



Compressed Air Treatment Nitrogen Generation Breathing Air Purification

2023

Product Range | Price Guide | Revision 8.0



The logo for nano, featuring the word "nano" in a stylized, lowercase, blue font. The letters are bold and modern, with a slight gap between the 'n' and 'a', and the 'o' is a simple circle.

Experience.

Our team is comprised of and supported by individuals spanning all disciplines from research & development, engineering & manufacturing, marketing & sales and service & support. Our backgrounds are in air and gas purification and our experience in this field spans a wide range of industries. We combine this knowledge and experience to ensure our products and services are designed and provided to meet the objectives and expectations of you - our Customer



Customer.

We recognise that our Customers are not only our valuable distribution partners who sell and support our products or the machine builders who depend on them as protection for their equipment. They are the contractors who install them, the manufacturers who use them in their processes and the service people who maintain them. At nano we have developed our products, packaging and support materials to ensure they exceed all of our Customers' expectations.



Service.

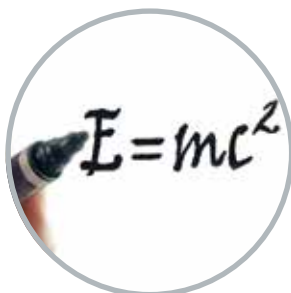
At nano we recognise that world-class customer service is the most important component to any successful business. Your business needs to exceed your customers' expectations to stand out from your competitors and our service must positively impact your business so you can be successful in doing so. Our commitment is simple... we will stand behind our products and ensure that our customer service is unrivaled in the industry.



Experience. Customer. Service.

table of contents

page



technical resources

conversion factors	5
ISO 8573-1 purity classes	6
proposed air installations	7

F-series industrial filters



F^{1.1}	centrifugal water separators	8
	performance validated filters	9
	medical vacuum filters	10
	medical sterile filters	11
	spares + accessories	12
F¹	replacement element	14
	spares + accessories	15
F³	mid pressure filters	16
F⁴	high pressure filters	17

D-series desiccant dryers



D^{1/2}	heatless modular desiccant air dryers	18
	options + service kits	20
D³	heatless modular desiccant air dryers	22
	options + service kits	24
D^{2/3}	pneumatic modular desiccant dryers	25

D-series OEM modules



D¹	heatless desiccant air dryer module	27
D²	heatless desiccant air dryer module	27
L¹	heatless CO ₂ removal module	27
B¹	breathing air purifier module	27
	technical & performance	28

L-series lab gas CO₂ removal modules

L¹	lab gas CO ₂ removal modules	29
----------------------	---	--------------------

M-series membrane compressed air dryer

M¹	membrane compressed air dryer	30
	specifications	31

table of contents



R-series refrigerant dryers

R¹	thermal mass cycling refrigerant air dryers	32
R⁴	direct expansion refrigerant air dryers	33
R^{1/4}	technical + spare parts	34
	options + upgrades	35
R⁶	variable speed cycling refrigerated dryers	36

V-series

V¹	oil vapour removal systems	37
----------------------	----------------------------	--------------------



GEN₂-series nitrogen generators

	recommended gas generation installations	38
ECOGEN₂	nitrogen generators	39
GEN₂ i4.0	ultra-high purity nitrogen generators	40
	options + service kits	44
GEN₂ MAX	pressure swing adsorption generator	45
MEM GEN₂	membrane nitrogen generators	47



B-series breathing air purifiers

B¹	breathing air purification modules	49
	breathable air systems	50
	breathing air purifiers	51
	accessories + kits	52

S-series oil water separators

S¹	condensate treatment systems	53
	accessories + media kits	54



ND-series condensate drains

ND	timed solenoid drains	55
	zero air loss drains	56

nano resources

	terms & conditions of sale	57
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technical resources

conversion tables

convert	pressure							
	psi	in H ₂ O	mm Hg	atmos	mbar	bar	kPa	MPa
psi	1	27.6799	51.715	0.068046	68.9476	0.06895	6.89476	0.00689
in H ₂ O	0.036127	1	1.86832	0.0024583	2.49089	0.00249	0.24901	0.000249
mm Hg	0.019337	0.53524	1	0.0013158	1.33322	0.00133	0.13332	0.000133
atmos	14.6959	406.781	760	1	1013.25	1.01325	101.325	0.101325
mbar	0.014504	0.401463	0.750062	0.0009869	1	0.001	0.1	0.0001
bar	14.504	401.463	750.062	0.8969	1000	1	100	0.1
kPa	0.14504	4.015	7.501	0.0099	10	0.01	1	0.001
MPa	145.04	4015	7501	9.9	10000	10	1000	1

convert	volumetric flow						
	l/s	dm ³ /s	l/m	m ³ /s	m ³ /m	Nm ³ /h	scfm
l/s	1	1	60	0.001	0.06	3.6	2.118882
dm ³ /s	1	1	60	0.001	0.06	3.6	2.118882
l/m	0.016667	0.016667	1	0.0000167	0.001	0.06	0.035315
m ³ /s	1000	1000	60000	1	60	3600	2118.88
m ³ /m	16.66667	16.66667	1000	0.0166667	1	60	35.315
Nm ³ /h(2)	0.277778	0.277778	16.66667	0.000278	0.0166667	1	0.588578
scfm(1)	0.471947	0.471947	28.31682	0.000472	0.0283168	1.699	1

nitrogen capacity					
weight of liquid or gas		volume of liquid at normal boiling point		volume of gas at 21°C (70°F) and 1 atm	
lb	kg	L	gal	cf	m ³
1.000	0.454	0.561	0.148	13.80	0.391
2.205	1.000	1.237	0.327	30.429	0.862
1.782	0.808	1.000	0.264	24.592	0.696
6.747	3.060	3.785	1.000	93.11	2.637
72.464	32.869	40.655	10.740	1000.00	28.317
2.559	1.161	1.436	0.379	35.31	1.000

ISO 8573-1 purity classes

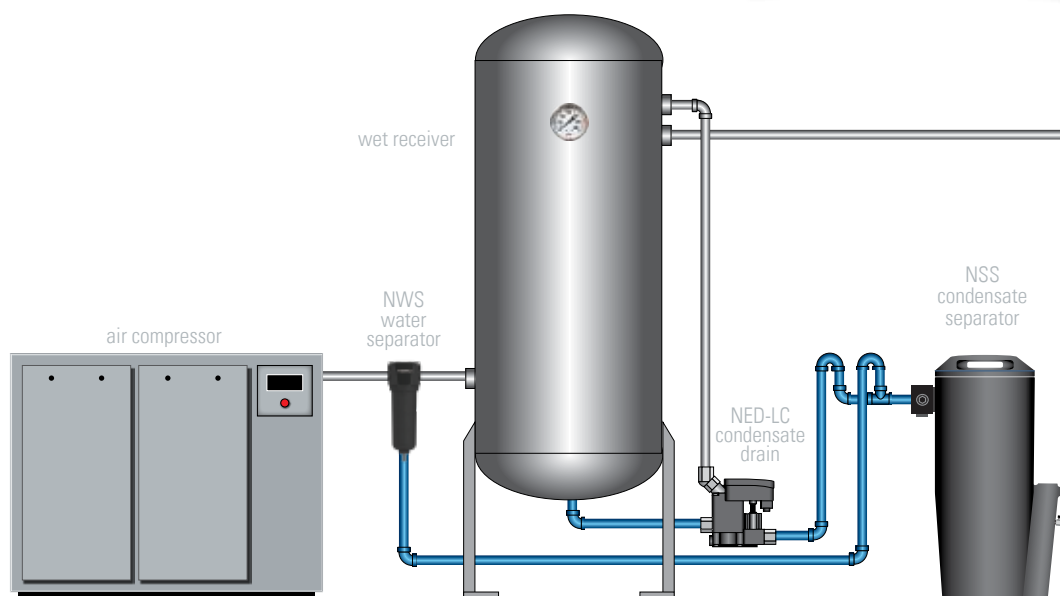
The ISO 8573 group of international standards is used for the classification of compressed air purity. The standard provides the test methods and analytical techniques for each type of contaminant. The table below summarises the maximum contaminant levels specified in ISO 8573.1: 2010 for the various compressed air quality classes. Each compressed air classification can be achieved by installing a specific filter grade or a combination of filter grades, depending upon the required performance as shown in the diagram opposite. Consult each product line for details of how it meets these classes.

purity class	solid particles				water		oil
	maximum number of particles per m ³			concentration	vapour	liquid	total oil ⁽¹⁾
	0.1 - 0.5 micron	0.5 - 1 micron	1 - 5 micron	mg/m ³	pressure dew point	g/m ³	mg/m ³
0	as specified by the equipment user or supplier						
1	≤ 20,000	≤ 400	≤ 10	-	≤ -70°C	-	≤ 0.01
2	≤ 400,000	≤ 6,000	≤ 100	-	≤ -40°C	-	≤ 0.1
3	-	≤ 90,000	≤ 1,000	-	≤ -20°C	-	≤ 1
4	-	-	≤ 10,000	-	≤ 3°C	-	≤ 5
5	-	-	≤ 100,000	-	≤ 7°C	-	-
6	-	-	-	0 < Cp ≤ 5	≤ 10°C	-	-
7	-	-	-	5 < Cp ≤ 10	-	≤ 0.5	-
8	-	-	-	-	-	0.5 < Cw ≤ 5	-
9	-	-	-	-	-	5 < Cw ≤ 10	-

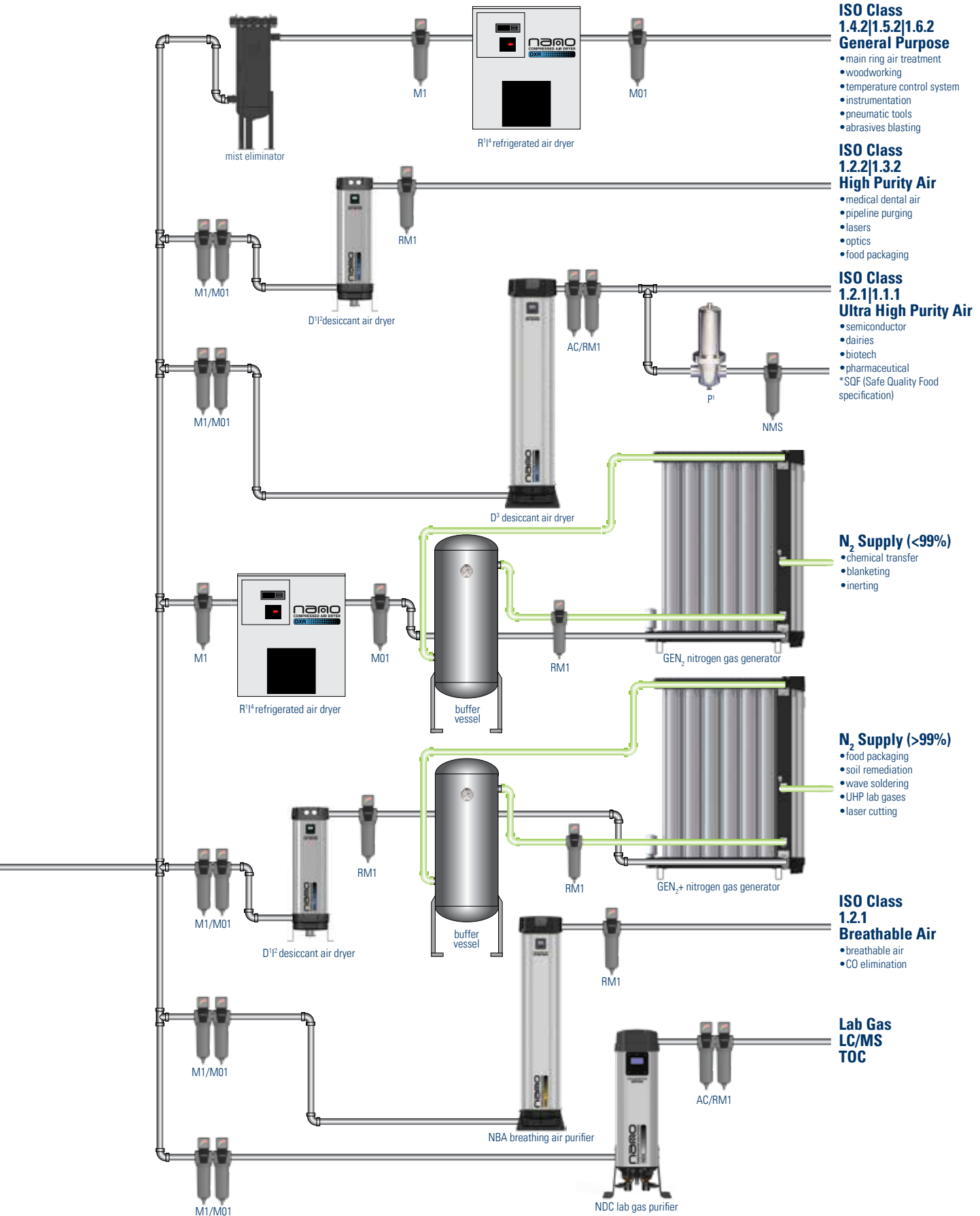
(1) all forms of oil including liquids, aerosols and vapour

independently validated performance

The performance of filtration is critical. The nano filter range has been independently tested by an accredited authority to ensure its performance credentials. For a copy of the test reports and validation certificates please contact us at sales@n-psi.co.uk or download them from www.nano-purification.com



ISO 8573-1 purity classes





centrifugal water separators

F1.1

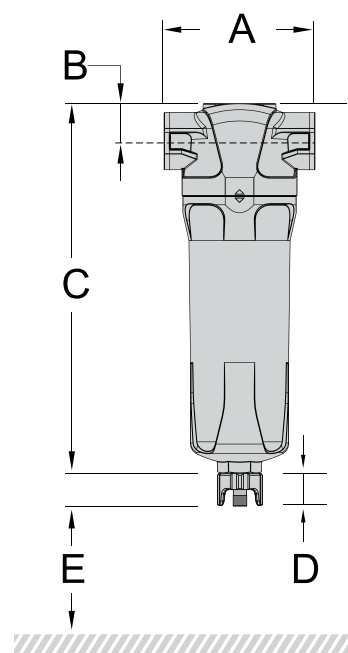
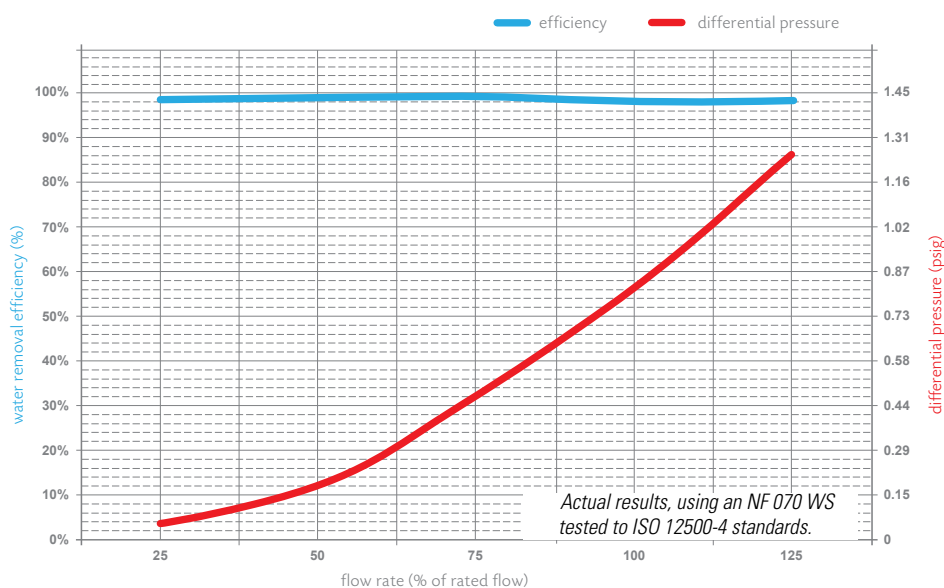
42 to 2,549 Nm³/h

The nano F¹ centrifugal water separators are designed to remove 99% of bulk liquid water from your compressed air or gas stream. This simple yet highly efficient design eliminates liquid contaminants enhancing the reliability of your compressed air or gas system and eliminating costly downtime.

separator model	separator price	inlet & outlet	rated flow ⁽¹⁾		dimensions (mm)				approx. weight
	€EUR	BSPP	scfm	Nm ³ /h	A	B	C	D	kg
GFNB 0006 WS	€135	1/8"	6	10	50	17	157	28	0.2
GFNB 0015 WS	€140	1/4"	15	25	50	17	157	28	0.2
GFNB 0025 WS	€158	1/4"	25	42	70	24	231	28	0.6
GFNB 0035 WS	€174	3/8"	35	59	70	24	231	28	0.6
GFNB 0050 WS	€184	1/2"	50	85	70	24	231	28	0.6
GFNB 0070 WS	€204	1/2"	70	119	127	32	285	42	1.7
GFNB 0125 WS	€237	1"	125	212	127	32	371	42	1.7
GFNB 0175 WS	€305	1"	175	297	127	32	371	42	1.7
GFNB 0280 WS	€456	1 1/4"	280	476	140	40	475	42	3
GFNB 0325 WS ⁽²⁾	€522	1 1/2"	325	553	140	40	475	42	3
GFNB 0700 WS	€779	2"	700	1189	170	53	708	42	4.9
GFNB 0850 WS	€1,115	2 1/2"	850	1445	220	70	736	42	8
GFNB 1500 WS	€1,325	3"	1500	2549	220	70	1005	42	8

specifications	0006 to 0050	0070 to 1500
design operating pressure range	0 to 16 barg	1.5 - 16 barg
design operating temperature	1.5 - 80°C	1.5 - 80°C
recommended operating temperature range	1.5 - 80°C	1.5 - 80°C
condensate drain (included)	GFDK 0050	GFDK 1500

pressure correction factors	4	5	6	7	8	10	12	14	16
operating pressure (barg)									
correction factor	0.76	0.84	0.92	1.00	1.07	1.19	1.31	1.41	1.51



- (1) at 7 barg. For all other pressures, refer to the pressure correction factors above
- (2) for pressures below 1.5 barg order with an GFDK 0050 condensate drain
- (3) all filters are supplied with an automatic float drain. When high liquid loads are anticipated we recommend installing a high capacity external condensate drain. Contact sales@n-psi.co.uk for available options
- (4) technical specifications subject to change without notice. Direct inquiries to sales@n-psi.co.uk

F1.1 performance validated filters

13 to 2,550 Nm³/h

nano F¹ performance validated compressed air & gas filters are available in a complete range of element grades designed to meet and exceed industry air quality requirements. Filtration performance is tested and validated by an independent laboratory to ISO 12500 standards.



filter model	filter price	replacement element	element price	inlet & outlet	rated flow ⁽¹⁾		dimensions (mm)				approx. weight
	€EUR	part no.	€EUR	BSPP	scfm	Nm ³ /h	A	B	C	D	kg
GFNB 0006 (grade)	€179	GEN 0006 (grade)	€56	1/8"	6	10	50	17	157	28	0.2
GFNB 0015 (grade)	€189	GEN 0015 (grade)	€61	1/4"	15	25	50	17	157	28	0.2
GFNB 0025 (grade)	€203	GEN 0025 (grade)	€70	1/4"	25	42	70	24	231	28	0.6
GFNB 0032 (grade)	€231	GEN 0032 (grade)	€80	3/8"	32	54	70	24	231	28	0.6
GFNB 0050 (grade)	€284	GEN 0050 (grade)	€97	1/2"	50	85	70	24	231	28	0.6
GFNB 0070 (grade)	€359	GEN 0070 (grade)	€108	1/2"	70	119	127	32	285	42	1.7
GFNB 0085 (grade)	€414	GEN 0085 (grade)	€108	3/4"	85	145	127	32	285	42	1.7
GFNB 0105 (grade)	€489	GEN 0105 (grade)	€139	1"	105	178	127	32	285	42	1.7
GFNB 0125 (grade)	€540	GEN 0125 (grade)	€139	1"	125	212	127	32	371	42	2.0
GFNB 0175 (grade)	€599	GEN 0175 (grade)	€168	1"	175	298	127	32	371	42	2.0
GFNB 0280 (grade)	€697	GEN 0280 (grade)	€200	1 1/4"	280	476	140	40	475	42	3.0
GFNB 0325 (grade)	€824	GEN 0325 (grade)	€200	1 1/2"	325	553	140	40	475	42	3.0
GFNB 0450 (grade)	€1,127	GEN 0450 (grade)	€231	2"	450	765	170	53	508	42	4.9
GFNB 0700 (grade)	€1,388	GEN 0700 (grade)	€298	2"	700	1190	170	53	708	42	5.5
GFNB 0850 (grade)	€1,646	GEN 0850 (grade)	€364	2 1/2"	850	1445	220	70	736	42	10.5
GFNB 0900 (grade)	€1,808	GEN 0900 (grade)	€364	3"	900	1530	220	70	736	42	10.5
GFNB 1250 (grade)	€2,100	GEN 1250 (grade)	€479	3"	1250	2125	220	70	857	42	11.5
GFNB 1500 (grade)	€2,473	GEN 1500 (grade)	€540	3"	1500	2550	220	70	1005	42	12.5

specifications	0006 - 0015	0025 - 0050	0070 too 1500
design operating pressure range		0 to 16 barg	1.5 to 16 barg ⁽²⁾
dP equipment	not fitted	indicator - GFDP 0050	gauge - GFDP 1500
condensate drain (included) ⁽³⁾		GFDP 0050	GFDP 1500

element performance ⁽³⁾	M1	M01	AC	RM1 ⁽⁴⁾
maximum oil content (ISO class) ⁽⁴⁾	3	2	1	3
particle removal (microns)	1	0.01	-	1
max oil carry over at 68°F (ppm or mg/m ³)	0.3	0.01	0.003	0.3
design operating temperature range (°F)	0 - 80°C	32 to 176°C	0 - 50°C	0 - 80°C

pressure correction factors									
operating pressure (barg)	4	5	6	7	8	10	12	14	16
correction factor	0.76	0.84	0.92	1.00	1.07	1.19	1.31	1.41	1.51

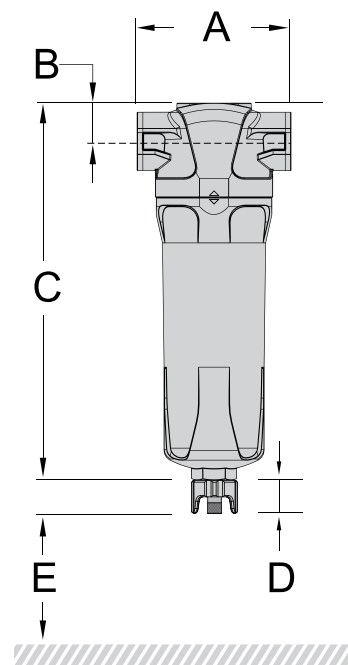
(1) at 7 barg. For all other pressures, refer to the pressure correction factors above

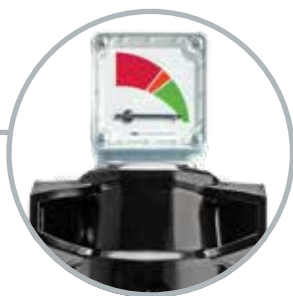
(2) for pressures below 1.5 barg order with an GFNB 0050 condensate drain

(3) AC & RM1 come with manual drain, all other filters are supplied with an automatic float drain. When high liquid loads are anticipated we recommend installing a high capacity external condensate drain. Contact sales@n-psi.co.uk for available options.

