DN 200	A0085QDFX	AA085QDFX	-	A0085QDMX
WVM 1080	DN 200	A0085QDFX	AA085QDFX	-	A0085QDMX
WVM 1230	DN 250	A0090RDFX	AA090RDFX	-	A0090RDMX
WVM 1450	DN 250	A0090RDFX	AA090RDFX	-	A0090RDMX

Parker Catalogue Numbers

Model	Catalogue Number Standard Dryer with Pressure dew-point control	Catalogue Number Plus additional vessel insulation
WVM 40	W40/10VM4-F400CT	W40/10VM4-F400CT/I
WVM 50	W50/10VM4-F400CT	W50/10VM4-F400CT/I
WVM 65	W65/10VM4-F400CT	W65/10VM4-F400CT/I
WVM 85	W85/10VM4-F400CT	W85/10VM4-F400CT/I
WVM 120	W120/10VM4-F400CT	W120/10VM4-F400CT/I
WVM 150	W150/10VM4-F400CT	W150/10VM4-F400CT/I
WVM 200	W200/10VM4-F400CT	W200/10VM4-F400CT/I
WVM 235	W235/10VM4-F400CT	W235/10VM4-F400CT/I
WVM 300	W300/10VM4-F400CT	W300/10VM4-F400CT/I
WVM 355	W355/10VM4-F400CT	W355/10VM4-F400CT/I
WVM 410	W410/10VM4-F400CT	W410/10VM4-F400CT/I
WVM 475	W475/10VM4-F400CT	W475/10VM4-F400CT/I
WVM 525	W525/10VM4-F400CT	W525/10VM4-F400CT/I
WVM 620	W620/10VM4-F400CT	W620/10VM4-F400CT/I
WVM 710	W710/10VM4-F400CT	W710/10VM4-F400CT/I
WVM 800	W800/10VM4-F400CT	W800/10VM4-F400CT/I
WVM 920	W920/10VM4-F400CT	W920/10VM4-F400CT/I
WVM 1080	W1080/10VM4-F400CT	W1080/10VM4-F400CT/I
WVM 1230	W1230/10VM4-F400CT	W1230/10VM4-F400CT/I
WVM 1450	W1450/10VM4-F400CT	W1450/10VM4-F400CT/I

Adsorption Dryer - Tandem Technology ATT

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	
Antares	-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	Min Operating Pressure		Max Operating Pressure		Min Operating Temperature		Max Operating Temperature		Max Ambient Temperature		Electrical Supply (Standard)	Electrical Supply (Optional)	Thread Connections	Noise Level
	bar g	psi g	bar g	psi g	°C	°F	°C	°F	°C	°F				dB(A)
ATT 025 - 040	2	29	16	232	5	41	65	149	50	122	230V 1ph 50Hz	N/A	BSPP	<75
ATT 060 - 090	2	29	12	174	5	41	65	149	50	122	230V 1ph 50Hz	N/A	BSPP	<75
ATT 090 - 140	2	29	12	174	5	41	65	149	50	122	400V 3ph 50Hz	N/A	BSPP	<75
ATT 260 - 340	4	58	12	174	5	41	65	149	50	122	400V 3ph 50Hz	N/A	BSPP	<75

Flow Rates

Model	Pipe Size	Inlet Flow Rate			
		L/s	m³/min	m³/hr	cfm
ATT 025	G 1	42	2.5	150	88
ATT 040	G 1	67	4	240	141
ATT 060	G 1 1/2	100	6	360	212
ATT 090	G 1 1/2	150	9	540	318
ATT 140	G2	233	14	840	494
ATT 260	G 2 1/2	433	26	1560	918
ATT 340	G 2 1/2	567	34	2040	1200

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.

Average Power kW

Model	Average Power kW
ATT 025	0.94
ATT 040	1.3
ATT 060	1.27
ATT 090	1.94
ATT 140	2.01
ATT 260	4.02
ATT 340	5.17



Product Selection & Correction Factors

For correct operation, compressed air dryers must be sized using for the minimum pressure, maximum temperature 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 CFP x CFD

CFIT - Correction Factor Maximum Inlet Temperature

Maximum Inlet Temperature	°C	25	30	35	40	45	50	55	60	65
	°F	77	86	95	104	113	122	131	140	149
Correction Factor 025 - 340		0.82	0.82	1.00	1.23	1.45	1.69	1.92	2.17	2.50

CFAT - Correction Factor Maximum Ambient Temperature

Maximum Ambient Temperature	°C	20	25	30	35	40	45	50
	°F	68	77	86	95	104	113	122
Correction Factor 025 - 060		0.95	1.00	1.06	1.14	1.23	1.33	1.47
Correction Factor 090 - 340		0.94	1.00	1.05	1.11	1.20	1.30	1.39

