



Compressed Air Treatment Nitrogen Generation Breathing Air Purification



Product Range
Price Guide

About Us

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 compressed air and gas purification, on-site gas generation and process cooling. Our experience in these fields 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 customer's 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 customer's 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.



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Technical specifications subject to change without notice. Direct enquiries to sales_uk@nano-purification.com or contact +44 (0) 191 497 7700.

nano is continually expanding its product offering to better assist you with your compressed air and gas treatment needs. For assistance or for items not yet listed here, please contact sales_uk@nano-purification.com or call +44 (0) 191 497 7700. nano reserves the right to update this price list at any time. If this revision is more than 90 days old, please contact us to ensure you have the latest copy.

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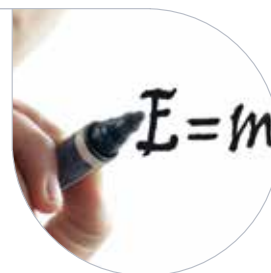


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Technical Resources

Conversion Tables

Convert	Pressure							
	psi	IN H ₂ O	mmHg	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
mmHg	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 /min	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 /min	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	ft ³	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 m³			Concentration	Vapour	Liquid	Total Oil ⁽¹⁾
	0.1 – 0.5 micron	0.5 – 1 micron	1 – 5 micron	mg/m³	Pressure Dew Point	g/m³	mg/m³
0	As Specified By The Equipment User Or Supplier						
1	≤ 20,000	≤ 400	≤ 10	-	≤ -70°C	-	≤ 0.01
2	≤ 400,000	≤ 6,00	≤ 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	-

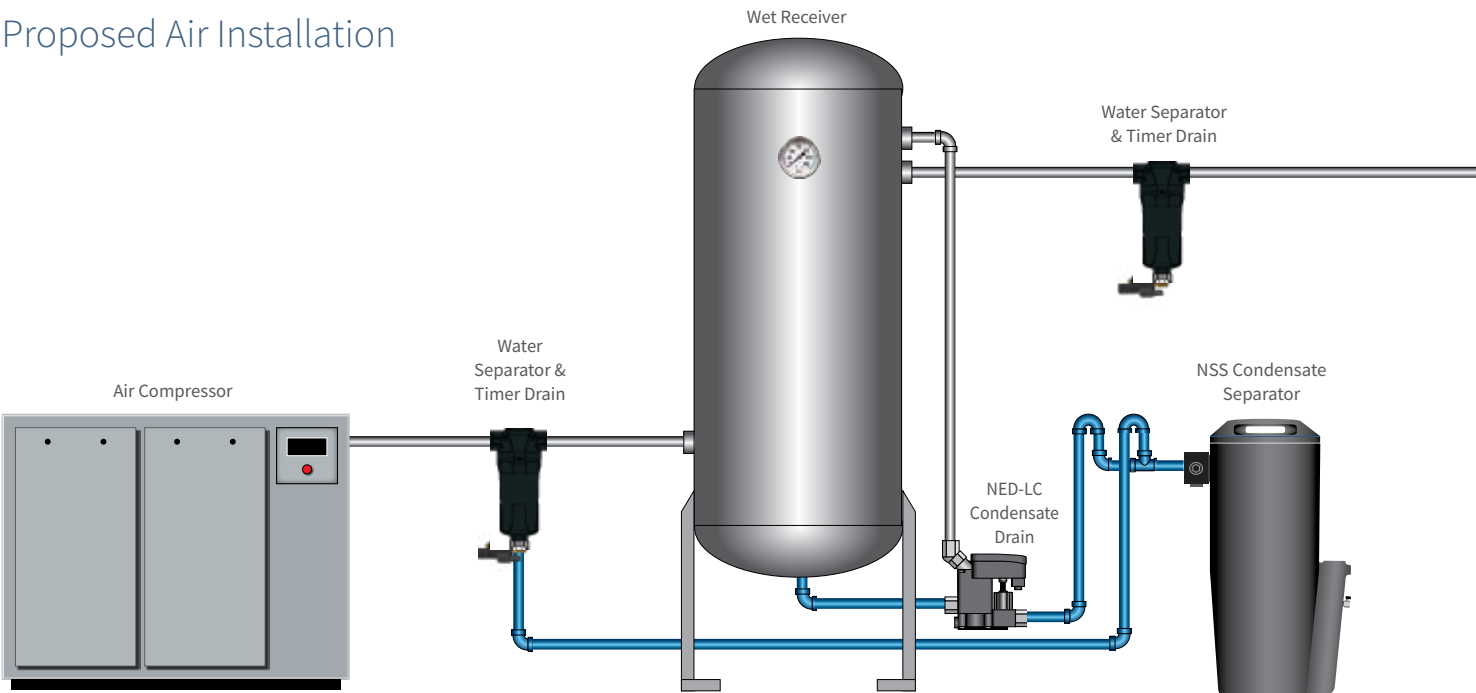
(1) All forms of oil including liquids, aerosols and vapour.