(4) per ISO 8573.1:2010

(5) technical specifications subject to change without notice. Direct inquiries to sales@n-psi.co.uk





medical vacuum filters

F1.1

3.5 to 265 Nm³/h

nano F¹ medical vacuum filters are designed to protect plant installations from contamination by solid particulate, liquids, aerosols and bacteria. Elements are constructed using a unique open cell reticulated outer foam layer.

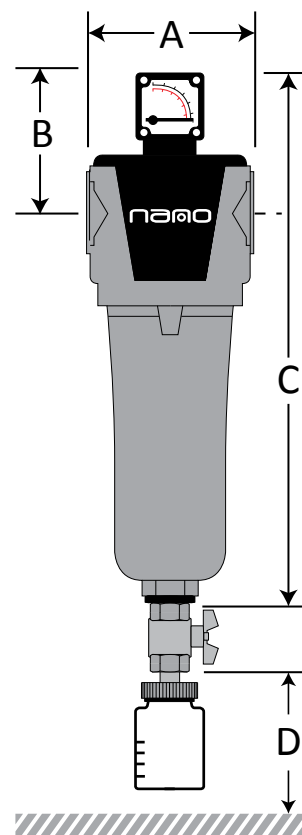
filter model	filter price	replacement element	element price	inlet & outlet ⁽¹⁾	exhaust flow rate ⁽²⁾ (vacuum displacement)		dimensions (mm)					approx. weight
	€EUR	part no.	€EUR	BSP	scfm	Nm ³ /h	A	B	C	D	E	kg
GMVB 0032	€312	GEN 0032 (grade)	€105	3/8"	4.1	7	70	25	169	76.2	236	0.5
GMVB 0050	€395	GEN 0050 (grade)	€115	1/2"	6.5	11	70	25	211	76.2	278	0.5
GMVB 0070	€454	GEN 0070 (grade)	€122	1/2"	11.8	20	100	34	246	76.2	351	1.58
GMVB 0085	€537	GEN 0090 (grade)	€122	3/4"	14.7	25	100	34	246	76.2	351	1.58
GMVB 0105	€567	GEN 0105 (grade)	€140	1"	17.7	30	127	32	285	42	80	1.7
GMVB 0125	€593	GEN 0125 (grade)	€153	1"	20.6	35	100	34	366	76.2	471	1.99
GMVB 0175	€766	GEN 0175 (grade)	€186	1"	29.4	50	100	34	366	76.2	471	1.99
GMVB 0280	€907	GEN 0280 (grade)	€219	1 1/4"	44.1	75	122	42	419	76.2	533	2.81
GMVB 0325	€989	GEN 0325 (grade)	€219	1 1/2"	50	85	122	42	419	76.2	533	2.81
GMVB 0450	€1,300	GEN 0450 (grade)	€254	2"	67.5	115	146	52	432	76.2	555	4.17
GMVB 0700	€1,526	GEN 0700 (grade)	€323	2"	106	180	146	52	738	76.2	861	6.30
GMVB 0850	€1,809	GEN 0850 (grade)	€398	2 1/2"	118	200	210	67	532	76.2	670	8.48
GMVB 0900	€1,987	GEN 900 (grade)	€398	3"	138	235	210	67	532	76.2	670	8.48
GMVB 1250	€2,310	GEN 1250 (grade)	€528	3"	212	360	210	67	750	76.2	888	10.47
GMVB 1500	€2,722	GEN 1500 (grade)	€593	3"	288	490	210	67	908	76.2	1046	11.97

specifications	GMVB 0032 to 0050	GMVB 0070 to 1500
vacuum indicator/gauge	NDV 50	NDV 1500
design operating pressure range	full vacuum to 16 barg	
condensate drain (included) ⁽³⁾	manual valve	
filter housing material	cast aluminum with E-Coat™ & powder top coat finish	

element performance	MV
particle removal	5 micron
maximum oil carryover at 68°F (ppm or mg/m ³)	1 mg/m ³
pressure drop - clean	20 mbar
pressure drop - recommended replacement	100 mbar
recommended operating temperature range	35 to 100°C
design operating temperature range	35 to 120°C
flow direction through element	outside to inside
maximum element life	12 months or 8000 hours

pressure correction factors									
operating pressure (psia)	14.7	13.0	11.6	10.2	8.7	7.3	5.8	3.3	2.9
operating pressure (inch Hg)	29.9	26.6	23.6	20.7	17.7	14.8	11.8	8.9	5.9
operating pressure (mbar abs)	atm	900	800	700	600	500	400	300	200
operating pressure (Torr)	760	675	600	525	450	375	300	225	150
correction factor	1.00	0.93	0.86	0.79	0.71	0.64	0.57	0.50	0.43

- (1) inlet and outlet connections are BSP threaded to ISO 7/1
 (2) free air conditions when operating at atmospheric pressure. For vacuums refer to the vacuum correction factor table above
 (3) models GMVB 0070 to GMVB 1500 can be adapted to use 1/4" drains with a reducer. Drain flasks are available for liquid collection for vacuum (or atmospheric pressure) applications only
 (4) technical specifications subject to change without notice. Direct inquiries to sales@n-psi.co.uk

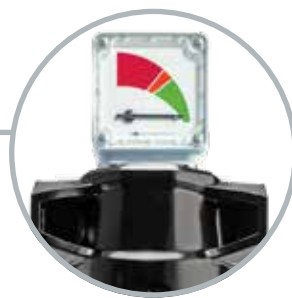


F1.1

medical sterile filters

26 to 2,550 Nm³/h

nano F¹ medical sterile filters are designed for medical compressed air plants, as used in hospitals throughout the world. These 100% integrity tested elements are constructed from stainless steel end caps and are guaranteed for a minimum of 100 sterilisations.



filter model	filter price	replacement element	element price	inlet & outlet ⁽¹⁾	flow rate ⁽²⁾		dimensions (mm)				approx. weight
	€EUR	part no.	€EUR	BSPP	scfm	Nm ³ /h	A	B	C	D	kg
GMSB 0006	€206	GEN 0006 MS	€113	1/8"	6	10	50	17	157	28	0.45
GMSB 0015	€216	GEN 0015 MS	€114	1/4"	15	25.5	49	18.5	134	76	0.45
GMSB 0025	€232	GEN 0025 MS	€137	1/4"	25	42.5	70	25	165	76	0.8
GMSB 0032	€266	GEN 0032 MS	€137	3/8"	32	59.5	70	25	165	76	0.8
GMSB 0050	€328	GEN 0050 MS	€151	1/2"	50	85	70	25	206	76	0.8
GMSB 0070	€415	GEN 0085 MS	€200	1/2"	70	119	100	34	241	76	2.1
GMSB 0085	€473	GEN 0085 MS	€200	3/4"	85	144	100	34	241	76	2.1
GMSB 0105	€525	GEN 0105 MS	€215	1"	105	178	127	32	371	80	2.4
GMSB 0125	€576	GEN 0125 MS	€226	1"	125	212	127	32	371	80	2.4
GMSB 0175	€690	GEN 0175 MS	€243	1"	175	297	100	34	361	76	2.4
GMSB 0280	€803	GEN 0280 MS	€306	1 1/4"	280	476	122	42	417	76	5.4
GMSB 0325	€1,006	GEN 0325 MS	€306	1 1/2"	325	550	122	42	417	76	5.6
GMSB 0450	€1,127	GEN 0450 MS	€356	2"	450	765	146	52	429	76	5.6
GMSB 0700	€1,596	GEN 0700 MS	€514	2"	700	1190	146	52	732	76	6.2
GMSB 0850	€1,890	GEN 0850 MS	€674	2 1/2"	850	1445	210	66	526	76	11.6
GMSB 0900	€2,077	GEN 0900 MS	€674	3"	0900	1530	210	66	526	76	11.6
GMSB 1250	€2,417	GEN 1250 MS	€785	3"	1250	2125	210	66	749	76	12.6
GMSB 1500	€2,846	GEN 1500 MS	€981	3"	1500	2550	210	66	906	76	13.6

pressure correction factors

operating pressure (barg)	4	5	6	7	8	10	12	14	16
correction factor	0.76	0.84	0.92	1.00	1.07	1.19	1.31	1.41	1.51

(1) inlet and outlet connections are BSPP threaded to ISO 7/1

(2) at 7 barg. For all other pressures, refer to the pressure correction factor table above

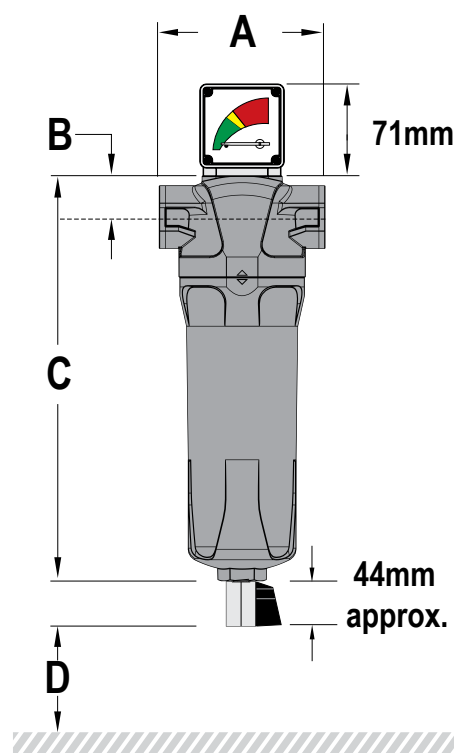
(3) as specified in HTM 02-01 medical gas pipeline systems

(4) applies to the element only

- refer to F¹ spares & accessories & ND condensate drain section for a complete list of accessories & drains

service guidelines - MS elements should be changed every 1000 hours or 6 months, whichever is sooner

- refer to user guide for full service details





spares + accessories

F1.1

for F^{1.1} filters

Use these spares and accessories to improve visibility and alarm indication for premature element blockage, improve condensate removal for high liquid load applications, save valuable purge air and simplify installation of your F¹ filters and separators.



differential pressure indicators + gauges

description	fits	part number	price
pop up differential pressure indicator	GFNB 0025 to 0050	GFDP 0050	€68
differential pressure gauge	GFNB 0070 to 1500	GFDP 1500	€138
3.5 psig differential volt free contact ⁽¹⁾	GFNB 0070 to 1500	GFDPPE 0250	€206
10 psig differential volt free contact ⁽¹⁾	GFNB 0070 to 1500	GFDPPE 0700	€206
15 psig differential volt free contact ⁽¹⁾	GFNB 0070 to 1500	GFDPPE 1000	€206



o-ring seal kits

description	fits	part number	price
GFNB housing o-ring seal kit	GFNB 0006 to 0015	GFSK 0015	€17
	GFNB 0025 to 0050	GFSK 0050	€17
	GFNB 0070 to 0175	GFSK 0175	€17
	GFNB 0280 to 0325	GFSK 0325	€18
	GFNB 0450 to 0700	GFSK 0700	€20
	GFNB 0850 to 1500	GFSK 1500	€29



connecting kits

description	fits	part number	price
GFNB connecting kit	GFNB 0006 to 0015	GFCK 0015	€22
	GFNB 0025 to 0050	GFCK 0050	€22
	GFNB 0070 to 0175	GFCK 0175	€25
	GFNB 0280 to 0325	GFCK 0325	€25
	GFNB 0450 to 0700	GFCK 0700	€28
	GFNB 0850 to 1500	GFCK 1500	€30
	GFNB 0006 to 0015	GFCK-3 0015	€28
	GFNB 0025 to 0050	GFCK-3 0050	€28
	GFNB 0070 to 0175	GFCK-3 0175	€30
	GFNB 0280 to 0325	GFCK-3 0325	€30
	GFNB 0450 to 0700	GFCK-3 0700	€34
	GFNB 0850 to 1500	GFCK-3 1500	€36
	GFNB 0006 to 0015	GFCK-4 0015	€34
	GFNB 0025 to 0050	GFCK-4 0050	€34
	GFNB 0070 to 0175	GFCK-4 0175	€37
	GFNB 0280 to 0325	GFCK-4 0325	€37
	GFNB 0450 to 0700	GFCK-4 0700	€41
	GFNB 0850 to 1500	GFCK-4 1500	€44

(1) does not include gauge

F1.1

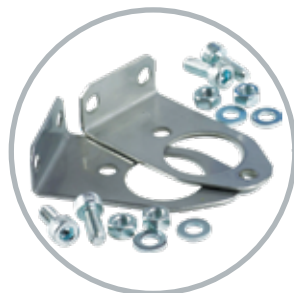
spares + accessories

for F1.1 filters

Use these spares and accessories to improve visibility and alarm indication for premature element blockage, improve condensate removal for high liquid load applications, save valuable purge air and simplify installation of your F1 filters and separators.



wall mounting kits



description	fits	part number	price
GNFB wall mounting kit	GFNB 0006 to 0015	GFMK 0015	€30
	GFNB 0025 to 0050	GFMK 0050	€30
	GFNB 0070 to 0175	GFMK 0175	€39
	GFNB 0280 to 0325	GFMK 0325	€39
	GFNB 0450 to 0700	GFMK 0700	€42
	GFNB 0850 to 1500	GFMK 1500	€52



internal condensate drains + adapters

description	fits	part number	price
automatic float drain with manual override	GFNB 0006 to 0050	GFDK 0050	€46
	GFNB 0070 to 1500	GFDK 1500	€56



sterilisable glass drain flasks

description	fits	part number	price
100 ml flask	NMV 0025 to 0085	MLF 100	€30
250 ml flask	NMV 0125 to 1500	MLF 250	€34
100 ml flask with polymer coating	NMV 0025 to 0085	MLA 100	€47
250 ml flask with polymer coating	NMV 0125 to 1500	MLA 250	€58

note: flask has 1/4" BSPP connection. Adapter may be required depending on model



alternative float drains

oem filter range	oem drain part number	nano drain part number	price
Parker domnick hunter			
OIL-X	60864 (60-500-6250)	DH60864	€49
Evolution	EF1	DHEF1	€51
Parker Zander			
Microfilter	ZK03	NFDK 0050	€46
GL	PD15NO	DHEF1	€51



replacement elements

F¹

for F1 filters

nano F¹ performance validated compressed air & gas elements are designed to meet and exceed industry air quality requirements. Filtration performance is tested and validated by an independent laboratory to ISO 12500 standards.

filter model	M1	M01	AC	DAC	element price	MS	element price	MV	element price
	part no.	part no.	part no.	part no.	€EUR	part no.	€EUR	part no.	€EUR
NFB 0008(grade)	E0008M1	E0008M01	E0008AC	-	€56	-	-	-	-
NFB 0015(grade)	E0015M1	E0015M01	E0015AC	-	€61	E0015 MS	€114	-	-
NFB 0025(grade)	E0025M1	E0025M01	E0025AC	-	€70	E0035 MS	€137	E0025 MV	€86
NFB 0035(grade)	E0035M1	E0035M01	E0035AC	-	€80	E0035 MS	€137	E0035 MV	€105
NFB 0050(grade)	E0050M1	E0050M01	E0050AC	-	€91	E0050 MS	€151	E0050 MV	€115
NFB 0070(grade)	E0090M1	E0090M01	E0090AC	-	€105	E0090 MS	€200	E0090 MV	€122
NFB 0085(grade)	E0090M1	E0090M01	E0090AC	-	€108	E0090 MS	€200	E0090 MV	€122
NFB 0090(grade)	E0090M1	E0090M01	E0090AC	-	€108	-	-	-	-
NFB 0125(grade)	E0135M1	E0135M01	E0135AC	-	€139	E0135 MS	-	E0135 MV	€153
NFB 0135(grade)	E0135M1	E0135M01	E0135AC	-	€139	E0135 MS	-	E0135 MV	€153
NFB 0175(grade)	E0175M1	E0175M01	E0175AC	-	€168	E0175 MS	€243	E0175 MV	€186
NFB 0280(grade)	E0325M1	E0325M01	E0325AC	-	€200	E0325 MS	€306	E0325 MV	€219
NFB 0290(grade)	E0325M1	E0325M01	E0325AC	-	€200	-	-	-	-
NFB 0325(grade)	E0325M1	E0325M01	E0325AC	-	€200	E0325 MS	€306	E0325 MV	€219
NFB 0400(grade)	E0450M1	E0450M01	E0450AC	-	€231	E0400 MS	€356	E0450 MV	€254
NFB 0450(grade)	E0450M1	E0450M01	E0450AC	-	€231	E0450 MS	€356	E0450 MV	€254
NFB 0700(grade)	E0700M1	E0700M01	E0700AC	-	€298	E0700 MS	€514	E0700 MV	€323
NFB 0850(grade)	E1000M1	E1000M01	E1000AC	-	€364	E0850 MS	€674	E1000 MV	€398
NFB 1000(grade)	E1000M1	E1000M01	E1000AC	-	€364	E1000 MS	€674	E1000 MV	€398
NFB 1250(grade)	E1250M1	E1250M01	E1250AC	-	€479	E1250 MS	€785	E1250 MV	€528
NFB 1500(grade)	E1500M1	E1500M01	E1500AC	-	€540	E1500 MS	€981	E1500 MV	€593
NFDB 0025 DAC	-	-	-	E0025M01 DAC	€70	-	-	-	-
NFDB 0035 DAC	-	-	-	E0035M01 DAC	€80	-	-	-	-
NFDB 0050 DAC	-	-	-	E0050M01 DAC	€97	-	-	-	-
NFDB 0070 DAC	-	-	-	E0085M01 DAC	€108	-	-	-	-
NFDB 0085 DAC	-	-	-	E0085M01 DAC	€108	-	-	-	-
NFDB 0125 DAC	-	-	-	E0135M01 DAC	€139	-	-	-	-
NFDB 0135 DAC	-	-	-	E0135M01 DAC	€139	-	-	-	-
NFDB 0175 DAC	-	-	-	E0175M01 DAC	€168	-	-	-	-

element performance	M1	M01	AC	DAC (M01 & AC)	MS	MV
maximum particle size (ISO Class) ⁽¹⁾	2	1	-	1	-	-
maximum oil content (ISO Class) ⁽¹⁾	2	2	1	1	-	-
particle removal (microns)	1	0.01	-	0.01	5	1
max oil carry over at 68°F (ppm or mg/m ³)	0.1	0.01	0.003	0.003	1	1
recommended operating temp range (°F)	1.6-80	1.6-80	1.6-25	1.6-25	1.6-100	1.6-100
design operating temperature range (°F)	1.6-80	1.6-80	1.6-50	1.6-50	1.6-175	1.6-120

(1) per ISO 8573.1:2010



Use these spares and accessories to improve visibility and alarm indication for premature element blockage, improve condensate removal for high liquid load applications, save valuable purge air and simplify installation of your F¹ filters and separators.

internal condensate drains + adapters

description	fits	part number	price
automatic float drain	NFB 0008 to 0050	NDK 0050	€46
with manual override	NFB 0070 to 1500	NDK 1500	€56
1/4" NPT drain adapter (plastic)	NFB 0070 to 1500	NAK 1P	€18
1/4" NPT drain adapter (brass)	NFB 0070 to 1500	NAK 1	€18

differential pressure indicators + gauges

description	fits	part number	price
pop up differential pressure indicator	NFB 0025 to 0050	NDP 0050	€68
differential pressure gauge	NFB 0070 to 1500	NDP 1500	€138
3.5 psig differential volt free contact ⁽¹⁾	NFB 0070 to 1500	NDPE 0250	€206
10 psig differential volt free contact ⁽¹⁾	NFB 0070 to 1500	NDPE 0700	€206
15 psig differential volt free contact ⁽¹⁾	NFB 0070 to 1500	NDPE 1000	€206

(1) does not include gauge

vacuum indicators + gauges

description	fits	part number	price
pop up vacuum indicator	NMV 0025 to 0050 NPP 0025 to 0050	NDV 50	€68
millibar vacuum gauge	NMV 0070 to 1500 NPP 0070 to 1500	NDV 1500	€138

sterilizable glass drain flasks

description	fits	part number	price
100 ml flask	NMV 0025 to 0050	MLF 100	€30
250 ml flask	NMV 0085 to 1500	MLF 250	€34
100 ml flask with polymer coating	NMV 0025 to 0085	MLA 100	€47
250 ml flask with polymer coating	NMV 0125 to 1500	MLA 250	€58

note: flask has 1/4" NPT connection. Adapter may be required depending on model

housing o-ring seal, connecting & wall mounting kits

housing o-ring seal kits			NF connecting kits		NF wall mounting kit	
fits	part number	price	part number	price	part number	price
NFB 0008 to 0015	NFSK 0015	€17	NFCK 0015	€22	NFMK 0015	€30
NFB 0025 to 0050	NFSK 0050	€17	NFCK 0050	€22	NFMK 0050	€30
NFB 0070 to 0175	NFSK 0175	€17	NFCK 0175	€25	NFMK 0175	€39
NFB 0280 to 0325	NFSK 0325	€18	NFCK 0325	€25	NFMK 0325	€39
NFB 0400 to 0700	NFSK 0700	€20	NFCK 0700	€28	NFMK 0700	€42
NFB 0850 to 1500	NFSK 1500	€29	NFCK 1500	€30	NFMK 1500	€52
NFDB 25 to 50	NFDSK 0050	€36	NFDCK 0050	€28	NFDMK 0050	€33
NFDB 70 to 175	NFDSK 0175	€39	NFDCK 0175	€33	NFDMK 0175	€42



mid pressure filters

160 to 3,200 Nm³/h

nano F³ mid pressure aluminum filters are rated for a maximum working pressure of 50 barg. Manufactured from machined or die cast aluminum, they are designed for higher pressure applications including pharmaceutical testing, packaging and PET processing.

filter model	filter price	replacement element	element price	inlet & outlet	rated flow ⁽¹⁾		dimensions (mm)				approx. weight
	€EUR	part no.	€EUR	BSPP	scfm	Nm ³ /h	A	B	C	D	kg
N50A 0094 (grade)	€289	E50HP 0094 (grade)	€100	¼"	94	160	64	15	150	51	0.6
N50A 0147 (grade)	€420	E50HP 0147 (grade)	€108	¾"	147	250	64	15	190	51	0.6
N50A 0265 (grade)	€645	E50HP 0265 (grade)	€131	½"	265	450	114	38	305	150	2.8
N50A 0324 (grade)	€849	E50HP 0324 (grade)	€168	¾"	324	550	114	38	305	150	2.8
N50A 0492 (grade)	€1,012	E50HP 0492 (grade)	€231	1"	492	835	114	38	396	150	3.4
N50A 0736 (grade)	€1,290	E50HP 0736 (grade)	€269	1½"	736	1250	147	51	434	170	7.4
N50A 1015 (grade)	€1,539	E50HP 1132 (grade)	€369	1½"	1015	1725	147	51	434	170	7.4
N50A 1132 (grade)	€1,672	E50HP 1132 (grade)	€369	2"	1132	1925	147	51	434	170	7.2
N50A 1882 (grade)	€1,910	E50HP 1882 (grade)	€485	2"	1882	3200	147	51	635	170	10

specifications

design operating pressure range	0 to 50 barg
condensate drain (included)	manual ball valve
filter housing material	machined & die cast aluminium

element performance

	M1	M01	AC ⁽²⁾
particle removal (microns)	1	0.01	-
max oil carry over at 20°C (ppm or mg/m ³)	0.1	0.01	0.003
recommended operating temp range (°C)	2 - 100	2 - 100	2 - 25
design operating temperature range (°C)	2 - 120	2 - 120	2 - 50

pressure correction factors

operating pressure (barg)	4	6	8	10	15	20	30	40	50
correction factor	0.14	0.22	0.28	0.34	0.47	0.56	0.70	0.85	1.00

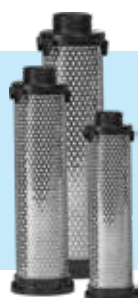
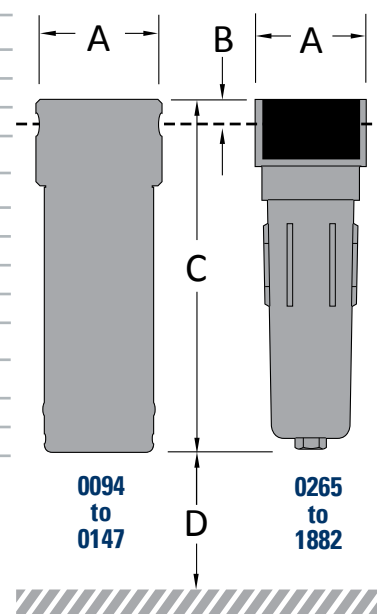
(1) at 50 barg. For all other pressures, refer to the pressure correction factor table above

(2) see below for important information regarding the use of activated carbon filters

- differential pressure indicator not included
- install with air flow from inside to outside for coalescing and from outside to inside for dry dust filtration
- refer to the ND condensate drain pages for a complete list of drain options

service guidelines

- M1 and M01 grade coalescing elements should be changed every year
- AC elements should be changed every 1000 hours or 6 months, whichever is sooner
- refer to user guide for full service details



Activated Carbon filters must always be installed immediately downstream of a M01 coalescing filter. They will not remove carbon monoxide (CO) or carbon dioxide (CO₂) and are not suitable for breathing air applications. The life of the element decreases as the inlet temperature increases. They are not recommended for temperatures above 25°C. As a maximum, activated carbon elements should be replaced every 1000 hours or 6 months, whichever is shorter.