CFP - Correction Factor Minimum Inlet Pressure

Minimum Inlet Pressure	bar g	4	5	6	7	8	9	10	11	12	13	14	15	16
	psi g	58	73	87	100	116	131	145	160	174	189	203	218	232
Correction Factor 025 - 040		1.61	1.33	1.15	1.00	0.93	0.83	0.78	0.75	0.71	0.69	0.67	0.65	0.63
Correction Factor 060 - 340		1.61	1.33	1.15	1.00	0.93	0.83	0.78	0.75	0.71	N/A	N/A	N/A	N/A

CFD - Correction Factor Dewpoint

Maximum Inlet Temperature	°C	-20	-40	-70
	°F	-4	-40	-100
Correction Factor		1	1	1

Controller Functions

Dryer	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
ATT	•	•	•	•		•	•	

Included Filtration

For Dryer Model	Pipe Size	Inlet General Purpose Pre-filter	Inlet High Efficiency Filter	Oil Vapour Removal Filter	Outlet Dust Filter
ATT 025	G 1	AOP025EGFX	AOP025EGFX	-	AOP025EGMX
ATT 040	G 1	AOP030GGFX	AOP030GGFX	-	AOP030GGMX
ATT 060	G 1 1/2	AOP030GGFX	AOP030GGFX	-	AOP030GGMX
ATT 090	G 1 1/2	AOP035GGFX	AOP035GGFX	-	AOP035GGMX
ATT 140	G 2	AOP045IGFX	AOP045IGFX	-	AOP045IGMX
ATT 260	G 2 1/2	AOP055JGFX	AOP055JGFX	-	AOP055JGMX
ATT 340	G 2 1/2	AOP055JGFX	AOP055JGFX	-	AOP055JGMX

Parker Catalogue Numbers

Model	Catalogue Number Standard	Catalogue Number With By-Pass	Catalogue Number With Touchscreen	Catalogue Number With By-Pass & Touchscreen
ATT 025	ATT025-A23015016TI	-	-	-
ATT 040	ATT040-A23015016TI	-	-	-
ATT 060	ATT060-A23015012TI	ATT060-A23015012TITB	-	-
ATT 090	ATT090-A23015012TI	ATT090-A23015012TITB	-	-
ATT 140	ATT140-A40035012EI	ATT140-A40035012EITB	ATT140-A40035012EITS	ATT140-A40035012EITBTS
ATT 260	ATT260-A40035012EI	ATT260-A40035012EITB	ATT260-A40035012EITS	ATT260-A40035012EITBTS
ATT 340	ATT340-A40035012EI	ATT340-A40035012EITB	ATT340-A40035012EITS	ATT340-A40035012EITBTS

Refrigeration Dryer - Direct Expansion - SPE

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	
SPE	+3	+37	Class 2.4.2	+7	+45	Class 2.5.2	+10	+50	Class 2.6.2

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

Technical Data

Dryer Models	Min Operating Pressure		Max Operating Pressure		Min Operating Temperature		Max Operating Temperature		Max Ambient Temperature		Electrical Supply (Standard)	Electrical Supply (Optional)	Thread Connections	Noise Level
	bar g	psi g	bar g	psi g	°C	°F	°C	°F	°C	°F				dB(A)
SPE 004 - 062	2	15	16	232	5	41	65	149	50	122	230V 1ph 50Hz / 60Hz	N/A	BSPP	<75
SPE 080 - 100			14	203										

Flow Rates

Model	Pipe Size	Inlet Flow Rate 50 Hz				Inlet Flow Rate 60Hz			
		L/s	m³/min	m³/hr	cfm	L/s	m³/min	m³/hr	cfm
SPE 004	1/2"	7	0.4	24	14	8	0.47	28	16
SPE 007	1/2"	12	0.7	42	25	13	0.78	47	28
SPE 009	1/2"	15	0.9	54	32	17	1.00	60	35
SPE 014	3/4"	23	1.4	84	49	27	1.60	96	57
SPE 018	3/4"	30	1.8	108	64	34	2.07	124	73
SPE 026	1"	43	2.6	156	92	49	2.93	176	104
SPE 032	1"	53	3.2	192	113	61	3.63	218	128
SPE 040	1"	67	4.0	240	141	76	4.53	272	160
SPE 052	1 1/2"	87	5.2	312	184	100	6.02	361	212
SPE 062	1 1/2"	103	6.2	372	219	119	7.15	429	253
SPE 080	1 1/2"	133	8.0	480	282	154	9.25	555	327
SPE 100	1 1/2"	167	10.0	600	353	191	11.48	689	406

