

Nirvana Cycling Refrigerated Air Dryers

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An advanced cycling dryer, the Nirvana provides the reliability, efficiency and productivity our customers deserve. Significant savings are possible because the Nirvana only operates its refrigeration system as the load demand requires, unlike traditional non-cycling dryers whose refrigeration systems operate continuously regardless of demand. Each component of the Nirvana has been designed to provide not only durability, but maximum energy efficiency. This combination of system design and individual component design adds up to the most energy-efficient cycling refrigerated dryer available.

Provides true customer value through:

- · High operating efficiency for lower energy consumption
- Superior heat exchange design to ensure continuous pressure dew point performance
- Reliable centrifugal separation that pulls unwanted moisture from the air to discard through a reliable float-type or timed electric solenoid drain

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Optional cleanable panel filter is also available to further protect the refrigeration system condenser

Cycling Refrigerated Air Dryers

D127NC-D255NC Features/Benefits:

Thermal Mass with Submerged Evaporator

• Fully insulated to maintain a cold well of propylene glycol-water, which is pumped to the air chiller to provide a low pressure dew point.

Superior Heat Exchanger Design

- Durable, corrosion-resistant 304L stainless steel provides optimal heat transfer to ensure low pressure dew point and unmatched low pressure drop.
- Pre-cooler/re-heater removes initial heat load from compressed air to properly precondition to reduce energy costs and re-heat dry air. This ensures low RH% that protects the compressed air system.

D17NC-D85NC Features/Benefits:

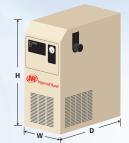
ISO Class 4 Pressure Dew Point

• Reliable system provides 38°F dew point to protect your process.

Fully Submerged Heat Exchanger

- Simple thermal mass design ensures continuous and reliable performance.
- Copper tube exchangers ensure low pressure dew point while measured in a continuously monitored, temperature controlled glycol mass.
- Automatic controls reduce energy draw by shutting down the refrigerated compressor as quickly as possible yet maintains continuous performance.

D127NC-D255NC Dimensions



D17NC-D85NC Dimensions



Cycling Refrigerated Air Dryer Data									
	Capacity		kW	Dimensions (WxDxH)		Weight		Connection	
Model	scfm	m³/min	60 Hz	in	mm	lbs	kg	Size (in)	Туре
D17NC	10	0.3	0.42	14x14x18	355.6x355.6x457.2	95	43	0.5	FPT
D31NC	18	0.5	0.59	14x14x18	355.6x355.6x457.2	95	43	0.5	FPT
D41NC	24	0.7	0.74	20x16x23	508.0x406.4x584.2	150	68	0.5	FPT
D59NC	35	1.0	1.20	20x16x23	508.0x406.4x584.2	170	77	.75	FPT
D85NC	50	1.4	1.36	20x16x23	508.0x406.4x584.2	170	77	.75	FPT
D127NC	75	2.1	0.78	14x35x31	355.6x889.0x787.4	140	64	1.0	MPT
D170NC	100	2.8	0.96	14x35x31	355.6x889.0x787.4	175	80	1.0	MPT
D212NC	125	3.5	1.35	14x35x31	355.6x889.0x787.4	175	80	1.5	MPT
D255NC	150	4.2	1.29	14x35x31	355.6x889.0x787.4	175	80	1.5	MPT

Performance data in accordance with ISO 7183, table 2, option A2. 100°F inlet temperature, 100°F ambient temperature, 100 psig, 100% relative humidity. All models are air-cooled only; max pressure: D17NC-D85NC 250 psig/D127NC-D255NC 230 psig; max inlet temperature: 125°F; voltages: 115-1-60 and 220-1-50, D127NC - D255NC available in 230-1-60. NEMA 1 electrical enclosures standard; dimensions subject to change without notice; standard ETL-certified.

Models D17NC - D85NC

50°F/113°F min/max ambient temperature R134A/R404A refrigerant

Models D127NC - D255NC

40°F/113°F min/max ambient temperature R404A refrigerant



Ingersoll Rand Company Air Solutions

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