F4

high pressure filters

48 to 3,400 Nm³/h



nano F4 high pressure stainless steel filters come in 50, 100 and 350 barg pressure ratings. Manufactured from high grade stainless steel, they are designed to exceed requirements for many high pressure applications including PET, offshore and instrumentation.

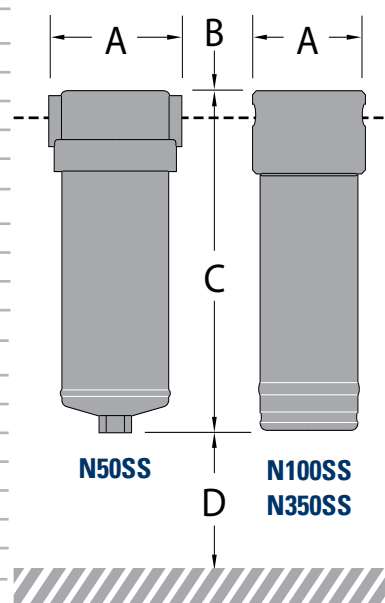
filter model	filter price	replacement element	element price	inlet & outlet	rated flow ⁽¹⁾		dimensions (mm)				approx. weight
	€EUR	part no.	€EUR	BSPP	scfm	Nm ³ /h	A	B	C	D	kg
N50SS (50 barg)											
N50SS 0060 (grade)	€723	E50SS 0060 (grade)	€89	¼"	60	100	85	18	170	75	1.7
N50SS 0120 (grade)	€815	E50SS 0120 (grade)	€111	⅜"	120	200	85	18	205	100	2
N50SS 0200 (grade)	€985	E50SS 0200 (grade)	€120	½"	200	340	85	18	205	100	2.2
N50SS 0300 (grade)	€1,418	E50SS 0300 (grade)	€160	¾"	300	500	113	27	269	150	4
N50SS 0600 (grade)	€1,571	E50SS 0600 (grade)	€211	1"	600	1000	113	27	419	300	5
N50SS 1000 (grade)	€2,389	E50SS 1000 (grade)	€235	1 ½"	1000	1700	150	45	526	300	15
N50SS 1200 (grade)	€2,707	E50SS 1200 (grade)	€235	2"	1200	2040	150	45	526	300	15
N50SS 2000 (grade)	€3,394	E50SS 2000 (grade)	€338	2"	2000	3400	150	45	826	500	21
N100SS (100 barg)											
N100SS 0060 (grade)	€788	E100SS 0060 (grade)	€150	¼"	60	100	65	20	135	70	3.2
N100SS 0185 (grade)	€1,178	E100SS 0185 (grade)	€179	½"	185	315	65	20	250	180	5.6
N100SS 0270 (grade)	€1,955	E100SS 0270 (grade)	€216	¾"	270	460	88	20	274	250	6.1
N100SS 0400 (grade)	€2,545	E100SS 0400 (grade)	€263	1"	400	680	132	26	264	250	10.5
N100SS 0700 (grade)	€2,802	E100SS 0700 (grade)	€305	1"	700	1200	132	26	480	300	14.7
N100SS 1000 (grade)	€3,733	E100SS 1000 (grade)	€337	1 ½"	1000	1700	150	45	526	300	22
N100SS 2000 (grade)	€4,656	E100SS 2000 (grade)	€458	2"	2000	3400	150	45	826	500	28
N350SS (350 barg)											
N350SS 0028 (grade)	€554	E350SS 0028 (grade)	€112	¼" NPT	28	48	41	10	103	60	1.6
N350SS 0067 (grade)	€1,171	E350SS 0067 (grade)	€151	¼"	67	111	65	20	135	70	3.2
N350SS 0150 (grade)	€2,241	E350SS 0150 (grade)	€182	½"	150	255	65	20	210	150	5.6
N350SS 0300 (grade)	€3,053	E350SS 0300 (grade)	€216	¾"	300	510	88	25	280	250	6.1
N350SS 0445 (grade)	€4,010	E350SS 0445 (grade)	€263	1"	445	750	150	35	330	200	14.3
N350SS 0775 (grade)	€4,714	E350SS 0775 (grade)	€305	1"	775	1330	150	35	480	300	17.4

element performance	M1	M01	AC ⁽²⁾
particle removal (microns)	1	0.01	-
max oil carry over at 20°C (ppm or mg/m ³)	0.1	0.01	0.003
recommended operating temp range (°C)	2 - 100	2 - 100	2 - 25
design operating temperature range (°C)	2 - 120	2 - 120	2 - 50

specifications	N50SS	N100SS	N350SS
design operating pressure range	0 to 50 barg	0 to 100 barg	0 to 350 barg
condensate drain (included)		manual ball valve	
housing material		316 stainless steel	

pressure correction factors

N50SS (50 barg)									
operating pressure (barg)	4	6	8	10	15	20	30	40	50
correction factor	0.14	0.22	0.28	0.34	0.47	0.56	0.70	0.85	1.00
N100SS (100 barg)									
operating pressure (barg)	20	30	40	50	60	70	80	90	100
correction factor	0.45	0.57	0.68	0.80	0.84	0.88	0.92	0.96	1.00
N350SS (350 barg)									
operating pressure (barg)	50	100	150	200	250	300	350		
correction factor	0.73	0.78	0.82	0.87	0.91	0.96	1.00		



(1) at 50, 100 or 350 barg as applicable. For all other pressures, refer to the pressure correction factor table above

(2) see page 12 for important information regarding the use of activated carbon filters

- install with air flow inside to outside for coalescing filtration and outside to inside for dry particulate filtration
- differential pressure indicator not included

service guidelines

- M1 and M01 grade coalescing elements should be changed every year
- AC elements should be changed every 1000 hours or 6 months, whichever is sooner
- refer to user guide for full service details



heatless modular

D¹|2

desiccant air dryers

The advanced design of the D¹ and D² heatless modular desiccant air dryers provide efficient clean dry air for a wide range of industrial applications. These dryers use the pressure swing adsorption principle in a modular design to dehydrate and purify your compressed air in a simple, compact package.

dryer model	dryer only	recommended pre filter ⁽³⁾	pre filter	inlet & outlet	rated flow ⁽²⁾		dimensions (mm)			approx. weight
	€EUR	part no.	€EUR	BSP	scfm	Nm ³ /h	A	B	C	kg
D¹										
NDL 010	€1,620	GFNB 0006 M01	€179	3/8" ⁽¹⁾	3	5.1	439	222	220	9.0
NDL 020	€1,730	GFNB 0006 M01	€179	3/8" ⁽¹⁾	5	8.5	439	222	220	9.0
NDL 030	€2,050	GFNB 0015 M01	€189	3/8" ⁽¹⁾	10	17	649	222	220	13.5
NDL 040	€2,280	GFNB 0015 M01	€189	3/8" ⁽¹⁾	15	26	899	330	280	18.5
NDL 050	€2,530	GFNB 0025 M01	€203	3/8" ⁽¹⁾	20	33	1199	330	280	25.5
D²										
NDL 060	€3,060	GFNB 0050 M01	€284	1"	34	58	743	426	283	47
NDL 070	€3,795	GFNB 0050 M01	€284	1"	41	70	743	426	283	47
NDL 080	€4,035	GFNB 0070 M01	€359	1"	53	90	923	426	283	58
NDL 090	€4,670	GFNB 0070 M01	€359	1"	66	112	923	426	283	58
NDL 100	€5,570	GFNB 0105 M01	€414	1"	88	150	1098	426	283	71
NDL 110	€6,320	GFNB 0125 M01	€540	1"	106	180	1248	426	283	83
NDL 120	€7,240	GFNB 0175 M01	€540	1"	132	224	1498	426	283	96
NDL 130	€8,110	GFNB 0175 M01	€599	1"	177	301	1848	426	283	118

specifications	standard	optional
maximum water content (ISO class) ⁽⁴⁾	class 2 (-40°C pdp)	class 1 (-70°C)
minimum operating pressure	4 barg	-
maximum operating pressure	16 barg	-
recommended operating temp range	1.5 to 35°C	-
design operating temperature range	1.5 to 50°C	-
power supply requirements	85 to 264V AC 50/60 Hz	24V DC
power rating	25W (D ¹) 35W (D ²)	-

pressure correction factors ⁽⁵⁾												
inlet air pressure (barg)	4	5	6	7	8	9	10	11	12	13	14	16
correction factor	0.63	0.75	0.88	1.00	1.13	1.25	1.38	1.50	1.63	1.75	1.88	2.13

temperature correction factors ⁽⁵⁾						
inlet air temperature (°C)	25	30	35	40	45	50
correction factor	1.00	0.98	0.95	0.9	0.8	0.7

- (1) NDL 010 to 050 have push to connect fittings on the inlet and outlet. All other models have BSP threaded connections
- (2) at an inlet conditions of 7 barg and 25°C and a -40°C outlet pressure dew point. For all other conditions refer to the correction factors above
- (3) recommended for all applications. Required when dryer is to be installed immediately downstream of an oil lubricated compressor.
- (4) per ISO 8573.1:2010
- (5) to be used as a rough guide only. All applications should be confirmed by n-psi. Contact sales@n-psi.co.uk

service guidelines

- desiccant cartridges should be changed every 2 years
- valves should be changed every 4 years
- dew point sensors should be serviced every 1 year (optional)
- refer to user guide for full service details



D¹/2

heatless modular

low dew point desiccant air dryers

The advanced design of the D¹ and D² low dew point heatless modular desiccant air dryers provide efficient clean dry air for a wide range of industrial applications when a dew point of -70°C is required. These dryers use the pressure swing adsorption principle in a modular design to dehydrate and purify your compressed air in a simple, compact package.



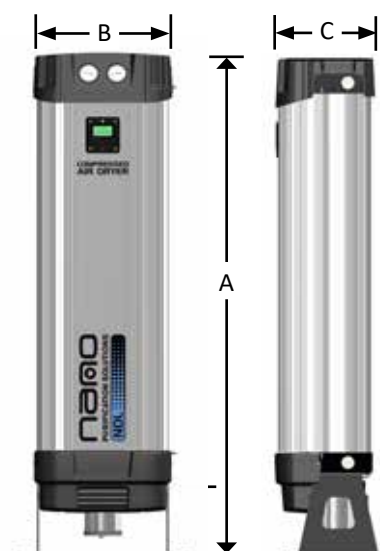
dryer model	dryer only	stage 1 pre filter ⁽³⁾	stage 2 pre filter ⁽³⁾	after filter ⁽³⁾	filter	inlet & outlet	rated flow ⁽²⁾		dimensions (mm)			approx. weight
	€EUR	model	model	model	€EUR	BSPP ⁽¹⁾	scfm	Nm ³ /h	A	B	C	kg
D¹												
NDL 010 LDP	€1,900	GFNB 0006 M1	GFNB 0008 M01	GFNB 0008 RM1	€179	3/8" ⁽¹⁾	2.1	3.5	439	222	220	9.0
NDL 020 LDP	€2,005	GFNB 0008 M1	GFNB 0008 M01	GFNB 0008 RM1	€179	3/8" ⁽¹⁾	3.5	5.9	439	222	220	9.0
NDL 030 LDP	€2,325	GFNB 0015 M1	GFNB 0015 M01	GFNB 0015 RM1	€189	3/8" ⁽¹⁾	7	11.9	649	222	220	13.5
NDL 040 LDP	€2,555	GFNB 0015 M1	GFNB 0015 M01	GFNB 0015 RM1	€189	3/8" ⁽¹⁾	10	18.2	899	330	280	18.5
NDL 050 LDP	€2,820	GFNB 0025 M1	GFNB 0025 M01	GFNB 0025 RM1	€203	3/8" ⁽¹⁾	14	29	1199	330	280	25.5
D²												
NDL 060 LDP	€3,335	GFNB 0050 M1	GFNB 0050 M01	GFNB 0050 RM1	€284	1"	23	40	743	426	283	47
NDL 070 LDP	€4,065	GFNB 0050 M1	GFNB 0050 M01	GFNB 0050 RM1	€284	1"	28	49	743	426	283	47
NDL 080 LDP	€4,305	GFNB 0070 M1	GFNB 0070 M01	GFNB 0070 RM1	€359	1"	37	63	923	426	283	58
NDL 090 LDP	€4,940	GFNB 0070 M1	GFNB 0070 M01	GFNB 0070 RM1	€359	1"	46	78	923	426	283	58
NDL 100 LDP	€6,500	GFNB 0105 M1	GFNB 0105 M01	GFNB 0105 RM1	€414	1"	61	105	1098	426	283	71
NDL 110 LDP	€7,245	GFNB 0125 M1	GFNB 0125 M01	GFNB 0125 RM1	€540	1"	74	126	1248	426	283	83
NDL 120 LDP	€8,170	GFNB 0175 M1	GFNB 0175 M01	GFNB 0175 RM1	€540	1"	92	157	1498	426	283	96
NDL 130 LDP	€9,045	GFNB 0175 M1	GFNB 0175 M01	GFNB 0175 RM1	€599	1"	124	210	1848	426	283	118

specifications	standard	optional
maximum water content (ISO class) ⁽⁴⁾	class 1 (-70°C pdp)	class 2 (-40°C)
minimum operating pressure	6 barg	-
maximum operating pressure	16 barg ⁽⁵⁾	-
recommended operating temp range	1.5°C to 30°C	-
design operating temperature range	1.5°C to 30°C	-
power supply requirements	85 to 264V AC, 50/60Hz	24V DC
power rating	25W (D ¹) 35W (D ²)	-

pressure correction factors ⁽⁵⁾												
inlet air pressure (barg)	4	5	6	7	8	9	10	11	12	13	14	16
correction factor	0.63	0.75	0.88	1.00	1.13	1.25	1.38	1.50	1.63	1.75	1.88	2.13

temperature correction factors ⁽⁵⁾		
inlet air temperature (°C)	25	30
correction factor	1.00	0.96

- (1) NDL 010 to 050 have push to connect fittings on the inlet and outlet. All other models have BSPP threaded connections
- (2) at an inlet conditions of 7 barg and 20°C and a -70°C outlet pressure dew point. For all other conditions refer to the correction factors above
- (3) recommended filtration: M1 & M01 grade pre filters with timer drains and a 1 micron after dust filter built into D¹/D² cartridge.
- (4) per ISO 8573.1:2010
- (5) to be used as a rough guide only. All applications should be confirmed by nano. Contact sales@n-psi.co.uk
- (6) once the unit is online it has to run continuously to achieve and maintain the low dew point





options + service kits

D¹|2

for D¹ & D² heatless modular dryers

Customise and maintain your D¹ & D² dryers with these innovative options and service kits. Choose from energy saving dew point dryer controller or low outlet dew point options. The convenient service kits make maintaining and servicing your dryer fast, easy and cost effective.

options

part no	description	fits	list price
NMK 030	D ¹ brackets	NDL 010 to 050	€70
NMK 130	D ² brackets	NDL 060 to 130	€55
NMK 050	mounting kit	NDL 010 to 050	€75
NMK 131	wall mounting brackets (D ²)	NDL 060 to 130	€145
ES ⁽¹⁾	energy saving outlet dew point control & display	all models	€2,445
EBK2	D ² exhaust blanking kit	NDL 060 to 130	€175

(1) add this suffix to the dryer model number when ordering

desiccant

description	fits	serial no.*	desiccant cartridges	
			part no.	list price
D ¹ desiccant cartridge service kits includes: - desiccant cartridges with outlet filtration - valve balls - O-rings - gasket seals	NDM 005**	all	NMK 005	€330
	NDL 010	all	NDK 010	€350
	NDL 020	all	NDK 020	€360
	NDL 030	all	NDK 030	€465
	NDL 040	all	NDK 040	€530
	NDL 050	all	NDK 050	€635
	NDL 060	all	NDK 060	€795
D ² desiccant cartridge service kits includes: - desiccant cartridges with outlet filtration - O-rings - gasket seals	NDL 070	all	NDK 070	€965
	NDL 080	all	NDK 080	€1,025
	NDL 090	all	NDK 090	€1,180
	NDL 100	all	NDK 100	€1,400
	NDL 110	all	NDK 110	€1,630
	NDL 120	all	NDK 120	€1,870
	NDL 130	all	NDK 130	€2,130

desiccant - low dew point (LDP)

description	fits	serial no.*	desiccant cartridges	
			part no.	list price
D ¹ low dew point desiccant cartridge service kits includes: - desiccant cartridges with outlet filtration - valve balls - O-rings - gasket seals	NDL 010 LDP	all	NDK 010 LDP	€630
	NDL 020 LDP	all	NDK 020 LDP	€640
	NDL 030 LDP	all	NDK 030 LDP	€745
	NDL 040 LDP	all	NDK 040 LDP	€810
	NDL 050 LDP	all	NDK 050 LDP	€910
	NDL 060 LDP	all	NDK 060 LDP	€1,075
	NDL 070 LDP	all	NDK 070 LDP	€1,250
D ² desiccant cartridge service kits includes: - desiccant cartridges with outlet filtration - O-rings - gasket seals	NDL 080 LDP	all	NDK 080 LDP	€1,305
	NDL 090 LDP	all	NDK 090 LDP	€1,475
	NDL 100 LDP	all	NDK 100 LDP	€2,355
	NDL 110 LDP	all	NDK 110 LDP	€2,595
	NDL 120 LDP	all	NDK 120 LDP	€2,830
	NDL 130 LDP	all	NDK 130 LDP	€3,085

desiccant - bulk

part no	description	fits	list price
AA	AA - activated alumina	all	€12
13X	13X - molecular sieve	all	€23
4A	4A - molecular sieve	all	€21
RKA-20-AA	20 kg bucket - activated alumina	all	€220
RKA-20-13X	20 kg bucket - molecular sieve	all	€460
RKA-20-4A	20 kg bucket - molecular sieve	all	€415

* please check serial number to ensure the correct kit/part selection. See page 22 for details

** for replacement cartridges for NDM 010 to NDM 040 modules on page 29, please order NMK replacement cartridges at the same price as above

D¹|2

options + service kits

for D¹ & D² heatless modular dryers

Customise and maintain your D¹ & D² dryers with these innovative options and service kits. Choose from energy saving dew point dryer control, pneumatic controls or a low outlet dew point option. The convenient service kits make maintaining and servicing your dryer fast, easy and cost effective.



