

Desiccant Air Dryer

Dry Air Technologies



IHR Series



IHA Series

Introduction :

"INFINITY" is a manufacturer with sixteen years of experience, Which specialized in R&D, Manufacturing and selling compressed air drying, purification and filtration equipments

Since its establishment in 1993, "INFINITY" has been taking it as its responsibility to meet customer every need adhering to the quality policy of "TO WIN VIA QUALITY" and the development target of "NEVER STOP INNOVATION" and the business philosophy of "LET CUSTOMERS SELECT AND USE INFINITY PRODUCTS AT EASE" hence taking the lead in new products development and the application of new technology in America our target is to become "THE MOST EXCELLENT AND VIGOROUS MANUFACTURER OF COMPRESSED AIR DRYING AND PURIFICATION EQUIPMENTS"



DESIGNED TO MEET ENERGY CONSERVATION NEEDS TODAY

INFINITY's common platform design allows any dryer to be upgraded to the most efficient model available while maintaining the outlet flow. Select a low cost Heatless model today and upgrade to an energy efficient Vacuum Regenerated Dryer tomorrow.



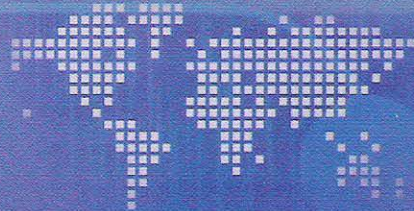
IHA - Heatless Air Dryer

Features:

- TSA Fixed 10-minute cycle
(Energy saving variable cycle AutoDew available as option)
- Extensive range of flow capacities from 0.5 to 200 Nm³/min.
- High performance molecular sieve desiccant
- Universal 220V Power supply
- Standard dew point -20°C PDP
(-70°C and -40°C PDP available as options)
- Class 3000# fittings
- Prefilter and afterfilter available as options

Model IHA Series	Flow rate		Connection	Dimensions (mm.)			Weight (kg.)
	Nm ³ /m	SCFM		Height	Width	Depth	
IHA-5	0.5	18	DN 20	840	340	1000	150
IHA-10	1	35	DN 20	840	340	1360	200
IHA-20	2	71	DN 20	1000	400	1450	250
IHA-30	3	106	DN 25	1000	400	1650	320
IHA-60	6	212	DN 40	1250	460	1800	530
IHA-100	10	353	DN 50	1350	550	2200	710
IHA-120	12	423	DN 65	1450	550	2200	830
IHA-150	15	530	DN 65	1600	550	2200	920
IHA-200	20	706	DN 65	1800	600	2300	1200
IHA-300	30	1059	DN 80	1900	900	2360	1420
IHA-400	40	1412	DN 80	2000	950	2500	1920
IHA-600	60	2119	DN 125	2400	1000	2650	2400
IHA-800	80	2825	DN 150	2600	1100	2800	3000
IHA-1000	100	3531	DN 150	2800	1100	2800	3600
IHA-1200	120	4238	DN 150	3000	1120	3000	4150
IHA-1500	150	5297	DN200	3000	1400	3100	4800
IHA-2000	200	7063	DN 200	3200	1550	3100	5000





IHR - Heat Regeneration Air Dryer

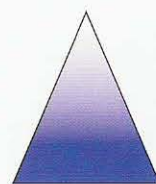
Features :

- TSA Fixed 100-minute cycle
(Energy saving variable cycle AutoDew available as option)
- Extensive range of flow capacities from 1 to 300 Nm³/min.
- Optimised activated alumina and silica gel layered desiccant bed
- Electric heater 220/380/460/600V
- Pressure range 4 to 11 bar g (higher pressure operation available)
- Standard dew point -20°C PDP
(-70°C and -40°C PDP available as options)
- Class 3000# fittings
- Prefilter and afterfilter available as options

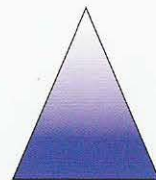


Model IHR Series	Flow rate		Connection	Dimensions (mm.)			Weight (kg.)
	Nm ³ /m	SCFM		Height	Width	Depth	
IHR-10	1	35	DN 20	820	300	1380	220
IHR-30	3	106	DN 25	1200	550	1720	360
IHR-60	6	212	DN 40	1450	630	1980	620
IHR-80	8	282	DN 50	1500	650	2020	850
IHR-100	10	353	DN 50	1500	650	2060	950
IHR-120	12	423	DN 65	1600	700	2120	1100
IHR-150	15	530	DN 65	1800	750	2150	1250
IHR-200	20	706	DN 65	2000	800	2350	1680
IHR-300	30	1059	DN 80	2100	900	2460	2100
IHR-400	40	1412	DN 80	2200	950	2650	2800
IHR-600	60	2119	DN 125	2600	1200	2780	4100
IHR-800	80	2825	DN 150	2800	1500	2850	4800
IHR-1000	100	3531	DN 150	2900	1600	3020	5600
IHR-1200	120	4238	DN 150	3000	1600	3100	6000
IHR-1500	150	5297	DN 200	3000	1600	3200	6800
IHR-2000	200	7063	DN 200	3200	1700	3500	7300
IHR-2500	250	8829	DN 200	3300	1700	3500	8200
IHR-3000	300	10595	DN 250	3500	1700	3500	9000

Lowest Capital Cost
Blower Purge Air Dryer
3% Purge



Regenerate Dryer
7% Purge



Heatless Air Dryer
14% Purge

*The specification subject to change without notice in advance.