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 minimum pressure, maximum temperature 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 CFP x CFD

CFIT - Correction Factor Maximum Inlet Temperature

Maximum Inlet Temperature	°C	25	30	35	40	45	50	55	60	65
	°F	77	86	95	104	113	122	131	140	149
Correction Factor	50Hz	0.83	0.83	1.00	1.30	1.61	2.00	2.33	2.38	2.50
	60Hz	0.85	0.85	1.00	1.32	1.61	2.04	2.56	2.63	2.78

CFAT - Correction Factor Maximum Ambient Temperature

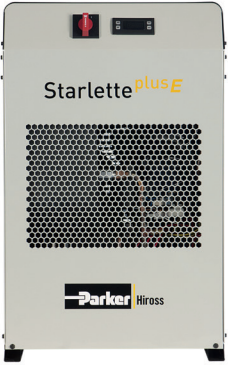
Maximum Ambient Temperature	°C	20	25	30	35	40	45	50
	°F	68	77	86	95	104	113	122
Correction Factor	50Hz	0.93	1.00	1.02	1.09	1.15	1.22	1.28
	60Hz	0.96	1.00	1.06	1.11	1.18	1.25	1.33

CFP - Correction Factor Minimum Inlet Pressure

Minimum Inlet Pressure	bar g	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	psi g	44	58	73	87	100	116	131	145	160	174	189	203	218	232
Correction Factor		1.35	1.23	1.11	1.06	1.00	0.93	0.85	0.83	0.81	0.79	0.77	0.75	0.73	0.71

CFD - Correction Factor Dewpoint

Maximum Inlet Temperature	°C	+3	+5	+7
	°F	+37	+41	+45
Correction Factor	50Hz	1.00	0.78	0.70
	60Hz	1.00	0.79	0.72



Controller Functions

Dryer	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
SPE	•	•	On E-Saving Models			•	•	On E-Saving Models

Recommended Filtration

For Dryer Model	Pipe Size BSPP	General Purpose Coalescing Filter	High Efficiency Coalescing Filter	Oil Vapour Removal Filter
SPE 004	1/2"	AOP010CGFI	AAP010CGFI	-
SPE 007	1/2"	AOP015CGFI	AAP015CGFI	-
SPE 009	1/2"	AOP015CGFI	AAP015CGFI	-
SPE 014	3/4"	AOP020DGF	AAP020DGF	-
SPE 018	3/4"	AOP020DGF	AAP020DGF	-
SPE 026	1"	AOP025EGFI	AAP025EGFI	-
SPE 032	1"	AOP025EGFI	AAP025EGFI	-
SPE 040	1"	AOP025EGFI	AAP025EGFI	-
SPE 052	1 1/2"	AOP030GGFI	AAP030GGFI	-
SPE 062	1 1/2"	AOP030GGFI	AAP030GGFI	-
SPE 080	1 1/2"	AOP035GGFX	AAP035GGFX	-
SPE 100	1 1/2"	AOP035GGFX	AAP035GGFX	-

Parker Catalogue Numbers

Model	Catalogue Number With Timed Drain	Catalogue Number With Electronic Drain	Catalogue Number With Energy Saving
SPE 004	SPE004-A2301DF16TIS	SPE004-A2301DF16EXS	-
SPE 007	SPE007-A2301DF16TIS	SPE007-A2301DF16EXS	-
SPE 009	SPE009-A2301DF16TIS	SPE009-A2301DF16EXS	-
SPE 014	SPE014-A2301DF16TIS	SPE014-A2301DF16EXS	-
SPE 018	SPE018-A2301DF16TIS	SPE018-A2301DF16EXS	-
SPE 026	SPE026-A2301DF16TIS	SPE026-A2301DF16EXS	SPE026-A2301DF16EXSES
SPE 032	SPE032-A2301DF16TIS	SPE032-A2301DF16EXS	SPE032-A2301DF16EXSES
SPE 040	SPE040-A2301DF16TIS	SPE040-A2301DF16EXS	SPE040-A2301DF16EXSES
SPE 052	SPE052-A2301DF16TIS	SPE052-A2301DF16EXS	SPE052-A2301DF16EXSES
SPE 062	SPE062-A2301DF16TIS	SPE062-A2301DF16EXS	SPE062-A2301DF16EXSES
SPE 080	SPE080-A2301DF14TIS	SPE080-A2301DF14EXS	SPE080-A2301DF14EXSES
SPE 100	SPE100-A2301DF14TIS	SPE100-A2301DF14EXS	SPE100-A2301DF14EXSES