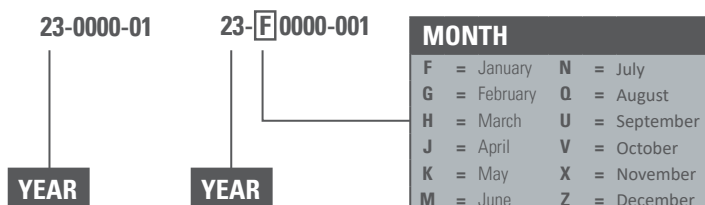
service kits

description	fits	part no.	model type	list price
silencer strip	NDL 010 to 020	ESK 020	all	€90
	NDL 030	ESK 030	all	€115
	NDL 040	ESK 040	all	€130
	NDL 050	ESK 050	all	€170
complete valve rebuild kit (includes valve kits shown below)	NDL 010 to 050	NVK 050 024	all	€400
	NDL 060 to 090	NVK 090 024	MK1	€560
	NDL 060 to 100	NOKO 100 024	MK2	€805
	NDL 100 to 130	NVK 130 024	MK0	€900
	NDL 100 to 130	NVK 131 024	MK1	€955
	NDL 110 to 130	NOKO 130-024	MK2	€915
inlet valve kit (2 valves & coils when applicable)	NDL 060 to 090	IVKO 100 024 (supersedes IVK 090)	MK1	€400
	NDL 060 to 100	IVKO 100 024	MK2	€400
	NDL 100 to 130	IVK 130	MK1	€460
	NDL 110 to 130	IVKO 130 024	MK2	€635
exhaust valve kit (2 valves & coils)	NDL 060 to 130	EVKC 130 024 (supersedes by EVK 130)	all	€400
check valve seal kit (seals only)	NDL 060 to 130	OVS 130	all	€75
check valve kit (complete check valve kit)	NDL 060 to 130	CVK 130	MK1	€365
check valve kit (complete check valve kit)	NDL 060 to 130	OVK 130	MK2	€400
pilot valve kit (2 valves)	NDL 100 to 130	PVK 130	MK0	€810
	NDL 100 to 130	PVK 131	MK1	€810
ES option service kit (replacement dew point probe)	-40°C ES option	NSK 130	all	€2,445
	-70°C ES option	NSK 130 LDP	all	€2,445
exhaust silencer kit	NDL 060 to 130	ESK2 NDL	MK1	€635
	NDL 060 to 130	ESK 130	MK2	€125
internal ball valve & seal kit	NDL 010 to 050	RBK 050	all	€85

individual service parts

description	fits	part no.	model type	list price
replacement solenoid coils 24V DC (2 coils)	NDL 010 to 130	RCK 024	all	€220
replacement inlet valve only (2 valves)	NDL 060 to 090	IVKO 100	all	€400
	NDL 100	IVKO 100	MK2	€400
	NDL 110 to 130	IVKO 130	MK2	€635
replacement exhaust valve only (2 valves)	NDL 060 to 130	EVKC 130	all	€400
		RBK 050	all	€85

*please check serial number/model type to ensure the correct kit/part selection





heatless modular

D³

desiccant air dryers

The advanced design of the D³ modular desiccant air dryer provides efficient and effective clean dry air for a wide range of industrial applications. These dryers use the pressure swing adsorption principle in a multiple tower design to dehydrate and purify your compressed air in a simple, compact package.

dryer model	dryer only	recommended pre filter ⁽²⁾	pre filter	inlet & outlet ⁽⁵⁾	rated flow ⁽¹⁾		dimensions (mm)			approx. weight
	€EUR	part no.	€EUR	BSPP	scfm	Nm ³ /h	A	B	C	kg
NDL 2110	€12,920	GFNB 0280 M01	€697	2"	212	360	1283	400	680	97
NDL 2120	€14,075	GFNB 0280 M01	€697	2"	276	469	1533	400	680	179
NDL 2130	€16,380	GFNB 0450 M01	€899	2"	400	680	1883	400	680	261
NDL 3130	€23,125	GFNB 0700 M01	€1,388	2"	560	951	1883	400	849	249
NDL 4130	€26,020	GFNB 0850 M01	€1,646	2 ½"	750	1274	1883	400	1017	331
NDL 6120	€28,705	GFNB 0850 M01	€1,646	2 ½"	828	1407	1533	400	1352	439
NDL 6130	€31,365	GFNB 1250 M01	€2,100	2 ½"	1110	1886	1883	400	1352	623

specifications	standard	optional
maximum water content (ISO class) ⁽³⁾	class 2 (-40°C pdp)	class 1 (-70°C)
minimum operating pressure	4 barg	-
maximum operating pressure	10 barg	16 barg
recommended operating temp range	1.5 to 35°C	-
design operating temperature range	1.5 to 50°C	-
power supply requirements	85 to 264V AC, 50/60Hz	24 V DC
power rating	35W	-

pressure correction factors ⁽⁴⁾							
inlet air pressure (barg)	4	5	6	7	8	9	10
correction factor	0.63	0.75	0.88	1.00	1.13	1.25	1.38

temperature correction factors ⁽⁴⁾					
inlet air temperature (°C)	25	35	40	45	50
correction factor	1.00	0.96	0.96	0.88	0.73

(1) at an inlet conditions of 7 barg and 25°C and a -40°C outlet pressure dew point. For all other conditions refer to the correction factors above

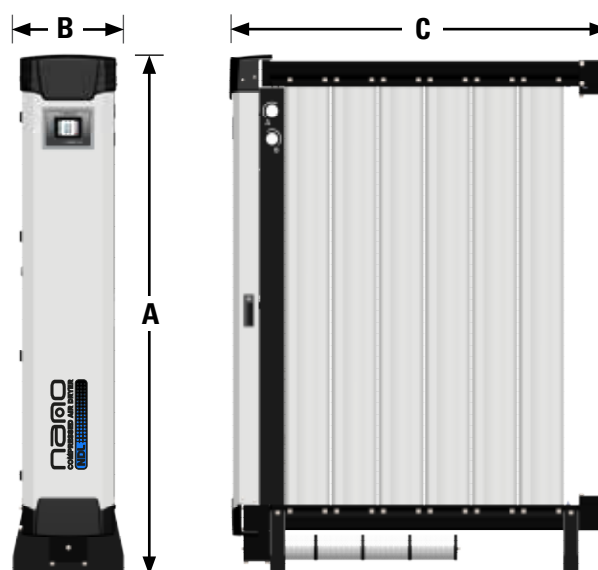
(2) recommended for all applications. Required when dryer is to be installed immediately downstream of an oil lubricated compressor

(3) per ISO 8573.1:2010

(4) to be used as a rough guide only. All applications should be confirmed by n-psi. Contact sales@n-psi.co.uk

(5) filter port size may differ from dryer port size

- service guidelines**
- desiccant should be changed every 2 years
 - valves should be changed every 4 years
 - dew point meters should be serviced every 1 year (optional)
 - refer to user guide for full service details



D³

heatless modular

low dew point desiccant air dryers

The advanced design of the D³ modular desiccant air dryer provides efficient and effective clean dry air for a wide range of industrial applications when a dew point of -70°C is required. These dryers use the pressure swing adsorption principle in a multiple tower design to dehydrate and purify your compressed air in a simple, compact package.



dryer model	dryer only	stage 1 pre filter ⁽²⁾	stage 2 pre filter ⁽²⁾	after filter ⁽²⁾	filter	inlet & outlet	rated flow ⁽¹⁾		dimensions (mm)			approx. weight
	€EUR	model	model	model	€EUR	BSPP	scfm	Nm ³ /h	A	B	C	kg
NDL 2110 LDP	€14,350	GFNB 0280 M1	GFNB 0280 M01	GFNB 0280 RM1	€697	2"	148	252	1283	400	680	97
NDL 2120 LDP	€15,495	GFNB 0280 M1	GFNB 0280 M01	GFNB 0280 RM1	€697	2"	193	328	1533	400	680	179
NDL 2130 LDP	€17,810	GFNB 0450 M1	GFNB 0450 M01	GFNB 0450 RM1	€899	2"	280	476	1883	400	680	261
NDL 3130 LDP	€24,560	GFNB 0700 M1	GFNB 0700 M01	GFNB 0700 RM1	€1,388	2"	392	666	1883	400	849	249
NDL 4130 LDP	€27,935	GFNB 0850 M1	GFNB 0850 M01	GFNB 0850 RM1	€1,646	2 ½"	525	892	1883	400	1017	331
NDL 6120 LDP	€30,610	GFNB 0850 M1	GFNB 0850 M01	GFNB 0850 RM1	€1,646	2 ½"	580	985	1533	400	1352	439
NDL 6130 LDP	€33,280	GFNB 1250 M1	GFNB 1250 M01	GFNB 1250 RM1	€2,100	2 ½"	777	1320	1883	400	1352	623

specifications	standard	optional
maximum particle size (ISO class) ⁽³⁾	class 2 (1 micron)	class 1 (0.01 micron)
maximum water content (ISO class) ⁽³⁾	class 1 (-70°C pdp)	class 2 (-40°C)
minimum operating pressure	6 barg	-
maximum operating pressure	10 barg ⁽⁴⁾	consult factory
recommended operating temp range	2 to 30°C	-
design operating temperature range	2 to 30°C	-
power supply requirements	85 to 264V AC, 50/60Hz	24V DC
power rating	35W	

pressure correction factors ⁽⁴⁾							
inlet air pressure (barg)	4	5	6	7	8	9	10
correction factor	0.63	0.75	0.88	1.00	1.13	1.25	1.38

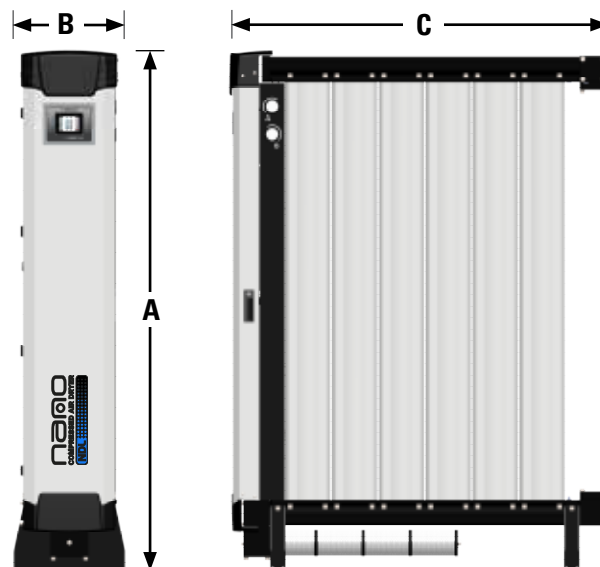
temperature correction factors ⁽⁴⁾		
inlet air temperature (°C)	25	30
correction factor	1.00	0.96

(1) at an inlet conditions of 7 barg and 20°C and a -70°C outlet pressure dew point. For all other conditions refer to the correction factors above

(2) recommended filtration: M1 & M01 grade pre filter and RM1 grade after filter

(3) per ISO 8573.1:2010

(4) to be used as a rough guide only. All applications should be confirmed by nano. Contact sales@n-psi.co.uk





options + service kits

D³

for D³ heatless modular dryers

Customise and maintain your D³ dryers with these innovative options and service kits. Choose from energy saving dew point dryer control, pneumatic controls or a low outlet dew point option.

The convenient service kits make maintaining and servicing your dryer fast, easy and cost effective.

options



suffix ⁽¹⁾	description	fits	list price
ES	energy saving outlet dew point control & display	all models	€3,155
HP	16 barg upgrade	all models	€1,730
HMI	communications pack	all models	€745

(1) add this suffix to the dryer model number when ordering

desiccant



description	fits	desiccant	
		part no.	list price
D ³ desiccant	NDL 2110	RKA 110-2	€1,100
	NDL 2120	RKA 120-2	€1,165
	NDL 2130	RKA 130-2	€1,330
	NDL 3130	RKA 130-3	€1,915
	NDL 4130	RKA 130-4	€2,465
	NDL 6120	RKA 120-6	€2,670
	NDL 6130	RKA 130-6	€3,400
integrated filter service kit	all models	NDK 2130	€70
column diffuser kit	all models	NDK 2131	€100
replacement AA desiccant kit – 110 size	AA option	RKA 110	€550
replacement AA desiccant kit – 120 size	AA option	RKA 120	€580
replacement AA desiccant kit – 130 size	AA option	RKA 130	€665

desiccant - low dew point (LDP)



description	fits	desiccant	
		part no.	list price
D ³ desiccant	NDL 2110 LDP	RKA 110-2 LDP	€2,205
	NDL 2120 LDP	RKA 120-2 LDP	€2,265
	NDL 2130 LDP	RKA 130-2 LDP	€2,435
	NDL 3130 LDP	RKA 130-3 LDP	€3,010
	NDL 4130 LDP	RKA 130-4 LDP	€4,375
	NDL 6120 LDP	RKA 120-6 LDP	€5,130
	NDL 6130 LDP	RKA 130-6 LDP	€5,865

service kits



description	fits	part no.	list price
complete valve rebuild kit (includes all 4 valve kits below)	all models	NVKO 6130	€1,895
inlet valve kit (2 valves)	all models	NVK D32	€410
exhaust valve kit (2 valves)	all models	NVK D32	€410
pilot valve kit (4 valve block)	all models	PVK O 6130	€880
outlet valve kit (2 valves)	all models	NVK D31	€410
replacement exhaust silencers (MK1)	all models	ESK3 NDL	€450
ES option service kit (replacement dew point probe)	ES option	NSK 130	€3,155
replacement exhaust silencers (MK2)	NDL2110	ESK - 3130	€250
	NDL2120		
	NDL2130		
	NDL3130	ESK - 6120	€375
	NDL4130		
	NDL6120		
	NDL6130	ESK - 6130	€500

D²/3 pneumatic heatless modular

dessicant air dryer

The advanced design of the D² & D³ modular heatless dryers provides a perfect platform for full pneumatic control of the pressure swing adoption technology. This compact and versatile solution will satisfy all intrinsically safe applications.

NEW



unique design

- pneumatically-controlled to operate safely and efficiently in the most challenging environments
- delivers compressed air purity in accordance with ISO 8573.1:2010, Class 2 particulate (1 micron) and Class 2 water
- (-40°C pdp) with pneumatic controls
- quiet depressurisation from unique exhaust air silencers significantly reduces noise levels
- 100% tested for leaks, proper operation and dew point performance

optimum flexibility

- designed for use in locations where intrinsically safe controls are necessary or remote locations where power is either limited or unavailable
- compact design allows installation in spaces too small for a traditional dryer

easy to maintain

- convenient service kits for easy and efficient maintenance
- features lower life cycle costs, low energy costs and simplified maintenance

applications

- oil & gas rigs
- land-based drilling rigs
- lumber mills
- critical areas



NEW



pneumatic heatless modular

D²/3

desiccant air dryers

The advanced design of the D² & D³ modular heater dryers provides a perfect platform for full pneumatic control of the pressure swing adoption technology. This compact and versatile solution will satisfy all intrinsically safe applications.

dryer model	dryer only	recommended pre filter ⁽³⁾	pre filter	inlet & outlet	rated flow ⁽²⁾		dimensions (mm)			approx. weight
	€EUR	part no.	€EUR	BSPP	scfm	Nm ³ /h	A	B	C	kg
D²										
NDM 060 PNU	€8,565	GFNB 0050 M01	€284	1"	34	58	735	426	316	44
NDM 070 PNU	€9,305	GFNB 0050 M01	€284	1"	41	70	735	426	316	44
NDM 080 PNU	€9,540	GFNB 0070 M01	€359	1"	53	90	915	426	316	54
NDM 090 PNU	€10,175	GFNB 0070 M01	€359	1"	66	112	915	426	316	54
NDM 100 PNU	€11,075	GFNB 0105 M01	€414	1"	88	150	1090	426	316	64
NDM 110 PNU	€11,825	GFNB 0125 M01	€540	1"	106	180	1240	426	316	77
NDM 120 PNU	€12,750	GFNB 0175 M01	€540	1"	132	224	1490	426	316	89
NDM 130 PNU	€13,625	GFNB 0175 M01	€599	1"	177	301	1840	426	316	109
D³										
NDM 2110 PNU	€18,435	GFNB 0280 M01	€697	2"	212	360	1249	400	651	97
NDM 2120 PNU	€19,585	GFNB 0280 M01	€697	2"	276	469	1499	400	651	179
NDM 2130 PNU	€21,885	GFNB 0450 M01	€899	2"	400	680	1849	400	651	261
NDM 3130 PNU	€28,630	GFNB 0700 M01	€1,388	2"	560	951	1849	400	819	249
NDM 4130 PNU	€31,535	GFNB 0850 M01	€1,646	2 ½"	750	1274	1849	400	987	331
NDM 6120 PNU	€34,210	GFNB 0850 M01	€1,646	2 ½"	828	1407	1499	400	1323	439
NDM 6130 PNU	€36,880	GFNB 1250 M01	€2,100	2 ½"	1110	1886	1849	400	1323	623

specifications	standard	optional
maximum water content (ISO class) ⁽⁴⁾	class 2 (-40°C pdp)	class 1 (-70°C)
minimum operating pressure	16 barg	-
maximum operating pressure (D ²)	16 barg	-
maximum operating pressure (D ³)	16 barg	-
recommended operating temp range	1.5 to 35°C	-
design operating temperature range	1.5 to 50°C	-

pressure correction factors ⁽⁵⁾

inlet air pressure (barg)	4	5	6	7	8	9	10	11	12	13	14	16
correction factor	0.63	0.75	0.88	1.00	1.13	1.25	1.38	1.50	1.63	1.75	1.88	2.13

temperature correction factors ⁽⁵⁾

inlet air temperature (°C)	25	35	40	45	50
correction factor	1.00	0.96	0.96	0.88	0.73

(1) All models have BSPP threaded connections

(2) at an inlet conditions of 7 barg and 25°C and a -40°C outlet pressure dew point. For all other conditions refer to the correction factors above

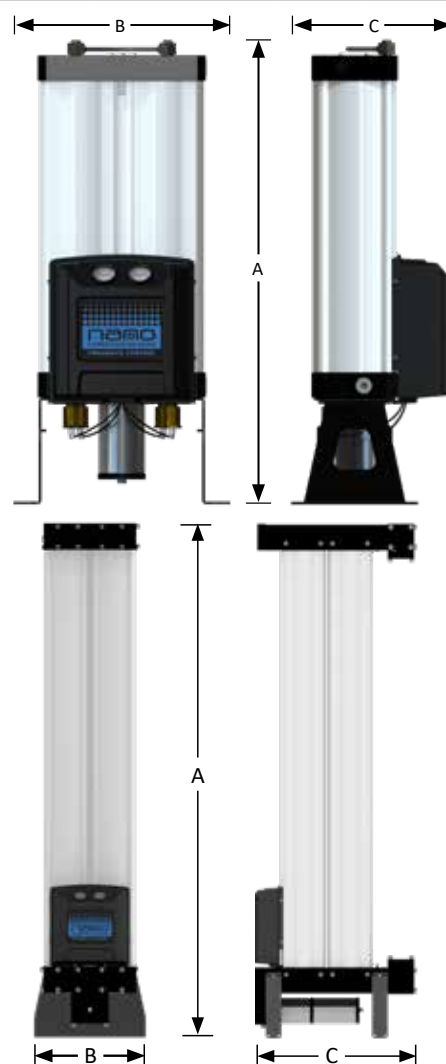
(3) recommended for all applications. Required when dryer is to be installed immediately downstream of an oil lubricated compressor.

(4) per ISO 8573.1:2010

(5) to be used as a rough guide only. All applications should be confirmed by n-psi. Contact sales@n-psi.co.uk

service guidelines

- desiccant cartridges should be changed every 2 years
- valves should be changed every 4 years
- refer to user guide for full service details



D¹|2 adsorption dryer OEM modules

nano M¹ range of dryer and purification modules is perfect for incorporation into compressor and engineered systems. Heatless absorption dryer, breathing air and CO₂ removal versions are all available.



dryer model	module price	inlet & outlet	rated flow ⁽¹⁾		dimensions (mm)			approx. weight
	€EUR	BSPP ⁽²⁾	scfm	Nm ³ /h	A	B	C	kg
D¹ heatless desiccant air dryer								
NDM 005	€1000	3/8"	2	3.4	319	161	97	4.1
NDM 010	€1,060	3/8"	3	5.1	419	161	97	8.3
NDM 020	€1,125	3/8"	5	8.5	419	161	97	8.3
NDM 030	€1,330	3/8"	10	17	629	161	97	12.8
NDM 040	€1,480	3/8"	15	26	869	161	97	16.4
NDM 050	€1,645	3/8"	24	41	1169	161	97	19.3
Controller	€375							
Legs	€50							
D² heatless desiccant air dryer								
NDM 060	€2,085	1"	34	58	736	426	250	42
NDM 070	€2,625	1"	41	70	736	426	250	42
NDM 080	€2,790	1"	53	90	916	426	250	51
NDM 090	€3,255	1"	66	112	916	426	250	51
NDM 100	€3,890	1"	88	150	1091	426	250	62
NDM 110	€4,435	1"	106	180	1241	426	250	74
NDM 120	€5,100	1"	132	224	1491	426	250	85
NDM 130	€5,725	1"	177	301	1841	426	250	105
Controller	€695							
Legs	€90							

model	module price	inlet & outlet	inlet flow		outlet flow		dimensions (mm)			approx. weight
	€EUR	BSPP ⁽²⁾	ft ³ /h	l/min	ft ³ /h	l/min	A	B	C	kg
L¹ CO₂ removal system										
NDCM 015	€1,250	3/8"	5.3	2.5	3.2	1.5	419	161	97	8.3
NDCM 050	€1,295	3/8"	17.6	8.3	10.6	5.0	419	161	97	8.3
NDCM 140	€1,325	3/8"	53	25	32	15	419	161	97	8.3
NDCM 300	€1,590	3/8"	106	50	64	30	629	161	97	13
NDCM 600	€2,190	3/8"	212	100	127	60	1169	161	97	19
NDCM 900	€3,075	1"	318	150	191	90	736	426	250	42
NDCM 1200	€4,005	1"	424	200	254	120	736	426	250	42

model	module price	inlet & outlet	inlet flow		outlet flow		dimensions (mm)			approx. weight
	€EUR	BSPP ⁽²⁾	scfm	Nm ³ /h	scfm	Nm ³ /h	A	B	C	kg
B¹ breathing air purification system										
NBAM 030	€2,825	3/8"	8	13	6	10	629	161	97	13
NBAM 040	€3,140	3/8"	12	20	9	15	869	161	97	16
NBAM 050	€3,495	3/8"	19	32	14	24	1169	161	97	19
NBAM 070	€4,150	1"	35	59	26	44	736	426	250	42
NBAM 090	€4,970	1"	56	93	42	70	916	426	250	51
NBAM 110	€8,330	1"	89	148	66	110	1241	426	250	74
NBAM 120	€10,700	1"	110	183	83	138	1491	426	250	85



technical + performance

D¹/2

nano M¹ range of dryer and purification modules has a very high standard specification, and with the alternative options that are available, they can be tailored for the most demanding of applications.

specifications	standard	optional
D¹ + D² heatless desiccant air dryers		
maximum water content (ISO class) ⁽³⁾	class 2 (-40°C pdp)	class 1 (-70°C)
minimum operating pressure	4 barg	-
maximum operating pressure	16 barg	-
recommended operating temp range	1.5 to 35°C	-
design operating temperature range	1.5 to 50°C	-
power supply requirements	24V DC, 110V AC & 230V AC	-
L¹ CO₂ removal system		
design operating pressure range	4 to 10 barg	-
recommended operating temperature range	1.5 to 20°C	-
power supply requirements	24V DC, 110V AC & 230V AC	-
maximum noise level (during purge)	60 dBA ⁽⁴⁾	-
performance		
maximum CO ₂ content	1 ppm	-
maximum pressure dew point	-70°C	-
maximum particulate size	1 micron	0.01 micron
maximum oil content	-	0.003 ppm
B¹ breathing air purification system		
operating pressure range	6 to 16 barg	-
recommended operating temp range	1.5 to 30°C	-
recommended air inlet quality	class 4	-
design operating temperature range	1.5 to 50°C	-
power supply requirements	24V DC, 110V AC & 230V AC	-
performance ⁽⁸⁾		
maximum water content	-30°C (pdp)	-
maximum oil content	0.01 mg/m ³	-
odour + taste	none	-
O ₂ range	21% ± 1%	-
maximum CO content	< 5 ppm	-
maximum CO ₂ content	<500 ppm	-

pressure correction factors															
inlet air pressure (barg)	4	5	6	7	8	9	10	11	12	13	14	16			
correction factor	0.63	0.75	0.88	1.00	1.13	1.25	1.38	1.50	1.63	1.75	1.88	2.13			

temperature correction factors					
inlet air temperature (°C)	25	35	40	45	50
correction factor	1.00	0.96	0.96	0.88	0.73

(1) at inlet conditions of 7 barg and 25°C for dryers only. For all other conditions contact sales@n-psi.co.uk for sizing assistance

(2) all 3/8" BSPP connections are supplied with PTC fittings

(3) per ISO 8573.1:2010

(4) NDCM 900 to 1200 - noise level is 80 dBA (during purge)

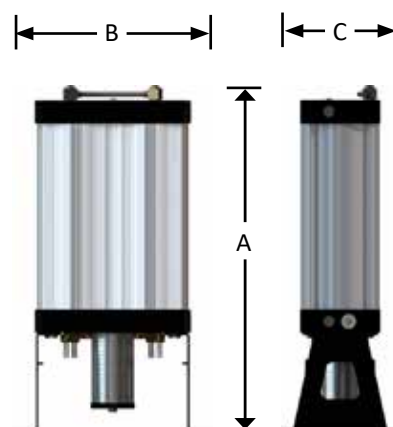
(5) for D¹ and D² dryer module spares - see page 21 & 22

(6) for L¹ CO₂ removal dryer module spares - see page 27

(7) for B¹ breathing air purifier module spares - see page 44

(8) air quality to BS EN 12021:2014

service guidelines - see complete dryer or generator service recommendations
- refer to user guide for full service details



L¹

lab gas CO₂ removal modules

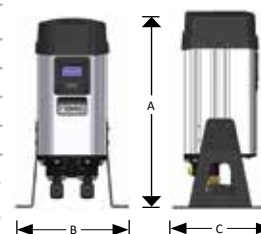
2.5 to 200 l/min

nano L¹ range of lab gas CO₂ removal modules are small, simple and can be wall mounted right in your laboratory. Connect them to your existing compressed air system to deliver a continuous supply of clean, dry and CO₂ free purge gas without the hassle of traditional cylinders.



