

DESIGN | ENGINEERING | MANUFACTURING

REFRIGERATION COMPRESSED **AIR DRYER**

Presenting new range of refrigerated compressed air dryers with 3-in-1 heat exchanger that provide combination of technology and performance



LOCALLY BASED COMPETENCE FOR ALL YOUR AIR TREATMENT.

USER BENEFITS

Reliability

- Concept brand
- Countrywide reputation over 20 years
- Reliable components
- Quiet and trouble free operation
- Class 'F' insulation axial fan

Safety

- Fuse protection
- Fault shutdown and alarm function
- Compressor protections

Simplicity

- Front control design
- Digital controller/PLC
- Offers a simple plug-and-play solution
- Easy installation
- No special foundation needed

Easy Serviceability

- Easy access from front side
- Fault indication on electronic controller
- Service and cleaning is one person job

CONCEPT AIR DRYERS PROTECT YOUR SYSTEM AND PROCESSES
IN A RELIABLE, ENERGY EFFICIENT AND COST EFFECTIVE WAY.

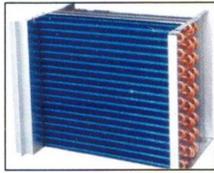
DESIGN PARAMETERS

- Ambient Temperature 48 °C
- Air Inlet Temperature 50 °C
- Working Pressure 7Kg/cm²
- PDP + 3 °C

(for PDP at other parameters, please refer correction factor table below).



Inlet Air Temp. Deg. C	40	45	50	55
Factor C 1	1.14	1.05	1	0.8
Ambient Temp. Deg. C	25	30	35	40
Factor C2	1.2	1.1	1.02	1.01
Working Pressure Kg/CM ²	4	5	6	7
Factor C3	0.8	0.85	0.9	1.0



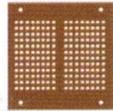
CONDENSER

- Air cooled (10-1500 cfm) / water cooled above 1500 cfm or as per customer requirement.
- Inner grooved copper tubes with blue aluminum fins.
- Blue fins prevent corrosion & dust accumulation and inner grooved copper tubes increase surface area means more heat transfer.
- Housing with powder coating.

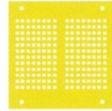
CANOPY



GP Sheet



Anti Corrosion Powder Coat



Color Powder Coat



FINAL

- Fabricated with GP sheet which has superior paint adhesion, no spring back effect, absolute flatness, enhanced corrosion resistant.
- 1st layer of anti corrosive powder coat.
- 2nd layer of powder coating thickness more than 60 microns.
- Suitable for high humidity environment.

FRONT CONTROL PANEL

- MCB, Conductor, Relay, SPP, Fuses are accessible from front panel
- Spares fuses are provided for easy and quick replacement
- MCB, Contactor, Relay, and Fuse protection for compressor
- Fuse protection for drain valve, controller and fan
- Dryer operation is visible at a glance at the control panel

Eco-Friendly Refrigerant

R-134a / R-404a / R-407c refrigerant does not deplete the ozone layer

INDICATIONS

- PDP • Suction pressure • Discharge pressure (100 cfm & Above)
- Fuse protection, Over Load and Short Circuit
- Single phase/ protection or phase failure (3 Phase supply)

CONTROLS

- Suction pressure • Discharge pressure (100 cfm & Above)
- Ref gas temperature

Increased Reliability with forced Discharge Drain and Manual Drain

- Drainage is forced out by air pressure in the dryer, so the drain does not plug easily. Large orifice further increase reliability. The direct acting and pilot operated valve greatly improves reliability over the float valve high discharge valve above 250 CFM and level sensing zero air loss for 300 CFM and above. (Optional)
- Manual drain is provided to discharge condensate if auto drain fails.

DIMENSIONS AND OTHER DETAILS

S. No.	Nominal Flow		Electric Supply V/Ph/Hz	Nominal Power KW	Air Connection	Dimensions (in mm)		
	CFM	M3/HR				L	W	H
1.	20	35	230/1/50	0.275	½ Inch	550	450	450
2.	40	69	230/1/50	0.275	½ Inch	550	500	500
3.	50	69	230/1/50	0.275	½ Inch	700	500	650
4.	60	104	230/1/50	0.530	¾ Inch	700	500	650
5.	80	138	230/1/50	0.730	¾ Inch	700	600	650
6.	100	173	230/1/50	0.765	1 Inch	800	650	700
7.	150	260	230/1/50	1.16	1-½ Inch	850	650	700
8.	200	346	230/1/50	1.16	1-½ Inch	900	700	800
9.	250	433	415/3/50	2.46	2 Inch	900	700	850
10.	300	519	415/3/50	2.46	2 Inch	900	800	850
11.	350	606	415/3/50	2.46	2 Inch	1000	800	900
12.	400	692	415/3/50	2.87	2 Inch	1000	900	900
13.	450	779	415/3/50	2.87	2 Inch	1000	1000	1100
14.	500	865	415/3/50	3.54	3 Inch	1050	1000	1100
15.	650	1124	415/3/50	4.97	3 Inch	1050	1000	1100
16.	800	1384	415/3/50	4.97	3 Inch	1500	1000	1100
17.	1000	1730	415/3/50	5.66	4 Inch (F)	1800	1000	1100
18.	1250	2163	415/3/50	6.56	4 Inch (F)	2000	1200	1100

Note

- Higher CFM capacity are also available.
- Dimensions may vary according to design.

Quality

- Hydrostatic testing is performed at air side.
- Refrigeration system is cleaned, purged and evacuated before being charged with refrigerant.
- Dryers are tested before shipment.



Add.: The Technology Center, Ho.: B-8, 1st Floor, Sector-64, Noida-201301 (U.P.)

E-Mail: biz@ttcindia.co.in | Website: www.ttcindia.co.in

Mob.: +91-9910265907, 9911108941



Add.: The Technology Center, Ho.: B-8, 1st Floor, Sector-64, Noida-201301 (U.P.)

E-Mail: biz@ttcindia.co.in | Website: www.ttcindia.co.in

Mob.: +91-9910265907, 9911108941



Add.: The Technology Center, Ho.: B-8, 1st Floor, Sector-64, Noida-201301 (U.P.)

E-Mail: biz@ttcindia.co.in | Website: www.ttcindia.co.in

Mob.: +91-9910265907, 9911108941