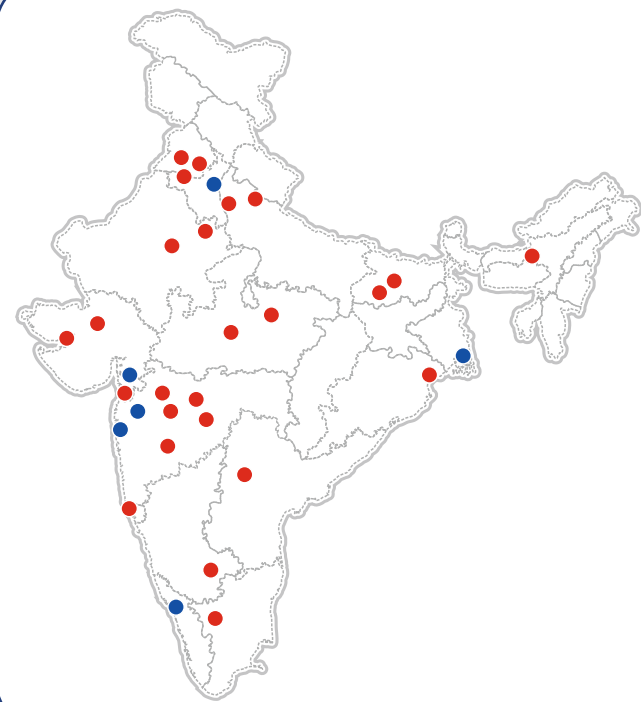
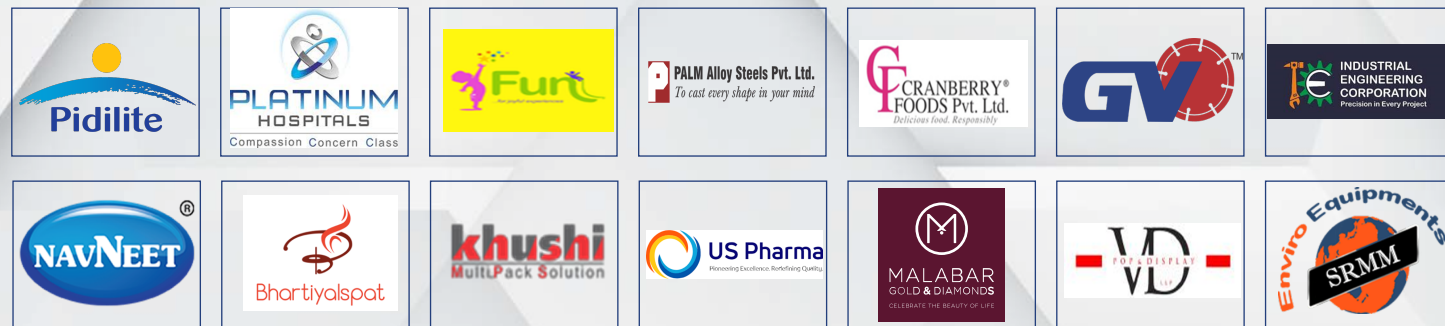


## ABOUT US

Airo-Tech Enterprises, based in Vasai East is a world-class manufacturer, exporter and solution provider for Compressed Air Treatment and Industrial Cooling. We are committed to designing, manufacturing, delivering and servicing technically proven, commercially viable products and solutions to industrial needs in line with international standards. Annair Air Dryers and Water Chillers are one of the most trusted brands in India since 2005, with more than 10,000 successful installations and a satisfied client base in all spectrums of industries. Our products and services are easily available all over India through our branch offices and authorised dealer network.



## OUR CLIENTS



### OUR NETWORK

We have a well established network of Channel Partners & Service Franchises at various locations.

#### MAJOR LOCATIONS

Ahmedabad, Delhi, Kochi, Kolkata, Mumbai & Pune

#### Machines Delivered

Ahmedabad, Alwar, Aurangabad, Bangalore, Bhubaneswar, Chandigarh, Coimbatore, Delhi, Faridabad, Gandhidham, Goa, Guwahati, Haryana, Hyderabad, Indore, Jaipur, Jamshedpur, Kanpur, Kolhapur, Kolkata, Ludhiana, Mumbai, Nashik, Nagpur, Noida, Patna, Pune, Rajkot, Raipur, Thane & Vapi.

## Airo-Tech Enterprises

(An ISO 9001:2015 Certified Co.)

Gala No.5, Vasai Taluka, Industrial Estate, Gauripada Road,  
Next to Valiv Police Station, Vasai East, Palghar, Maharashtra, India

T : +91 9021916638 | +91 9225132218

E : sales@compressorairotech.com | info@compressorairotech.com

W : <https://airotechaircompressor.com> | [www.aircompressors.net.in](http://www.aircompressors.net.in)

### Brand Promise

"Hum Keval Compressor Hi Nahi, Par  
Factory Ke Saanson Ki Responsibility  
Lete Hain."



A Kiran Koshiya Enterprise

# REFRIGERATED AIR DRYER





# ATRD-FUTURE X

The Airo-Tech Future X Series represents a breakthrough in compressed air treatment technology—engineered to deliver superior performance, energy efficiency, and durability. Built with cutting-edge components, including a compact 3-in-1 aluminium plate-type heat exchanger, intelligent controller, advanced defrost system, the series ensures optimal heat transfer, effective moisture separation, and a consistent dew point.

