



Refrigeration Air Dryer

10 to 1500cfm



Digital Auto Sense Air
Flow Control System

Artificial Intelligence
for Power Saving and Long Run

Technical Data										
Sl. No.:	Model	Air Flow		Dimensions in mm			Weight	Power Supply	Nominal Power	Air Connection
		cfm	m3/hr	Width	Depth	Height	Kgs	V/ Ph 50Hz	kW	BSPPP
1	CRD SI010	10	17	360	460	460	31	230/1	0.11	½"
2	CRD SI020	20	34	360	460	460	32	230/1	0.13	½"
3	CRD SI040	40	68	400	520	460	36	230/1	0.2	¾"
4	CRD SI060	60	102	400	520	460	37	230/1	0.32	¾"
5	CRD SI080	80	136	450	630	550	54	230/1	0.4	1"
6	CRD SI100	100	170	450	630	550	55	230/1	0.5	1"
7	CRD SI120	125	212	450	630	550	56	230/1	0.7	1"
8	CRD SI150	150	255	500	800	820	79	230/1	0.83	1-1 ½"
9	CRD SI200	200	340	500	800	820	90	230/1	1.1	1-1 ½"
10	CRD SI250	250	425	500	800	820	95	230/1	1.3	1-1 ½"
11	CRD SI300	300	510	600	950	1060	136	230/1	1.6	2 ½"
12	CRD SI350	350	595	600	950	1060	140	230/1	1.7	2 ½"
13	CRD SI400	400	680	600	950	1060	142	230/1	1.9	2 ½"
14	CRD SI500	500	850	600	950	1060	144	415/3	2.2	2 ½"
15	CRD SI600	600	1020	600	950	1060	148	415/3	2.6	2 ½"
Water Cooled option available on request										
16	CRD SI750	750	1275	700	950	1450	475	415/3	3.1	3-4"
17	CRD SI1000	1000	1700	600	1075	1615	520	415/3	4.4	3-4"
18	CRD SI1250	1250	2125	800	1075	1615	530	415/3	5.0	4"
19	CRD SI1500	1500	2550	1000	1600	1630	600	415/3	6.0	4"
20	CRD SI1500w	1500	2550	1150	1400	1630	550	415/3	5.6	4"

How to Calculate Suitable Dryer

Requirement	Inlet flow	100cfm
	Working Pressure	9bar
	Inlet Temperature	50°C
	Ambient Temperature	43°C
Referring Tables	Factor Pi =	1.11
	Factor Ti =	0.75
	Factor Ta =	0.86
Dryer Capacity Required :	$\frac{\text{Flow}}{\text{Pi} \times \text{Ti} \times \text{Ta}} = \frac{100}{1.11 \times 0.75 \times 0.86}$ <p style="text-align: center;">= 139.67</p>	
Choose the Nearest ^model	<p style="text-align: center;">= 150cfm CRD SI150</p>	

Correction Factor

Air Inlet Temperature °C	30	38	45	50	55	60
Correction Factor (Ti)	1.14	1.08	1.0	0.75	0.63	0.5
Ambient Temperature °C	25	30	38	43	45	50
Correction Factor (Ta)	1.36	1.18	1.0	0.86		
Inlet Pressure (bar)	3	5	7	9	12	
Correction Factor (Pi)	0.6	0.84	1.0	1.11	1.21	1.21
Rated nearest option B as per standard ISO 7183 -2007						

Our Other Products Related to Air Drier

• Digital Auto Drain Valve	• Moisture Filters
• After Cooler Air Inlet	• Desiccant (Heatless) Air Dryer
• Level Sensing Auto Drain Valve	• Nitrogen Generators

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