Refrigeration Dryer - Direct Expansion - PST

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	
PST	+3	+37	Class 2.4.2	+7	+45	Class 2.5.2	+10	+50	Class 2.6.2

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

Technical Data

Dryer Models	Min Operating Pressure		Max Operating Pressure		Min Operating Temperature		Max Operating Temperature		Max Ambient Temperature		Electrical Supply (Standard)	Electrical Supply (Optional)	Thread Connections	Noise Level
	bar g	psi g	bar g	psi g	°C	°F	°C	°F	°C	°F				dB(A)
PST 0120 - 1800	3	44	14	203	5	41	65	149	50	122	400V 3ph 50Hz	N/A	BSPP & DIN Flange	<75

Flow Rates

Model	Pipe Size	Inlet Flow Rate			
		L/s	m³/min	m³/hr	cfm
PST 120	2"	200	12	720	424
PST 140	2"	233	14	840	494
PST 180	2"	300	18	1080	636
PST 220	2 1/2"	367	22	1320	777
PST 260	2 1/2"	433	26	1560	918
PST 300	2 1/2"	500	30	1800	1059
PST 350	2 1/2"	583	35	2100	1236
PST 460	DN100	767	46	2760	1625
PST 520	DN100	867	52	3120	1836
PST 630	DN100	1050	63	3780	2225
PST 750	DN150	1250	75	4500	2649
PST 900	DN150	1500	90	5400	3178
PST 1200	DN150	2000	120	7200	4238
PST 1500	DN200	2500	150	9000	5297
PST 1800	DN200	3000	180	10800	6357

Average Power kW

Model	kW
PST 120	1.13
PST 140	1.14
PST 180	1.46
PST 220	1.68
PST 260	2.19
PST 300	2.41
PST 350	3.06
PST 460	3.14
PST 520	3.54
PST 630	4.64
PST 750	5.73
PST 900	7.63
PST 1200	8.92
PST 1500	12.35
PST 1800	15.96

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 minimum pressure, maximum temperature 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 CFP x CFD

CFIT - Correction Factor Maximum Inlet Temperature

Maximum Inlet Temperature	°C	25	30	35	40	45	50	55	60	65
	°F	77	86	95	104	113	122	131	140	149
Correction Factor Models		0.81	0.81	1.00	1.19	1.43	1.69	2.00	2.22	2.50

CFAT - Correction Factor Maximum Ambient Temperature

Maximum Ambient Temperature	°C	20	25	30	35	40	45	50
	°F	68	77	86	95	104	113	122
Correction Factor		0.94	1.00	1.05	1.11	1.20	1.30	1.39

CFP - Correction Factor Minimum Inlet Pressure

Minimum Inlet Pressure	bar g	3	4	5	6	7	8	9	10	11	12	13	14
	psi g	58	73	87	100	116	131	145	160	174	189	203	
Correction Factor		1.35	1.20	1.11	1.04	1.00	0.96	0.93	0.93	0.90	0.89	0.88	0.87

CFD - Correction Factor Dewpoint

Maximum Inlet Temperature	°C	+3	+5	+7	+10
	°F	+37	+41	+45	+50
Correction Factor		1.00	0.91	0.83	0.71

Controller Functions

Dryer	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
PST	•	•	•	•		•	•	

Recommended Filtration

For Dryer Model	Pipe Size BSPP / DIN	General Purpose Coalescing Filter	High Efficiency Coalescing Filter	Oil Vapour Removal Filter
PST 120	2"	AOP040HGFX	AAP040HGFX	-
PST 140	2"	AOP040HGFX	AAP040HGFX	-
PST 180	2 1/2"	AOP045IGFX	AAP045IGFX	-
PST 220	2 1/2"	AOP050IGFX	AAP050IGFX	-
PST 260	2 1/2"	AOP055IGFX	AAP055IGFX	-
PST 300	2 1/2"	AOP055IGFX	AAP055IGFX	-
PST 350	2 1/2"	AOP055IGFX	AAP055IGFX	-
PST 460	DN100	A00700DFX	AA0700DFX	-
PST 520	DN100	A00700DFX	AA0700DFX	-
PST 630	DN100	A00700DFX	AA0700DFX	-
PST 750	DN150	A0075PDFX	AA075PDFX	-
PST 900	DN150	A0075PDFX	AA075PDFX	-
PST 1200	DN150	A0080PDFX	AA080PDFX	-
PST 1500	DN200	A0085QDFX	AA085QDFX	-
PST 1800	DN200	A0085QDFX	AA085QDFX	-

