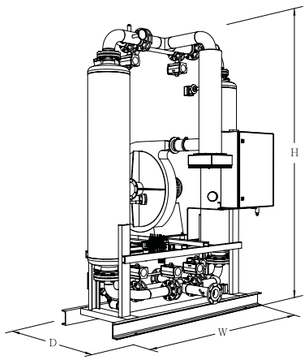
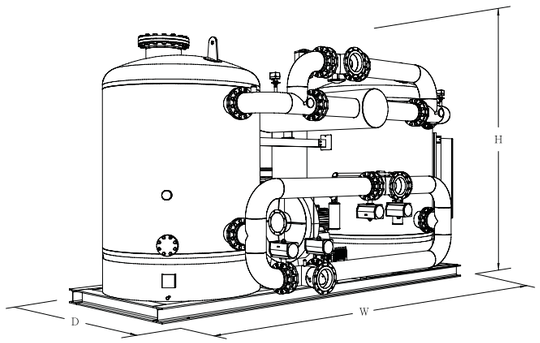


JDB28.3~JDB100.0



JDB116.6~JDB766.67

Operation Condition

Pressure dewpoint :	-40℃
Inlet Pressure :	7㎏/㎠G
Inlet Temperature :	38℃
Relative Humidity :	100%
Power Supply :	380V-60Hz

Design Condition

Inlet Pressure (Min.):	5㎏/㎠G
Inlet Pressure (Max.):	9㎏/㎠G
Inlet Temperature (Min.):	5℃
Inlet Temperature (Max.):	45℃
Ambient Temperature (Min.):	0℃
Ambient Temperature (Max.):	40℃

Correction factor

Inlet temperature(℃)	Inlet pressure(㎏/㎠G)					
	5	6	7	8	9	10
33	0.97	1.13	1.30	1.49	1.62	1.78
38	0.69	0.85	1.00	1.12	1.25	1.37
43	0.43	0.60	0.74	0.85	0.95	1.02

SPX
WHERE IDEAS MEET INDUSTRY

Your local contact:

SPX FLOW TECHNOLOGY KOREA CO., LTD.
HEADQUARTERS / MAIN FACTORY
#940-1, YERIM-RI, JEONGGWAN-MYEON, GIJANG-GUN, BUSAN, 619-961, KOREA
TEL.+82-51-728-5360, FAX.+82-51-728-5359
2ND FACTORY
#1112-8, DALSAN-R, JEONGGWAN-MYEON, GIJANG-GUN, BUSAN, 619-961, KOREA
SEOUL OFFICE
11F, KT BUILDING, 28-2, YEOUIDO-DONG, YEONGDEUNGPO-GU, SEOUL, 150-931, KOREA
TEL.+82-2-6297-4000, FAX.+82-2-783-0160
www.spxflowkorea.com

Some specification in this bulletin may change without notice.

Bulletin C709E, Rev. A (04/12)

Jemaco

JDB Series

Blower Non-Purge Compressed Air Dryer

SPX

Blower non-purge desiccant air dryer

JDB Series

Moisture can be a real problem in a compressed air system. The air outlet temperature of a compressor/after-cooler package is typically 25-50℃ and saturated with water vapor, which results in significant amounts of liquid downstream. The moisture in a compressed air system can cause serious problems ranging from products spoilage to equipment malfunction, thus making an air dryer a critical component in any compressed air system.
Our JDB series compressed air dryer reduces the concentration of water vapor and decreases the pressure dew point of the air to -40℃. (Optional: -73℃)

JDB compressed air dryers use porous materials (desiccants) to adsorb moisture from the compressed air. For regeneration, heated ambient air is used instead of expensive purge air to desorb moisture from the regenerating bed.
No purge loss means DRYER-IN is almost same as DRYER-OUT.

