NEMA 4 direct expansion refrigerated air dryers

FEATURES

- NEMA 4 design for harsh environments and outdoor installations where ambient temperatures range from 35 to 115°F
- NEMA 4 stainless steel panels are corrosion resistant
- simple NEMA 4 rated illuminated on/off switch
- utilization of Danfoss hermetically sealed compressors
- refrigerant gauge standard for ease of troubleshooting
- environmentally friendly R134a refrigerant is recognized as both efficient and safe
- low pressure drop and energy efficient
- easy installation and start-up
- fully adjustable and extremely reliable timer drain as standard
- applications include all general industrial compressed air applications where ISO 1.4.2 air (maximum) is acceptable

316 SS heat exchanger

corrosion resistant ensuring the highest heat transfer efficiency and most consistent dew points available

refrigerant gauge

included as standard for ease of trouble-shooting

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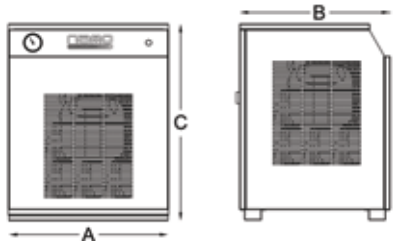
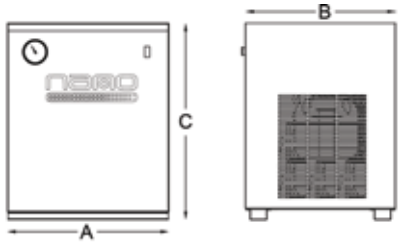
SPECIFICATIONS

dryer model	inlet & outlet	rated flow (1)		absorbed power (2)	dimensions (inches)			approx. weight	power supply (V/Ph/60Hz)		recommended pre & after filtration	
	NPT	scfm	Nm³/h	kW	A	B	C	lbs	115/1	208/230/1	pre filter	after filter
ND4X 30	½"	30	51	0.15	16	22	22	100	•		NF 0030 M1	NF 0030 M01
ND4X 40	½"	40	68	0.19	16	22	22	120	•		NF 0050 M1	NF 0050 M01
ND4X 60	½"	60	102	0.25	16	22	22	160	•		NF 0070 M1	NF 0070 M01
ND4X 80	½"	80	136	0.25	16	22	22	175	•		NF 0085 M1	NF 0085 M01
ND4X 100	1 ¼"	100	170	0.37	22	22	32	210	•		NF 0280 M1	NF 0280 M01
ND4X 125	1 ¼"	125	212	0.56	22	24	32	260	•		NF 0280 M1	NF 0280 M01
ND4X 150	1 ¼"	150	255	0.56	22	24	32	290	•		NF 0280 M1	NF 0280 M01
ND4X 200	1 ½"	200	340	0.75	22	24	32	350		•	NF 0290 M1	NF 0290 M01

specifications	ND4X 30 to NDX 125	ND4X 150 to NDX 200
design operating pressure range	0 to 250 psig	0 to 250 psig
maximum inlet temperature	180°F	120°F
maximum ambient temperature	110°F	110°F



ND4X 30 to ND4X 100



ND4X 125 to ND4X 200

pressure correction factors (3)								
operating pressure (psig)	50	80	100	125	150	175	200	250
correction factor	0.85	0.95	1.00	1.07	1.13	1.18	1.20	1.35

inlet temperature correction factors (3)							
inlet air temperature (°F)	80	90	100	110	120	140	160
correction factor	1.50	1.21	1.00	0.82	0.72	0.61	0.53

ambient temperature correction factors (3)						
inlet temperature (°F)	70	80	90	100	110	115
correction factor	1.10	1.07	1.05	1.00	0.94	0.65

(1) in compliance with ADF 100 specifications for compressed air dryers: inlet temperature: 100°F, ambient temperature: 100°F, inlet pressure: 100 psig, pressure dew point: 33°F to 39°F. For all other conditions refer to the correction factors above or contact support@n-psi.com

(2) nominal absorbed power at rated operating conditions using 115/1/60 and 230/1/60 power supply (as applicable). For absorbed power at other voltages or conditions, contact support@n-psi.com

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

(4) technical specifications subject to change without notice. Direct inquiries to support@n-psi.com or contact 704.897.2182

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