Parker Catalogue Numbers

Model	Catalogue Number Air Cooled	Catalogue Number Water Cooled
PST 120	PST120-A40035014EI	-
PST 140	PST140-A40035014EI	-
PST 180	PST180-A40035014EI	-
PST 220	PST220-A40035014EI	PST220-W40035014EI
PST 260	PST260-A40035014EI	PST260-W40035014EI
PST 300	PST300-A40035014EI	PST300-W40035014EI
PST 350	PST350-A40035014EI	PST350-W40035014EI
PST 460	PST460-A40035014EI	PST460-W40035014EI
PST 520	PST520-A40035014EI	PST520-W40035014EI
PST 630	PST630-A40035014EI	PST630-W40035014EI
PST 750	PST750-A40035014EI	PST750-W40035014EI
PST 900	PST900-A40035014EI	PST900-W40035014EI
PST 1200	PST1200-A40035014EI	PST1200-W40035014EI
PST 1500	PST1500-A40035014EI	PST1500-W40035014EI
PST 1800	PST1800-A40035014EI	PST1800-W40035014EI

Refrigeration Dryer - Direct Expansion - PST Twin

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	
PST	+3	+37	Class 2.4.2	+7	+45	Class 2.5.2	+10	+50	Class 2.6.2

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

Technical Data

Dryer Models	Min Operating Pressure		Max Operating Pressure		Min Operating Temperature		Max Operating Temperature		Max Ambient Temperature		Electrical Supply (Standard)	Electrical Supply (Optional)	Thread Connections	Noise Level
	bar g	psi g	bar g	psi g	°C	°F	°C	°F	°C	°F				dB(A)
PST 2400 - 3600	3	44	14	203	5	41	65	149	50	122	400V 3ph 50Hz	N/A	DIN Flange	<75

Flow Rates

Model	Pipe Size	Inlet Flow Rate			
		L/s	m³/min	m³/hr	cfm
PST 2400	DN200	4000	240	14400	8470
PST 3000	DN250	5000	300	18000	10588
PST 3600	DN250	6000	360	21600	12705

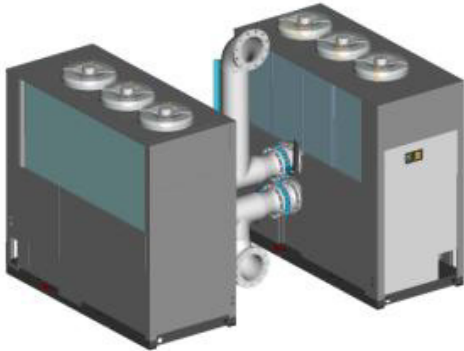
Stated flows are for operation at 7 bar (g) [102 psi g] with reference to 20°C, 1 bar (a), 0% relative water vapour pressure.

For flows at other pressures, apply the correction factors shown below.

*Twin models supplied with master controller, electronic integral drains, manifolds, manual valves and a class 3 coarse grade Parker Hiross pre-filter with automatic drain.

Average Power kW

Model	kW
PST 2400	18
PST 3000	25
PST 3600	32



Product Selection & Correction Factors

For correct operation, compressed air dryers must be sized using for the minimum pressure, maximum temperature 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 CFP x CFD

CFIT - Correction Factor Maximum Inlet Temperature

Maximum Inlet Temperature	°C	25	30	35	40	45	50	55	60	65
	°F	77	86	95	104	113	122	131	140	149
Correction Factor Models		0.81	0.81	1.00	1.19	1.43	1.69	2.00	2.22	2.50

CFAT - Correction Factor Maximum Ambient Temperature

Maximum Ambient Temperature	°C	20	25	30	35	40	45	50
	°F	68	77	86	95	104	113	122
Correction Factor		0.94	1.00	1.05	1.11	1.20	1.30	1.39

CFP - Correction Factor Minimum Inlet Pressure

Minimum Inlet Pressure	bar g	3	4	5	6	7	8	9	10	11	12	13	14
	psi g	58	73	87	100	116	131	145	160	174	189	203	
Correction Factor		1.35	1.20	1.11	1.04	1.00	0.96	0.93	0.93	0.90	0.89	0.88	0.87

CFD - Correction Factor Dewpoint

Maximum Inlet Temperature	°C	+3	+5	+7	+10
	°F	+37	+41	+45	+50
Correction Factor		1.00	0.91	0.83	0.71

Controller Functions

Dryer	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
PST	•	•	•	•		•	•	

Parker Catalogue Numbers

Model	Catalogue Number Air Cooled	Catalogue Number Water Cooled
PST 2400	PST2400-A40035014EITF	PST2400-W40035014EITF
PST 3000	PST3000-A40035014EITF	PST3000-W40035014EITF
PST 3600	PST3600-A40035014EITF	PST3600-W40035014EITF