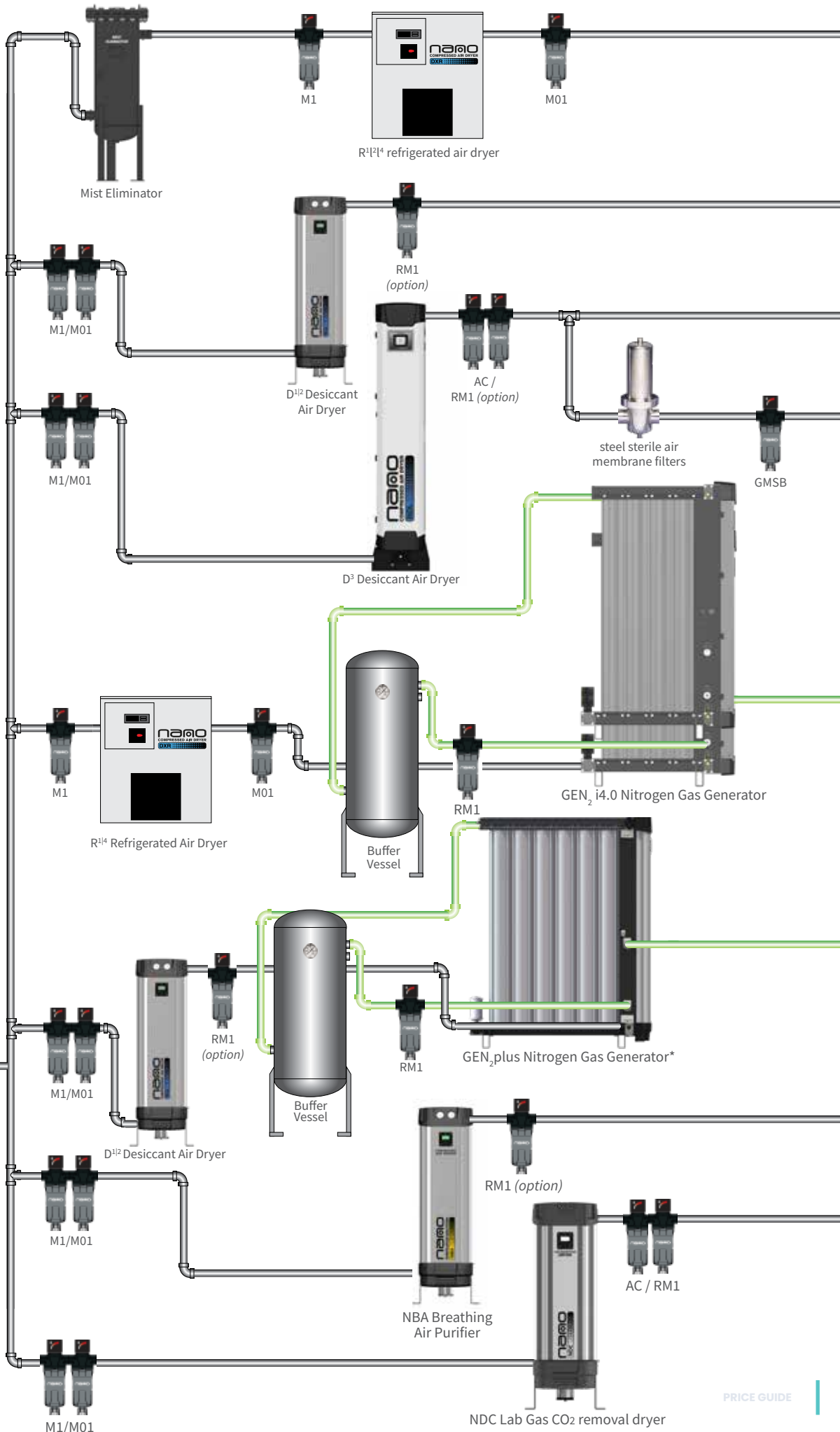
Independently Validated Performance

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



Proposed Air Installation





ISO Class 1.4.2|1.5.2|1.6.2 General Purpose

- Main ring air treatment
- Woodworking
- Temperature control system
- Instrumentation
- Pneumatic tools
- Abrasives blasting

ISO Class 1.2.2|1.3.2 High Purity Air

- Medical dental air
- Pipeline purging
- Lasers
- Optics
- Food packaging

ISO Class 1.2.1|1.1.1 Ultra High Purity Air

- Semiconductor
- Dairies
- Biotech
- Pharmaceutical

*SQF (Safe Quality Food specification)

N₂ Supply (<99%)

- Chemical transfer
- Blanketing
- Inerting

N₂ Supply (>99%)

- Food packaging
- Soil remediation
- Wave soldering
- UHP lab gases
- Laser cutting

*with integrated dryer

ISO Class 1.2.1 Breathable Air

- Breathable air
- CO Elimination

Lab Gas LC/MS CO₂ Free Air





CENTRIFUGAL WATER SEPARATORS

10 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.

