Ingersoll Rand

Refrigerated Air Dryers

Innovation

Reliability

Efficiency

Ingersoll Rand
Industrial Technologies

Control Panel : D600IN-A to D950IN-A

Includes all the main functions to control and monitor the unit:

- Energy saving mode – shuts dryer off during low loads.
- Alarm display:
  - Dew Point – high/low temperature.
  - High ambient temperature.
  - No-loss drain failure.
- Terminal for remote alarm signal.
- Terminal for remote alarm for no-loss drain.
- History of last 10 alarms.

Control Panel : D1300IN-A to D5400IN-A

This range has all the main functions you would expect to control and monitor the unit:

- Energy saving mode – shuts dryer off during low loads.
- Alarm display:
  - Dew Point – high/low temperature.
  - High ambient temperature.
  - No-loss drain failure.
- Terminal for remote alarm signal.
- Terminal for remote alarm for no-loss drain.
- Remote ON/OFF.
- History of the last 50 alarms.

Electronic No-loss Drain : D600IN-A to D5400IN-A

The powerful no loss electronic drain eliminates the need for pre-setting the unit.

- Using state-of-the-art software and combined with a special transducer interface to measure the presence of condensate, it is released only when needed.
- Continuous monitoring ensures fast, effective discharge of the condensate with no deficit of compressed air.

Advanced Microprocessor Controls : D4620IN-W to D22800IN-W and D6600IN-A to D13500IN-A

- Dew Point – high/low temperature.
- Air inlet temperature displays.
- Air outlet temperature.
- Multi level menus to allow user programming.
- Volt free general alarm contact.

Reliable Design

Scroll compressors with corrosion resistant materials deliver cost efficient, long-life performance. They feature fewer moving parts, are fully-instrumented and monitored for reliability and are protected by IP54-rated electrical enclosures.

This makes them the optimum investment for high-volume needs with a lot at stake – and the bigger, the better!

Every unit delivers advanced microprocessor control with multi-level menus, password protection and alarms.

Units with capacities above 150 m^3/min also add self-diagnostic software plus the ability to trim energy consumption during periods of reduced demand.

Technical Specifications

Model	Class 5 < 7° C Dew Point		Class 4 < 3° C Dew Point		Nominal Power	Standard Power Supply	Air Connections	Dimensions			Weight	Max. Working Pressure
	m^3/min FAD 20°C	m^3/hr FAD 20°C	m^3/min FAD 20°C	m^3/hr FAD 20°C	kW	V / Ph / Hz	BSP in	Width mm	Length mm	Height mm	kg	bar g
Air Cooled												
D12IN-A	0.2	12	0.2	9.6	0.12	230/1/50	3/8"	305	360	402	17	14
D25IN-A	0.4	25	0.3	20.0	0.12	230/1/50	3/8"	305	360	402	23	14
D42IN-A	0.7	42	0.6	33.6	0.18	230/1/50	1/2"	389	431	452	25	14
D54IN-A	0.9	54	0.7	43.2	0.18	230/1/50	1/2"	389	431	452	26	14
D72IN-A	1.2	72	1.0	57.6	0.20	230/1/50	1/2"	389	431	452	26	14
D108IN-A	1.8	108	1.4	86.4	0.41	230/1/50	3/4"	420	515	562	33	14
D144IN-A	2.4	144	1.9	115.2	0.47	230/1/50	3/4"	420	515	562	38	14
D180IN-A	3.0	180	2.4	144.0	0.61	230/1/50	3/4"	420	515	562	43	14
D240IN-A	4.0	240	3.2	192.0	0.68	230/1/50	1 1/2"	500	679	978	76	14
D300IN-A	5.0	300	4.0	240.0	1.04	230/1/50	1 1/2"	500	679	978	87	14
D360IN-A	6.0	360	4.8	288.0	1.04	230/1/50	1 1/2"	500	679	978	87	14
D480IN-A	8.0	480	6.4	384.0	1.40	230/1/50	1 1/2"	500	679	978	110	14
D600IN-A	12.0	720	10.0	600.0	1.85	230/1/50	2"	720	780	1425	120	14
D780IN-A	15.6	936	13.0	780.0	1.98	400/3/50	2"	720	780	1425	130	12
D950IN-A	19.0	1140	15.8	950.0	2.58	400/3/50	2"	720	780	1425	150	12
D1300IN-A	26.0	1560	21.7	1300.0	3.40	400/3/50	3"	784	1388	1585	260	12
D1410IN-A	28.2	1692	23.5	1410.0	3.40	400/3/50	3"	784	1388	1585	270	12
D1890IN-A	37.8	2268	31.5	1890.0	5.30	400/3/50	3"	784	1388	1585	300	12
D2520IN-A	50.4	3024	42.0	2520.0	6.88	400/3/50	DN 100	914	1388	1585	330	12
D3000IN-A	60.0	3600	50.0	3000.0	7.81	400/3/50	DN 125	1500	1510	1570	420	12
D4200IN-A	84.0	5040	70.0	4200.0	11.29	400/3/50	DN 125	1500	1510	1570	520	12
D4800IN-A	96.0	5760	80.0	4800.0	12.91	400/3/50	DN 150	1500	1510	1570	620	12
D5400IN-A	108.0	6480	90.0	5400.0	12.91	400/3/50	DN 150	1500	1510	1570	720	12
D6600IN-A	127.0	7618	102.7	6162.0	9.90	400/3/50	DN 150	910	1940	1447	624	14
D9000IN-A	160.5	9630	130.4	7822.0	11.00	400/3/50	DN 200	930	3000	2079	1077	14
D11400IN-A	204.1	12249	165.9	9952.0	14.35	400/3/50	DN 200	930	3000	2079	1102	14
D13500IN-A	261.5	15692	212.9	12772.0	19.84	400/3/50	DN 250	1150	3390	2210	1850	12
Water Cooled												
D4620IN-W	81.8	4909	65.8	3948.0	5.23	400/3/50	DN 150	910	1940	1310	560	14
D5400IN-W	104.7	6282	84.1	5045.0	6.76	400/3/50	DN 150	910	1940	1310	526	14
D6600IN-W	133.6	8015	105.7	6343.0	9.00	400/3/50	DN 150	910	1940	1310	659	14
D9000IN-W	163.8	9825	131.6	7897.0	10.47	400/3/50	DN 200	930	3000	1927	1055	14
D11400IN-W	209.8	12588	168.5	10113.0	14.23	400/3/50	DN 200	930	3000	1927	1065	14
D13500IN-W	267.6	16055	214.6	12876.0	19.40	400/3/50	DN 250	2975	1165	1980	1730	12
D18000IN-W	372.1	22326	300.3	18017.0	23.70	400/3/50	DN 300	3575	1315	2230	2750	12
D22800IN-W	471.5	28291	380.0	22802.0	31.54	400/3/50	DN 300	3575	1315	2230	2785	12