IHB - Blower Purge Air Dryer

Features :

- TSA Fixed 8 hours cycle
(Energy saving variable cycle AutoDew available as option)
- Extensive range of flow capacities from 15 to 200 Nm³/min.
- Low purge loss (average 3%)
- Optimised activated alumina and silica gel layered desiccant bed
- Electric heater and centrifugal blower at 380/460/600V
- Pressure range 4 to 11 bar g (higher pressure operation available)
- Standard dew point -20°C PDP
(-70°C and -40°C PDP available as options)
- Class 3000# fittings
- Prefilter and afterfilter available as options



Model JHB Series	Flow rate		Connection	Dimensions (mm.)			Weight (kg.)
	Nm ³ /m	SCFM		Height	Width	Depth	
JHB-150	15	530	DN 65	2350	1400	2450	1750
JHB-200	20	706	DN 65	2400	1450	2450	2020
JHB-300	30	1060	DN 80	2500	1450	2700	2350
JHB-400	40	1413	DN 80	2600	1500	2720	2900
JHB-600	60	2119	DN 125	2800	2120	2765	4500
JHB-800	80	2825	DN 125	2800	2480	3100	6200
JHB-1000	100	3531	DN 150	3340	2580	3140	8400
JHB-1500	150	5297	DN 200	3800	2720	3326	10350
JHB-2000	200	7063	DN 200	4200	2950	3400	13500

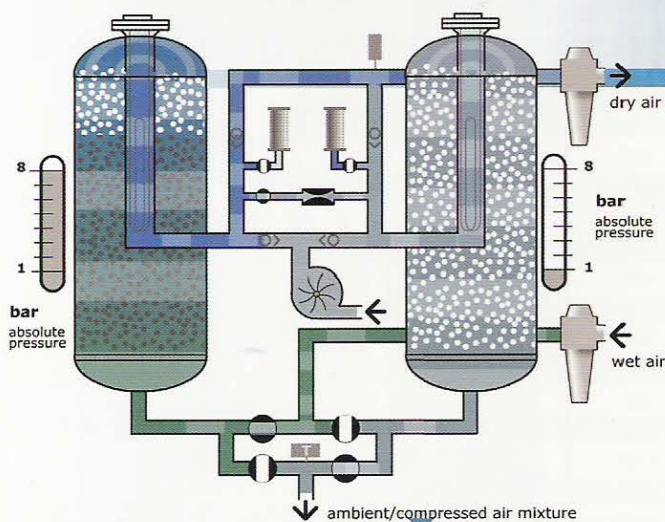


ISO CERTIFICATE

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Temperature Correction			
Operating Temperature °C	25	38	50
Multiply Flow by	1.87	1	0.56

Pressure Correction				
Operating Pressure bar.	5.5	7	9	11
Multiply Flow by	0.82	1	1.26	1.52



FLOW CHART

At normal operating temperature in the online tower, water vapor adheres to the desiccant so that only dry air leaves the outlet. A blower pushes fresh air through an electric heater to raise the temperature in the offline tower and release the adsorbed water vapor. Dried air is used for cooling the desiccant before switching back online.

In all of INFINITY's heated dryers, the towers are filled with two layer of desiccant. The first layer is selected for its ability to efficiently remove bulk water from the wet compressed air and to guard the second layer, Which is sensitive to wet air. This second layer is most effective at the dry end of the spectrum, removing the residual water vapour down to very low concentrations to produce the clean dry air required.

Standard options available for all model

- Hazardous location Class1, Division 2 for electrical components
- Copper - free construction
- Silicone - free construction
- Full flow pressure relief valves
- Winter packaging for outdoor installation in severe climates
- Tower switching failure alarm included with auto dew point option

INFINITY Adsorption can custom engineer adapt to your special needs :

- High flow to 500 Nm³/min (18,000 SCFM)
- High pressure to 350 bar (5,000 psig.)
- Industrial gases : hydrogen, acetylene, propylene, sulfur dioxide, natural gas, biogas etc.
- Closed loop configurations
- Stainless Steel construction
- Hazardous location: Class 1, Division 1
- PLC touch screens, SCADA conformance etc.
- Alternative heating sources
- Alternative regeneration gases
- Max PDP - 700C for Molecular Sieve absorbent

Distributor: