



Outstanding
Efficiency



Environment
Friendly



Quiet



AIR DRYER



Where there is sunshine, there are **PUWA** products.



ISO-9001 / 13485 CE UL   FDA REACH

REFRIGERATED AIR DRYER

DR and DRH series

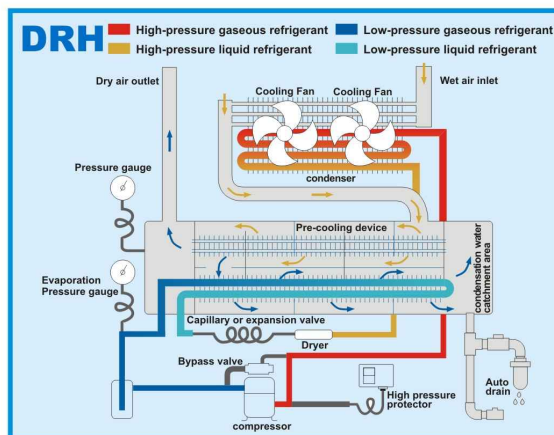
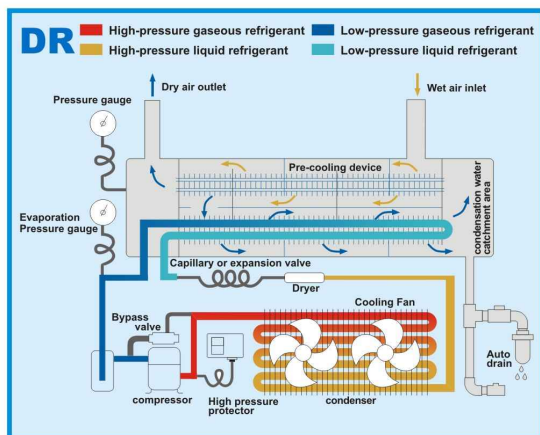
- New series DR refrigerated air dryers are suitable for maximum inlet temperature of 45°C that produce dry air with dew point 2°C at 7 kg/cm².
- New series DR refrigerated air dryers have high efficiency and low pressure loss.
- New series DRH refrigerated air dryers are suitable for maximum inlet temperature of 80°C. With the extra pre-cooler and strong cooling fan that cool down the high inlet air through the heat-exchanger to normal inlet temperature, it produces perfect dry air with dew point 2°C at 7 kg/cm².

DR Series High efficiency and Low pressure loss

Model NO.		DR5	DR10	DR15	DR20	DR30	DR40	DR75	DR100	DR150	DR200	DR250	DR300	DR400
AIR	NM ³ /min	0.6	1.3	1.8	2.8	4.2	7	10.6	14.5	21	26	31	38	49
	SCFM	21	46	64	99	148	247	375	512	742	918	1095	1342	1730
Air compressor (HP)		1~5	7.5~10	15	20	30	30~50	50~60	75	100	150	200	250	300
Inlet temperature		≤45℃												
Ambient temperature		≤38℃												
Dew point		2-10℃(7Kg/cm ²)												
Working pressure		7Kg/cm ² Max.10Kg/cm ²												
Refrigerant		R134a					R407c		R-22					
Refrigerate compressor (KW)		0.2	0.4	0.5	0.5	0.7	1.4	1.5	2.0	3.1	4.5	5.1	5.9	5.9
Power		220V single phase						220/ 380/ 440V 3phase						
Connector pipe size		1/2"	3/4"		1"	1-1/2"	2"	2-1/2"	3"	3"F	4"F	4"F	4"F	5"F
Dimensions (mm)	H	390	600	600	650	755	780	1000	1000	1150	1200	1200	1400	1500
	W	350	350	350	350	400	500	700	700	700	700	700	1700	2400
	D	400	635	635	765	915	935	1165	1265	1465	1665	1665	900	950
Weight (kg)		22	31	32	50	74	116	214	239	319	370	390	480	590

DRH Series High temperature air inlet application

Model NO.		DRH5	DRH10	DRH15	DRH20	DRH30	DRH40	DRH75	DRH100	DRH150	DRH200	DRH250	DRH300	DRH400
AIR	NM ³ /min	0.6	1.3	1.8	2.8	4.2	7	10.6	14.5	21	26	31	38	49
	SCFM	21	46	64	99	148	247	375	512	742	918	1095	1342	1730
Air compressor (HP)		1~5	7.5~10	15	20	30	30~50	40~60	75	100	150	200	250	300
Inlet temperature		≤80℃												
Ambient temperature		≤38℃												
Dew point		2-10℃ (7Kg/cm ²)												
Working pressure		7Kg/cm ² Max.10Kg/cm ²												
Refrigerant		R134a					R407c	R-22						
Refrigerate compressor (KW)		0.2	0.4	0.5	0.5	0.7	1.4	1.5	2.0	3.1	4.5	5.1	5.9	5.9
Power		220V single phase						220/ 380/ 440V 3phase						
Connector pipe size		1/2"	3/4"		1"	1-1/2"	2"	2-1/2"	3"	3"F	4"F	4"F	4"F	5"F
Dimensions (mm)	H	450	600	600	755	755	780	1190	1200	1300	1400	1400	1600	1600
	W	470	350	350	400	400	500	700	700	700	700	700	1700	2400
	D	500	635	635	815	915	935	1165	1265	1465	1665	1665	900	950
Weight (kg)		31	32	33	58	80	118	238	259	378	446	451	570	890



THERMOELECTRIC AIR DRYER

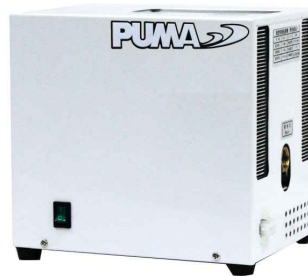


FEATURES :

- Compact design, less weight, simple installation and easy operation.
- Durable, quiet, maintenance free. No refrigerant required.
- Using thermoelectric cooling technology, suitable for airflow up to 1000L/min air treatment.
- Suitable for most air tools application.