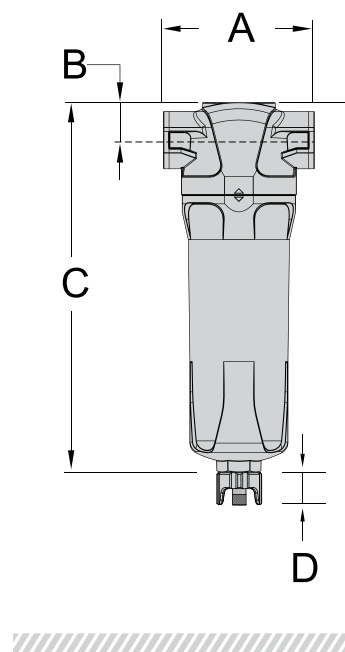
F¹

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	€146	1/8"	6	10	50	17	157	28	0.2
GFNB 0015 WS	€152	1/4"	15	25	50	17	157	28	0.2
GFNB 0025 WS	€172	1/4"	25	42	70	24	231	28	0.6
GFNB 0035 WS	€190	3/8"	35	59	70	24	231	28	0.6
GFNB 0050 WS	€200	1/2"	50	85	70	24	231	28	0.6
GFNB 0070 WS	€222	1/2"	70	119	127	32	285	42	1.7
GFNB 0125 WS	€256	1"	125	212	127	32	371	42	1.7
GFNB 0175 WS	€330	1"	175	297	127	32	371	42	1.7
GFNB 0280 WS	€494	1 1/4"	280	476	140	40	475	42	3
GFNB 0325 WS ⁽²⁾	€565	1 1/2"	325	553	140	40	475	42	3
GFNB 0700 WS	€845	2"	700	1189	170	53	708	42	4.9
GFNB 0850 WS	€1,210	2 1/2"	850	1445	220	70	736	42	8
GFNB 1500 WS	€1,440	3"	1500	2549	220	70	1005	42	8

Specifications	0006 to 0050	0070 to 1500
Design operating pressure range (barg)	0 to 16	1.5 to 16
Design operating temperature (°C)	1.5 to 80	1.5 to 80
Recommended operating temperature range (°C)	1.5 to 80	1.5 to 80
Condensate drain (included)	GFDK 0050	GFDK 1500

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.
- (2) 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_uk@nano-purification.com for available options.
- (3) Technical specifications subject to change without notice. Direct enquiries to sales_uk@nano-purification.com.



PERFORMANCE VALIDATED FILTERS

10 to 2,550 Nm³/h

nano F^{1.1} 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.



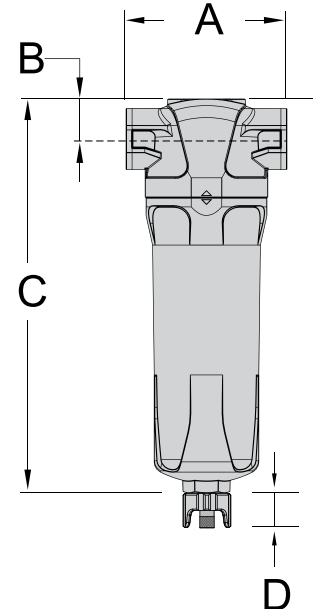
Filter Model	Filter Price	Replacement Element	Element Price	Inlet & Outlet	Rated Flow ⁽¹⁾		Dimensions (mm)				Approx. Weight
	€EUR	PART NO.	€EUR	BSPP	SCFM	Nm ³ /h	A	B	C	D	kg
GFNB 0006 (grade)	€194	GEN 0015 (grade)	€66	1/8"	6	10	50	17	157	28	0.3
GFNB 0015 (grade)	€206	GEN 0015 (grade)	€66	1/4"	15	25	50	17	157	28	0.3
GFNB 0025 (grade)	€220	GEN 0032 (grade)	€87	1/4"	25	42	70	24	231	28	0.6
GFNB 0032 (grade)	€250	GEN 0032 (grade)	€87	3/8"	32	54	70	24	231	28	0.6
GFNB 0050 (grade)	€308	GEN 0050 (grade)	€106	1/2"	50	85	70	24	231	28	0.6
GFNB 0070 (grade)	€388	GEN 0105 (grade)	€118	1/2"	70	119	127	32	285	42	1.7
GFNB 0085 (grade)	€450	GEN 0105 (grade)	€118	3/4"	85	145	127	32	285	42	1.7
GFNB 0105 (grade)	€530	GEN 0105 (grade)	€118	1"	105	178	127	32	285	42	1.7
GFNB 0125 (grade)	€585	GEN 0175 (grade)	€152	3/4"	125	212	127	32	371	42	2.0
GFNB 0175 (grade)	€650	GEN 0175 (grade)	€152	1"	175	298	127	32	371	42	2.0
GFNB 0280 (grade)	€755	GEN 0325 (grade)	€218	1 1/4"	280	476	140	40	475	42	3.0
GFNB 0325 (grade)	€895	GEN 0325 (grade)	€218	1 1/2"	325	553	140	40	475	42	3.0
GFNB 0450 (grade)	€1,220	GEN 0450 (grade)	€250	2"	450	765	170	53	508	42	4.9
GFNB 0700 (grade)	€1,510	GEN 0700 (grade)	€324	2"	700	1190	170	53	708	42	5.5
GFNB 0850 (grade)	€1,790	GEN 0900 (grade)	€396	2 1/2"	850	1445	220	70	736	42	10.5
GFNB 0900 (grade)	€1,960	GEN 0900 (grade)	€396	3"	900	1530	220	70	736	42	10.5
GFNB 1250 (grade)	€2,280	GEN 1250 (grade)	€518	3"	1250	2125	220	70	857	42	11.5
GFNB 1500 (grade)	€2,680	GEN 1500 (grade)	€585	3"	1500	2550	220	70	1005	42	12.5

Specifications	0006 to 0015	0025 to 0050	0070 to 1500
Design operating pressure range (barg)	0 to 16	0 to 16	1.5 to 16 ⁽²⁾
DP equipment	not fitted	indicator - GFDP 0050	gauge - GFDP 1500
Condensate drain (included) ⁽³⁾	GFDK 0050	GFDK 0050	GFDK 1500

Element Performance ⁽³⁾	M1	M01	AC	RM1
Maximum oil content (ISO class) ⁽⁴⁾	3	2	1	3
Particle removal (microns)	1	0.01	-	1
Max oil carry over at 20°C (ppm or mg/m ³)	0.3	0.01	0.003	0.3
Design operating temperature range (°C)	0 to 80	0 to 80	0 to 50	0 to 80

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 GFDP 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_uk@nano-purification.com for available options.
 (4) Per ISO 8573-1:2010
 (5) Technical specifications subject to change without notice. Direct enquiries to sales_uk@nano-purification.com.