model	module price	recommended filtration		inlet & outlet		inlet air flow ⁽¹⁾		outlet gas flow ⁽¹⁾		dimensions (mm)			approx. weight
	€EUR	part number	M01/AC	BSPP ⁽⁴⁾	ft ³ /h	l/min	ft ³ /h	l/min	ft ³ /h	A	B	C	kg
NDC 015	€1,925	GFNB 0025	€203/€203	3/8"	5.3	2.5	3.2	1.5	439	222	224	254	9.0
NDC 050	€1,980	GFNB 0025	€203/€203	3/8"	17.6	8.3	10.6	5.0	439	222	224	254	9.0
NDC 140	€2,045	GFNB 0025	€203/€203	3/8"	53	25	32	15	439	222	224	254	9.0
NDC 300	€2,445	GFNB 0025	€203/€203	3/8"	106	50	64	30	649	222	224	254	13.5
NDC 600	€3,370	GFNB 0025	€203/€203	3/8"	212	100	127	60	1199	330	330	330	25.5
NDC 900	€4,375	GFNB 0050	€284/€284	1"	318	150	191	90	743	283	283	283	47.0
NDC 1200	€5,710	GFNB 0050	€284/€284	1"	424	200	254	120	743	283	283	283	47.0

outlet gas quality	standard	optional
maximum CO ₂ content	1 ppm	-
maximum pressure dew point	-70°C	-
maximum particulate size	1 micron	0.01 micron (2)
maximum oil content	-	0.003 ppm (3)
specifications		
design operating pressure range	4 to 12 barg ⁽⁵⁾	
recommended operating temperature range	1.5 to 20°C	
power supply requirements	85 to 264V AC (50/60Hz)	
maximum noise level (during purge)	60 dBA ⁽⁶⁾	



NDC 015 to 600



NDC 900 & 1200

(1) at inlet conditions of 7 barg and 20°C and up to 375 ppm CO₂. For all other conditions contact sales@n-psi.co.uk for sizing assistance

(2) requires addition of a nano M01 particulate after filter at the outlet

(3) requires addition of a nano M01 coalescing pre filter and an AC activated carbon filter at the inlet. Recommended for compressed air systems using an oil flooded compressor

(4) NDC 015 to NDC 600 have push to connect fittings on the inlet and outlet. All other models have BSPP threaded connections

(5) NDC 015 to NDC 300 rated to 10 barg

(6) NDC 900 to NDC 1200 - noise level is 80 dBA (during purge)

service guidelines

- desiccant cartridges should be changed every 2 years
- valves should be changed every 4 years
- refer to user guide for full service details



service kits

description	fits	list price
NDK 011	NDC 015 - NDC 050	€470
NDK 021	NDC 140	€500
NDK 031	NDC 300	€595
NDK 051	NDC 600	€820
NDK 061	NDC 900	€1,065
NDK 071	NDC 1200	€1,395
QRV 300	NDC 015 - NDC 300	€410



Why pay a gas company to deliver dangerous purge gas cylinders to your facility when you can generate your own clean, dry CO₂ free purge gas from the compressed air system you already have? Eliminate delivery delays, change out interruptions and costly contracts.



membrane dryers

M¹

5.4 to 126 Nm³/h

Provides clean, dry air in environments with strict safety or environmental requirements such as noise and corrosion sensitive areas, areas without electrical supply and locations with explosion proof requirements.

features

full range gives you exact air type required

- the 55F range ensures suppression of 32°C, producing an outlet air dew point of 3°C which is similar to refrigerated air dryers at reference conditions
- for even dryer air the 100F range lowers the inlet dew point by 55°C, producing sub freezing pressure dew points at the reference conditions.

advanced fibre technology

- thousands of hollow fibres with a unique inner coating increases separation efficiency between the water vapour and air, giving unprecedented low air leakage and lowest purge air loss

optimal inlet air quality

- two pre-filters with all interconnection components included as standard

versatile for maximum flexibility

- inlet and outlet caps allow filters and dryer to be mounted horizontally or vertically

requires no electrical power

- can be easily installed in remote or mobile applications
- the product can be installed in areas with hazardous classifications

options

- purge air stop saves purge when no air consumption is present
- wall mounting kits for ease of installation



M¹

membrane dryers

5.4 to 126 Nm³/h

The nano M1 membrane compressed air dryer provides clean dry air for a wide range of industrial applications. Designed for minimal pressure drop and the highest drying efficiency, the dryers contain thousands of hollow fibres with a unique inner coating.



dryer model	dryer & filtration	pre filters ⁽¹⁾	pressure dew point suppression	inlet & outlet	rated flow ⁽²⁾		dimensions (mm)			approx. weight
	€EUR	models	°C	BSPP	scfm	Nm ³ /h	A	B	C	kg
DHM 0005 55F	€1,270	NFB 0050 M1/M01	32	½"	6.4	10.8	147	56	530	2.9
DHM 0010 55F	€1,585	NFB 0050 M1/M01	32	½"	10.6	18	147	56	530	2.9
DHM 0020 55F	€1,985	NFB 0050 M1/M01	32	½"	19.1	32.4	173	79	734	3.9
DHM 0030 55F	€2,680	NFB 0050 M1/M01	32	½"	29.7	50.4	173	79	734	4.2
DHM 0040 55F	€3,505	NFB 0050 M1/M01	32	½"	40.3	68.4	193	99	708	5.3
DHM 0050 55F	€4,260	NFB 0050 M1/M01	32	½"	53	90	193	99	708	5.7
DHM 0075 55F	€4,495	NFB 0070 M1/M01	32	½"	74.2	126	218	124	731	7.8
DHM 0003 100F	€1,755	NFB 0050 M1/M01	55	½"	3.2	5.4	147	56	713	2.9
DHM 0007 100F	€2,010	NFB 0050 M1/M01	55	½"	7.4	12.6	147	56	1021	3.2
DHM 0013 100F	€2,490	NFB 0050 M1/M01	55	½"	12.7	21.6	173	79	1077	4.7
DHM 0019 100F	€3,020	NFB 0050 M1/M01	55	½"	19.1	32.4	173	79	1077	4.7
DHM 0028 100F	€3,890	NFB 0050 M1/M01	55	½"	27.5	46.8	193	99	1077	6.0
DHM 0036 100F	€4,410	NFB 0050 M1/M01	55	½"	36	61.2	193	99	1077	6.0
DHM 0055 100F	€5,580	NFB 0070 M1/M01	55	½"	55.1	93.6	218	99	1112	9.7

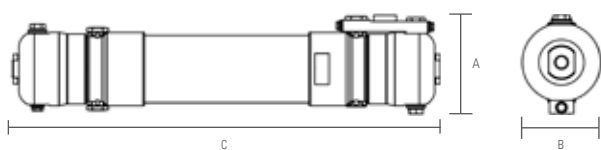
specifications

minimum operating pressure	4 barg
maximum operating pressure	14 barg
minimum ambient temperature	1°C
maximum ambient temperature	66°C
minimum inlet temperature	1°C
maximum inlet temperature	66°C

(1) dryer includes M1 and M01 pre filters as standard (shipped loose with mounting fittings)

(2) rated flow capacity: compressed air dryer inlet: 7 barg and 35°C; ambient air temperature: 25°C: 100% RH. For all other conditions consult sizing program or contact sales@n-psi.co.uk

(3) optional: purge control valve 230/1/50. Part # = DHM-SVS-230/50H list price €150.00.



cycling refrigerated dryers

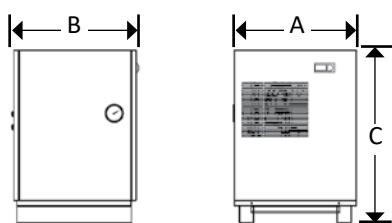
30 to 3,100 Nm³/h

The NXC cycling refrigerated air dryers are the next generation of thermal mass dryers from nano. Unique dual transfer technology (DTT) is employed within the NXC dry thermal mass to save energy and money by effectively treating the compressed air in accordance with actual air flow.

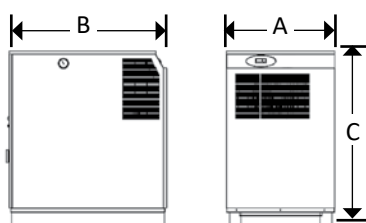
dryer model	€EUR		inlet & outlet ⁽¹⁾	rated flow ⁽²⁾		absorbed power ⁽³⁾	dimensions (mm)			approx. weight
	230V AC/1P	400V AC/3P		scfm	Nm ³ /h		A	B	C	
NXC 0020	€1,945	-	¾"	18	30	0.21	430	406	565	37
NXC 0030	€2,030	-	¾"	28	48	0.27	465	465	655	48
NXC 0045	€2,210	-	¾"	41	70	0.28	465	465	655	51
NXC 0065	€2,455	-	1"	59	100	0.63	575	540	767	89
NXC 0090	€3,130	-	1"	82	140	0.66	575	540	767	91
NXC 0110	€3,495	-	1"	103	175	0.68	575	540	767	93
NXC 0130	€4,045	-	1½"	124	210	0.98	740	618	926	132
NXC 0165	€4,435	-	1½"	153	260	1.02	740	618	926	137
NXC 0200	€4,875	-	2"	177	300	1.05	740	618	926	142
NXC 0265	€6,475	-	2"	247	420	1.32	740	760	982	175
NXC 0325	€7,485	-	2"	318	540	1.37	740	760	982	180
NXC 0400	€8,405	-	2"	388	660	1.41	740	760	982	185
NXC 0500	€9,195	-	2½"	459	780	1.93	740	1074	1202	245
NXC 0650	€14,915	-	3"	541	920	2.01	740	1074	1202	251
NXC 0850	€15,850	-	3"	600	1020	2.38	740	1550	1500	360
NXC 1050	€18,515	-	3"	812	1380	2.48	740	1550	1500	370
NXC 1150	€24,755	-	3"	1059	1800	3.8	1250	1250	1650	430
NXC 1300	€28,225	-	3"	1271	2160	3.9	1250	1250	1650	450
NXC 1600	€34,665	-	4"	1519	2580	4.6	1250	1700	1800	510
NXC 2000	€39,615	-	4"	1860	3100	4.8	1250	1700	1800	525

specifications

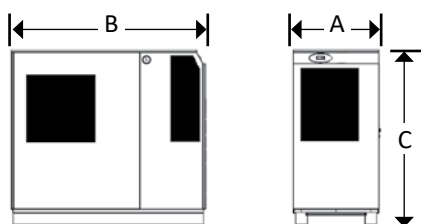
design operating pressure range	0 to 16 barg
maximum inlet temperature	60°C
maximum ambient temperature	43°C - 50°C depending on refrigerant (contact support for details)



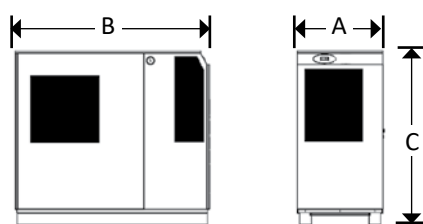
NXC 0020 to 0045



NXC 0065 to 0500



NXC 0650 to 0850



NXC 1050 to 2000

R^{4.1}

direct expansion refrigerated dryers

30 to 9,900 Nm³/h

nano R⁴ direct expansion refrigerated air dryers allow customers running a consistent volume of compressed air the ability to achieve excellent dew point performance and save energy. The high-quality SSX stainless steel heat exchangers, environmentally-friendly refrigerants and reliable compressors make DXR the best value go-to air dryer in the industry.



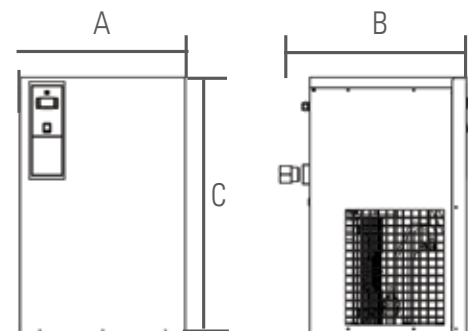
dryer model	£EUR		inlet & outlet ⁽¹⁾	rated flow ⁽²⁾		absorbed power ⁽³⁾	dimensions (mm)			approx. weight	power supply (V/Ph/60Hz) ⁽⁴⁾		refrigerant
	230V AC/ 1P	400V AC/ 3P		Nm ³ /h	scfm		A	B	C		230V/1Ph/ 50Hz	400V/3Ph/ 50Hz	
DXR 0022 E	€1,450	-	G 3/4" (M)	22	13	0.13	350	493	450	19	X		R513A
DXR 0036 E	€1,720	-	G 3/4" (M)	36	21	0.16	350	493	450	19	X		R513A
DXR 0050 E	€1,940	-	G 3/4" (M)	50	29	0.19	350	493	450	20	X		R513A
DXR 0072 E	€2,075	-	G 3/4" (M)	72	42	0.27	350	493	450	25	X		R513A
DXR 0108 E	€2,305	-	G 3/4" (M)	108	64	0.28	350	493	450	27	X		R513A
DXR 0140 E	€2,500	-	G 1" (F)	140	82	0.67	370	497	764	44	X		R513A
DXR 0180 E	€3,005	-	G 1" (F)	180	106	0.72	370	497	764	44	X		R513A
DXR 0216 E	€3,520	-	G 1 1/2" (F)	216	127	0.63	460	557	789	62	X		R410A
DXR 0245 E	€3,820	-	G 1 1/2" (F)	245	144	0.71	460	557	789	60	X		R410A
DXR 0313 E	€4,490	-	G 1 1/2" (F)	313	184	0.91	460	557	789	62	X		R410A
DXR 0389 E	€5,410	-	G 1 1/2" (F)	389	229	0.97	580	557	899	82	X		R410A
DXR 0461 E	€6,020	-	G 1 1/2" (F)	461	271	1.12	580	557	899	82	X		R410A
DXR 0601 E	€7,570	-	G 2" (F)	601	354	1.54	805	1040	962	145		X	R410A
DXR 0720 E	€8,880	-	G 2" (F)	720	424	1.98	805	1070	962	158		X	R410A
DXR 0900 E	-	€10,980	G 2 1/2" (F)	900	530	2.01	805	1070	962	165		X	R410A
DXR 1080 E	-	€12,940	G 2 1/2" (F)	1080	636	2.77	805	1070	962	164		X	R410A
DXR 1440 E	-	€17,340	R 3" (M)	1440	848	3.5	1132	1005	1399	230		X	R410A
DXR 1800 E	-	€21,400	R 3" (M)	1800	1059	3.69	1121	1005	1596	325		X	R410A
DXR 2099 E	-	€24,500	R 3" (M)	2099	1235	4.554	1121	1005	1596	338		X	R410A
DXR 2700 E	-	€30,600	DN100-PN16	2700	1589	6.097	1121	1005	1826	390		X	R410A
DXR 2999 E	-	€33,650	DN100-PN16	2999	1765	6.538	1531	1005	1826	462		X	R410A
DXR 3744 E	-	€40,800	DN100-PN16	3744	2471	7.1	1531	1005	1826	508		X	R410A
DXR 4198 E	-	€42,850	DN100-PN16	4198	2966	7.293	1531	1005	1826	508		X	R410A
DXR 5040 E	-	€50,000	DN150-PN16	5040	3496	8.264	1979	1455	1826	810		X	R410A
DXR 5940 E	-	€58,100	DN150-PN16	5940	4238	10.2	1979	1455	1826	815		X	R410A
DXR 7200 E	-	€67,300	DN150-PN16	7200	2471	12.183	1979	1455	1833	900		X	R410A

specifications	DXR 0022 to DXR 0050	DXR 0022 to DXR 0050	DXR 0601 to DXR 2200
design operating pressure range	4.1 to 16 barg	4.1 to 14 barg	4.1 to 14 barg
maximum inlet air temperature	55°C	55°C	60°C
maximum ambient temperature	5 to 46°C	5 to 46°C	5 to 46°C

pressure correction factors ⁽⁵⁾					
operating pressure (barg)	6	7	8	10	13
correction factor	0.97	1.00	1.03	1.07	1.12

inlet temperature correction factors ⁽⁵⁾								
inlet air temperature (°C)	25	30	35	40	46	50	55	60
correction factor	1.11	1.05	1.00	0.82	0.69	0.58	0.49	0.42

ambient temperature correction factors ⁽⁵⁾						
inlet temperature (°C)	25	30	35	40	43	46
correction factor	1.00	0.91	0.81	0.72	0.67	0.67



DXR 0140E - DXR 0180E

- (2) rated flow capacity: conditions for rating dryers are in accordance with ISO7183 . Compressed air at dryer inlet: 7 bar and 35°C; ambient air temperature: 35°C
- (3) nominal absorbed power at rated operating conditions using 230/1/50 or 400/3/50 power supply (as applicable)
- (4) specify voltage requirements when ordering
- (5) to be used as a rough guide only. All applications should be confirmed by n-psi sizing software. Contact sales@n-psi.co.uk for sizing assistance

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



technical + spare parts

R⁴

for R¹ + R⁴ refrigerated dryers

nano R⁴ direct expansion refrigerated air dryers allow customers running a consistent volume of compressed air the ability to achieve excellent dew point performance and save energy. The high-quality SSX stainless steel heat exchangers (multi-module NDX 1750 and up), environmentally-friendly refrigerants and reliable compressors make NDX the best value go-to air dryer in the industry.

pressure correction factors ⁽⁴⁾													
inlet air pressure (barg)	4	5	6	7	8	9	10	11	12	13	14*	15*	16*
correction factor	0.72	0.82	0.92	1.00	1.06	1.09	1.11	1.15	1.18	1.19	1.21	1.23	1.26
inlet temperature correction factors ⁽⁴⁾													
inlet air temperature (°C)	25	30	35	40	45	50	55	60					
correction factor	1.32	1.18	1.00	0.85	0.70	0.61	0.56	0.49					
ambient temperature correction factors ⁽⁴⁾													
ambient temperature (°C)	20	25	30	35	40	43							
correction factor	1.18	1.00	0.96	0.90	0.84	0.78							

*Only available on NDX 0015 to NDX 0060

(1) ½" to 3" are BSPP threaded connections, 4" are supplied with DIN flanged connections

(2) inlet temperature: 35°C, ambient temperature: 25°C, inlet pressure: 7 barg, pressure dew point: 3°C, pressure drop < 350 mbar. for all other conditions refer to the correction factors above or contact sales@n-psi.co.uk

(3) nominal absorbed power at rated operating conditions using 230/1/50 or 400/3/50 power supply (as applicable). for absorbed power at other voltages or conditions, contact sales@n-psi.co.uk

(4) for correction factors other than those shown above, contact sales@n-psi.co.uk for sizing assistance

*2 year warranty with pre-filtration and non-corrosive piping installed

NDX spare parts

description	fits	list price
Ball Valve Strainer	NDX 0015 - 4750	€120
Compressor	NDX 0015 - 0020	€610
Compressor	NDX 0030	€680
Compressor	NDX 0045	€760
Compressor	NDX 0055	€1,065
Compressor	NDX 0085	€1,330
Compressor	NDX 0110	€1,445
Compressor	NDX 0135	€1,710
Compressor	NDX 0175	€1,750
Compressor	NDX 0215	€1,825
Compressor	NDX 0250	€2,020
Compressor	NDX 0340	€2,670
Compressor	NDX 0470	€3,635
Compressor	NDX 0550	€4,595
Compressor	NDX 0725 & 1350 & 2500	€4,595
Compressor	NDX 0950 & 1750 & 3500	€7,260
Compressor	NDX 1150 & 2000 & 4750	€8,965
Controller	NDX 0015 - 4750	€690
Contacto	NDX 0215 - 0550	€300
Contacto AF09	NDX 0725 - 4750	€605
Contacto AF12	NDX 0725 - 4750	€605
Cooling Fan	NDX 0015 - 0085	€330
Cooling Fan	NDX 0110 - 0135	€790
Cooling Fan	NDX 0175 - 0340	€1,020
Cooling Fan	NDX 0470 - 0550	€1,620
Cooling Fan	NDX 0725 - 4750	€2,090
High Pressure Gauge	NDX 0725 - 4750	€235
Low Pressure Gauge	NDX 0015 - 0055	€185
Low Pressure Gauge	NDX 0085 - 4750	€185
Solenoid Valve	NDX 0055 - 4750	€120
Solenoid Valve	NDX 0015 - 0045	€135
Fan Switch	NDX 0015 - 0175	€235
Fan Switch	NDX 0215 - 0550	€300
Fan Switch	NDX 0725 - 4750	€415
High Pressure Switch	NDX 0215 - 0550	€300
High Pressure Switch	NDX 0725 - 4750	€625
Low Pressure Switch	NDX 0015 - 0045	€235
Low Pressure Switch	NDX 0215 - 0550	€300
Temperature Sensor	NDX 0055 - 4750	€135

for all other spare parts and service information please refer to the user guide or contact nano at sales@n-psi.co.uk

R⁴

options + upgrades

for R⁴ direct expansion refrigerated dryers

Need filters with your R⁴ dryer? Add one or more F¹ pre or after filters to your order and enjoy a **5% to 10% discount** on our standard filter pricing. These filters remove particulate, liquids and aerosols to 0.01 micron protecting your dryer and improving performance by keeping the heat exchanger clean.



