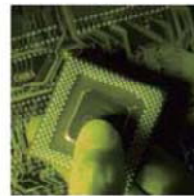
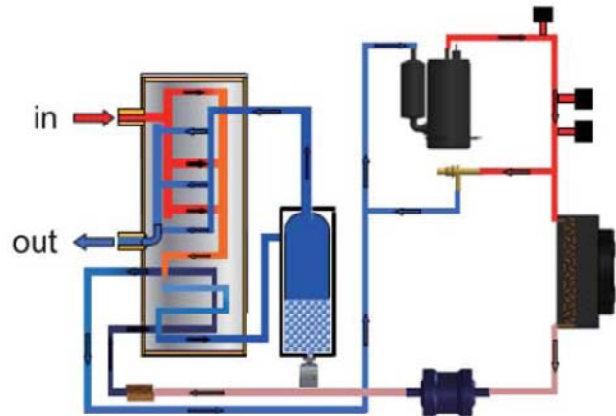




PD Series Refrigeration Compressed Air Dryer



Technical Design

- With high quality refrigeration compressor, performance can be maintained
- Pre-cooler, evaporator and water separator of PD series refrigeration dryers are all following all-in-one modular structure design. The aluminum alloy materials are specially treated to be highly corrosion-resistant and it protects finished gas from second contamination.
- Nanometer anticorrosive coating on the surface of air condenser makes surface dust cleaning easier and extends its service life.

All series dryers have passed latest CE safety certification with multiple overload protection devices configured.



- Heat exchanger introduces European and American advanced plate-fin structure. High efficiency heat of exchange enables the temperature difference between inlet and outlet of the pre-cooler to maintain in the range of 8 ~ 10°C, which not only ensures the low outlet relative humidity, but also avoids condensation at the outlet.
- The pre-cooler recycles almost 90% of the cooling energy, as a result, the evaporator load is effectively reduced and the energy consumption of refrigerant air dryer is greatly reduced.
- High efficiency external WS (water separator) ensures excellent PDP. The design, with the parts of the dryer being tested separately, greatly eliminates the leakage risk. Main refrigeration parts are introduced from internationally renowned brands enjoying reliable performance.



