

PSD Refrigerated Air Dryer

Top-Quality / Eco-Friendly



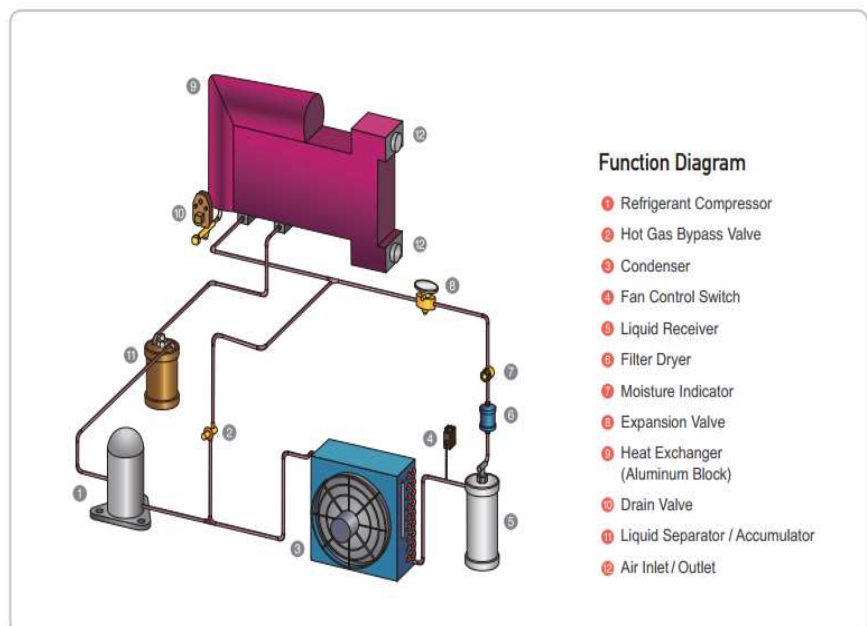
Dryer Operation

PSD dryers use a two-stage heat exchanger system to maintain consistent dew points. Freeze ups are prevented and optimum performance is maintained by integrating the highest quality components and refrigeration controls into our system. The system reduces the temperature of the compressed air to 2°C turning it into liquid condensate.

The condensed water and cold air then flow into the moisture separator, where the liquids are collected and removed by the condensate drain, the drain ensures maximum moisture removal.

Once the liquids has been removed, the cold dry compressed air returns through the cold side of the first stage heat exchanger where it is reheated by the warm incoming air, thus elevating the discharge air temperature which prevents pipe sweating.

The compressed air is now treated and ready for use downstream.



Technical Specifications

Model	Capacity		BSP inch	Max. Pre. bar	Power Supply V/Ph/Hz	Dimension L x W x H mm	Weight kg
	Nm ³ /mi n	scfm					
PSD-5N	0.57	20	½"	16	240/1/50	360 x 470 x 715	35
PSD-7N	1	35	½"	16	240/1/50	360 x 470 x 715	35
PSD-10N	1.25	44	½"	16	240/1/50	360 x 470 x 715	36
PSD-15N	1.84	65	1"	16	240/1/50	430 x 510 x 710	42
PSD-20N	2.6	92	1"	16	240/1/50	430 x 510 x 710	42
PSD-30N	4.25	150	1"	16	240/1/50	360 x 660 x 865	66
PSD-50N	7.36	260	1½"	16	240/1/50	410 x 710 x 955	89
PSD-75N	10.76	380	2"	16	240/1/50	460 x 800 x 1045	120
PSD-100N	14.27	501	2"	16	415/3/50	460 x 860 x 1145	126
PSD-150N	21.02	742	2 ½"	16	415/3/50	565 x 1005 x 1330	172
PSD-170N	24.02	848	FLG 2½"	16	415/3/50	680 x 1200 x 1350	230
PSD-200N	30	1059	FLG3"	16	415/3/50	680 x 1200 x 1350	240
PSD-250N	39.01	1377	FLG3"	16	415/3/50	770 x 1350 x 1370	260
PSD-300N	47.03	1660	FLG4"	16	415/3/50	770 x 1350 x 1370	270
PSD-400N	56.04	1978	FLG4"	16	415/3/50	1200 x 1500 x 1700	600
PSD-500N	66.04	2331	FLG6"	16	415/3/50	1200 x 1900 x 1700	940
PSD-600N	85.05	3002	FLG6"	16	415/3/50	1200 x 1900 x 1700	1100

Conversion Factors

Ambient temp.	°C	25	30	32	35	40	50						
Factor		1.00	0.95	0.90	0.87	0.82	0.70						
Inlet temp.	°C	30	35	40	45	50	55	60	65				
Factor		1.22	1.00	0.83	0.69	0.58	0.49	0.46	0.43				
Operating press.	bar	5	6	7	8	9	10	11	12	13	14	15	16
Factor		0.89	0.94	1.00	1.04	1.06	1.09	1.10	1.12	1.14	1.15	1.16	1.18
Dew Point	°C	2	3	5	7	10							
Factor		1.00	1.08	1.20	1.22	1.26							

