



Refrigerated Type Compressed Air Dryer 20 - 1500 CFM



- Analog Type Dew Point Meter
- Anti Freezer
- Anti Recycle Controller
- Advanced 3 in 1 integral heat exchanger
- Large Condenser for high ambient temperatures

Source for Moisture free Compressed Air

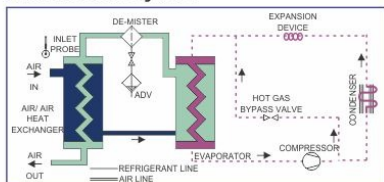
Principle of Operation

Warm compressed air enters the Air / Air Heat Exchanger where it is pre-cooled By Outgoing cold air, Pre-cooling makes it possible to use a smaller (More Economical) refrigeration Unit, The pre-cooled air enters the Air to Freon Heat Exchanger where it is cooled down to +3 °C, At this temperature, water condenses by a very efficient De-mister, and automatically discharged by a Automatic Drain Valve, The Cold dry compressed air passes back

through the secondary side of the Air to Air Heat Exchanger where it is reheated by the incoming warm air.

Reheating the outgoing compressed air increases the volume of the air enabling it to do more work and it also prevents downstream pipe sweating. Heat Exchanger has no extended surfaces or sharp corners that collect dust, dirt or oil residue, Any dust, dirt and will be washed from the air system along with the condensed moisture at the De-mister.

Schematic Layout



Superior Design



Eco Friendly Gas



Optional Level sensing
Condensate drain
for No Air loss



Hot Gas Bypass Valve
Prevents evaporator
Freezing



Simple and reliable
Capillary Expander

Technical Specifications

Model	Capacity (scfm)	Inlet Press Kg/cm ²	Max Working Press Kg/cm ²	Inlet Temp. °C	Voltage Supply	Power Cons (kW)	Ref. Gas	Noise Level (dBA)	Weight (Kg) Approx	End Connection
CI-20-D	20	6	15	46	230/50/1	0.32	R134a	69	41	3/4" BSP F
CI-40-D	40	6	15	46	230/50/1	0.34	R134a	69	58	1" BSP F
CI-50-D	50	6	15	46	230/50/1	0.34	R134a	69	59	1" BSP F
CI-60-D	60	6	15	46	230/50/1	0.34	R134a	69	59	1" BSP F
CI-80-D	80	6	15	46	230/50/1	0.85	R134a/22a	69	72	1" BSP F
CI-100-D	100	6	15	46	230/50/1	0.85	R134a/22a	69	72	1" BSP F
CI-150-D	150	6	15	46	230/50/1	1.02	R134a/22a	69	110	1.5" BSP F
CI-200-D	200	6	15	46	230/50/1	1.75	R404a/22a	69	110	2" NB
CI-250-D	250	6	15	46	230/50/1	1.75	R404a/22a	69	110	1.5" BSP F
CI-300-D	300	6	15	46	230/50/1	2.3	R404a/22a	69	210	2"NB
CI-400-D	400	6	15	46	415/50/3	2.3	R404a/22a	69	250	2"NB
CI-500-D	500	6	15	46	415/50/3	2.3	R404a/22a	69	280	2"NB
CI-650-D	650	6	15	46	415/50/3	3.34	R404a/22a	69	350	2"NB
CI-800-D	800	6	15	46	415/50/3	4.8	R404a/22a	69	600	3"NB
CI-1000-D	1000	6	15	46	415/50/3	4.8	R404a/22a	69	620	3"NB
CI-1250-D	1250	6	15	46	415/50/3	5.63	R404a/22a	69	650	4"NB
CI-1500-D	1500	6	15	45	415/50/3	7.45	R404a/22a	69	920	4"NB

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Dryer Sizing - Illustration

Requirement	Inlet flow	100 cfm
	Working pressure	5 Kg/cm ²
	Inlet temperature	45 °C
	Ambient temperature	38 °C
Referring Tables	Factor Pi	0.84
	Factor Ti	1
	Factor Ta	1
Dryer Capacity Required	Flow	100
	Pi x Ti x Ta	0.84 x 1 x 1
		119cfm

Correction Factor

Inlet Air Temperature °C	30	38	45	50
Correction Factor (Ti)	1.14	1.08	1	0.75
Inlet Pressure Kg/cm ²	5	7	9	12
Factor (Pi)	0.84	1	1.11	1.21
Ambient Temperature °C	25	30	38	43
Factor (Ta)	1.36	1.18	1	0.86