PD Series Refrigeration Compressed Air Dryer

Technical Specifications

Model	Nominal Volume Flow	Electrical Supply	Nominal Power	Air Connections	Drain Connections	Dimensions in mm			Approx Weight	Matched Filter	Filter Connections
APS-PD	(m ³ /min)	V/Ph/Hz	kW	inch	mm	L	W	H	kg	Model	inch
APS-06-PD	0.6	220/1/50	0.23	Rc 1/2"	ø 6	500	250	500	25	RSG-*-0017G	Rc 1/2"
APS-09-PD	0.9	220/1/50	0.26	Rc 1/2"	ø 6	500	250	500	25	RSG-*-0017G	Rc 1/2"
APS-12-PD	1.2	220/1/50	0.4	Rc 1/2"	ø 6	600	310	500	30	RSG-*-0017G	Rc 1/2"
APS-15-PD	1.5	220/1/50	0.45	Rc 1/2"	ø 6	600	310	500	30	RSG-*-0017G	Rc 1/2"
APS-18-PD	1.8	220/1/50	0.46	Rc 1/2"	ø 6	600	310	500	30	RSG-*-0017G	Rc 1/2"
APS-24-PD	2.4	220/1/50	0.47	Rc 3/4"	ø 6	750	360	550	50	RSG-*-0058G	Rc 3/4"
APS-30-PD	3	220/1/50	0.49	Rc 3/4"	ø 6	750	360	550	50	RSG-*-0058G	Rc 3/4"
APS-36-PD	3.6	220/1/50	0.62	Rc 3/4"	ø 6	750	360	550	55	RSG-*-0058G	Rc 3/4"
APS-40-PD	4	220/1/50	0.65	Rc 3/4"	ø 6	750	360	550	55	RSG-*-0058G	Rc 3/4"
APS-60-PD	6.5	220/1/50	1.40	Rc 1-1/2"	ø 10	750	550	880	78	RSG-*-0145G	G1-1/2"
APS-80-PD	8.8	220/1/50	1.40	Rc 1-1/2"	ø 10	750	550	880	80	RSG-*-0145G	G1-1/2"
APS-100-PD	11.0	220/1/50	1.85	Rc 1-1/2"	ø 10	750	550	880	85	RSG-*-0205G	G1-1/2"
APS-120-PD	13.0	220/1/50	2.30	Rc 2"	ø 10	1000	670	1030	130	RSG-*-0220G	G2
APS-150-PD	17.0	380/3/50	3.03	Rc 2"	ø 10	1000	670	1030	140	RSG-*-0330G	G2
APS-200-PD	22.0	380/3/50	3.10	Rc 2"	ø 10	1000	670	1030	150	RSG-*-0330G	G2
APS-250-PD	27.0	380/3/50	3.63	Rc 2-1/2"	ø 10	1000	820	1600	250	RSG-*-0430G	G3
APS-300-PD	33.0	380/3/50	4.40	Rc 2-1/2"	ø 10	1000	820	1600	260	RSG-*-0620G	G3
APS-350-PD	37.0	380/3/50	5.10	Rc 2-1/2"	ø 10	1000	820	1600	270	RSG-*-0620G	G3
APS-400-PD	45.0	380/3/50	6.13	FLG 4"	ø 10	1150	1120	1750	500	RSG-*-1000G	FLG 4"
APS-500-PD	55.0	380/3/50	6.90	FLG 4"	ø 10	1150	1120	1750	510	RSG-*-1000G	FLG 4"
APS-600-PD	65.0	380/3/50	8.34	FLG 4"	ø 10	1150	1120	1750	550	RSG-*-1000F	FLG 4"
APS-700-PD	73.0	380/3/50	9.81	FLG 5"	ø 10	1150	1120	1750	580	RSG-*-1300F	FLG 5"
APS-800-PD	80.0	380/3/50	11.90	FLG 6"	ø 10	1850	1200	2350	800	RSG-*-1950F	FLG 6"
APS-900-PD	90.0	380/3/50	13.10	FLG 6"	ø 10	1850	1200	2350	810	RSG-*-1950F	FLG 6"
APS-1000-PD	100.0	380/3/50	16.70	FLG 6"	ø 10	1850	1200	2350	850	RSG-*-1950F	FLG 6"
APS-1200-PD	120.0	380/3/50	21.00	FLG 6"	ø 10	1850	1200	2350	870	RSG-*-1950F	FLG 6"
APS-1500-PD	150.0	380/3/50	33.00	FLG 8"	ø 10	2200	1300	2350	1200	RSG-*-2500F	FLG 8"
APS-1800-PD	180.0	380/3/50	39.10	FLG 8"	ø 10	2200	1300	2350	1250	RSG-*-3250F	FLG 8"

Rated conditions

Working pressure 7 bar g (100psig)
Inlet temp : 38°C (100°F)
Ambient temp : 38°C (100°F)
Cooling Air temperature 50°C (122°F)

Working range

Max.working pressure 15 bar g (221psig)
Max.Inlet Temperature : 60 °C (140°F)
Max.AmbientTemperature : 50 °C (122°F)
Min.AmbientTemperature : 5 °C (41°F)
Max.Cooling Air Temperature : 60 °C (140°F)

Available Options

For pressure > 15 bar g (221psig) , please contact us
water cooling :
12-180 m³/min (425-6400cfm) available
Different power supply available

Correction Factors

Actual capacity(m³/min) = selection capacity x PA x TA x AC (or WC)

Working Pressure (PA)	bar g	5	6	7	8	9	10	
	CFP	0.92	0.93	1.00	1.04	1.08	1.11	
	bar g	11	12	12	14	15		
	CFP	1.15	1.18	1.22	1.25	1.28		
Inlet Temperature (TA)	°C	35	38	40	46	49	54	60
	CFT	1.11	1.00	0.92	0.76	0.69	0.56	0.46
Ambient Temperature (AC)	°C	25	30	35	38	40	45	50
	CFT	1.15	1.10	1.02	1.00	0.88	0.70	0.60