MEDICAL VACUUM FILTERS

7 to 490 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.

F¹

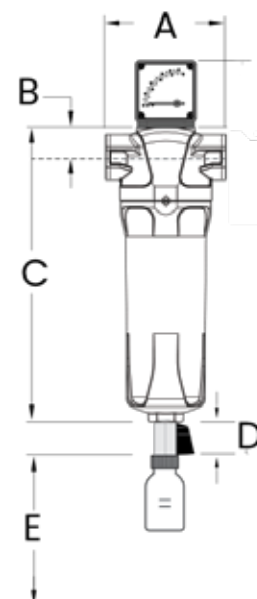
Filter Model	Filter Price	Replacement Element	Element Price	Inlet & Outlet ⁽¹⁾	Exhaust Flow Rate ⁽²⁾ (Vacuum Displacement)		Dimensions (mm)			Approx. Weight
	€EUR	Part No.	€EUR	BSP	SCFM	Nm ³ /h	A	B	C	kg
GMVB 0032	€338	GEN 0032 (grade)	€114	3/8"	4.1	7	70	25	169	0.5
GMVB 0050	€428	GEN 0050 (grade)	€126	1/2"	6.5	11	70	25	211	0.5
GMVB 0070	€492	GEN 0105 (grade)	€134	1/2"	11.8	20	100	34	246	1.58
GMVB 0085	€585	GEN 0105 (grade)	€134	3/4"	14.7	25	100	34	246	1.58
GMVB 0105	€615	GEN 0105 (grade)	€134	1"	17.7	30	127	32	285	1.7
GMVB 0125	€645	GEN 0175 (grade)	€202	1"	20.6	35	100	34	366	1.99
GMVB 0175	€830	GEN 0175 (grade)	€202	1"	29.4	50	100	34	366	1.99
GMVB 0280	€985	GEN 0325 (grade)	€238	1 1/4"	44.1	75	122	42	419	2.81
GMVB 0325	€1,080	GEN 0325 (grade)	€238	1 1/2"	50	85	122	42	419	2.81
GMVB 0450	€1,410	GEN 0450 (grade)	€276	2"	67.5	115	146	52	432	4.17
GMVB 0700	€1,660	GEN 0700 (grade)	€350	2"	106	180	146	52	738	6.30
GMVB 0850	€1,960	GEN 0900 (grade)	€432	2 1/2"	118	200	210	67	532	8.48
GMVB 0900	€2,150	GEN 0900 (grade)	€432	3"	138	235	210	67	532	8.48
GMVB 1250	€2,500	GEN 1250 (grade)	€575	3"	212	360	210	67	750	10.47
GMVB 1500	€2,950	GEN 1500 (grade)	€645	3"	288	490	210	67	908	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
DOP particle removal efficiency	>99.995%
Pressure drop - clean (mbar)	20
Pressure drop - recommended replacement (mbar)	100
Recommended operating temperature range (°C)	2 to 60
Design operating temperature range (°C)	2 to 60
Flow direction through element	outside to inside
Maximum element life	6 months or 1000 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 enquiries to sales_uk@nano-purification.com.



MEDICAL STERILE FILTERS

10 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	kg
GMSB 0006	€224	GEN 0015 MS	€124	1/8"	6	10	50	17	157	0.45
GMSB 0015	€234	GEN 0015 MS	€124	1/4"	15	25.5	50	17	157	0.45
GMSB 0025	€252	GEN 0032 MS	€148	1/4"	25	42.5	70	24	231	0.8
GMSB 0032	€290	GEN 0032 MS	€148	3/8"	32	59.5	70	24	231	0.8
GMSB 0050	€356	GEN 0050 MS	€164	1/2"	50	85	70	24	231	0.8
GMSB 0070	€450	GEN 0105 MS	€218	1/2"	70	119	127	32	285	2.1
GMSB 0085	€512	GEN 0105 MS	€218	3/4"	85	144	127	32	285	2.1
GMSB 0105	€570	GEN 0105 MS	€218	1"	105	178	127	32	371	2.4
GMSB 0125	€625	GEN 0175 MS	€264	3/4"	125	212	127	32	371	2.4
GMSB 0175	€750	GEN 0175 MS	€264	1"	175	297	127	32	371	2.4
GMSB 0280	€870	GEN 0325 MS	€332	1 1/4"	280	476	170	53	508	5.4
GMSB 0325	€1,090	GEN 0325 MS	€332	1 1/2"	325	550	170	53	508	5.6
GMSB 0450	€1,220	GEN 0450 MS	€386	2"	450	765	170	53	508	5.6
GMSB 0700	€1,730	GEN 0700 MS	€560	2"	700	1190	170	53	708	6.2
GMSB 0850	€2,050	GEN 0900 MS	€730	2 1/2"	850	1445	220	70	736	11.6
GMSB 0900	€2,250	GEN 0900 MS	€730	3"	0900	1530	220	70	736	11.6
GMSB 1250	€2,620	GEN 1250 MS	€850	3"	1250	2125	220	70	857	12.6
GMSB 1500	€3,080	GEN 1500 MS	€1,070	3"	1500	2550	220	70	1005	13.6