Designed for the demands of modern industry, the Future X Series combines innovation, reliability, and intelligent control—making it the ideal solution for environments that require clean, dry compressed air with minimal maintenance and maximum efficiency.

## Smart Inside: Key Technological Highlights



### Energy-Optimised 3-in-1 Plate-Type Evaporator

This integrated aluminium die-cast module combines a pre-cooler, refrigerant evaporator, and demister-type moisture separator into a compact, space-saving design. Its counterflow configuration ensures efficient heat exchange and consistent performance. With low pressure drop and reduced power consumption, it delivers optimal cooling with minimal energy usage. The corrosion-resistant construction ensures long-term durability.

### Advanced Intelligent dryer controller

This intelligent controller enhances safety and visibility with built-in alarms for HP/LP faults, compressor overload, and phase sequence issues. It displays real-time system parameters such as dew point, inlet air temperature, Ambient temperature, fan, and compressor status. The automatic drain timer function ensures efficient condensate management. Designed for ease of monitoring and control, it ensures reliable and optimized dryer operation.



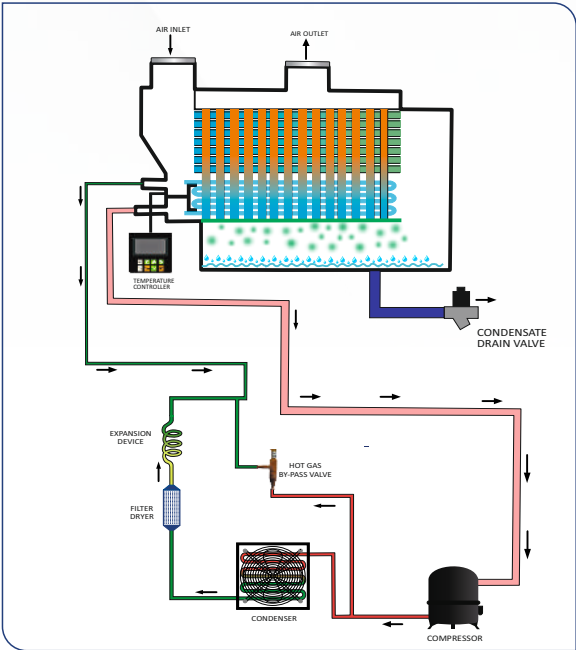
### Mechanical Bypass Valve for Stable Dew Point

The mechanical hot gas bypass valve regulates evaporator pressure during low load conditions by redirecting hot gas, preventing freezing and ensuring a steady dew point. It operates independently without electrical power, offering reliable and maintenance-free performance. Simple yet effective, it adapts to air flow changes while minimizing operational costs. Ideal for maintaining system stability in varying industrial loads.

## SALIENT FEATURES

- CFC free, eco-friendly refrigerant
- Constant dew point at all varying load
- Two stage effective moisture separation
- Lower power consumption
- Built with necessary protectors for electrical and refrigeration systems
- Modern refrigerant system components and pressure switches
- Automatic, maintenance free and user friendly
- Compact design and requires less floor space

## SCHEMATIC DIAGRAM



# ATRD-Future X



## Future X (500 CFM - 3000 CFM)

### TECHNICAL DATA

Model	Capacity CFM	Working Pressure kg.cm <sup>2</sup>	Connection Size BSP/F	Refrigerant	Power Supply v/ph	Condenser Type	Nominal Power Consumption (kw)		Overall Dimensions in mm L x B x H	Approx. Weight (kgs.)	
							Air Cooled	Water Cooled		Air Cooled	Water Cooled
ATRD-500	500	14	2½"	R407C	415/3	Air	3.40		815 x 990 x 1400	155	
ATRD-600	600	14	2½"	R407C	415/3	Air	3.40		815 x 990 x 1400	165	
ATRD-800	800	14	3"	R407C	415/3	Air	4.10		915 x 1145 x 1475	180	
ATRD-1000	1000	14	4"	R407C	415/3	Air /Water	4.85	4.60	915 x 1145 x 1475	250	305
ATRD-1250	1250	14	4"	R407C	415/3	Air/Water	5.05	4.80	1000 x 1500 x 1530	275	330
ATRD-1500	1500	14	4"	R407C	415/3	Air/Water	7.75	6.95	1000 x 1500 x 1530	305	365
ATRD-2000	2000	14	5"	R407C	415/3	Air/Water	8.50	7.70	1400 x 1800 x 1900	410	455
ATRD-2500	2500	14	6"	R407C	415/3	Air/Water	9.90	9.05	1400 x 1800 x 1900	445	520
ATRD-3000	3000	14	6"	R407C	415/3	Air/Water	13.55	12.65	1400 x 1800 x 1900	520	570

### Data refer to the following nominal condition

Ambient temperature of 40°C, with intel air at 7 barg and 45°C and 3°C pressure dew point (-22°C atmosphere pressure dew point)

### CORRECTION FACTOR

CORRECTION FACTOR (BAR)	4	5	6	7	8	10	12	16
CORRECTION FACTOR (K <sub>s</sub> )	0.82	0.89	0.95	1	1.05	10.09	1.13	1.18
AMBIENT TEMPERATURE (°C)	15	20	25	30	35	40	45	50
CORRECTION FACTOR (K <sub>t</sub> )	1.2	1.16	1.1	1.05	1	0.93	0.85	0.76
INLET TEMPERATURE (°C)	25	30	35	40	45	50	55	60
CORRECTION FACTOR (K <sub>p</sub> )	1.29	1.21	1.15	1.08	1	0.92	0.83	0.73