High Capacity Heatless Air Dryer - *Series IDA*

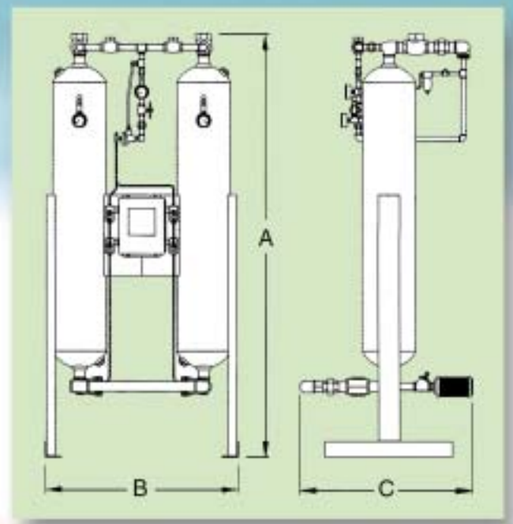
Model	Flow		Port size	Dimensions						Weight	
				A		B		C			
	L/min	CFM		inch	mm	inch	mm	inch	mm	lbs	Kg
IDA50	1416	50	1/2" NPT	52	1321	28	711	24	610	160	73
IDA75	2123	75	3/4" NPT	60	1524	34	864	24	610	190	86
IDA100	2831	100	1" NPT	71	1803	32	813	28	711	250	114
IDA150	4247	150	1 1/2" NPT	74	1880	37	940	31	787	375	170
IDA200	5662	200	1 1/2" NPT	80	2032	36	914	32	813	450	205
IDA280	7927	280	2" NPT	86	2184	41	1041	33	838	650	295
IDA380	10758	380	2" NPT	85	2159	45	1143	42	1067	900	409
IDA630	17835	630	2" NPT	85	2159	57	1448	46	1168	1300	591
IDA850	24064	850	2 1/2" NPT	87	2210	60	1524	49	1245	1800	818
IDA1200	33972	1200	3" Flange	99	2515	69	1753	60	1524	2500	1136
IDA1600	45296	1600	3" Flange	101	2565	88	2235	62	1575	4200	1909
IDA2000	56620	2000	4" Flange	120	3048	82	2083	62	1575	5000	2273
IDA2800	79268	2800	4" Flange	118	2997	104	2642	48	1219	6500	2955
IDA3600	101916	3600	6" Flange	120	3048	141	3581	62	1575	9000	4091

The inlet flow figures are at 100psig pressure.
Average purge air consumption is 15% of inlet flow used to regenerate the desiccant.

Features:

- 200psig pressure towers. ASME compliant and TSSA registered
- Removable stainless steel wedge–wire style desiccant retainers
- P/A's pneu alpha programmable controller
- Diaphragm operated inlet switching and purges exhaust valves
- 5 micron control air filter
- –40°F pressure dew points and lower
- Repressurization valve to allow full tower repressurizing prior to on-line switching – even at reduced purge glow levels
- Up-flow drying and down flow purging ensure desiccant remains stable during tower depressurization and purging
- Liquid filled pressure gauges
- High pressure operation models
- Oil-dust tight EEMAC-12 control panel
- Copper-free construction

Dimensions



Series **ID/IDW/IDA**

Heatless Air Dryers

Series **IDA**

Heatless Air Dryer - *Series ID*

Features:

- Provides dry air at dew point as low as –58°F (–50°C). Standard dew point –22°F (–30°C)
- Compact and light weight without heater and electric control board
- Possible to check outlet dew point with an indicator

Specifications

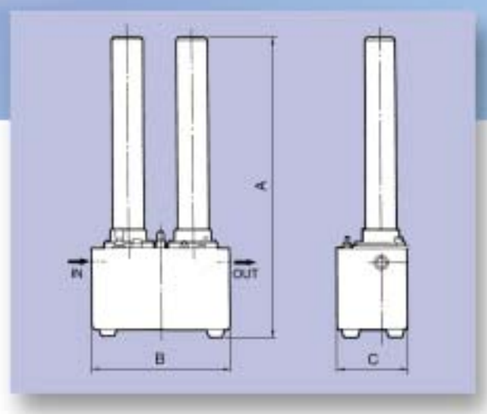
Model	Flow						Port size	Power supply	Dimensions						Weight	
	Inlet		Outlet		Recycled Air				A		B		C			
	L/min	CFM	L/min	CFM	L/min	CFM			inch	mm	inch	mm	inch	mm	lbs	Kg
ID200-N02	100	3.53	80	2.82	20	0.71	1/4"NPT	110V Single-Phase 60hz	20.5	520	9.4	240	4.7	120	15.4	7
ID300-N04	192	6.78	155	5.47	37	1.31	1/2"NPT		24.2	615	9.4	240	4.7	120	18.7	8.5
ID400-N04	415	14.65	330	11.65	85	3	1/2"NPT		33.5	850	12.6	320	6.7	170	40.8	18.5
ID600-N06	975	34.43	780	27.54	195	6.89	3/4"NPT		37.8	961	12.6	320	6.7	170	55.1	25

Add Z at the end of model no. for –58°F dew point.