Specifications	GMSB 0006 to 0015	GMSB 0025 to 0050	GMSB 0070 to 1500
Design operating pressure range (barg)	0 to 16	0 to 16	0 to 16
Condensate drain (included)	MDV 25	MDV 25	MDV 50
Differential pressure indicator / gauge	-	NDP 50	NDP 1500
Filter housing material	cast aluminum with E-Coat™ & powder top coat finish		

Element Performance	MS
DOP efficiency ⁽³⁾	>99.9999%
Particle removal (micron)	0.01
Recommended operating temperature range (°C)	1.5 to 100
Design operating temperature range (°C)	1.5 to 120
Maximum autoclave temperature (°C) ⁽⁴⁾	134
Pressure drop - clean (mbar)	100
Pressure drop - recommended replacement (mbar)	400
End cap material	stainless steel
Flow direction through element	outside to inside
Maximum steam sterilisation cycles	100
Maximum element life	6 months or 1000 hours

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.

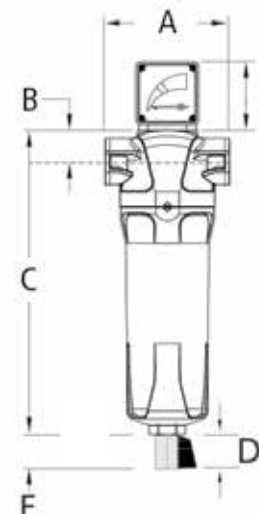
(3) As specified in HTM 02-01 medical gas pipeline systems.

(4) Applies to the element only.

(5) 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

for F¹ 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.

F¹

Differential Pressure Indicators + Gauges

Description	Fits	Part Number	Price
Pop Up Differential Pressure Indicator	GFNB 0025 to 0050	GFDP 0050	€74
Differential Pressure Gauge	GFNB 0070 to 1500	GFDP 1500	€150
3.5 barg Differential Volt Free Contact ⁽¹⁾	GFNB 0070 to 1500	GFDPE 0250	€224
10 barg Differential Volt Free Contact ⁽¹⁾	GFNB 0070 to 1500	GFDPE 0700	€224
15 barg Differential Volt Free Contact ⁽¹⁾	GFNB 0070 to 1500	GFDPE 1000	€224



O-Ring Seal Kits

Description	Fits	Part Number	Price
GFNB Housing O-Ring Seal Kit	GFNB 0006 to 0015	GFSK 0015	€19
	GFNB 0025 to 0050	GFSK 0050	€19
	GFNB 0070 to 0175	GFSK 0175	€19
	GFNB 0280 to 0325	GFSK 0325	€20
	GFNB 0450 to 0700	GFSK 0700	€22
	GFNB 0850 to 1500	GFSK 1500	€32



Connecting Kits

Description	Fits	Part Number	Price
GFNB Connecting Kit for 2x Filters	GFNB 0006 to 0015	GFCK-2 0015	€24
	GFNB 0025 to 0050	GFCK-2 0050	€24
	GFNB 0070 to 0175	GFCK-2 0175	€28
	GFNB 0280 to 0325	GFCK-2 0325	€28
	GFNB 0450 to 0700	GFCK-2 0700	€31
	GFNB 0850 to 1500	GFCK-2 1500	€33
GFNB Connecting Kit for 3X Filters	GFNB 0006 to 0015	GFCK-3 0015	€36
	GFNB 0025 to 0050	GFCK-3 0050	€36
	GFNB 0070 to 0175	GFCK-3 0175	€39
	GFNB 0280 to 0325	GFCK-3 0325	€39
	GFNB 0450 to 0700	GFCK-3 0700	€45
	GFNB 0850 to 1500	GFCK-3 1500	€48
GFNB Connecting Kit for 4x Filters	GFNB 0006 to 0015	GFCK-4 0015	€45
	GFNB 0025 to 0050	GFCK-4 0050	€45
	GFNB 0070 to 0175	GFCK-4 0175	€52
	GFNB 0280 to 0325	GFCK-4 0325	€52
	GFNB 0450 to 0700	GFCK-4 0700	€60
	GFNB 0850 to 1500	GFCK-4 1500	€63



(1) Does not include gauge.



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
GFNB Wall Mounting kit	GFNB 0006 to 0015	GFMK 0015	€33
	GFNB 0025 to 0050	GFMK 0050	€33
	GFNB 0070 to 0175	GFMK 0175	€43
	GFNB 0280 to 0325	GFMK 0325	€43
	GFNB 0450 to 0700	GFMK 0700	€46
	GFNB 0850 to 1500	GFMK 1500	€57



Internal Condensate Drains + Adapters

Description	Fits	Part Number	Price
Automatic Float Drain with Manual Override	GFNB 0006 to 0050	GFDK 0050	€50
	GFNB 0070 to 1500	GFDK 1500	€61



Sterilisable Glass Drain Flasks

Description	Fits	Part Number	Price
100 ml Flask	GMVB 0025 to 0085	MLF 100	€33
250 ml Flask	GMVB 0125 to 1500	MLF 250	€37
100 ml Flask with Polymer coating	GMVB 0025 to 0085	MLA 100	€51
250 ml Flask with Polymer coating	GMVB 0125 to 1500	MLA 250	€63

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





LEGACY REPLACEMENT ELEMENTS

For F¹ filters (until 2023)

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.

