



RAPID™

AIR SOLUTION



REFRIGERATED AIR DRYER

An ISO 9001-2015 Certified Company



www.rapidairsolution.com

ABOUT COMPANY

We, Rapid Air Solution are an ISO 9001:2015 Certified Company. We, Rapid Air Solution are a newly formed company, started our journey from Ahmedabad, Gujarat (India) with an aim to succeed in this domain by earning the support of the customers from every region of the country.

Our Employees work sincerely with an aim to make a huge name for our brand in the market by providing our clients with exceptional sales and after sales services. In order to store our stock in an safe and organized manner we have maintained a spacious warehousing unit.

VISION

We Envision Provide Quality Products For Every Application And Providing Efficient And Round The Clock Services To The Satisfaction Of Our Customers At The Economically Affordable Price.

MISSION

We Aim To Satisfy Our Customers To The Maximum Extent Because Customer Satisfaction Is The Key To Our Growth. Their Feedback Invariably Serves As The Most Potential Support For Continuous Improvement In Our People, Products And Process.

◀ REFRIGERATED AIR DRYER ▶

FEATURES:-

- Copper **"TUBE & TUBE and SHELL & TUBE "** Non Corrosive Heat Exchanger, Designed To Have Lower Pressure Drop And Higher Efficiency contains In Built Centrifugal Moisture Separator Having Dead zone To Avoid Carry Over Of Condensate.
- **PUF** Insulation For Heat Exchanger Assembly.
- Electronic (Digital) Timer Operated Auto Drain Valve.
- Universally Available Refrigeration Components Like Condenser, Compressor, Fan Motor, Filter, Expansion Valve Etc.
- Non Cyclic Refrigeration Systems, With Help Of Hot Gas By Pass Solenoid Valve, For Varying Load Condition And Seasonal Adjustments.
- Our All Model Of Dryers Are Filled With **"OZONE FRIENDLY"** R134a, R22 , R410A & R407C Refrigerant.



❖ Correction Factor of Air Dryer

SIZING OF REFRIGERATION AIR DRYERS

Boundary Conditions

Operating Parameters	ideal	Minimum	Maximum
Inlet Air Temperature, °C	45	10	60
Ambient Temperature, °C	40	-5	50
Inlet Air Pressure, bar g	7	2	16
Pressure Dew Point, °C	3	3	10

Correction Factor for Conditions differing from the ideal one...

Inlet Air Temperature, L1

Inlet Air Temperature, °C	30	35	40	45	50	55	60
Correction Factor L1	1.61	1.38	1.22	1.00	0.76	0.60	0.49

Ambient Temperature, L2

Inlet Air Temperature, °C	25	30	35	40	45	50	55
Correction Factor L2	1.21	1.14	1.07	1.00	0.93	0.85	0.74

Inlet Air Pressure, L3

Inlet Air Pressure, bar g	3	4	5	6	7	8	9	10	12	14	16
Correction Factor L3	0.54	0.66	0.76	0.87	1	1.02	1.17	1.26	1.38	1.51	1.65

Pressure Dew Point, L4

Pressure Dew Point, °C	3	5	7	10
Conversion Factor °C	1.00	1.14	1.24	1.39

For Example

Compressor Capacity, cfm	300	1000
Inlet Air Temperature, °C	50	40
Ambient Temperature, °C	45	30
Inlet Air Pressure, bar g	7	10
Pressure Dew Point, °C	3	3
Multiplication of CF	0.8x0.93x 1x1=0.74	1.21x1.14x 1.25x1=1.724
Dryer nominal Capacity, cfm	403	580
Model to be chosen	RAS 040 AD	RAS 060 AD

TECHNICAL SPECIFICATION

Sr. No.	Model	Nominal Capacity		Electrical Connection		Rated Power
		cfm	m ³ /h	1-ph	3-ph	kW
1	RAS-002	20	34	✓		0.15
2	RAS-004	40	68	✓		0.20
3	RAS-006	60	102	✓		0.40
4	RAS-008	80	136	✓		0.50
5	RAS-010	100	170	✓		0.60
6	RAS-015	150	255	✓		0.90
7	RAS-020	200	340	✓	✓	1.20
8	RAS-025	250	425	✓	✓	1.40
9	RAS-030	300	510	✓	✓	1.60
10	RAS-040	400	680		✓	1.90
11	RAS-050	500	850		✓	2.30
12	RAS-060	600	1020		✓	2.80
13	RAS-070	700	1189		✓	3.70
14	RAS-080	800	1360		✓	4.20
15	RAS-100	1000	1699		✓	5.00
16	RAS-120	1200	2039		✓	5.45
17	RAS-150	1500	2550		✓	6.80



:: INDUSTRIES WE SERVES ::

- CERAMIC INDUSTRY
- OFFSET PRINTING
- TEXTILE PRINTING
- VMC / CNC MACHINES SHOP
- ELECTRONICS INDUSTRY
- PHARMACEUTICAL INDUSTRY
- FOUNDRY
- WOODEN FACTORY
- PNEUMATIC OPERATED MACHINERY
- CEMENT PLANTS
- AUTOMOBILE INDUSTRY
- HEALTHCARE/ HOSPITAL
- PAPER MILLS
- RICE MILL
- PET BOTTLE INDUSTRY
- SAND BLASTING
- SUGAR MILLS
- GLASS INDUSTRY
- CHEMICAL INDUSTRY
- FOOD AND BEVERAGE PLANT
- TOOL ROOM & MORE....



OFFICE : 50, Yamuna Ind. Estate, Nr. Amco Bank, Phase-1, GIDC Vatva, Ahmedabad-382445. Gujarat.

Contact : +91- 9879010349, +91- 9033967199

E-mail : rapidairsolution@gmail.com, info@rapidairsolution.com

Web : www.rapidairsolution.com