Additional
discount
on filters!



dryer model	recommended filtration		discounted price each (€EUR)	
	M1 (1 micron) pre filter	M01 (0.01 micron) after filter	option F1: pre filter only ⁽¹⁾	option F2: pre & after filters ⁽²⁾
DXR 0022E	GFNB 0025	GFNB 0025	€193	€183
DXR 0036E	GFNB 0025	GFNB 0025	€193	€183
DXR 0050E	GFNB 0032	GFNB 0032	€219	€208
DXR 0072E	GFNB 0050	GFNB 0050	€270	€256
DXR 0108E	GFNB 0070	GFNB 0070	€341	€323
DXR 0140E	GFNB 0085	GFNB 0085	€393	€373
DXR 0180E	GFNB 0125	GFNB 0125	€513	€486
DXR 0216E	GFNB 0175	GFNB 0175	€569	€539
DXR 0245E	GFNB 0175	GFNB 0175	€569	€539
DXR 0313E	GFNB 0280	GFNB 0280	€662	€627
DXR 0389E	GFNB 0280	GFNB 0280	€662	€627
DXR 0461E	GFNB 0280	GFNB 0280	€662	€627
DXR 0601E	GFNB 0450	GFNB 0450	€1,071	€1,014
DXR 0720E	GFNB 0450	GFNB 0450	€1,071	€1,014
DXR 0900E	GFNB 0700	GFNB 0700	€1,319	€1,249
DXR 1080E	GFNB 0700	GFNB 0700	€1,319	€1,249
DXR 1440E	GFNB 0850	GFNB 0850	€1,564	€1,481
DXR 1800E	GFNB 1250	GFNB 1250	€1,995	€1,890
DXR 2099E	GFNB 1250	GFNB 1250	€1,995	€1,890
DXR 2700E	CF	CF	-	-
DXR 2999E	CF	CF	-	-
DXR 4198E	CF	CF	-	-
DXR 5040E	CF	CF	-	-
DXR 5940E	CF	CF	-	-
DXR 7200E	CF	CF	-	-

(1) add suffix "F1" to the dryer model number when ordering

(2) add suffix "F2" to the dryer model number when ordering

(3) recommended filtration matches dryer inlet/outlet connections with exception of NDX 0950, NDX 3500 and NDX 4750. Please specify different filtration if needed and apply 5% discount against the normal list price

Buy your R⁴ dryer with one or more pre or after filters and enjoy a 5% or 8% discount on the filters.





variable speed cycling refrigerated dryers

R⁶

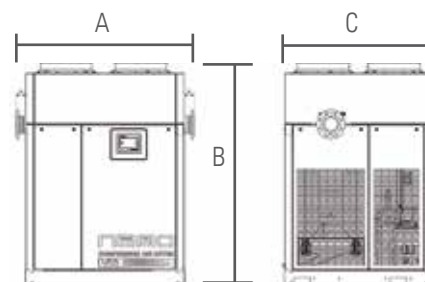
4417 to 14357 Nm³/h

The nano R⁶ VDR range takes power savings to the next level by using VSD technology to match dryer energy consumption to air demand. Perfect for high flow capacities and fluctuating air demand the VDR saves energy and money while providing superior drying performance.

dryer model	power supply (460/3ph/60Hz)	inlet & outlet	rated flow ⁽¹⁾		pressure drop	absorbed power ⁽²⁾	dimensions (mm)			approx. weight	
	list price	flg	scfm	Nm ³ /h	psi	kW	A	B	C	X ⁽³⁾	kg
air-cooled											
VDR 2600 A	POA	6"	2600	4417	2.6	9.9	1579	2297	1473	127	880
VDR 3150 A	POA	6"	3150	5352	2.6	10.5	1579	2297	1473	127	937
VDR 3700 A	POA	6"	3700	6286	2.2	11.3	1579	2297	1473	127	985
VDR 4200 A	POA	6"	4200	7136	2.8	14.2	1579	2297	1473	127	990
VDR 5050 A	POA	6"	5050	8580	3.9	19.1	1579	2297	1473	127	990
VDR 6350 A	POA	8"	6350	10789	2.8	23.9	1579	2297	2501	152	1690
VDR 8450 A	POA	8"	8450	14357	2.8	28.1	1579	2297	2501	152	1819
water-cooled											
VDR 2600 W	POA	6"	2600	4417	2.6	6.1	1579	1725	1473	127	800
VDR 3150 W	POA	6"	3150	5352	2.6	6.6	1579	1725	1735	127	815
VDR 3700 W	POA	6"	3700	6286	2.2	7.5	1579	1725	1735	127	885
VDR 4200 W	POA	6"	4200	7136	2.8	8.3	1579	1725	1735	127	865
VDR 5050 W	POA	6"	5050	8580	3.9	12.8	1579	1725	1735	127	870
VDR 6350 W	POA	8"	6350	10789	2.8	14.4	1579	1735	2501	127	1410
VDR 8450 W	POA	8"	8450	14357	2.8	19.7	1579	1735	2501	152	1540

specifications

design operating pressure range	4 to 14 barg
maximum inlet air temperature	70°C
design ambient temperature	7.2 to 46°C



pressure correction factors⁽⁴⁾

inlet air pressure (barg)	4.8	5.5	6.2	6.8	7.5	8.2	8.9	10.3	12	13.7
correction factor	0.81	0.87	0.93	1.00	1.03	1.08	1.12	1.19	1.26	1.30

inlet temperature correction factors⁽⁴⁾

inlet air temperature (°C)	30	32	35	38	40.5	43	46	49	52	54	140
correction factor	1.22	1.15	1.07	1.00	0.93	0.84	0.77	0.70	0.63	0.55	0.41

ambient temperature correction factors⁽⁴⁾

ambient temperature (°C)	21	26	32	37	40	43	48
correction factor	1.26	1.18	1.08	1.00	0.95	0.87	0.82

- (1) in compliance with ADF 100 specifications for compressed air dryers; inlet temperature: 38°C, ambient temperature: 38°C, inlet pressure: 7 barg, pressure dew point 0.5°C to 3.8°C. For all other conditions, refer to the correction factors above or contact sales@n-psi.co.uk
- (2) nominal absorbed power at rated operating conditions using 460/3/60 power supply (as applicable). For absorbed power at other voltages or conditions, contact sales@n-psi.co.uk
- (3) X = flange standoff distance - see drawings for specific flange positions
- (4) to be used as a rough guide only. All applications should be confirmed by nano sizing software. Contact sales@n-psi.co.uk for sizing assistance

nano NVR oil vapour removal systems use proven activated carbon technology to efficiently remove hydrocarbons and odour from the compressed air supply to provide ISO 8573 class 1 air.



NEW

model	module price	service kit ⁽²⁾		service kit price (each)	inlet & outlet	rated flow ⁽¹⁾		dimensions (mm)			approx. weight
	€EUR	part no.	qty	€EUR	BSP	scfm	Nm³/h	A	B	C	kg
NVR 0040	€1,810	NVR SK 040	1	€510	½"	40	68	865	263	210	12.8
NVR 0185	€2,910	NVR SK 185	1	€895	1"	185	315	705	426	250	40
NVR 0370	€3,440	NVR SK 370	1	€1,030	1"	370	630	885	426	250	50
NVR 0750	€6,880	NVR SK 370	2	€1,030	2 ½"	750	1275	870	400	575	103
NVR 1100	€7,585	NVR SK 370	3	€1,030	2 ½"	1100	1870	870	400	742	142
NVR 1500	€7,900	NVR SK 370	4	€1,030	2 ½"	1500	2550	870	400	910	180

specifications

maximum working pressure	16 barg
recommended operating temperature range	1.5 to 35°C
maximum operating temperature	50°C
estimated cartridge life	6000 hrs ⁽³⁾ (or 12 months)

inlet air quality requirements ⁽⁴⁾

maximum particulate size	0.01 micron
recommended pressure dew point	-40°C pdp
maximum oil content	0.05 mg/m ³

performance

maximum outlet air oil content (@ 35°C)	0.003 mg/m ³ (ppm)
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pressure correction factors ⁽⁵⁾

inlet air pressure (barg)	1	2	3	4	5	6	7 - 16
correction factor	0.25	0.37	0.05	0.62	0.75	0.87	1.00

temperature & dew point correction factors ⁽⁵⁾

inlet air temperature (°C)	<35	40	45	50	inlet dew point (°C)	>+3	<+3
correction factor	1.00	0.98	0.96	0.95	correction factor	0.25	1.00

(1) at inlet conditions of 7 barg and 35°C, and 35°C ambient temperature. For all other operating conditions contact sales@n-psi.co.uk for sizing assistance

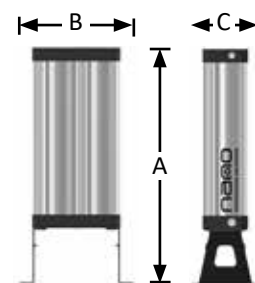
(2) includes purification cartridges (including integral inlet diffusers and outlet particulate filters) and all o-rings

(3) provided as an estimate only. Cartridges must be replaced as required to maintain adequate air quality in accordance with all applicable codes and regulations

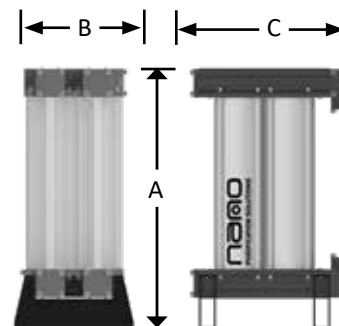
(4) if the air doesn't meet these conditions, contact sales@n-psi.co.uk to confirm the additional treatment required

(5) to be used as a rough guide only. All applications should be confirmed by n-psi. Contact sales@n-psi.co.uk

service guidelines - adsorbent cartridges should be changed every 12 months
- refer to user guide for full service details



NVR 0040 - 0370



NVR 0750 - 1500



NVR 1500



GEN₂ nitrogen generators

N₂

95% to 99.999% purity

Nitrogen is a dry, inert gas which is used in a wide range of applications where oxygen may be harmful to the product or processes. Nitrogen generators use regular compressed air to deliver a continuous supply of high purity nitrogen, offering a cost effective and reliable alternative to the use of cylinder or liquid nitrogen across a wide range of applications.

recommended installation - desiccant air dryer



alternative installation - refrigeration air dryer + carbon tower



Why pay a gas company to deliver dangerous high pressure gas cylinders to your facility when you can generate your own clean, dry N₂ gas from the compressed air system you already have? Eliminate delivery delays, change out interruptions and costly contracts.

N₂

ECOGEN₂ nitrogen generators

95% to 99.9% purity

Utilising the proven and technologically advanced nano nitrogen generation system in a simple package provides the perfect economical “plug & play” nitrogen supply.



generator model	generator price €EUR	rated outlet flow (1)	nitrogen purity at the outlet (maximum oxygen content)							dimensions (mm)			approx. weight kg
			99.9% (0.1%)	99.5% (0.5%)	99% (1%)	98% (2%)	97% (3%)	96% (4%)	95% (5%)	A	B	C	
ECO-GEN ₂ 090	POA	Nm ³ /h	1.4	2.2	2.7	3.7	4.6	5.3	5.9	1066	440	366	54
ECO-GEN ₂ 110	POA	Nm ³ /h	2.4	3.4	4.3	5.8	7.2	8.4	9.4	1391	440	366	78
ECO-GEN ₂ 130	POA	Nm ³ /h	4.0	5.6	7.1	9.6	12.0	13.9	15.5	1991	440	366	119
Air factor			4.4	3.7	3.0	2.6	2.4	2.2	2.1				

specifications

design operating pressure range	6 to 10 barg
design operating temperature range	5 to 50°C
recommended operating temperature	5 to 25°C
maximum inlet particulate	0.1 micron
maximum inlet oil content	0.01 ppm ⁽³⁾
recommended inlet dew point	-40°C PDP ⁽²⁾
supply voltage	85 to 264V AC, 50/60Hz
power rating	35W

pressure correction factors ⁽⁴⁾

inlet air pressure (barg)	6	7	8	9	10
correction factor	0.88	1.00	1.10	1.20	1.30

temperature correction factors ⁽⁴⁾

inlet air temperature (°C)	5	10	15	20	25	30	35	40	45	50
correction factor	0.80	0.90	0.94	1.00	1.00	0.98	0.95	0.90	0.85	0.72



options + accessories



description	fits	list price
mass flow controller	all models	POA
oxygen analyser		POA

(1) at 7 barg inlet pressure and 20 - 25°C inlet temperature. For outlet flow at all other conditions, refer to the correction factors above or contact sales@n-psi.co.uk

(2) requires an upstream dryer. Contact n-psi for assistance selecting the optimum dryer for your application

(3) including oil vapour

(4) to be used as a rough guide only. All applications should be confirmed by n-psi. Contact us for sizing assistance

(5) connections are 1/2" BSPP for inlet/outlet from buffer and 1" BSPP connection to buffer vessel

service guidelines

- silencers should be changed every year
- piston valve seals should be changed every 2 years
- control valves should be changed every 4 years
- refer to user guide for full service details



GEN₂ i4.0 nitrogen generators

N₂

PLC/HMI controlled operation

The all new GEN₂ i4.0 nitrogen generator has enhanced the existing robust and proven design with efficiency improvements and a host of optional features. A completely new control system with new aluminium hardware ensure a product compliant with "industry 4.0" requirements.

benefits...



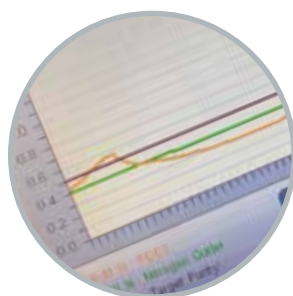
reliable high performance valves

Inlet, outlet and exhaust are managed through unique integrated nano piston valves, which are designed for reliability, long service life and ease of maintenance. The generator also incorporates adjustable equalisation valves which smooth the column switch over, improve air/ N₂ ratios and extend CMS life.



communication

With a small software change, full communication protocols including modbus, profibus and other building management system connections can be achieved. This is via an RS485 or ethernet RJ45 port. There is an upgraded SD card recording the performance of the generator and data can be downloaded to any PC for analysis.



purity dependent energy saving (PDES)

With the optional employment of 2 oxygen analyzers, the PDES option allows additional energy saving to be attained by keeping the purity within a narrow band of the required value. This is achieved by elongating the adsorption cycle and consequently saving valuable compressed air and nitrogen consumed by the generator during column changeover.



dewpoint monitoring (*)

In many applications the moisture content of the outlet nitrogen or inlet compressed air is critical. With the inclusion of a dewpoint meter, the inlet air dewpoint or the outlet nitrogen dewpoint may be monitored and recorded.

pressure & flow monitoring (*)

The options of the new GEN₂ i4.0 nitrogen generator include the measurement of column pressure and to accommodate a signal from an external flow meter. Both these parameters may be monitored and recorded.

** if communication module is activated*

N₂

GEN₂ i4.0 nitrogen generators

PLC/HMI controlled operation



The new GEN₂ i4.0 nitrogen generator is operated by a reliable PLC control system with digital and optional analog outputs for remote monitoring and alarm capabilities. GEN₂ i4.0 provides the operator with continuous indication of column A, column B, inlet air & N₂ outlet pressures and features an easy-to-operate touch screen graphical human-machine interface (HMI) which offers valuable information including:

- power on/off
- O₂ purity
- ECO Mode hours
- inlet & outlet pressure
- online column
- contact details
- service required
- run hours
- performance data



design quality

- mass flow controller - ensures correct application pressure and flow
- integral oxygen analyzer - continuously measures and guarantees gas
- quality purity guarantee valve - automatically ensures gas meets desired specifications
- remote monitoring - enables connection to proprietary remote management and generator control systems

guaranteed performance

- 100% function and performance tested at our factory
- 2 year warranty
- verified nitrogen quality to E941 food additive standards

rapid return on investment

- significant cost savings over cylinder or liquid supply provides a typical return on investment of less than 24 months
- ecomode energy savings control reduces energy consumption during periods of low demand.

easy to maintain

- innovative piston valves significantly reduce maintenance schedules and minimise downtime.

environmentally friendly

- reduces carbon footprint by eliminating gas delivery to your facility

fits any application

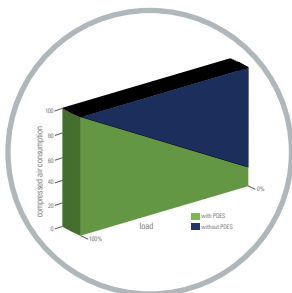
- maximum design operating pressure of 16 barg available

safe & reliable

- eliminates the safety hazards of transporting and storing pressurised gas cylinders or liquid nitrogen

easy to install

- the compact design allows installation in spaces too small for twin tower generator systems





GEN₂ i4.0 nitrogen generators

N₂

95% to 99.5% purity

The technologically advanced nano GEN₂ i4.0 nitrogen generator uses an extruded aluminum modular design and operates on the pressure swing adsorption (PSA) principle to produce a continuous uninterrupted stream of nitrogen gas from clean dry compressed air.

generator model	generator price €EUR	rated outlet flow (1)	nitrogen purity at the outlet (maximum oxygen content)						dimensions (mm)			weight (kg)
			99.5% (0.50%)	99% (1%)	98% (2%)	97% (3%)	96% (4%)	95% (5%)	A	B	C	
GEN ₂ i4.0 1110	POA	Nm ³ /h	5.2	5.8	7.3	8.3	9.5	10.3	1223	400	605	158
GEN ₂ i4.0 2110	POA	Nm ³ /h	10.4	11.6	14.5	16.7	19.0	20.6	1223	400	773	209
GEN ₂ i4.0 3110	POA	Nm ³ /h	15.6	17.3	21.8	25.0	28.5	30.9	1223	400	941	260
GEN ₂ i4.0 2130	POA	Nm ³ /h	18.9	21.0	26.4	30.3	34.5	37.5	1823	400	773	262
GEN ₂ i4.0 3130	POA	Nm ³ /h	28.4	31.5	39.6	45.5	51.8	56.3	1823	400	941	340
GEN ₂ i4.0 4130	POA	Nm ³ /h	37.8	42.0	52.8	60.6	69.0	75.0	1823	400	1109	418
GEN ₂ i4.0 6130	POA	Nm ³ /h	56.7	63.0	79.2	90.9	103.5	112.5	1823	400	1445	594
GEN ₂ i4.0 8130	POA	Nm ³ /h	75.6	84.0	105.6	121.2	138.0	150.0	1823	400	1781	730
GEN ₂ i4.0 10130	POA	Nm ³ /h	86.9	96.6	121.4	139.4	158.7	172.5	1823	400	2117	886
GEN ₂ i4.0 12130	POA	Nm ³ /h	100.9	112.1	141.0	161.8	184.2	200.3	1823	400	2453	1036
Air factor			2.8	2.7	2.4	2.2	2.1	2.0				

specifications

design operating pressure range	6 - 12 barg
design operating temperature range	5 to 50°C
recommended operating temperature	20 to 25°C
maximum inlet particulate	0.1 micron
maximum inlet oil content	0.01 ppm ⁽²⁾
recommended inlet dew point	-40°C PDP ⁽³⁾
supply voltage	85 to 264V AC, 50/60Hz
power rating	72W

pressure correction factors ⁽⁵⁾

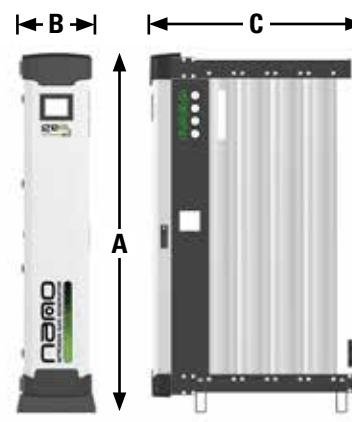
inlet air pressure (barg)	6	7	8	9	10	11	12
correction factor	0.88	1.00	1.10	1.20	1.30	1.40	1.50

temperature correction factors ⁽⁵⁾

inlet air temperature (°C)	5	10	15	20	25	30	35	40	45	50
correction factor	0.80	0.90	0.94	1.00	1.00	0.98	0.95	0.90	0.85	0.72

- (1) at 7 barg inlet pressure and 20 to 25°C inlet temperature. For outlet flow at all other conditions, refer to the correction factors above or contact sales@n-psi.co.uk
- (2) for pressures above 12 barg, contact sales@n-psi.co.uk
- (3) requires an upstream dryer. Contact n-psi for assistance selecting the optimum dryer for your application
- (4) including oil vapour
- (5) to be used as a rough guide only. All applications should be confirmed by n-psi. Contact us for sizing assistance
- (6) includes mass flow controller and zirconia oxygen sensor

- service guidelines**
- silencers should be changed every year
 - piston valve seals should be changed every 2 years
 - control valves should be changed every 4 years
 - zirconia oxygen sensors should be changed every 5 years
 - refer to user guide for full service details



connections

air inlet	1"
to buffer vessel	1"
from buffer vessel	½"
nitrogen outlet	½"

N₂

GEN₂+ nitrogen generators

99.9% to 99.999%

For higher purity applications, the GEN₂ i4.0 range of nitrogen generators is equally at home producing ultra high purity nitrogen with pressure swing adsorption technology.



generator model	generator price €EUR	rated outlet flow (1)	nitrogen purity at the outlet (maximum oxygen content)						dimensions (mm)			weight (kg)
			99.999% (10 ppm)	99.995% (50 ppm)	99.99% (100 ppm)	99.975% (250 ppm)	99.95% (500 ppm)	99.9% (0.10%)	A	B	C	
GEN ₂ i4.0 1110	POA	Nm ³ /h	0.9	1.7	2.0	2.5	3.0	3.6	1223	400	605	158
GEN ₂ i4.0 2110	POA	Nm ³ /h	1.8	3.4	4.0	5.0	6.0	7.2	1223	400	773	209
GEN ₂ i4.0 3110	POA	Nm ³ /h	2.7	5.1	6.0	7.5	9.0	10.8	1223	400	941	260
GEN ₂ i4.0 2130	POA	Nm ³ /h	5.1	7.2	8.9	10.0	11.4	13.2	1823	400	773	262
GEN ₂ i4.0 3130	POA	Nm ³ /h	7.7	10.8	12.6	15.0	17.1	19.8	1823	400	941	340
GEN ₂ i4.0 4130	POA	Nm ³ /h	10.2	14.4	16.8	20.0	22.8	26.4	1823	400	1109	418
GEN ₂ i4.0 6130	POA	Nm ³ /h	15.3	21.6	25.2	30.0	34.2	39.6	1823	400	1445	594
GEN ₂ i4.0 8130	POA	Nm ³ /h	20.4	28.8	33.6	40.0	45.6	52.8	1823	400	1781	730
GEN ₂ i4.0 10130	POA	Nm ³ /h	23.5	33.1	38.6	46.0	52.4	60.7	1823	400	2117	886
GEN ₂ i4.0 12130	POA	Nm ³ /h	27.2	38.4	44.9	53.3	60.9	70.5	1823	400	2453	1036
Air factor			6.8	5.1	4.6	3.6	3.5	3.4				

specifications

design operating pressure range	6 - 12 barg
design operating temperature range	5 to 50°C
recommended operating temperature	20 to 25°C
maximum inlet particulate	0.1 micron
maximum inlet oil content	0.01 ppm ⁽²⁾
recommended inlet dew point	-40°C PDP ⁽³⁾
supply voltage	85 to 264V AC, 50/60Hz
power rating	72W

pressure correction factors ⁽⁵⁾

inlet air pressure (barg)	6	7	8	9	10	11	12
correction factor	0.88	1.00	1.10	1.20	1.30	1.40	1.50

temperature correction factors ⁽⁵⁾

inlet air temperature (°C)	5	10	15	20	25	30	35	40	45	50
correction factor	0.80	0.90	0.94	1.00	1.00	0.98	0.95	0.90	0.85	0.72

(1) at 7 barg inlet pressure and 20 to 25°C inlet temperature. For outlet flow at all other conditions, refer to the correction factors above or contact sales@n-psi.co.uk

(2) for pressures above 12 barg, contact sales@n-psi.co.uk

(3) requires an upstream dryer. Contact n-psi for assistance selecting the optimum dryer for your application

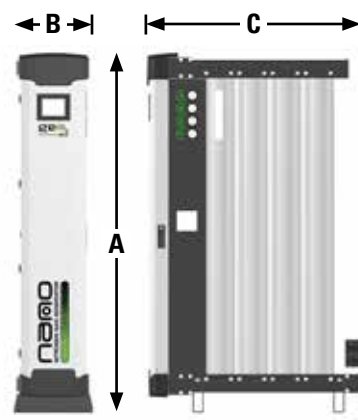
(4) including oil vapour

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

(6) includes mass flow controller and zirconia oxygen sensor

service guidelines

- silencers should be changed every year
- piston valve seals should be changed every 2 years
- control valves should be changed every 4 years
- zirconia oxygen sensors should be changed every 5 years
- refer to user guide for full service details



connections

air inlet	1"
to buffer vessel	1"
from buffer vessel	½"
nitrogen outlet	½"



options + accessories

N₂

for ECOGEN₂, GEN₂ and GEN₂ i4.0 nitrogen generators

Use these options and accessories to customise your ECOGEN₂, GEN₂, GEN₂ i4.0 nitrogen generators.