Notes:

1) Data refers to the following conditions: air FAD 20°C/1 bar a, pressure 7 bar g, ambient temperature 25°C, air inlet temperature 35°C, water inlet temperature = 30°C, condensing mean temperature = 40°C, stated pressure dew points in accordance with ISO 8573-1:2001 standards.

Maximum Inlet Temperature

D12IN-A to D5400IN-A	60 °C
D6600IN-A to D13500IN-A	65 °C
D4620IN-W to D22800IN-W	65 °C

Maximum Ambient Temperature

D12IN-A to D950IN-A	50 °C
D1300IN-A to D13500IN-A	46 °C
D4620IN-W to D22800IN-W	46 °C

Water Connections BSP (inches)

D4620IN-W to D6600IN-W	1 1/2"
D9000IN-W to D22800IN-W	2"

If Pressostatic valve option installed on D13500IN-W, D18000IN-W & D22800IN-W, the inlet water connection changes to two 1 1/2" BSP connections.

Features

Features	Air Cooled						Water Cooled	
	D12IN-A to D180IN-A	D240IN-A to D480IN-A	D600IN-A to D950IN-A	D1300IN-A to D5400IN-A	D6600IN-A to D11400IN-A	D13500IN-A	D4620IN-W to D11400IN-W	D13500IN-W to D22800IN-W
Dew Point Indication	✓	✓	✓	✓	✓	✓	✓	✓
On/off Switch		✓	✓	✓	✓	✓	✓	✓
Terminal for Remote Alarm Signal	✓	✓	✓	✓	✓	✓	✓	✓
Remote Control				✓	✓	✓	✓	✓
Energy Saving Mode	✓	✓	✓	✓	✓	✓	✓	✓
Remote ON/OFF Switch				✓	✓	✓	✓	✓
High Pressure Switch	✓	✓	✓	✓	✓	✓	✓	✓
Variable Speed Fan	✓	✓						
Fan Pressure Switch			✓	✓	✓	✓		
History of Last 10 Alarms	✓	✓	✓					
History of Last 50 Alarms				✓	✓	✓	✓	✓
Hot Gas By-pass Valve		✓	✓	✓	✓	✓	✓	✓
Electronic No-loss Drain			✓	✓	✓	✓	✓	✓
Electronic Drain Valve	✓	✓						
Internal Pre-filter						✓		✓

Maintaining air quality is so important that the International Standards Organisation (ISO) developed six compressed air quality classes, as defined by ISO 8573-1:2001.

ISO 8573-1:2001 Air Quality Classes

Quality Class	Solid - Maximum Number of Particles per m^3			Water Pressure Dew Point °C	Oil & Oil Vapour mg/m^3
	0.1-0.5 micron	0.5-1 micron	1-5 micron		
0	As specified by the end-user or manufacturer and more stringent than Class 1				
1	100	1	0	-70°C	0.01
2	100, 000	1000	10	-40°C	0.1
3	N/A	10,000	500	-20°C	1
4	N/A	N/A	1,000	3°C	5
5	N/A	N/A	20,000	7°C	N/A
6	N/A	N/A	N/A	10°C	N/A

To determine which industry classification you require, ask yourself these simple questions:

- Does compressed air quality affect my production process and the quality of my end products?
- Will poor compressed air quality decrease my productivity, cost savings and product quality standards?
- What internal and external ambient conditions affect the quality of my compressed air produced by my system?