Product features

- Reliable pressure dew point
  : Minimize the dew point spike during tower change
  : Stable -40℃ PDP (Optional -73℃ PDP)
- Energy saving
  : High efficiency blower integrated
  : Regeneration by ambient air
  : No-purge loss
  : Low pressure drop < 0.1bar
  : Adjustable operating cycle 8~48hours
  (Standard: 12hours cycle)
- Easy maintenance
  : No needs cooling water nor water filter
  : No needs hot air piping(-40℃ PDP dryer)
- ASME standard

How it works

No purge air loss and no Dew point Spike

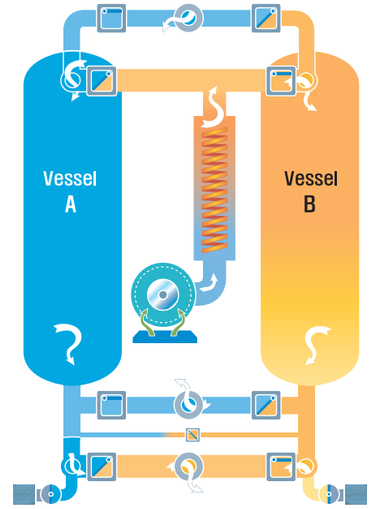
Regeneration is carried out by means of heated ambient air. Therefore no purge air is used, so dryer "in" is dryer "out". Pressure dew point and outlet temperature of the dried compressed air will not exceed the specified conditions (no peaks during switch-over), due to the special regeneration system, co-current cooling and parallel drying.

Low power consumption

The electrical energy consumption is matched to actual moisture loading of the desiccant. As the required heat for regeneration is equally distributed over the desiccant bed, no "hot spots" can occur, and excessive aging of the desiccant will be avoided.

Compact and maintenance friendly

The regeneration heater is 2-stage with thermostatic control of the second stage and it includes a safeguard against overheating.
Pressurization and depressurization before and after regeneration is a part of the dryer cycle. This prevents damage and wear and tear to the valve seals and any reduction in life-time of the desiccant due to pressure shocks.



Options

- Dew point demand control
- Dew point meter(Dew point indicator only)
- Touch screen(5.5", 8.4")
- Moisture indicator
- -70℃ PDP outlet performance
- Tower insulation

Specification

Model	Flow capacity (Nm³/min)	Dimension(mm) H	W	D	Weight(kg)	In/out connection (FLG)	Fan (kW)	Heater (kW)	Power consumption (kW)
JDB28.3	28.33	2864	2400	1640	2150	DN80	3	23	16.5
JDB35.0	35.00	2950	2400	1640	2340	DN80	3	27	18.5
JDB41.6	41.67	2972	2700	1730	2700	DN80	5.5	31	21.3
JDB48.3	48.33	2972	2800	1840	3250	DN100	5.5	39	26.7
JDB55.0	55.00	3100	2800	1840	3560	DN100	5.5	42	30
JDB70.0	70.00	3136	3350	1695	4200	DN150	5.5	51	35.7
JDB88.3	88.33	3220	3350	2180	5400	DN150	7.5	66	46.5
JDB100.0	100.00	3327	3800	2280	6900	DN150	7.5	82	57.5
JDB116.6	116.67	3200	4000	2360	7100	DN150	7.5	85	61
JDB133.3	133.33	2800	5070	2190	8200	DN150	11	101	70.3
JDB141.6	141.67	3050	5270	2360	9800	DN200	11	113	78.7
JDB183.3	183.33	3050	5370	2445	11000	DN200	11	132	92.8
JDB225.0	225.00	3100	5670	2643	14500	DN200	15	164	113.8
JDB250.0	250.00	3535	5770	2765	15950	DN250	16	200	156
JDB300.0	300.00	3606	6059	2903	17545	DN250	20	244	191
JDB333.3	333.33	3678	6362	3048	19300	DN300	22	273	213
JDB383.3	383.33	3715	6680	3200	21230	DN300	25	310	243
JDB450.0	450.00	3752	7014	3360	23353	DN300	29	356	278
JDB533.3	533.33	3790	7365	3528	25688	DN350	35	432	338
JDB616.6	616.67	3411	7733	3704	28257	DN350	40	496	388
JDB766.6	766.67	3752	8120	3889	31083	DN400	49	611	478