options + accessories



description	fits	list price
communication pack	all models	POA
purity dependent energy saving (PDES)		POA
inlet dewpoint monitoring		POA
outlet dewpoint monitoring		POA
column pressure monitor		POA
nitrogen flow monitor		POA
high pressure option (above 12 barg)		POA
large mass flow controller (>120 Nm ³ /hr)	GEN ₂ 6130 - 12130	POA
additional mass flow controller (60 - 120 Nm ³ /hr)	GEN ₂ 3130 - 12130	POA

buffer vessels



description	flow rate	list price
50 litre buffer	0 - 5 Nm ³ /h	€690
100 litre buffer	5 - 10 Nm ³ /h	€1,155
250 litre buffer	10 - 25 Nm ³ /h	€1,715
500 litre buffer	25 - 50 Nm ³ /h	€2,920
1000 litre buffer	50 - 100 Nm ³ /h	€5,715
1500 litre buffer	100 - 150 Nm ³ /h	€9,950
2000 litre buffer	150 - 200 Nm ³ /h	€10,490

GEN₂ service kits



description	fits	list price
service A - 1" external exhaust silencer BSP	GEN ₂ 1110 - 3110	€345
service A - 1" external exhaust silencer NTP	GEN ₂ 1110 - 3110	€345
service A - 1" external exhaust silencer BSP	GEN ₂ 2130 - 12130	€440
service A - 1" external exhaust silencer NPT1	GEN ₂ 2130 - 12130	€440
service A - 2" external exhaust silencer HP BSP	GEN ₂ 2130 - 12130	€1,015
service A - 2" external exhaust silencer HP NPT	GEN ₂ 2130 - 12130	€1,015
service B - piston valve service kit	all models	€425
service C - control valve service kit	all models	€1,485
service C - control valve service kit (PDES)	all models	€1,665
service D - % zirconia cell replacement kit	all models	€2,990
service D - ppm zirconia cell replacement kit	all models	€2,990

ECOGEN₂ service kits



description	fits	part no.	list price
service A - exhaust silencer (x2)	ECOGEN 090/110/130	ESK-090/110/130	€110
service B - exhaust valves (x2)	all models	EVKC-130	€205
service B - NC inlet valves (x2)	all models	IVKC-100	€205
service B - nitrogen outlet valve (x1)	all models	NOVK-130	€120
service B - outlet valves (x2)	all models	OVK-130	€190
service B - outlet valve seals (x2)	all models	OVSK-130	€50
service B - solenoid coils (x2)	all models	RCK-024	€120

other kits

replacement CMS kit - 110 size	ECOGEN ₂ i4.0 03110	RKA-110-CMS	€1,585
replacement CMS kit - 130 size	GEN ₂ i4.0 12130	RKA-130-CMS	€2,445
replacement CMS kit - 20kg bucket	all models	RKA-20-CMS	€1,460
carbon molecular sieve - bulk	all models		€75
service E - % galvanic cell replacement kit	all models	E-GCR-%	€675
service E - ppm galvanic cell replacement kit	all models	E-GCR-PPM	€1,380
O ₂ sensor solenoid valve kit	all models	-	€180
oxygen analyser (ppm)	all models	-	€3,645
oxygen analyser (%)	all models	-	€2,400

N₂

GEN₂ MAX

NEW

95% to 99.999% purity



The nano GEN₂ MAX nitrogen generator is designed to deliver nitrogen gas at a specified purity, flow and pressure as required by the application. The nano GEN₂ MAX operates on the pressure swing adsorption principle, which allows for a continuous supply of nitrogen from clean dry compressed air. The nano GEN₂ MAX generator offers a cost-effective, reliable and safe alternative to the use of liquid or bottled nitrogen.

features

PLC/HMI controlled operation

- user-friendly PLC uses advanced algorithms for maximum reliability
- comprehensive, pro-active maintenance display
- ethernet connection for local monitoring via LAN/DCS system
- optional remote service and performance monitoring.

quality components

- reliable high performance butterfly valves designed for reliability, long service life and ease of maintenance.

vessel construction

- specially designed absorber vessels with full size top flange for the most effective, high density filling of the high-grade carbon molecular sieve (CMS)
- equipped with full size bottom inlet strainer to achieve maximum flow distribution preventing movement and crushing of CMS as well as minimizing possibility of channeling and maximizing performance in adsorption of oxygen.

CMS protection

- to allow continuous operation for more than 15 years, units are equipped with safety features to eliminate the risk of CMS being damaged by low quality compressed air supply, poor start-ups and unexpected shutdowns
- continuous monitoring of the compressed air quality via a Pressure Dew Point (PDP) sensor installed at the compressed air inlet prevents CMS damage.

self-regulation and stable purity

- user requested outlet flow, pressure and purity.

purity dependent energy saving (PDES)

- with the optional employment of 2 oxygen analyzers, the PDES option allows additional energy saving to be attained by keeping the purity within a narrow band of the required value
- achieved by elongating the adsorption cycle and consequently saving valuable compressed air and nitrogen consumed by the generator during column changeover.



NEW

GEN₂ MAXN₂

95% to 99.999% purity

The nano GEN₂ MAX nitrogen generator is designed to deliver nitrogen gas at a specified purity, flow and pressure as required by the application. The nano GEN₂ MAX operates on the pressure swing adsorption principle, which allows for a continuous supply of nitrogen from clean dry compressed air. The nano GEN₂ MAX generator offers a cost-effective, reliable and safe alternative to the use of liquid or bottled nitrogen.

generator model	generator price €EUR	rated outlet flow ⁽¹⁾	nitrogen purity at the outlet (maximum oxygen content)*										dimensions (mm)			approx. weight (kg)
			99.999% (10 ppm)	99.99% (100 ppm)	99.95% (500 ppm)	99.9% (0.10%)	99.5% (0.50%)	99% (1%)	98% (2%)	97% (3%)	96% (4%)	95% (5%)	A	B	C	
GEN2-MAX 5.5K	POA	Nm³/h	46	69	88	116	157	184	225	255	284	313	2055	1830	1700	2400
GEN2-MAX 7.5K	POA	Nm³/h	58	86	111	146	198	231	283	320	356	393	2370	1830	1700	2600
GEN2-MAX 9.5K	POA	Nm³/h	68	105	138	180	252	298	363	420	468	518	2620	2235	1803	3300
GEN2-MAX 12K	POA	Nm³/h	87	136	178	232	325	385	470	543	605	669	2633	2591	1803	3900
GEN2-MAX 15K	POA	Nm³/h	107	167	218	284	398	471	575	665	741	820	2620	2667	1803	4900
GEN2-MAX 17K	POA	Nm³/h	127	197	258	337	471	557	680	787	876	970	3028	2718	2108	5600
GEN2-MAX 20K	POA	Nm³/h	155	242	315	412	577	682	833	963	1073	1187	3022	2870	2108	6400
GEN2-MAX 25K	POA	Nm³/h	186	289	377	493	690	816	997	1152	1284	1421	3025	2946	2108	7300
GEN2-MAX 31K	POA	Nm³/h	232	362	473	618	865	1023	1249	1444	1608	1780	3987	3708	3124	8700
GEN2-MAX 39K	POA	Nm³/h	295	459	600	784	1097	1298	1584	1831	2040	2258	4211	3784	3124	10100
GEN2-MAX 50K	POA	Nm³/h	375	584	762	996	1395	1650	2014	2329	2594	2871	4423	3861	3124	12300

pressure correction factors⁽⁴⁾

operating pressure (barg)	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10
correction factor (% units)	0.71	0.77	0.85	0.93	1.00	1.07	1.13	1.19	1.25	1.30	1.35
correction factor (ppm units)	0.68	0.76	0.84	0.92	1.00	1.06	1.11	1.16	1.20	1.23	1.25

temperature correction factors⁽⁴⁾

inlet temperature (°C)	5	10	15	20	25	30	35	40	45	50
correction factor (% units)	1.00	1.00	1.00	1.00	0.98	0.95	0.92	0.88	0.83	0.78
correction factor (ppm units)	1.02	1.02	1.00	1.00	0.96	0.93	0.88	0.83	0.78	0.72

(1) at 100 psig (7 barg) inlet pressure and 68 - 77°F (20 - 25°C) inlet temperature. For outlet flow at all other conditions refer to the correction factors above or contact support@n-psi.com

(2) PDP must always be lower than ambient temperature

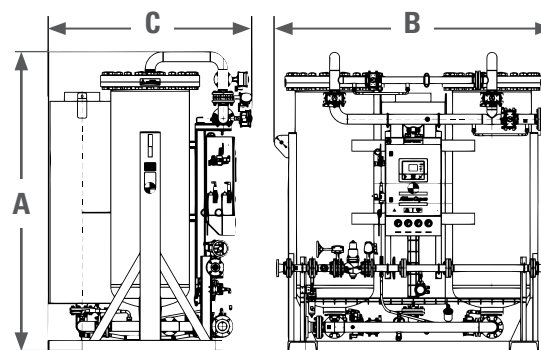
(3) including oil vapor

(4) to be used as a rough guide only. All applications should be confirmed by nano. Contact nano for sizing assistance

(5) technical specifications subject to change without notice. Direct inquiries to sales@n-psi.co.uk

specifications

design operating pressure range	5 - 10 barg
design operating temperature range	5 - 50°C
recommended operating temperature range	5 - 35°C
maximum inlet particulate	0.1 micron
maximum inlet dew point	+7°C PDP ⁽²⁾
recommended inlet dew point	+4°C PDP ⁽²⁾
maximum inlet oil content	0.01 ppm ⁽³⁾
supply voltage	100 - 240 VAC (50 or 60Hz)

GEN₂-Max 5.5k To GEN₂-Max 50k

N₂

MEM GEN² nitrogen

9.5% to 0.3% purity

COMING
2023



The new MEM GEN nitrogen generator uses the latest in membrane separation technology to provide an efficient and consistent supply of nitrogen gas. Its low energy consumption and small footprint design make it very versatile and suitable for most membrane applications. Standard features include:

- O₂ purity
- Soft start valve
- Purity and flow adjustment



design quality

- Integral oxygen analyser to continuously monitor the supplied gas purity
- Soft start valve to protect the membranes and extend life
- Inlet filtration to ensure protection of the membranes against contamination
- Stainless steel construction

guaranteed performance

- 100% performance and function tested
- 2 year warranty

rapid return on investment

- Typical return on investment in less than 24 months
- Significant savings over high pressure cylinder or liquid gas supplies
- Low energy consumption

easy to maintain

- Very low cost of ownership
- Minimal maintenance required



environmentally friendly

- Reduces carbon footprint by eliminating gas delivery
- Positive impact on sustainability targets
- Quiet operation

fits any application

- Up to 16 barg pressure capability
- Wide flow range
- 5% - 0.3% purity range



safe & reliable

- Eliminates high pressure storage and handling hazards
- Removes transportation of liquid hazards

easy to install

- Compact design
- Cabinet design with casters
- Ready to use, no start up time
- No buffer vessels



COMING
2023

MEM GEN₂ nitrogen

N₂

9.5% to 0.3% purity

The new MEM GEN₂ nitrogen generator uses the latest in membrane separation technology to provide an efficient and consistent supply of nitrogen gas. Its low energy consumption and small footprint design make it very versatile and suitable for most membrane applications.

model	price	rated outlet flow	nitrogen purity at the outlet (max. oxygen content)							dimensions			approx weight
	€EUR		0.30%	0.50%	1%	2%	3%	4%	5%	A	B	C	(kg)
MEM GEN ₂ 0019	POA	Nm3/h	0.3	0.4	0.5	0.8	1	1.2	1.5	600	800	400	44
MEM GEN ₂ 0038	POA	Nm3/h	0.6	0.8	1	1.6	2	2.4	3	600	800	400	46
MEM GEN ₂ 0057	POA	Nm3/h	0.9	1.2	1.5	2.4	3	3.6	4.5	600	800	400	48
MEM GEN ₂ 0076	POA	Nm3/h	1.2	1.6	2	3.2	4	4.8	6	600	800	400	50
MEM GEN ₂ 0135	POA	Nm3/h	2.5	2.9	4.4	6.4	8.2	10	12	600	1690	500	134
MEM GEN ₂ 0245	POA	Nm3/h	5.2	5.9	8.9	12.8	16.4	20.1	24	600	1690	500	145
MEM GEN ₂ 0490	POA	Nm3/h	10.4	11.8	17.8	25.6	32.8	40.2	48	600	1690	500	167
MEM GEN ₂ 0540	POA	Nm3/h	11	12.5	19.5	27.9	36.1	44.1	52.8	600	1790	500	168
MEM GEN ₂ 0780	POA	Nm3/h	15.9	18.1	28.1	40.4	52.2	63.8	76.3	800	2300	600	294
MEM GEN ₂ 1080	POA	Nm3/h	22	25	39	55.8	72.2	88.2	105.6	600	1790	500	206
MEM GEN ₂ 1560	POA	Nm3/h	31.8	36.2	56.2	80.8	104.4	127.6	152.6	800	2200	600	391
MEM GEN ₂ 2340	POA	Nm3/h	47.7	54.3	84.3	121.2	156.6	191.4	228.9	1000	2200	600	523
Air Factor			6.2	5.0	4.0	3.2	2.7	2.4	2.2				

specifications

Design operating pressure range	6 – 16 barg
	6 – 10 barg at MEM-GEN 19-57
Design operating temperature range	5 – 50°C
Recommended inlet air temperature	10 – 45°C
Inlet air quality	ISO 8573.1 class 1,4,1
Supply voltage	110 – 240 VAC, 50/60 Hz
Power rating	4 W

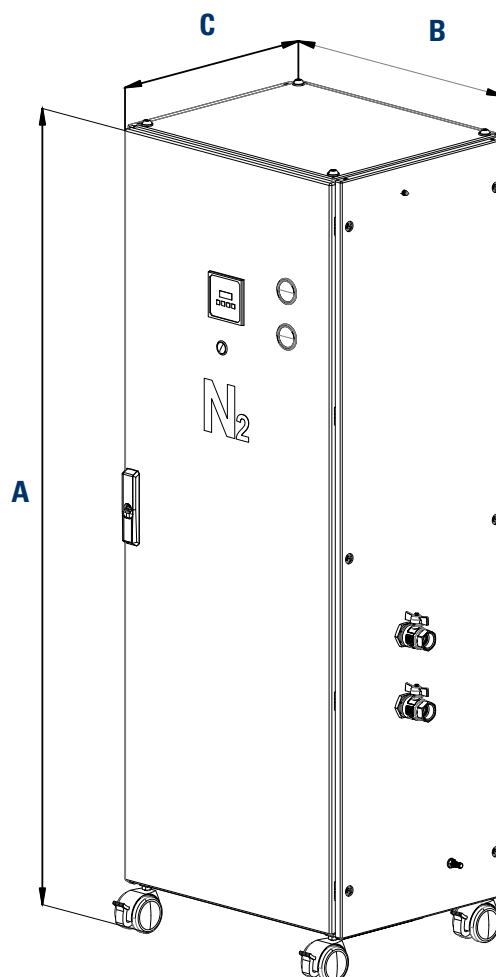
(1) At 7 barg and 35°C inlet conditions. For flow at other conditions contact sales@n-psi.co.uk

(2) To be used as a rough guide only. All applications should be confirmed by nano-purification solutions

(3) Includes oxygen analyser as standard.

service guidelines

- Filter elements should be changed every year
- Zirconia oxygen analyser should be changed every 5 years
- Refer to user guide for full service requirements



B¹ breathing air purification modules

200 to 1,600 Nm³/h

Use this free standing absorber to replace purifiers in existing breathing air systems that are difficult and costly to maintain or are no longer supported by the manufacturer. Reliable, small and easy to install, the nano NBM has cartridges that are easy to replace providing long term performance in a modern design.



model	module price	service kit ⁽²⁾		service kit price (each)	inlet & outlet		rated flow ⁽¹⁾		dimensions (mm)			approx. weight
	€EUR	part no.	qty	€EUR	BSPP	scfm	Nm³/h	A	B	C	kg	
NBM 030	€2,956	NBM SK 030	1	€912	1/2"	30	51	625	263	210	12	
NBM 120	€4,880	NBM SK 120	1	€1,680	1"	120	200	705	426	250	40	
NBM 240	€6,385	NBM SK 240	1	€2,530	1"	240	400	885	426	250	50	
NBM 480	€12,530	NBM SK 240	2	€2,530	2"	480	800	870	400	575	103	
NBM 720	€18,120	NBM SK 240	3	€2,530	2.5"	720	1200	870	400	742	142	
NBM 960	€23,945	NBM SK 240	4	€2,530	2.5"	960	1600	870	400	910	180	

specifications

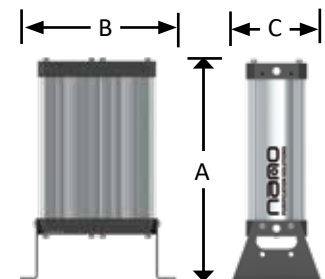
maximum working pressure	16 barg
recommended operating temperature range	1.5°C to 30°C
estimated cartridge life	12,000 hrs ⁽³⁾

inlet air quality requirements ⁽⁴⁾

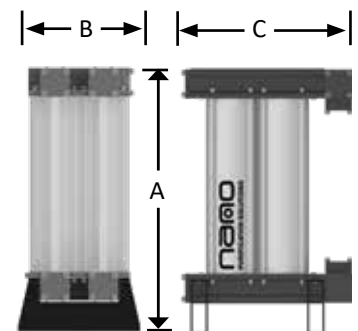
maximum particulate size	0.5 micron
minimum pressure dew point	-40°C pdp
maximum oil content	0.05 mg/m ³

performance

maximum outlet air CO content	0.03 mg/m ³
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NBM 120 & 240



NBM 480 to 960

- (1) at inlet air conditions of 7 barg and 30°C, and 35°C ambient temperature. For all other operating conditions contact sales@n-psi.co.uk for sizing assistance
- (2) includes purification cartridges (including integral inlet diffusers and outlet particulate filters) and all o-rings
- (3) provided as an estimate only. Cartridges must be replaced as required to maintain adequate breathing air quality in accordance with all applicable codes and regulations
- (4) if the air doesn't meet these conditions, contact sales@n-psi.co.uk to confirm the additional treatment required

service guidelines

- M1 and M01 coalescing filter elements should be changed every year
- purification cartridge life of 12,000 hours, or 2 years, whichever is sooner ⁽³⁾
- refer to user guide for full service details

Do you have an older breathing air system that is costly, difficult to maintain or is no longer supported by the manufacturer and a reliable supply of -40°C dew point air? Replace your existing breathing air purifier with a nano NBM module. It's easy to maintain and will keep you and your employees safe.



NBM 960



breathable air systems

B¹

60 to 297 Nm³/h

These independently validated systems provide Grade-D breathing air to stringent international standards for breathing air including EN12021. When hazardous gases may be present, a modular breathing air purifier system is required. The drying and purification stages are built into a single P.S.A. product.

model	list price	inlet connection			outlet connection(s)			inlet flow		outlet flow		dimensions (mm)			approx. weight
	€EUR	size	type	qty	size	type	qty	scfm	Nm ³ /h	scfm	Nm ³ /h	height	width	depth	kg
breathing air panels															
BAP 050 CP N	€3,585	½"	BSPP	1	¾"	BSPP	4	50	85	50	85	584	559	203	13
BAP 050 CP H	€3,585	½"	BSPP	1	¼"	Hansen ⁽¹⁾	4	50	85	50	85	584	559	203	13
BAP 050 CP S	€3,585	½"	BSPP	1	¼"	Schrader ⁽¹⁾	4	50	85	50	85	584	559	203	13
BAP 100 CP N	€4,085	¾"	BSPP	1	¾"	BSPP	4	100	170	100	170	584	559	203	18
BAP 100 CP H	€4,085	¾"	BSPP	1	¼"	Hansen ⁽¹⁾	4	100	170	100	170	584	559	203	18
BAP 100 CP S	€4,085	¾"	BSPP	1	¼"	Schrader ⁽¹⁾	4	100	170	100	170	584	559	203	18
BAP 175 CP N	€4,660	¾"	BSPP	1	¾"	BSPP	6	175	297	175	297	584	559	203	20
BAP 175 CP H	€4,660	¾"	BSPP	1	¼"	Hansen ⁽¹⁾	6	175	297	175	297	584	559	203	20
BAP 175 CP S	€4,660	¾"	BSPP	1	¼"	Schrader ⁽¹⁾	6	175	297	175	297	584	559	203	20
portable breathing air cases															
BAC 035 CP N	€3,600	½"	BSPP	1	¾"	BSPP	4		60		60	432	610	216	13
BAC 035 CP H	€3,600	½"	BSPP	1	¼"	Hansen ⁽¹⁾	4		60		60	432	610	216	13
BAC 035 CP S	€3,600	½"	BSPP	1	¼"	Schrader ⁽¹⁾	4		60		60	432	610	216	13

specifications	BAP Panels	BAC Cases
operating pressure range	1 to 10 barg	1 to 10 barg
recommended operating temp range	1.5 to 30°C	1.5 to 30°C
recommended air inlet quality	-	-

inhalation rates (guide only)	low	6 m ³ /hr	3.5 scfm
	medium	9 m ³ /hr	5.3 scfm
	high	12 m ³ /h	7.0 scfm
	very high	15 m ³ /hr	8.8 scfm

- (1) female style coupling (2) PTC = push to connect fittings (3) contact sales@n-psi.co.uk for higher pressures or flows
- contact sales@n-psi.co.uk for intrinsically safe, integrated CO & O₂ monitoring or any options or equipment not listed
 - quick-disconnect fittings for use in compressed breathing air systems shall be selected to prevent accidental connection
 - to other sources of compressed gas.