SPH 004 - 018 (50 bar Direct Expansion Refrigeration Dryers)

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	
SPH	+3	-37	Class 2.4.2	+7	+45	Class 2.5.2	+10	+50	Class 2.6.2

ISO8573-1 Classifications when used with Parker pre / post filtration

Technical Data

Dryer Models	Max Operating Pressure		Min Operating Temperature		Max Operating Temperature		Max Ambient Temperature		Electrical Supply (Standard)	Electrical Supply (Optional)	Thread Connections	Noise Level
	bar g	psi g	°C	°F	°C	°F	°C	°F				dB(A)
SPH 004 - 018	50	725	5	41	60	149	50	122	230V 1ph 50Hz	60Hz on request	BSPT-F	<55

Flow Rates

Model	Pipe Size BSPP or NPT	Inlet Flow Rate			
		L/s	m³/min	m³/hr	cfm
SPH 004	1/2	7	0.4	25	15
SPH 006	1/2	10	0.6	37	22
SPH 012	1/2	21	1.3	75	44
SPH 018	1/2	36	2.2	131	77

Absorbed Power

Model	kW
SPH 004	0.17
SPH 006	0.17
SPH 012	0.25
SPH 018	0.57



Performances refer to air-cooled model with air suction of FAD 20°C / 1 bar A, and at the following operating conditions: air suction 25°C / 60%RH, 40 barg working pressure, 25°C cooling air temperature, 35°C compressed air inlet temperature and pressure dewpoint in accordance with ISO8573-1. All indicated data refers to DIN ISO 7183. SPH supplied with refrigerant R134a. All models designed for operation up to 50 barg. Data refers to 50Hz models.

Product Selection & Correction Factors

For correct operation, compressed air dryers must be sized using for the minimum pressure, maximum temperature 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 CFP x CFD

CFIT - Correction Factor Maximum Inlet Temperature

Maximum Inlet Temperature	°C	25	30	35	40	45	50	55	60	65
	°F	77	86	95	104	113	122	131	140	149
Correction Factor		0.85	0.85	1.00	1.15	1.30	1.45	1.61	1.79	2.00

CFAT - Correction Factor Maximum Ambient Temperature

Maximum Ambient Temperature	°C	20	25	30	35	40	45	50
	°F	68	77	80	95	104	113	122
Correction Factor		0.98	1.00	1.02	1.05	1.08	1.11	1.16

CFP - Correction Factor Minimum Inlet Pressure

Minimum Inlet Pressure	bar g	15	20	25	30	35	40	45	50
	psi g	218	290	363	435	508	580	653	725
Correction Factor		1.18	1.10	1.06	1.03	1.01	1.00	0.99	0.99

CFD - Correction Factor Dewpoint

Maximum Inlet Temperature	°C	+3	+5	+7	+10
	°F	+37	+41	+45	+50
Correction Factor		1.00	0.86	0.80	0.71

Controller Functions

Dryer	Controller Function	
	Power On Indication	Dewpoint Indicator
SPH	•	•

Recommended Filtration

For Dryer Model	Pipe Size BSP or NPT	General Purpose Pre-filter	High Efficiency Filter	Oil Vapour Removal Filter
SPH 004	1/2	G2/50ZP	G2/50XP	G2/50A
SPH 006	1/2	G2/50ZP	G2/50XP	G2/50A
SPH 012	1/2	G3/50ZP	G3/50XP	G2/50A
SPH 018	1/2	G5/50ZP	G5/50XP	G2/50A

Parker Catalogue Numbers

Model	Catalogue Number
SPH 004	SPH004-A23015050TXS
SPH 006	SPH006-A23015050TXS
SPH 012	SPH012-A23015050TXS
SPH 018	SPH018-A23015050TXS

PSH 030 - 1200 (50 bar Direct Expansion Refrigeration Dryers)

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	
PSH	+3	-37	Class 2.4.2	+7	+45	Class 2.5.2	+10	+50	Class 2.6.2

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

Technical Data

Dryer Models	Max Operating Pressure		Min Operating Temperature		Max Operating Temperature		Max Ambient Temperature		Electrical Supply (Standard)	Electrical Supply (Optional)	Thread Connections	Noise Level
	bar g	psi g	°C	°F	°C	°F	°C	°F				
PSH 030 - 090	50	725	5	41	65	149	50	122	230V 1ph 50Hz	60Hz on request	BSPT-F	<55
PSH 0120 - 1200	50	725	5	41	65	149	50	122	400V 3ph 50Hz	60Hz on request	BSPT-F & 2 1/2" Flange	<55