DR1



DR2



DR3

Model NO.	DR1	DR2	DR3
Air flow	150ℓ/min(5SCFM)	280ℓ/min(10SCFM)	420ℓ/min(15SCFM)
Power (W)	200	290	400
Voltage	220 / 110V		
Working pressure	0.8 MPa (8kg/cm ²)		
Dew point	<10 °C		
Inlet temperature	<35 °C		
Ambient temperature	<30 °C		
Dimension(mm)	300x230x160	300x230x160	350x230x170

AIR CONTROL UNITS



- 產品尺寸: 3/8", 1/2", 3/4", 1"

HIGH EFFICIENCY FILTER

Dust Elimination / Deodorant / De-Hydro

- **GRADE TLQ**
5 Micron
Fiberglass
- **GRADE TLP**
1 Micron
0.5 mg/m³
Borosilicate fiber
- **GRADE TLH**
0.01 Micron
0.01 mg/m³
Borosilicate fiber
- **GRADE TLC**
0.003 mg/m³
Activated Carbon
- **GRADE TLX**
0.001 mg/m³
Activated Carbon



Filter Model	Pipe size NPT	Flow rates		Dimensions(mm)				WEIGHT (kg)
		NM ³ /min	SCFM	A	B	C	D	
009	1/2"	0.9	32	91	25	265	18	1.4
019	3/4"	1.9	67	91	25	265	18	1.4
033	1"	3.3	116	115	30	415	31	2.8
040	1 1/2"	4.0	145	115	30	415	31	2.8
060	1 1/2"	6.0	212	115	30	415	31	2.8
070	2"	7.0	250	160	40	585	35	6.4
100	2"	10	353	160	40	585	35	6.6
140	2"	14	494	160	40	585	35	6.8
200	2 1/2"	20	706	180	50	730	42	11.0
280	2 1/2"	28	988	180	50	945	55	13.4
350	3"	35	1235	220	60	760	42	17.4

FLOW CHART

Flow Conversion Chart

LPM l/min	CMH m ³ /hr	CFM ft ³ /min	GPM(U.K.) Gal/min	GPM(U.S.A.) Gal/min
1	0.06	0.03532	0.220	0.2642
16.667	1	0.5887	3.667	4.404
28.3153	1.699	1	6.229	7.481
4.5455	0.2727	0.1605	1	1.2011
3.785	0.2271	0.1337	0.8325	1

Conversion Factors

1. 扭 力 TORQUE	1 ft-lb = 1.356 nm = 0.138kg-m 1 nm = 0.738 ft-lb = 0.102 kg-m
2. 長 度 LENGTH	1 m = 39.371 in = 3.281 ft 1 ft = 12 in = 0.305 m 1 in = 25.4 mm
3. 重 量 WEIGHT	1 lb = 0.454 kg = 16 oz 1 kg = 2.205 lb = 35.274 oz 1 oz = 28.35 g = 0.063 lb
4. 功 率 POWER	1 kw = 1.341 hp 1 hp = 0.746kw 1CV = 1 PS = 0.735 kw
5. 濃 度 CONCENTRATION	1 mg/m ³ = 0.001 mg/L = 0.001 ppm 1 ppm = 1000 mg/m ³ = 1 mg/L

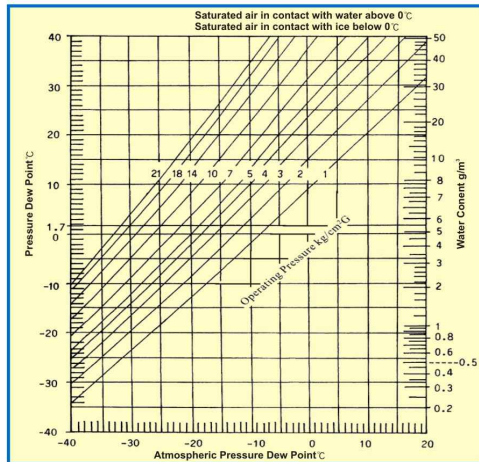
Vacuum Conversion Chart

mbar	Pa (N/m ²)	Torr (mmHg)	mmAq (H ₂ O)	atm
1	100	0.75	10.2	9.87x10 ⁻⁴
0.01	1	7.5x10 ⁻³	0.102	9.87x10 ⁻⁶
1.33	133	1	13.6	1.32x10 ⁻³
9.81x10 ⁻²	9.81	7.36x10 ⁻²	1	9.68x10 ⁻⁵
1013	101325	760	10332	1

Pressure Conversion Chart

Bar	KPa	Kg/cm ²	MPa	Psi
1	100	1.02	0.1	14.5
0.981	98.1	1	0.098	14.22
10	1000	10.197	1	145.036

Pressure-dew Point Conversion Table



PUMA PRODUCTS UTILITY & FLOW CHART