BAP 050 - 175



BAC 035

B¹

breathing air purifiers

10 to 826 Nm³/h

These independently validated systems provide Grade-D breathing air to stringent international standards for breathing air including EN12021. When hazardous gases may be present, a modular breathing air purifier system is required. The drying and purification stages are built into a single P.S.A. product.



model	list price	included inlet filtration	inlet & outlet	inlet flow		outlet flow		dimensions (mm)			approx. weight
	€EUR	part no.	BSPP	scfm	Nm ³ /h	scfm	Nm ³ /h	height	width	depth	kg
NBA 030	€3,715	GFNB 0015 M1/M01	3/8" (1)	8	13	6	10	649	263	220	12
NBA 040	€4,130	GFNB 0015 M1/M01	3/8" (1)	12	20	9	15	873	263	280	16
NBA 050	€4,595	GFNB 0025 M1/M01	3/8" (1)	19	32	14	24	1193	263	280	20
NBA 070	€5,450	GFNB 0035 M1/M01	1"	35	59	26	44	762	426	283	40
NBA 090	€6,540	GFNB 0070 M1/M01	1"	55	93	41	70	914	426	283	54
NBA 110	€10,950	GFNB 0105 M1/M01	1"	87	148	65	110	1245	426	283	78
NBA 120	€14,065	GFNB 0125 M1/M01	1"	108	183	81	138	1499	426	283	95
NBA 2110	€19,615	GFNB 0280 M1/M01	2"	172	292	139	219	1288	400	619	166
NBA 2120	€23,055	GFNB 0280 M1/M01	2"	216	367	162	275	1538	400	619	200
NBA 3120	€26,510	GFNB 0325 M1/M01	2"	324	550	243	413	1538	400	787	272
NBA 4120	€32,185	GFNB 0450 M1/M01	2"	432	734	324	550	1538	400	955	363
NBA 6120	€44,280	GFNB 0700 M1/M01	2"	648	1101	486	826	1538	400	1291	524

specifications	NBA 030 to 120	NBA 2110 to 6120
operating pressure range	6 to 16 barg	6 to 10 barg
recommended operating temp range	1.5 to 30°C	1.5 to 30°C
recommended air inlet quality	class 2	class 2
design operating temperature range	1.5 to 50°C	1.5 to 50°C
power supply requirements	85 to 264V AC, 50 or 60Hz	100 to 240 VAC, 50 or 60 Hz
power rating	25W (D ¹) 35W (D ² /D ³)	38W (D ³)
performance ⁽²⁾		
maximum water content	-31°C (pdp)	-31°C (pdp)
maximum oil content	0.01 mg/m ³	0.01 mg/m ³
odour + taste	none	none
O ₂ range	21% ± 1%	21% ± 1%
maximum CO content	< 5 ppm	< 5 ppm
maximum CO ₂ content	<500 ppm	<500 ppm

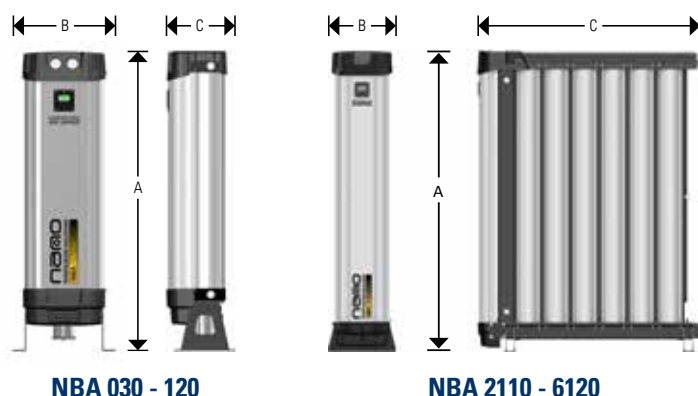
pressure correction factors ⁽³⁾					
inlet air pressure (barg)	6	7	8	9	10
correction factor	0.88	1.00	1.13	1.25	1.38

temperature correction factors ⁽³⁾				
inlet air temperature (°C)	15	20	25	30
correction factor	1.00	1.00	0.90	0.90

(1) PTC = push to connect fittings

(2) air quality to BS EN 12021.2014

(3) to be used as a rough guide only. All applications should be confirmed by nano. Contact sales@n-psi.co.uk.





accessories + service kits

B¹

for B¹ breathing air systems

Use these accessories, upgrades and service kits to customise and maintain your B¹ breathing air system. Replace your cartridges and filter elements regularly to maintain breathing air quality and the integrity of the system.



options

suffix ⁽¹⁾	description	fits	list price
ES	energy saving outlet dew point control & display	all models	€2,445

(1) add this suffix to the dryer model number when ordering

cartridges + silencers



description	maximum life ⁽¹⁾	part no.	fits	list price
NBA cartridge service kits	12,000 hours or 2 years ⁽¹⁾ (whichever occurs first)	NBA SK 030	NBA 030	€810
		NBA SK 040	NBA 040	€935
		NBA SK 050	NBA 050	€1,115
		NBA SK 070	NBA 070	€1,295
		NBA SK 090	NBA 090	€1,760
		NBA SK 110	NBA 110	€2,330
		NBA SK 120	NBA 120	€2,580
		(2) NBA SK 110	NBA 2110	€4,660
		(2) NBA SK 120	NBA 2120	€5,160
		(3) NBA SK 120	NBA 3120	€7,740
		(4) NBA SK 120	NBA 4120	€10,320
		(6) NBA SK 120	NBA 6120	€15,480
		ESK2 NDL	NBA 70 to 120	€635
		ESK3 NDL	NBA 2120 to 6120	€450
replacement exhaust silencer		ESK 130	NBA 070-120	€125
		ESK 030	NBA 030	€115
		ESK 040	NBA 040	€130
		ESK 050	NBA 050	€170
		ESK 3130	NBA 2120-3120	€250
		ESK 6120	NBA 4120-6120	€375

(1) elements and service kits must be changed as needed to maintain breathing air quality. This value is provided as a maximum only. Actual service life may be less

independently validated performance

To ensure the conformance of the nano B¹ breathing air purifiers to BS EN12021:2014 and European Pharmacopoeia 5.0 - Monograph 01/2005:1238, independent third party testing confirmed compliance of air quality to both standards. For further details of the test report and certification, please contact sales@n-psi.co.uk.



S¹ condensate treatment systems



The advanced design of the nano S¹ condensate treatment systems and its proprietary oil absorbing filtration media takes separation technology to a whole new level. No messy carbon bags, no settling tank, no oil collection containers - just clean condensate.

separator model	price	inlet connection		outlet connection		rated flow ⁽²⁾		dimensions (mm)			approx. weight
	€EUR	BSPP	qty	BSPP	qty	scfm	Nm ³ /h	A	B	C	kg
NSS 100	€120	1/4"	1 ⁽¹⁾	3/8"	1 ⁽¹⁾	60	102	239	140	140	2.9
NSS 200	€390	1/2"	4	3/4"	1	120	204	500	216	256	6.0
NSS 600	€575	1/2"	4	3/4"	1	360	612	655	345	282	7.9
NSS 1500	€860	1/2"	4	3/4"	1	900	1529	988	432	495	32.6
NSS 2100	€1,430	1/2"	4	3/4"	1	1250	2124	988	485	495	45.0
NSS 3000	€2,290	1/2"	8	3/4"	1	1800	3058	988	988	821	69.0
NSS 4200	€3,375	1/2"	8	3/4"	1	2500	4248	988	1077	546	95.0
NSS 6000	€8,480	3/4"	2	3/4"	1	3500	5947	1000	1000	701	319
NSS 12000	€11,430	3/4"	2	3/4"	1	7000	11,893	1000	1100	1100	467

separator model	price	inlet connection		outlet connection		rated flow ⁽²⁾		dimensions (mm)			approx. weight
	€EUR	BSPP	qty	BSPP	qty	scfm	Nm ³ /h	A	B	C	kg
NSS 200 D	€420	1/2"	4	3/4"	1	120	204	500	216	256	6.0
NSS 600 D	€645	1/2"	4	3/4"	1	360	612	655	345	282	7.9
NSS 1500 D	€965	1/2"	4	3/4"	1	900	1529	988	432	495	32.6
NSS 2100 D	€1,890	1/2"	4	3/4"	1	1250	2124	988	485	495	45.0
NSS 3000 D	€2,510	1/2"	8	3/4"	1	1800	3058	988	988	821	69.0
NSS 4200 D	€4,360	1/2"	8	3/4"	1	2500	4248	988	1077	546	95.0

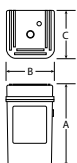
specifications	NSS 100	NSS 200 to 4200	NSS 6000	NSS 12000
expected media life ⁽³⁾	4000 hours	4000 hours	4000 hours	4000 hours
maximum oil carry over	< 20 ppm	< 20 ppm	< 20 ppm	< 20 ppm
warranty	1 year	2 years	2 years	2 years
max condensate inlet pressure	16 barg	16 barg	16 barg	16 barg
inlet condensate temperature range	2 to 40°C	2 to 40°C	2 to 40°C	2 to 40°C

(1) push to connect (PTC)

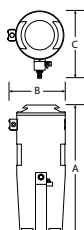
(2) sizing assumes an oil flooded compressor using mineral or synthetic lubricant with a maximum oil carry-over of 5 mg/m³ or less

(3) media life decreases with increased condensate flow. For media life estimates at other flow rates contact sales@n-psi.co.uk

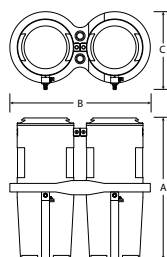
(4) for use with PAG compressor lubricants contact n-psi technical support at sales@n-psi.co.uk



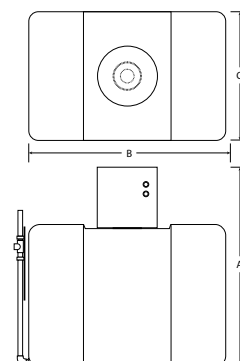
NSS 100



NSS 200 to 2100



NSS 3000 & 4250



NSS 6000 & 12000

accessories + media kits

for S¹ oil water separators

Use these accessories and media kits to customize and maintain your S¹ oil water separators. Increase connections on the NSS 200 through 3000 from 4 to 8, attach two NSS 1500s to make a NSS 3000, and get genuine nano media kits to ensure maximum separation performance.



accessories

description	part no.	fits	list price
additional manifold - increases inlet connections from 4 - 8	NSS 4 CK	NSS 100 to 1500	€135
yoke kit - converts two (2) NSS 1500 to one (1) NSS 3000	NSS 3000 YK	NSS 1500	€680
yoke kit - converts two (2) NSS 2100 to one (1) NSS 4200	NSS 4200 YK	NSS 2100	€1,025
condensate sampling kit	NSS SK1	All	€45



wall mounting kits

description	part no.	fits	list price
wall mounting kit for the NSS 200	NSS 200 WMK	NSS 200	€155
wall mounting kit for the NSS 600	NSS 600 WMK	NSS 600	€165

replacement media kits

description	part no.	fits	list price
complete replacement separator with wall mounting bracket	NSS 100	NSS 100	€115
(1) media bag*, (1) pre filter bag & (1) retainer clip	NSS 200 MRK	NSS 200	€200
(1) media bag*, (1) pre filter bag & (1) retainer clip	NSS 600 MRK	NSS 600	€300
(1) media bag*, (1) pre filter bag & (2) retainer clips	NSS 1500 MRK	NSS 1500	€485
(2) media bag*, (1) pre filter bag & (2) retainer clips	NSS 2100 MRK	NSS 2100	€765
(2) media bags*, (2) pre filter bags & (4) retainer clips	NSS 3000 MRK	NSS 3000	€950
(4) media bags*, (2) pre filter bags & (4) retainer clips	NSS 4200 MRK	NSS 4200	€1,515
replacement intermediate bulk container	NSS 6000 MRK	NSS 6000	€5,235
replacement intermediate bulk container	NSS 12000 MRK	NSS 12000	€8,110

* patented non-carbon based media



replacement media kits

description	part no.	fits	list price
(1) media bag, (1) pre filter bag & (1) retainer clip	NSS 200 D MRK	NSS 200 D	€245
(1) media bag, (1) pre filter bag & (1) retainer clip	NSS 600 D MRK	NSS 600 D	€370
(1) media bag, (1) pre filter bag & (2) retainer clips	NSS 1500 D MRK	NSS 1500 D	€600
(2) media bag, (1) pre filter bag & (2) retainer clips	NSS 2100 D MRK	NSS 2100 D	€935
(2) media bags, (2) pre filter bags & (4) retainer clips	NSS 3000 D MRK	NSS 3000 D	€1,195
(4) media bags, (2) pre filter bags & (4) retainer clips	NSS 4200 D MRK	NSS 4200 D	€1,870





nano carries a wide range of condensate drains for a variety of applications. Choose from timed solenoid drains, an automatic float drain, and magnetic or level controlled zero air loss drains. Drains are also available for high-pressure applications in brass or stainless steel.



NPTCD premium timed combination solenoid (brass)

drain model	drain price	service kit		inlet	outlet	pressure rating	supply voltage
	€EUR	part no.	€EUR	BSPP	BSPP	barg	1ph
NPTCD 12 115 B	€105	NPTD MK	€25	½" (m)	½" (f)	16	115 V
NPTCD 12 230 B	€105	NPTD MK	€25	½" (m)	½" (f)	16	230 V
NPTCD 12 24A B	€115	NPTD MK	€25	½" (m)	½" (f)	16	24 VAC
NPTCD 12 24D B	€115	NPTD MK	€25	½" (m)	½" (f)	16	24 VDC



NPTD premium timed solenoid (brass)

drain model	drain price	service kit		inlet	outlet	pressure rating	supply voltage
	€EUR	part no.	€EUR	BSPP	BSPP	barg	1ph
NPTD 12 115 B	€95	NPTD MK	€25	½" (m)	½" (f)	16	115 V
NPTD 12 230 B	€95	NPTD MK	€25	½" (m)	½" (f)	16	230 V
NPTD 12 24A B	€100	NPTD MK	€25	½" (m)	½" (f)	16	24 VAC
NPTD 12 24D B	€100	NPTD MK	€25	½" (m)	½" (f)	16	24 VDC



NPTD premium timed solenoid (stainless steel)

drain model	drain price	service kit		inlet	outlet	pressure rating	supply voltage
	€EUR	part no.	€EUR	BSPP	BSPP	barg	1ph
NPTD 14 115 S	€205	NPTD MK	€25	¼" (f)	¼" (f)	16	115 V
NPTD 14 230 S	€205	NPTD MK	€25	¼" (f)	¼" (f)	16	230 V
NPTD 38 115 S	€205	NPTD MK	€25	¾" (f)	¾" (f)	16	115 V
NPTD 38 230 S	€205	NPTD MK	€25	¾" (f)	¾" (f)	16	230 V
NPTD 12 115 S	€205	NPTD MK	€25	½" (f)	½" (f)	16	115 V
NPTD 12 230 S	€205	NPTD MK	€25	½" (f)	½" (f)	16	230 V



NHPTD high pressure timed solenoid (brass)

drain model	drain price	service kit		inlet	outlet	pressure rating	supply voltage
	€EUR	part no.	€EUR	BSPP	BSPP	barg	1ph
NHPTD 14 115 40 B	€165	NHPTD 40 MK	€40	¼" (f)	¼" (f)	40	115 V
NHPTD 14 230 40 B	€165	NHPTD 40 MK	€40	¼" (f)	¼" (f)	40	230 V
NHPTD 12 115 40 B	€165	NHPTD 40 MK	€40	½" (f)	½" (f)	40	115 V
NHPTD 12 230 40 B	€165	NHPTD 40 MK	€40	½" (f)	½" (f)	40	230 V
NHPTD 14 115 80 B	€185	NHPTD 80 MK	€40	¼" (f)	¼" (f)	80	115 V
NHPTD 14 230 80 B	€185	NHPTD 80 MK	€40	¼" (f)	¼" (f)	80	230 V
NHPTD 12 115 80 B	€185	NHPTD 80 MK	€40	½" (f)	½" (f)	80	115 V
NHPTD 12 230 80 B	€185	NHPTD 80 MK	€40	½" (f)	½" (f)	80	230 V
NHPTD 14 115 250 S ⁽¹⁾	€295	NHPTD 250 MK	€155	¼" (f)	¼" (f)	250	115 V
NHPTD 14 230 250 S ⁽²⁾	€295	NHPTD 250 MK	€155	¼" (f)	¼" (f)	250	230 V

(1) For additional voltage options contact sales@n-psi.co.uk for further details

(2) 250 barg drains are stainless steel



zero air loss condensate drains

ND

up to 16 barg

nano carries a wide range of condensate drains for a variety of applications. Choose from timed solenoid drains, an automatic float drain, and magnetic or level controlled zero air loss drains. Drains are also available for high-pressure applications in brass or stainless steel.



NASD air saver

drain model	drain price	inlet	outlet	pressure rating
	€EUR	BSPP	BSPP	barg
NASD 25 230	€285	1" (f)	1" (f)	16
NASD 50 230	€780	2" (f)	2" (f)	16
Remote switching kit	€205	-	-	-



NED level controlled zero air loss

drain model	drain price	flow rate	inlet	outlet	pressure rating	supply voltage (4)	service kit (1)	
	€EUR	m³/m	BSPP	BSPP	barg	1ph/50Hz	part no.	€EUR
NED 4L B12 230	€265	3	½" (m)	¾" (f)	16	230 V	NED4-500L	€130
NED 8LC B12 230	€475	7.5	½" (f) x2	¾" (f)	16	230 V	NED4-500L	€130
NED 16LC B12 230	€555	15	½" (f) x2	¾" (f)	16	230 V	NED4-500L	€130
NED 40LC B12 230	€640	30	½" (f) x2	¾" (f)	16	230 V	NED4-500L	€130
NED 160LC B12 230	€1,065	158	½" (G) x2	¾" (G)	16	230 V	NED4-500L	€130



NMD magnetic operated zero air loss

drain model	drain price	inlet	outlet	pressure rating	service kit (1)	
	€EUR	BSPP	BSPP	barg	part no.	€EUR
NMD 6 ⁽³⁾	€120	½" (f)	¾" (f)	16	NMD MK6	€60
NMD 12	€160	½" (f)	¾" (f)	16	NMD MK12	€60

(1) consult sales@n-psi.co.uk for service kit contents

(2) NED4L is made from glass reinforced plastic. All other NED-LC models are aluminium

(3) the NMD 6 is a smaller, more compact version of the NMD 12 and is painted black

(4) 115V and 24V DC options are available, contact sales@n-psi.co.uk for more information

notes

A series of horizontal dotted lines for taking notes.

terms and conditions

1. **Acceptance:** All orders are subject to approval and acceptance by Seller. A written acknowledgement sent to Buyer of orders so approved shall constitute such acceptance by Seller. Seller may at any time alter or suspend credit, refuse shipment or cancel unfilled orders when, in Seller's opinion, the financial condition of the Buyer warrants it, when delivery is delayed by fault of Buyer or Buyer is delinquent in any payment. No order accepted by Seller will be subject to cancellations or any other modifications except with Seller's prior written consent. Any such modifications may be subject to a charge as determined by Seller. The terms of this contract shall supersede any conflicting terms contained on Buyer's purchase order or any document or instrument submitted by Buyer.
2. **Prices, Taxes and Payment:** All prices are firm unless otherwise agreed in writing. Seller reserves the right to change the prices and specifications of its Products at any time without notice. Any tax, duty, custom or other fee of any nature imposed upon this transaction by any international, export, import, federal, state or local governmental authority shall be paid by Buyer in addition to the price quoted or invoiced. In the event Seller is required to prepay any such tax, Buyer will reimburse Seller. Payment terms shall be net 30 days after shipment by Seller.
3. **Delivery and Shipment:** Seller will make every effort to ship the Products or provide the services hereunder in accordance with the requested date provided Seller accepts no liability for any losses or for general, special or consequential damages arising out of delays in delivery. Shipment of all Products shall be F.O.B point of distribution by Seller. Identification of the Products shall occur when they leave Seller point of distribution, at which time title and risk of loss shall pass to Buyer. All shipment costs shall be paid by Buyer and if prepaid by Seller the amount thereof shall be reimbursed to Seller within thirty (30) days after notice of such payment to Buyer.
4. **Inspection:** Buyer shall inspect all items upon arrival and shall give written notice to Seller within ten (10) days of arrival of any claim for shortage or non-conformance with the terms hereof. If Buyer shall fail to give such notice, all items shall be deemed to conform, and Buyer shall be bound to accept and pay for items in accordance with the terms hereof.
5. **Returns:** No product may be returned without Seller's prior written approval. Transportation charges are to be prepaid by Buyer. Returned goods are subject to the Seller's inspection and acceptance. Seller may, at its discretion, either (a) refund to Buyer the amount paid for the returned items, (b) repair the returned items or (c) replace one or all returned items within a reasonable time after Seller determines that the returned goods are not in accordance herewith, and in such event Seller shall not be liable for any damages arising from the defective delivery or delay caused thereby. When expressly authorised by Seller in writing, unused products may be returned to Seller subject to service handling, restocking charges and rebuilding charges to "as new" condition.
6. **Force Majeure:** Seller shall not be liable for any delays in the delivery of orders, due in whole or in part, directly or indirectly, to fire, act of God, strike, shortage of raw materials, supplies or components, retooling, upgrading of technology, delays of carriers, embargo, government order or directive, or any other circumstance beyond Seller reasonable control.
7. **Indemnification Against Infringement:** The Buyer warrants that any instructions, plans or designs furnished or given by it shall not be such as will cause the Seller to infringe any letters patent, copyright, registered design, right of confidence or trade mark in execution of the Buyer's order and agrees to indemnify the Seller against all claims, costs or other expenses incurred by the Seller in respect thereof.
8. **Indemnification:** Buyer shall indemnify and hold harmless Seller its affiliates, directors, officers, agents and employees from all losses, claims, damages, expenses or liabilities of any kind (including attorney's fees and court costs) resulting from or arising out of any use by Buyer of the products purchased herein.
9. Any quotation is legally binding upon us only after you have received a written acceptance from us of any order from you based on that quotation and we can at any point in time withdraw our quotation. By placing the order you certify that the order will not be used for any purpose connected with chemical, biological or nuclear weapons, or missiles capable of delivering such weapons, nor any other purpose prohibited by applicable law. Furthermore, you certify that you will comply with applicable local and international foreign trade and customs requirements or any embargos or other sanctions. You will immediately notify us in writing of any breach of this statement. We shall not be obligated to fulfill a binding order or agreement or any part thereof or related to it, nor liable for its non-fulfillment, if such fulfillment is prevented by any impediments arising out of applicable local and/or international foreign trade and customs requirements or any embargos or other sanctions. We shall have the right to terminate a binding order or agreement or any part thereof or related to it, with immediate effect and without prior notice, if fulfillment is prevented by any impediments arising out of applicable local or international foreign trade and customs requirements or any embargos or other sanctions. The customer shall indemnify us for any direct or indirect damages arising in consequence of any breach of this statement.
10. **Repairs, Alteration and Modification:** Any repairs made to the products shipped by the Seller shall be at the expense of the Buyer unless specifically authorised by the Seller in writing. Alteration or modifications to the product involving welding, soldering, drilling or machining by the Buyer are not permitted or approved by the Seller without specific authorisation in writing by the Seller. Any unauthorised alteration or modification by the Buyer will void the warranty.
11. **Warranty:** Seller warrants its product against defects in workmanship and material for a period (see specific product warranty period) from the date of shipment from Seller or Seller's distributor. Warranty applies under normal use and service and otherwise when such products are used in accordance with instructions furnished by Seller and for purposes disclosed in writing at the time of purchase, if any. Seller's liability under this warranty shall be limited to repair or replacement, F.O.B point of distribution, of any defective products or part which, having been returned to the factory with transportation charges prepaid, has been inspected and determined by the Seller to be defective. Under no circumstances shall the Seller be liable to Buyer or any other third party for any loss of profits or other direct or indirect costs, expenses, losses or consequential damages arising out of or as a result of any defects in or failure of its products or any part or parts thereof or arising out of or as a result of parts or components incorporated in Seller's products but not supplied by the Seller.
12. **Arbitration:** Any and all disputes or controversies arising under, out of or in connection with this contract or the sale or performance of the products shall be resolved by final and binding arbitration in the UK.
13. **General:** Seller reserves the right to make changes in design at any time without incurring any obligation to make such changes in any items previously purchased, whether or not delivered. Buyer is responsible for complying with all laws and regulations applicable to the purchase, export or import of the product of any state or country. Seller's liability to Buyer under this Agreement shall be limited to the value of the products that are subject to such claim. In no event will Seller be liable to Buyer for lost profits or revenues, claims of Buyer's customers or any special, indirect, consequential or incidental damages. The failure of the Seller to enforce at any time any of the provisions of this contract, to exercise any election or option provided herein or to require at any time performance by Buyer of any of the provisions herewith shall in no way be construed to be a waiver of any such provisions or the right of Seller thereafter to enforce each and every provision.
14. **Seller:** For purposes herein, the term Seller shall mean, as applicable, nano purification solutions Ltd. For purposes of Sections 7, 8 and



Experience. Customer. Service.

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