Flow Rates

Model	Pipe Size BSPP or NPT	Inlet Flow Rate			
		L/s	m³/min	m³/hr	cfm
PSH030	1 1/4"	50	3.0	180	106
PSH045	1 1/4"	75	4.5	270	159
PSH065	1 1/4"	108	6.5	390	230
PSH090	1 1/4"	150	9	540	318
PSH120	1 1/4"	200	12	720	424
PSH160	1 1/4"	267	16	960	565
PSH200	1 1/4"	333	20	1200	706
PSH230	1 1/4"	383	23	1380	812
PSH290	2 1/2" ANSI	483	29	1740	1024
PSH380	2 1/2" ANSI	633	38	2280	1342
PSH460	2 1/2" ANSI	767	46	2760	1625
PSH630	2 1/2" ANSI	1050	63	3780	2225
PSH800	2 1/2" ANSI	1333	80	4800	2825
PSH1000	2 1/2" ANSI	1667	100	6000	3531
PSH1200	2 1/2" ANSI	2000	120	7200	4238

Absorbed Power

Model	kW
PSH030	0.53
PSH045	0.55
PSH065	1.33
PSH090	1.37
PSH120	1.41
PSH160	1.44
PSH200	1.47
PSH230	1.52
PSH290	2.89
PSH380	3.18
PSH460	3.44
PSH630	4.12
PSH800	6.6
PSH1000	6.9
PSH1200	7.3



Performances refer to air-cooled model with air suction of FAD 20°C / 1 bar A, and at the following operating conditions: air suction 25°C / 60%RH, 40 barg working pressure, 25°C cooling air temperature, 35°C compressed air inlet temperature and pressure dewpoint in accordance with ISO8573-1. All indicated data refers to DIN ISO 7183. SPH supplied with refrigerant R134a. All models designed for operation up to 50 barg. Data refers to 50Hz models.

Product Selection & Correction Factors

For correct operation, compressed air dryers must be sized using for the minimum pressure, maximum temperature 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 CFP x CFD

CFIT - Correction Factor Maximum Inlet Temperature

Maximum Inlet Temperature	°C	25	30	35	40	45	50	55	60	65
	°F	77	86	95	104	113	122	131	140	149
Correction Factor		0.85	0.85	1.00	1.15	1.30	1.45	1.61	1.79	2.00

CFAT - Correction Factor Maximum Ambient Temperature

Maximum Ambient Temperature	°C	20	25	30	35	40	45	50
	°F	68	77	80	95	104	113	122
Correction Factor		0.98	1.00	1.02	1.05	1.08	1.11	1.16

CFP - Correction Factor Minimum Inlet Pressure

Minimum Inlet Pressure	bar g	15	20	25	30	35	40	45	50
	psi g	218	290	363	435	508	580	653	725
Correction Factor		1.18	1.10	1.06	1.03	1.01	1.00	0.99	0.99

CFD - Correction Factor Dewpoint

Maximum Inlet Temperature	°C	+3	+5	+7	+10
	°F	+37	+41	+45	+50
Correction Factor		1.00	0.86	0.80	0.71

Controller Functions

Dryer	Controller Function				
	Power On Indication	Digital Dewpoint Indicator	Display Fault Condition Values	Configurable Alarm Settings	Remote Volt Free Alarm Contacts
PSH	•	•	From model PSH120	From model PSH120	From model PSH120

Recommended Filtration

For Dryer Model	Pipe Size BSP or NPT	General Purpose Pre-filter	High Efficiency Filter	Oil Vapour Removal Filter
PSH030	1 1/2"	G7/50ZP	G7/50XP	G7/50A
PSH045	1 1/2"	G9/50ZP	G9/50XP	G9/50A
PSH065	1 1/2"	G11/50ZP	G11/50XP	G11/50A
PSH090	1 1/2"	G11/50ZP	G11/50XP	G11/50A
PSH120	1 1/2"	G12/50ZP	G12/50XP	G12/50A
PSH160	1 1/2"	G13/50ZP	G13/50XP	G13/50A
PSH200	1 1/2"	G13/50ZP	G13/50XP	G13/50A
PSH230	1 1/2"	G13/50ZP	G13/50XP	G13/50A
PSH290		CONTACT PARKER Hiross		
PSH380		CONTACT PARKER Hiross		
PSH460		CONTACT PARKER Hiross		
PSH630		CONTACT PARKER Hiross		
PSH800		CONTACT PARKER Hiross		
PSH1000		CONTACT PARKER Hiross		
PSH1200		CONTACT PARKER Hiross		

Parker Catalogue Numbers

Model	Catalogue Number	Catalogue Number
PSH030	PSH030-A23015050TI	N/A
PSH045	PSH045-A23015050TI	N/A
PSH065	PSH065-A23015050TI	N/A
PSH090	PSH090-A23015050TI	N/A
PSH120	PSH120-A40035050TI	N/A
PSH160	PSH160-A40035050TI	N/A
PSH200	PSH200-A40035050TI	N/A
PSH230	PSH230-A40035050TI	N/A
PSH290	PSH290-A40035050TI	PSH290-W40035050TI
PSH380	PSH380-A40035050TI	PSH380-W40035050TI
PSH460	PSH460-A40035050TI	PSH460-W40035050TI
PSH630	PSH630-A40035050TI	PSH630-W40035050TI
PSH800	PSH800-A40035050TI	PSH800-W40035050TI
PSH1000	PSH1000-A40035050TI	PSH1000-W40035050TI
PSH1200	PSH1200-A40035050TI	PSH1200-W40035050TI

Parker Worldwide

Europe, Middle East, Africa

AE – United Arab Emirates, Dubai
Tel: +971 4 8127100
parker.me@parker.com

AT – Austria, Wiener Neustadt
Tel: +43 (0)2622 23501-0
parker.austria@parker.com

AT – Eastern Europe, Wiener Neustadt
Tel: +43 (0)2622 23501 900
parker.easteurope@parker.com

AZ – Azerbaijan, Baku
Tel: +994 50 2233 458
parker.azerbaijan@parker.com

BE/LU – Belgium, Nivelles
Tel: +32 (0)67 280 900
parker.belgium@parker.com

BG – Bulgaria, Sofia
Tel: +359 2 980 1344
parker.bulgaria@parker.com

BY – Belarus, Minsk
Tel: +375 17 209 9399
parker.belarus@parker.com

CH – Switzerland, Etoy
Tel: +41 (0)21 821 87 00
parker.switzerland@parker.com

CZ – Czech Republic, Klecany
Tel: +420 284 083 111
parker.czechrepublic@parker.com

DE – Germany, Kaarst
Tel: +49 (0)2131 4016 0
parker.germany@parker.com

DK – Denmark, Ballerup
Tel: +45 43 56 04 00
parker.denmark@parker.com

ES – Spain, Madrid
Tel: +34 902 330 001
parker.spain@parker.com

FI – Finland, Vantaa
Tel: +358 (0)20 753 2500
parker.finland@parker.com

FR – France, Contamine s/Arve
Tel: +33 (0)4 50 25 80 25
parker.france@parker.com

GR – Greece, Athens
Tel: +30 210 933 6450
parker.greece@parker.com

HU – Hungary, Budaörs
Tel: +36 23 885 470
parker.hungary@parker.com

IE – Ireland, Dublin
Tel: +353 (0)1 466 6370
parker.ireland@parker.com

IT – Italy, Corsico (MI)
Tel: +39 02 45 19 21
parker.italy@parker.com

KZ – Kazakhstan, Almaty
Tel: +7 7273 561 000
parker.easteurope@parker.com

NL – The Netherlands, Oldenzaal
Tel: +31 (0)541 585 000
parker.nl@parker.com

NO – Norway, Asker
Tel: +47 66 75 34 00
parker.norway@parker.com

PL – Poland, Warsaw
Tel: +48 (0)22 573 24 00
parker.poland@parker.com

PT – Portugal, Leca da Palmeira
Tel: +351 22 999 7360
parker.portugal@parker.com

RO – Romania, Bucharest
Tel: +40 21 252 1382
parker.romania@parker.com

RU – Russia, Moscow
Tel: +7 495 645-2156
parker.russia@parker.com

SE – Sweden, Spånga
Tel: +46 (0)8 59 79 50 00
parker.sweden@parker.com

SK – Slovakia, Banská Bystrica
Tel: +421 484 162 252
parker.slovakia@parker.com

SL – Slovenia, Novo Mesto
Tel: +386 7 337 6650
parker.slovenia@parker.com

TR – Turkey, Istanbul
Tel: +90 216 4997081
parker.turkey@parker.com

UA – Ukraine, Kiev
Tel: +380 44 494 2731
parker.ukraine@parker.com

UK – United Kingdom, Warwick
Tel: +44 (0)1926 317 878
parker.uk@parker.com

ZA – South Africa, Kempton Park
Tel: +27 (0)11 961 0700
parker.southafrica@parker.com

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 7000-99

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

South America

AR – Argentina, Buenos Aires
Tel: +54 3327 44 4129

BR – Brazil, Sao Jose dos Campos
Tel: +55 800 727 5374

CL – Chile, Santiago
Tel: +56 2 623 1216

MX – Mexico, Toluca
Tel: +52 72 2275 4200

European 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)

