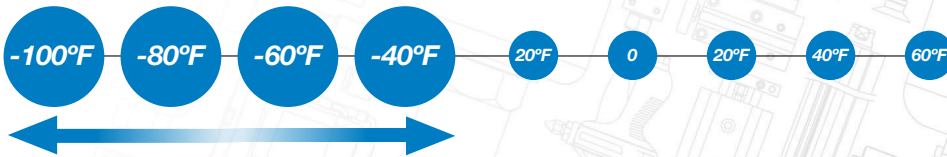


Heatless Regenerative Dryers

Designed for simple service with toploding cartridge design

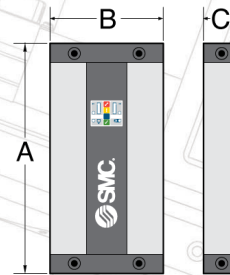
- Intelligent electronic processor; dewpoint management control option available for IDW46N-IDW360N
- **-40°F (-4°C)** pressure dewpoint standard, **-100°F (-73°C)**
- Suitable for global installation - **12~24VDC** or **100~240VAC (50/60 Hz)**
- Vertical or horizontal mounting
- Multi-ported for flexible installation
- Pre-filter and integral post-filter are standard for **IDW04N-IDW35N**

DEW POINT



Dryer Model	Connection Size	Flow Rate (scfm)			Dryer Configuration	Dimension (inch)			Weight (lbs)
		Inlet (max)	Outlet (max)	Purge		A	B	C	
IDW04N	3/8"	4	3.2	0.8	Simplex	17.5	11	3.6	29
IDW06N		6	4.8	1.2		20			31
IDW08N		8	6.4	1.6		22			33
IDW10N		10	8	2		25			36
IDW15N		15	12	3		32			43
IDW25N		25	20	5		42			53
IDW35N		35	28	7		57.5			68

Standard Pressure Dew Point	-40°F
Optional Pressure Dew Point	-100°F
Minimum Working Pressure	58 psig
Maximum Working Pressure	232 psig
Power Supply	12 VDC~24 VDC or 100 VAC~240 VAC
Minimum Inlet Temperature	35°F
Maximum Inlet Temperature	122°F
Minimum Ambient Temperature	41°F
Purge Rate	20°F



IDW4N-IDW35N



Operating Pressure (psig)	58	72	87	100	116	130	130	145	160	174	189	203	218	232
Pressure Correction Factor (PCF)*	0.62	0.75	0.87	1	1.12	1.25	1.25	1.37	1.5	1.62	1.75	1.87	2.0	2.12

Temperature (°F)	68	77	86	95	104	113	122
Temp. Correction Factor (TCF)	1.07	1.06	1.04	1.00	.088	0.78	0.55

Dew Point (°F)	-40	-100
Dew Point Correction Factor (DCF)	1	0.7

*Always use the pressure correction factor (PCF) closest to the actual inlet pressure condition
Corrected air flow rate = Required air flow rate / (PCF x TCF x DCF)

IDW Series

Dryer Model	Port NPT	Flow Rate (scfm) ¹⁾			Dryer Configuration	Dimension (inch)							Weight (lbs)	Addl Wgt DMC ²⁾ Lbs	No. of Cartridges	
		Inlet (max)	Outlet (max)	Purge		A	B	C	D	E	F	G ²⁾				
IDW04N	1"	45	37.4	7.7	Simplex	25.74	13.50	12.20	2.99	1.97	24.00	4.00	101	1	2	
IDW06N		55	45.7	9.4		28.97					28.00					112
IDW08N		75	62.3	12.8		35.63					35.00					136
IDW10N		90	74.7	15.3		40.43					40.00					154
IDW15N		110	91.3	18.7		49.68					28.00					187
IDW25N		150	124.5	25.5		62.75					35.00					231
IDW35N		180	149.4	30.6		72.55					40.00					268
IDW35N	1-1/2"	220	182.6	37.4	46.69	19.25	2.44	28.00	339							
IDW35N		300	249.0	51.0	62.73			35.00	429							
IDW35N		360	298.8	61.2	72.54			40.00	495							