F¹

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	-	€66	-	-	-	-
NFB 0015 (grade)	E0015M1	E0015M01	E0015AC	-	€66	E0015 MS	€124	-	-
NFB 0025 (grade)	E0025M1	E0025M01	E0025AC	-	€87	E0035 MS	€148	E0025 MV	€93
NFB 0035 (grade)	E0035M1	E0035M01	E0035AC	-	€87	E0035 MS	€148	E0035 MV	€114
NFB 0050 (grade)	E0050M1	E0050M01	E0050AC	-	€99	E0050 MS	€164	E0050 MV	€126
NFB 0070 (grade)	E0090M1	E0090M01	E0090AC	-	€118	E0090 MS	€218	E0090 MV	€134
NFB 0085 (grade)	E0090M1	E0090M01	E0090AC	-	€118	E0090 MS	€218	E0090 MV	€134
NFB 0090 (grade)	E0090M1	E0090M01	E0090AC	-	€118	-	-	-	-
NFB 0125 (grade)	E0135M1	E0135M01	E0135AC	-	€152	E0135 MS	€264	E0135 MV	€166
NFB 0135 (grade)	E0135M1	E0135M01	E0135AC	-	€152	E0135 MS	€264	E0135 MV	€166
NFB 0175 (grade)	E0175M1	E0175M01	E0175AC	-	€182	E0175 MS	€264	E0175 MV	€202
NFB 0280 (grade)	E0325M1	E0325M01	E0325AC	-	€218	E0325 MS	€332	E0325 MV	€238
NFB 0290 (grade)	E0325M1	E0325M01	E0325AC	-	€218	-	-	-	-
NFB 0325 (grade)	E0325M1	E0325M01	E0325AC	-	€218	E0325 MS	€332	E0325 MV	€238
NFB 0400 (grade)	E0450M1	E0450M01	E0450AC	-	€250	E0400 MS	€386	E0450 MV	€276
NFB 0450 (grade)	E0450M1	E0450M01	E0450AC	-	€250	E0450 MS	€386	E0450 MV	€276
NFB 0700 (grade)	E0700M1	E0700M01	E0700AC	-	€324	E0700 MS	€560	E0700 MV	€350
NFB 0850 (grade)	E1000M1	E1000M01	E1000AC	-	€396	E1000 MS	€730	E1000 MV	€432
NFB 1000 (grade)	E1000M1	E1000M01	E1000AC	-	€396	E1000 MS	€730	E1000 MV	€432
NFB 1250 (grade)	E1250M1	E1250M01	E1250AC	-	€518	E1250 MS	€850	E1250 MV	€575
NFB 1500 (grade)	E1500M1	E1500M01	E1500AC	-	€585	E1500 MS	€1,070	E1500 MV	€645
NFDB 0025 DAC	-	-	-	E0025M01 DAC	€87	-	-	-	-
NFDB 0035 DAC	-	-	-	E0035M01 DAC	€87	-	-	-	-
NFDB 0050 DAC	-	-	-	E0050M01 DAC	€99	-	-	-	-
NFDB 0070 DAC	-	-	-	E0085M01 DAC	€118	-	-	-	-
NFDB 0085 DAC	-	-	-	E0085M01 DAC	€118	-	-	-	-
NFDB 0125 DAC	-	-	-	E0135M01 DAC	€152	-	-	-	-
NFDB 0135 DAC	-	-	-	E0135M01 DAC	€152	-	-	-	-
NFDB 0175 DAC	-	-	-	E0175M01 DAC	€182	-	-	-	-

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 20°C (ppm Or mg/m ³)	0.1	0.01	0.003	0.003	1	1
Recommended operating temp range (°C)	2 to 80	2 to 80	2 to 25	2 to 25	2 to 100	2 to 100
Design operating temperature range (°C)	2 to 80	2 to 80	2 to 50	2 to 50	2 to 175	2 to 120

(1) Per ISO 8573-1:2010



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)	€314	E50HP 0094 (grade)	€110	¼"	94	160	64	15	150	51	0.6
N50A 0147 (grade)	€456	E50HP 0147 (grade)	€118	⅜"	147	250	64	15	190	51	0.6
N50A 0265 (grade)	€700	E50HP 0265 (grade)	€142	½"	265	450	114	38	305	150	2.8
N50A 0324 (grade)	€920	E50HP 0324 (grade)	€182	¾"	324	550	114	38	305	150	2.8
N50A 0492 (grade)	€1,100	E50HP 0492 (grade)	€250	1"	492	835	114	38	396	150	3.4
N50A 0736 (grade)	€1,400	E50HP 0736 (grade)	€292	1½"	736	1250	147	51	434	170	7.4
N50A 1015 (grade)	€1,670	E50HP 1132 (grade)	€400	1½"	1015	1725	147	51	434	170	7.4
N50A 1132 (grade)	€1,810	E50HP 1132 (grade)	€400	2"	1132	1925	147	51	434	170	7.2
N50A 1882 (grade)	€2,070	E50HP 1882 (grade)	€525	2"	1882	3200	147	51	635	170	10