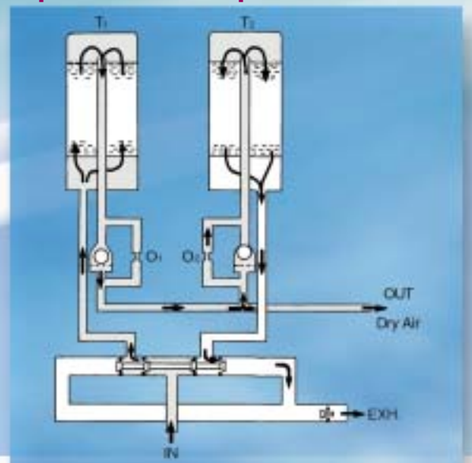
Accessories

Model	Bracket	Mist separator	Adsorbent set for standard dew point	Adsorbent set for special low dew point
ID200-N02	6604113	AM150-N02	ID-200S	ID-200Z
ID300-N04	6604113	AM250-N04	ID-300S	ID-300Z
ID400-N04	660651	AM250-N04	ID-400S	ID-400Z
ID600-N06	660651	AM350-N06	ID-600S	ID-600Z

Dimensions



Operation Principles



The compressed air that flowed in from the IN side passes through the 4 way solenoid valve, and after it is dehumidified at adsorption cylinder T1, it turns into dry air and exits from the OUT side. Meanwhile, a portion of the dry air passes through orifice O2, it reactivates the adsorption agent at adsorption cylinder T2, and together with moisture, it passes through the solenoid valve and is released to the atmosphere. Conversely, due to the operation of the switching valve that occurs after a certain length of time, T1 becomes reactivated and T2 assumes the adsorption state. This process is repeated to continuously provide dry air.

Series ID

Compact Heatless Air Dryer - *Series IDW*

Standard Features

- Built-in synoptic dryer control panel
- Energy management system
- See through desiccant cartridge
- 365 days memory on the dryer controller
- Electrical NEMA 4 (IP65) enclosure as standard
- Ability to remove dryer towers without disturbing the connecting pipe work
- Non-corrosive shuttle valves
- Low power 12VDC solenoid coils

Specifications

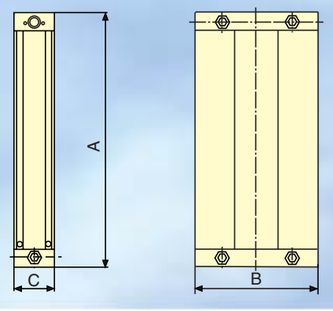
- Standard pressure dew point ..... –40°F (–40°C)
- Optional dew points ..... –100°F (–70°C)
- Minimum working pressure 58psig
- Maximum working pressure 232psig
- Electric controls 24VDC, 110VAC, 230VAC
- Minimum inlet temperature ..... 35°F (1.5°C)
- Maximum inlet temperature ..... 122°F (50°C)

Note) All flow rates are based on 100psig at the dryer inlet.

Model	Pipe size	Inlet flow rate		Dryer configuration	Dimension mm			Weight		Dimension inch		
		L/min	CFM		A	B	C	kg	lb	A	B	C
IDW6SFD-(Voltage)	3/8"NPT	168	6	Simplex	504	281	92	14	31	20	11	3.6
IDW8SFD-(Voltage)	3/8"NPT	222	8	Simplex	565	281	92	15	33	22	11	3.6
IDW10SFD-(Voltage)	3/8"NPT	282	10	Simplex	635	281	92	16.5	36	25	11	3.6
IDW15SFD-(Voltage)	3/8"NPT	420	15	Simplex	815	281	92	19.5	43	32	11	3.6
IDW22SFD-(Voltage)	3/8"NPT	624	22	Simplex	1065	281	92	24	53	42	11	3.6
IDW33SFD-(Voltage)	3/8"NPT	930	33	Simplex	1460	281	92	31	68	57.5	11	3.6
IDW44SFD-(Voltage)	1/2"NPT	1248	44	Duplex	1065	281	184	47	104	42	11	7.25
IDW66SFD-(Voltage)	1/2"NPT	1866	66	Duplex	1460	281	184	61	135	57.5	11	7.25

The inlet flow figures are at 100psig pressure.
Average purge air consumption is 19% of inlet flow used to regenerate the desiccant.

Dimensions



Optional Extras

- Foot mounting bracket
- Wall mounting bracket
- 12DVC electric control
- 12000 hours service/Maintenance kit
- Solenoid valve services kit
- Alternative purge plugs available
- Facility to pipe purge air away from dryer

Pre-filter

Model	Connection size	General purpose pre-filter	High efficiency filter model
IDW6SFD-(Voltage)	3/8"NPT	AFW30-N03-E1	AFW30-N03-EA
IDW8SFD-(Voltage)	3/8"NPT	AFW30-N03-E1	AFW30-N03-EA
IDW10SFD-(Voltage)	3/8"NPT	AFW30-N03-E1	AFW30-N03-EA
IDW15SFD-(Voltage)	3/8"NPT	AFW30-N03-E1	AFW30-N03-EA
IDW22SFD-(Voltage)	3/8"NPT	AFW30-N03-E1	AFW30-N03-EA
IDW33SFD-(Voltage)	3/8"NPT	AFW30-N04-E1	AFW30-N04-EA
IDW44SFD-(Voltage)	1/2"NPT	AFW60-N04-E1	AFW60-N04-EA
IDW66SFD-(Voltage)	1/2"NPT	AFW60-N04-E1	AFW60-N04-EA

It is recommended a general purpose pre-filter is installed prior to the high efficiency filter to extend service life.

Series IDW