- 1) Stated flows are for an inlet pressure of 100 psig with reference to -4°F, 14.50 psia, 0% relative water vapor pressure. For flow at other pressures, apply the appropriate correction factors, terms, and dew point.
- 2) Additional height and weight are applicable to units equipped with dew point management control (DMC) and hygrometer. (G) is the projection of the hygrometer above the unit.
- 3) Simplex models have two desiccant columns (one per side) while duplex models have four (two per side).
- 4) To specify dew point management control, add "-D" after the model. To specify low dew point cartridges, add "-L" after the model. To specify both, add "-DL" after the model.

Standard Pressure Dew Point		-40°F
Optional Pressure Dew Point	Standard Cartridges	-4°F
	Low Dew Point Cartridges ⁴⁾	-100°F
Minimum Working Pressure		58 psig
Maximum Working Pressure		188.5 psig
Controller Power		100-240VAC / 50/60 HZ / 1ph or 24VDC ⁵⁾
Minimum Inlet Temperature		35°F
Maximum Inlet Temperature		122°F
Purge Rate (Average)		17%

- 4) Low dew point cartridges are required for application where -94°F and -100°F dew points are required.
- 5) 24VDC controller with factory installed 100-240VAC / 50/60 Hz power supply with 115V plug.
- 6) Recommended pre-filtration: series AMH mist separator with pre-filter or series AM and AMD. Depending on pressure requirements, series AFW may need to be considered with the -EA elements as the final stage.
- 7) A 1 micron post-filter is recommended to catch any desiccant fines, series AFF-D recommended. Depending on pressure requirements, series AFW may need to be considered with the -E1 element.

Operating Pressure (PCF)

psig	58	72	87	100	115	130	145	160	174	189
Mpa	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3
Correction Factor	0.62	0.75	0.87	1	1.12	1.25	1.37	1.5	1.62	1.75

Temperature (TCF)

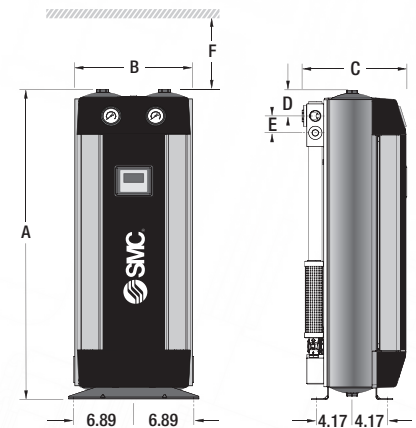
°F	68	77	86	95	104	113	122
°C	20	25	30	35	40	45	50
Correction Factor	1.30	1.20	1.10	1.00	0.75	0.65	0.45

Pressure Dew Point (DCF) with Standard Cartridges

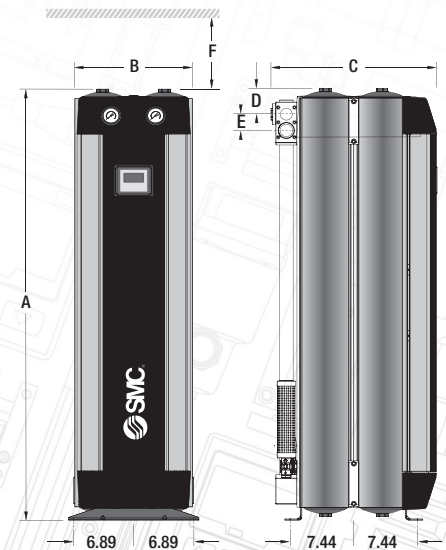
°F	-4	-22	-40
°C	-20	-30	-40
Correction Factor	1.23	1.20	1.00

Pressure Dew Point (DCF) with Low Cartridges

°F	-94	-100
°C	-70	-74
Correction Factor	0.80	0.77



Models PD0046-PD0180



Models PD0220-PD0360



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