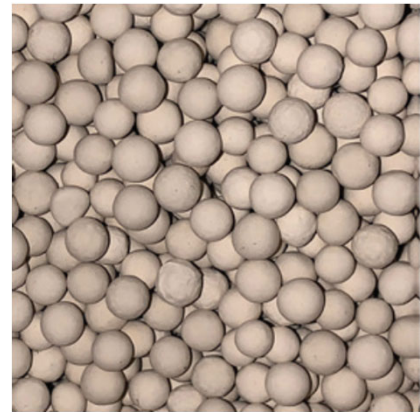


Clean, Dry Compressed Air Blower Regeneration KMB / KMP Series



Adsorption Dryers

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

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

Blower Regeneration

Adsorption Dryers

Blower regeneration dryers do not use process air to regenerate the adsorbent desiccant material, instead they use ambient air for both regeneration and cooling (reducing energy consumption and process air loss).

For regeneration, the ambient air is heated and pushed across the desiccant bed using a blower. To cool the desiccant and ensure it is at the optimum temperature for adsorption, the heat source is simply removed, and the desiccant cooled to ambient temperature.

Blower regeneration dryers can be supplied with purge cooling, or zero loss cooling utilise existing water sources on site (cooling or chilled water).



Advantages

- Parker KMB/KMP dryers provide a constant outlet dewpoint in accordance with ISO8573-1
- Air quality is enhanced when installed with Parker OIL-X High Efficiency Coalescing pre-filtration and General-Purpose Dry Particulate post filtration
- No process air (KMP) is used during regeneration & cooling of the desiccant material, reducing energy consumption
- Regeneration under blower further improves energy efficiency
- Can utilise existing water source on site to further reduce energy consumption by using loop cooler to replace purge cooling.
- Thermal insulation for reduction of heat loss and touch protection fitted as standard
- Full feature PLC control with dewpoint display and Energy Saving Technology fitted as standard
- Large flow capacities



ENGINEERING YOUR SUCCESS.

Scope of Application

Installation location	Indoor in non-aggressive atmospheres;
Max. Ambient Humidity	25% rel. hum. at 40°C 37% rel. hum. at 35°C 50% rel. hum. at 30°C 70% rel. hum. at 25°C 90% rel. hum. at 20°C
Max. Ambient Temperature	50°C
Min. Ambient Temperature	1.5°C;
Operating Pressure	4 to 10 bar (g)
Flow Medium	Compressed air

Approvals for Pressure Equipment

ASME VIII, DOSH, MOM, PED, SELO (China Stamp)

Quality Assurance

Development / Manufacture DIN EN ISO 9001, DIN EN ISO 14001

Air Purity Class as per ISO 8573-1:2010

Moisture (gaseous) Class 3 (PDP -20°C), Class 2 (PDP -40°C), Class 1 (option)

Electrical Connection

Standard mains voltage 380~415V, 50/60Hz, 3ph

Protection class IP54 Indoor use only

Correction Factors (-20°C/-40°C)

Inlet Pressure	bar (g)	6	7	8	9	10
Inlet Temperature	30°C	1.22	1.4	1.58	1.75	1.96
	35°C	1	1.15	1.3	1.44	1.61
	38°C	0.87	1	1.13	1.25	1.4
	40°C	0.8	0.93	1.05	1.16	1.3

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

* Selection for Dewpoint -70°C - Please Contact Parker Hannifin Industrial (M) Sdn. Bhd.

Technical Data

2% Purge (KMB Series)

Model	Flow Rate m ³ /min @ 7 bar g	Installed Power kW	Connect	Height mm	Width mm	Depth mm	Weight KG
KMB-150	1020	13.5	DN65	2362	1450	1050	850
KMB-200	1380	19	DN65	2438	1450	1250	1060
KMB-250	1620	23.5	DN80	2385	1650	1300	1300
KMB-300	2040	31.9	DN80	2420	1800	1410	1870
KMB-400	2700	40	DN100	2890	2040	1650	2160
KMB-500	3300	53	DN100	2480	2450	1850	2700
KMB-600	3900	63	DN125	2876	2500	1850	3240
KMB-800	5220	82.5	DN150	2700	2900	2150	4300
KMB-1000	6600	101	DN150	2800	3026	2150	5400
KMB-1200	7800	116	DN150	3100	3026	3080	6480
KMB-1500	9600	142	DN200	3004	4719	3180	8100

Zero Purge (KMP Series)

Model	Flow Rate m ³ /hr @ 7 bar g	Installed Power kW	Connect	Height mm	Width mm	Depth mm	Weight KG
KMP-150	1020	15	DN65	2280	1599	1350	1000
KMP-200	1380	19.6	DN65	1610	1800	1520	1300
KMP-250	1620	24.7	DN80	2520	1850	1650	1600
KMP-300	2040	31.5	DN80	2700	2040	1720	2050
KMP-400	2700	38	DN100	2750	2040	1720	2600
KMP-500	3300	47	DN100	2775	2500	1920	3300
KMP-600	3900	62	DN125	2785	2650	2170	3900
KMP-800	5220	77	DN150	2850	2900	2400	5200
KMP-1000	6600	92	DN150	3060	3020	2470	6600
KMP-1200	7800	104	DN150	3250	3120	2510	7500
KMP-1500	9600	127	DN200	3300	4700	2700	9400

*Referenced to 1 bar(a) and 20°C

**Flowrate based on rated inlet of 7 bar (g), 35°C with outlet -20/-40°C pressure dew point

***Maximum operating conditions : 10 bar (g) inlet pressure and 40°C inlet temperature



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