

direct expansion refrigerated air dryers

flow capacity: 15 to 2000 scfm (24 to 3210 Nm³/hr)

FEATURES & BENEFITS

stainless steel heat exchanger

 patented design, corrosion resistant construction and integrated moisture separator, large surface area heat exchanger is truly unique and efficient (models NDX 1750 and larger use multi-module SS design)

CAREL® microprocessor

 functionality monitoring text display includes power on, dew point temperature, drain operation and manual override



performance validated filtration

 pre- and after-filter packages available to provide additional energy savings and improved air quality

refrigerant gauge

 standard refrigerant gauge located above the controller for ease of troubleshooting

environmentally friendly

• R134a or R407C refrigerant dependent on model

robust construction

 powder coated galvanized steel panels are corrosion resistant



scroll compressors

 models NDX 0250 (460/3/60) and up) utilize scroll compressors which minimize power consumption, noise, vibration and moving parts while maximizing reliability and resistance to liquid refrigerant returns

adjustable timer drain

standard solenoid drain is fully adjustable and extremely reliable

oversized condenser for high ambient temperatures

 oversized condenser uses a high pressure fan switch to protect refrigeration circuit

easy installation & start up

• small footprint, lightweight and ready to go out of the box



SPECIFICATIONS

dryer model	inlet & outlet ⁽¹⁾	rated	flow (2)	absorbed power ⁽³⁾		dimensions (inches)		approx. weight	power supply (V/Ph/60Hz) ⁽⁴⁾		
model	NPT/FLG	scfm	Nm³/h	kW	А	В	С	lbs	115/1	230/1	460/3
NDX 0015	1/2"	15	24	0.22	15	17	18	55	•		
NDX 0020	1/2"	20	32	0.23	15	17	18	62	•		
NDX 0030	1/2"	30	48	0.24	15	17	18	70	•		
NDX 0045	1/2"	45	72	0.25	15	17	18	77	•		
NDX 0055	3/4"	55	88	0.47	15	19	20	84	•		
NDX 0085	3/4"	85	136	0.49	15	19	20	92	•		
NDX 0110	1"	110	177	0.92	15	26	29	143	•		
NDX 0135	1"	135	217	0.92	15	26	29	143	•		
NDX 0175	1 ½"	175	281	0.96	15	26	29	152	•		
NDX 0215	1 ½"	215	345	0.94	16	30	35	196		•	
NDX 0250	1 ½"	250	401	1.05	16	30	35	222		•	
NDX 0250	2"	250	401	1.47	18	35	47	253			•
NDX 0340	2"	340	546	1.47	18	35	47	253		•	•
NDX 0470	2"	470	754	2.50	18	35	47	297			•
NDX 0550	2 ½"	550	883	2.60	18	35	47	319			•
NDX 0725	2 ½"	725	1164	3.46	18	35	47	397			•
NDX 0950	2 ½"	950	1525	3.60	23	40	47	712			•
NDX 1150	3"	1150	1846	5.04	23	40	47	771			•
NDX 1350	3"	1350	2167	6.54	23	40	47	882			•
NDX 1750	4" Flg	1750	2809	7.20	73	64	40	1433			•
NDX 2000	4" Flg	2000	3210	7.20	73	64	40	1480			•

specifications	NDX 0015 to NDX 0725	NDX 0950 to NDX 2000					
design operating pressure range	0 to 232 psig	0 to 189 psig					
maximum inlet temperature	158°F	158°F					
maximum ambient temperature	110°F to 122°F depending on refrigerant						



105

0.96

maximum ambient temperature	(contact nano support for details)

pressure correction factors (5)															
operating pressure (psig)	58	72	87	10	00	115	130	145	160	175	1	90	204**	218**	232**
correction factor	0.72	0.82	0.92	1.0	00	1.06	1.09	1.11	1.15	1.18	1.	19	1.21	1.23	1.26
inlet temperature correction factors (5)															
inlet air temperature (°F)	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155
correction factor	1.27	1.19	1.09	1.00	0.91	0.78	0.71	0.63	0.56	0.52	0.48	0.44	0.40	0.36	0.33
ambient temperature correction factors (5)															

90

1.06

100

1.00

correction factor	1.18	1.16	
(1) ½" to 3" are NPT threaded connec	ctions, 4" and up are sup	plied with ANSI flanged con	nections

70

80

1.16

inlet temperature (°F)

110

0.90

⁽²⁾ rated flow capacity. conditions for rating dryers are in accordance with ISO7183 (Option A2). Compressed air at dryer inlet: 100 psig (7 bar) and 100°F (38°C); ambient air temperature: 100°F (38°C); operating on 60Hz power supply

⁽³⁾ nominal absorbed power at rated operating conditions using 115/1/60 or 460/3/60 power supply (as applicable). For absorbed power at other voltages or conditions, contact support@n-psi.com

⁽⁴⁾ specify voltage requirements when ordering. For 575V applications, contact support@n-psi.com for assistance

⁽⁵⁾ to be used as a rough guide only. All applications should be confirmed by n-psi sizing software. Contact support@n-psi.com for sizing assistance

⁽⁶⁾ Intertek UL/CSA 22.2 approval (models NDX 0015 to NDX 0175)

 $^{(7) \}quad \text{technical specifications subject to change without notice. Direct inquiries to support@n-psi.com\ or\ contact\ 704.897.2182$

^{*2} year warranty with pre-filtration and non-corrosive piping system installed

^{**}applies to models NDX 0725 and below only

EXPERIENCE. CUSTOMER. SERVICE.

Leading edge technology and hundreds of years of *experience*...nano-purification solutions, your world-class manufacturer of state-of-the-art compressed air and gas solutions to industry.

Our commitment at nano is to work alongside our *customers* and provide unique solutions with the highest quality products to solve your specific challenges.

A wealth of experience and leading edge products are only part of the equation. nano recognize that world-class customer *service* is the most important component to any successful business.



DESIGN

Our experienced team of design engineers are always looking for new and unique technologies and products to bring you the highest level of performance and lowest overall operating cost.



Our R&D team endeavor to provide solutions that go beyond developing an existing product. They are continually researching new technologies which can provide unique advantages over competitive offerings.





MANUFACTURE

The reliable and energy saving nano R^4 range of direct expansion refrigerated air dryers are manufactured in our state-of-the-art facility to the highest standards of build quality to ensure equipment reliability and high levels of performance.

ENVIRONMENTALLY FRIENDLY

Through both product development and manufacturing, we strive to produce high quality products compliant to both local and global environmental legislation. Reduction of carbon footprint through energy saving products and use of environmentally friendly components are our commitment to you.





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