



**ISO 9001 : 2008 Company**

# **AB Techno Pvt. Ltd. AB Engineering Services**

**Compressed Refrigerated Air Drying system**





## Industrial Refrigeration Dryers

### AB Refrigeration Dryers

AB Refrigeration Dryers , manufactured with highest degree of quality control and workmanship is being used by almost all the Industries.

### WHY TREAT AIR

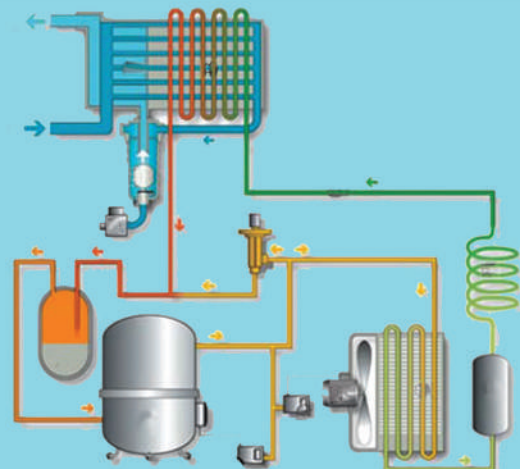
The atmospheric Air contains lot of moisture vapor at high temperatures. The concentration of this moisture/ water increases with compression of air in the compressor. This moisture carried with compressed air to different applications like **Instrumentation, Pneumatic tools, operation of Pneumatic cylinders and valves, Painting, Packaging, Printing, CNC Machine operation, Sorters and many more** damages the parts/ components resulting in increased down time, extensive damage to the air net work as also finished good.

### PRINCIPLE OF OPERATION :

The hot wet air enters AB Dryer, where it immediately passes through the air-to-air exchanger, which cools the incoming air by means of the exiting air.

The now pre-cooled air then enters the evaporator where it is further cooled down by the cold refrigerant to achieve the target dew point temperature. The condensate in the air, which by this time become a liquid, is efficiently separated by the demister and removed by the condensate drain.

The cold dry air passes back through the return side of the air-to-air exchanger where it is heated up by the incoming air. This process not only saves energy by pre-cooling the inlet air, but also prevents pipe sweating downstream.



## TECHNICAL DETAILS

SI no	Model	Capacity (cfm)	Working Pressure	In/Out	Width x Depth x Height	Weight	Gas
01	ABR-10	10	16 bar	½"	350 x 390 x 450	30 kGS	R134a
02	ABR-25	25	16 bar	5/8"	350 x 390 x 450	40 kgs	R134a
03	ABR-30	30	16 bar	5/8"	450 x 525 x 750	45 kgs	R134a
04	ABR-40	40	16 bar	5/8"	450 x 525 x 750	55 kgs	R134a
05	ABR-50	50	16 bar	5/8"	450 x 525 x 750	65 kgs	R134a
06	ABR-60	60	16 bar	11/8"	450 x 525 x 750	80 kgs	R134a
07	ABR-80	80	16 bar	11/8"	550 x 525 x 750	90 kgs	R134a
08	ABR-100	100	16 bar	11/8"	550 x 525 x 750	125 kgs	R134a
09	ABR-200	200	16 bar	13/8"	700 x 650 x 900	145 kgs	R134a
10	ABR-300	300	16 bar	21/2"	925 x 850 x 1100	165 kgs	R134a
11	ABR-400	400	16 bar	21/2"	925 x 900 x 1200	210 kgs	R134a
12	ABR-600	600	16 bar	21/2"	1100 x 1100 x 1300	265 kgs	R22
13	ABR-800	800	16 bar	21/2"	1300 x 1300 x 1500	350 kgs	R22

*For models beyond 800 cfm dimensions are provided with offer. These Dryers are available at both higher flow and Pressure ranges.*

## MAIN FEATURES OF AB DRYERS AND CUSTOMER BENEFITS:

SI no	Features	Customer Benefits
01	Minimum pressure drop	Steady process Air
02	Constant Dew point from partial load to rated load	Consistency in drying
03	Pre cooler / Re heater for energy and efficiency	Reduce load on compressor hence less power consumption.
04	electronic drain valve for automatic discharge of collected Condensate at regular intervals	No water carry over with dry air
05	Moisture separation through Centrifugal-cum-Demister separator	Almost 100% dry air
06	Simple to operate, simple and safe in design, easy to maintain	Operator friendly and low down time
07	Low power consumption	Low electricity bills
08	Low noise level & maintenance costs	Operator friendly
09	Environment friendly refrigerant	Eco friendly
10	foam insulation is provided for the evaporator and moisture separator for higher efficiency.	Minimum heat loss and hence low load on compressor and less power drawn.
11	Fan Control switch to maintain constant refrigerant discharge pressure.	Highest and consistent performance
12	Adequately sized condenser	Accuracy in performance
13	Best of the bought out components from all over the world.	Reliability and high performance.
14	Compact powder coated design	Aesthetic looks
15	Electronic control panel	Centralised control.

## AB GROUP CUSTOMERS



### Our Other Products



Heat less Air Dryer



Industrial Chillers



Air Filter



Moisture separator



Air Compressor



Pneumatic Tool

### Corporate Office

155/1, Rajdanga, Nabapally,  
Kolkata - 700 107, West Bengal, India  
Phone : + 91 9830086288  
Telefax : + 91 33 2441 9992  
E-mail : dbiswas@abtechno.in  
info@abtechno.in  
Website : www.abtechno.in

### Branch Office

Bhubaneswar  
Guwahati  
Patna  
Ranchi