Specifications

Design operating pressure range (barg)	0 to 50
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 to 100	2 to 100	2 to 25
Design operating temperature range (°C)	2 to 120	2 to 120	2 to 50

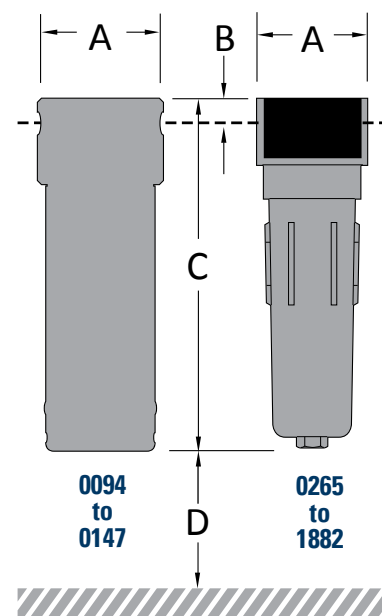
Pressure Correction Factors

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.
- (3) Differential pressure indicator not included.
- (4) Install with air flow from inside to outside for coalescing and from outside to inside for dry dust filtration.
- (5) 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.





HIGH PRESSURE FILTERS

48 to 3,400 Nm³/h

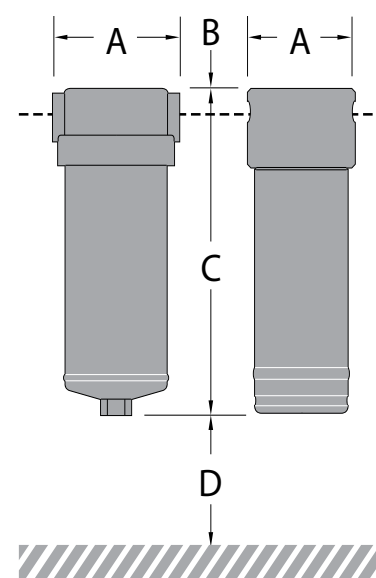
nano F⁴ high pressure stainless steel filters come in 50, 100 and 350 barg pressure ratings. Manufactured from high grade stainless steel, they are designed to exceed requirements for many high pressure applications including PET, offshore and instrumentation.

Filter Model	Filter Price	Replacement Element	Element Price	Inlet & Outlet	Rated Flow ⁽¹⁾		Dimensions (mm)				Approx. Weight
	€EUR	Part No.	€EUR	BSP	SCFM	Nm ³ /h	A	B	C	D	kg
N50SS (50 barg)											
N50SS 0060 (grade)	€755	E50SS 0060 (grade)	€93	1/4"	60	100	85	18	170	75	1.7
N50SS 0120 (grade)	€850	E50SS 0120 (grade)	€116	3/8"	120	200	85	18	205	100	2
N50SS 0200 (grade)	€1,025	E50SS 0200 (grade)	€126	1/2"	200	340	85	18	205	100	2.2
N50SS 0300 (grade)	€1,480	E50SS 0300 (grade)	€168	3/4"	300	500	113	27	269	150	4
N50SS 0600 (grade)	€1,640	E50SS 0600 (grade)	€220	1"	600	1000	113	27	419	300	5
N50SS 1000 (grade)	€2,490	E50SS 1000 (grade)	€246	1 1/2"	1000	1700	150	45	526	300	15
N50SS 1200 (grade)	€2,820	E50SS 1200 (grade)	€246	2"	1200	2040	150	45	526	300	15
N50SS 2000 (grade)	€3,530	E50SS 2000 (grade)	€352	2"	2000	3400	150	45	826	500	21
N100SS (100 barg)											
N100SS 0060 (grade)	€820	E100SS 0060 (grade)	€156	1/4"	60	100	65	20	135	70	3.2
N100SS 0185 (grade)	€1,230	E100SS 0185 (grade)	€188	1/2"	185	315	65	20	250	180	5.6
N100SS 0270 (grade)	€2,040	E100SS 0270 (grade)	€226	3/4"	270	460	88	20	274	250	6.1
N100SS 0400 (grade)	€2,650	E100SS 0400 (grade)	€274	1"	400	680	132	26	264	250	10.5
N100SS 0700 (grade)	€2,920	E100SS 0700 (grade)	€318	1"	700	1200	132	26	480	300	14.7
N100SS 1000 (grade)	€3,890	E100SS 1000 (grade)	€352	1 1/2"	1000	1700	150	45	526	300	22
N100SS 2000 (grade)	€4,850	E100SS 2000 (grade)	€478	2"	2000	3400	150	45	826	500	28
N350SS (350 barg)											
N350SS 0028 (grade)	€580	E350SS 0028 (grade)	€118	1/4"	28	48	41	10	103	60	1.6
N350SS 0067 (grade)	€1,220	E350SS 0067 (grade)	€158	1/4"	67	111	65	20	135	70	3.2
N350SS 0150 (grade)	€2,340	E350SS 0150 (grade)	€190	1/2"	150	255	65	20	210	150	5.6
N350SS 0300 (grade)	€3,180	E350SS 0300 (grade)	€226	3/4"	300	510	88	25	280	250	6.1
N350SS 0445 (grade)	€4,180	E350SS 0445 (grade)	€274	1"	445	750	150	35	330	200	14.3
N350SS 0775 (grade)	€4,910	E350SS 0775 (grade)	€318	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 to 100	2 to 100	2 to 25
Design operating temperature range (°C)	2 to 120	2 to 120	2 to 50

Specifications	N50SS	N100SS	N350SS
Design operating pressure range (barg)	0 to 50	0 to 100	0 to 350
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 16 for important information regarding the use of activated carbon filters.
- (3) Install with air flow inside to outside for coalescing filtration and outside to inside for dry particulate filtration.
- (4) 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.



