

High Temperature Thermal Mass Cycling Dryers



Innovative

**THERMA
CYCLE**
technology

Dehydration & filtration for high temperature applications in a thermal mass cycling design

The nano R-Series¹ range of RTC Refrigerated Thermal Mass Cycling dryers are specifically designed for the unique demands of high temperature compressed air applications. With seven models from 15 to 100 cfm and a 1 micron coalescing inlet filter provided as standard, the nano RTC dryers are the optimum choice for fluctuating air flows and harsh environments.

nano's innovative Therma-Cycle™ technology monitors the heat load on the dryer which changes constantly with fluctuations in air flow and temperature. As conditions fluctuate, the dryer uses its internal thermal mass to consistently cool and dry the air, switching the refrigeration circuit on only when required.

Reliable performance. Energy saving design.

In most applications, air flow and ambient temperatures vary significantly over time and rarely - if ever - reach the dryer's maximum rated heat load. Traditional dryers run at maximum power all the time regardless of the actual demand. The RTC Therma-Cycle™ technology continuously matches power consumption to the actual heat load providing significant energy savings.

Perfect for small, non-aftercooled piston compressors or any application with a fluctuating air demand, the RTC Therma-Cycle dryer provides unparalleled reliability, performance and energy savings.

For the optimum in clean compressed air, the RTC dryers can also be supplied with a 0.01 micron after filter, providing comprehensive moisture and particulate removal in a single, cost effective and reliable package.

Applications Include:

Manufacturing

Paint & Coatings

Machine Tools

Blasting

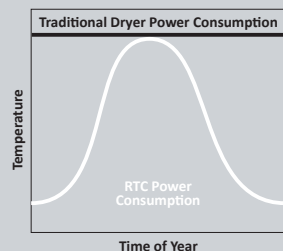
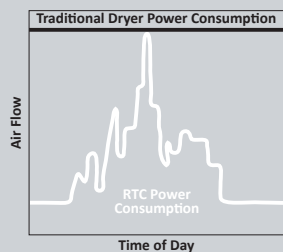
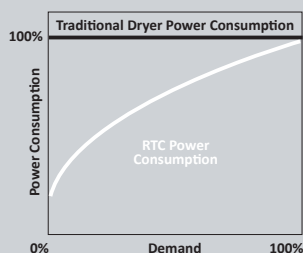
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Technical Specification

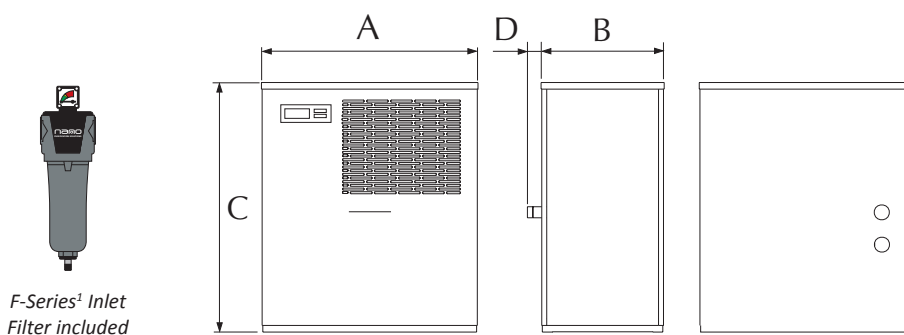
Model	Inlet & Outlet	Rated Flow ⁽¹⁾		Power Supply (1 Phase, 60 Hz)		Dimensions (inches)				Approx. Weight	Inlet Filter (Included)
	NPT	scfm	Nm ³ /h	115 V	230 V	A	B	C	D	lbs	
RTC 0015-F	½"	15	25	•		20.9	11.8	20.1	3.5	80	NF 0050 M1
RTC 0020-F	½"	20	34	•		20.9	11.8	20.1	3.5	86	NF 0050 M1
RTC 0035-F	½"	35	60	•		20.9	11.8	20.1	3.5	91	NF 0050 M1
RTC 0050-F	¾"	50	85	•		25.6	14.6	29.5	3.5	143	NF 0085 M1
RTC 0065-F	¾"	65	110	•	•	25.6	14.6	29.5	3.5	148	NF 0085 M1
RTC 0085-F	1"	85	144	•	•	25.6	14.6	29.5	3.9	176	NF 0090 M1
RTC 0100-F	1"	100	170	•	•	30.7	14.6	33.5	3.9	209	NF 0135 M1



specifications

inlet filter (included)	M1 (1 micron)
condensate drain (included)	automatic timed solenoid

- Matches power consumption to demand for optimum energy savings.
- The most energy efficient high inlet temperature dryer on the market.
- Includes nano's innovative and patented dual transfer heat exchanger.
- Includes an F-Series¹ M1 (1 micron) coalescing inlet filter as standard.
- Includes an adjustable automatic timed solenoid condensate drain.
- Interact through an easy to read LED display and simple user interface.
- The RTC cycling design is approved for most utility energy savings rebates.



(1) At 125 psig & 140°F inlet conditions, 95°F ambient, and a 50°F outlet pressure dewpoint. For all other conditions, please contact support@n-psi for sizing.

- 115 Volt models include a 6-foot power cord and plug.
- M01 0.01 micron particulate after filter available as an option.