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	BSPP	SCFM	Nm ³ /h	A	B	C	kg
D¹										
NDL 010	€1,760	GFNB 0006 M01/M1	€194	3/8" ⁽¹⁾	3	5.1	440	264	222	9
NDL 020	€1,880	GFNB 0006 M01/M1	€194	3/8" ⁽¹⁾	5	8.5	440	264	222	9
NDL 030	€2,220	GFNB 0015 M01/M1	€206	3/8" ⁽¹⁾	10	17	650	264	222	13.5
NDL 040	€2,470	GFNB 0015 M01/M1	€206	3/8" ⁽¹⁾	15	26	890	264	330	18.5
NDL 050	€2,740	GFNB 0025 M01/M1	€220	3/8" ⁽¹⁾	20	33	1190	264	330	25.5
D²										
NDL 060	€3,310	GFNB 0050 M01/M1	€308	1"	34	58	743	426	283	47
NDL 070	€4,110	GFNB 0050 M01/M1	€308	1"	41	70	743	426	283	47
NDL 080	€4,370	GFNB 0070 M01/M1	€388	1"	53	90	923	426	283	58
NDL 090	€5,050	GFNB 0070 M01/M1	€388	1"	66	112	923	426	283	58
NDL 100	€6,030	GFNB 0105 M01/M1	€530	1"	88	150	1098	426	283	71
NDL 110	€6,840	GFNB 0125 M01/M1	€585	1"	106	180	1248	426	283	83
NDL 120	€7,840	GFNB 0175 M01/M1	€650	1"	132	224	1498	426	283	96
NDL 130	€8,780	GFNB 0175 M01/M1	€650	1"	177	301	1848	426	283	118

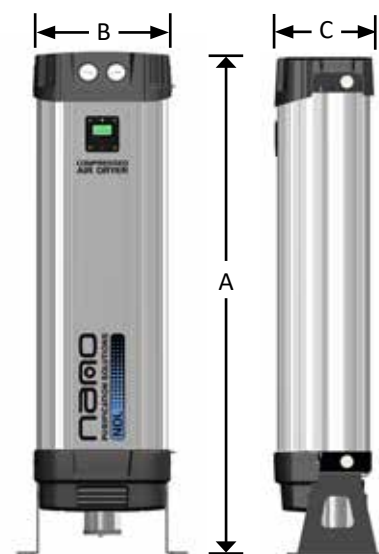
Specifications	Standard
Maximum water content (ISO class) ⁽⁴⁾	class 2 (-40°C pdp)
Minimum operating pressure (barg)	4
Maximum operating pressure (barg)	16
Recommended operating temp range (°C)	1.5 to 35
Design operating temperature range (°C)	1.5 to 50
Power supply requirements	110-240V AC 50/60Hz or 24VDC
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 040 have 8mm push to connect adapters and NDL 050 has 12mm on the 3/8" inlet and outlet. All other 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 nano. Contact sales_uk@nano-purification.com.
- (6) Recommended filtration: M1 & M01 grade pre filters with timer drains. There is an integrated 1 micron dust filter in built into the D¹/D² cartridge. If the user wishes to replace the dust filter at the same time as the pre filters, then fit an additional RM1 dust filter after the dryer.

Service guidelines - Refer to current service manuals which can be found at www.nano-purification.com/en-uk/resources/documentation/service-manuals.





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.

D^{1/2}

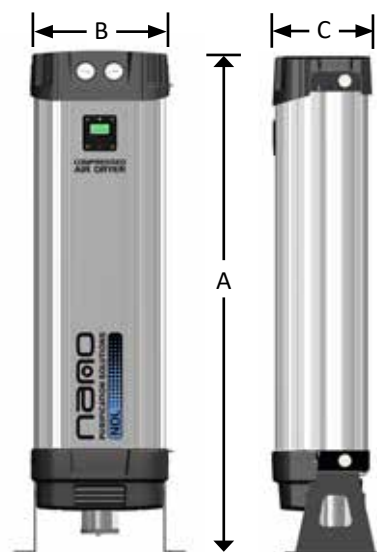
Dryer Model	Dryer Only	Stage 1 Pre Filter ⁽³⁾	Stage 2 Pre Filter ⁽³⁾	After Filter ⁽³⁾	Filter	Inlet & Outlet	Rated Flow ⁽²⁾		Dimensions (mm)			Approx. Weight
	€EUR	Model	Model	Model	€EUR	BSPP ⁽¹⁾	SCFM	Nm ³ /h	A	B	C	kg
D¹												
NDL 010 LDP	€2,060	GFNB 0006 M1	GFNB 0006 M01	GFNB 0006 RM1	€194	3/8" ⁽¹⁾	2.1	3.5	439	222	222	9.0
NDL 020 LDP	€2,170	GFNB 0006 M1	GFNB 0006 M01	GFNB 0006 RM1	€194	3/8" ⁽¹⁾	3.5	5.9	439	222	222	9.0
NDL 030 LDP	€2,520	GFNB 0015 M1	GFNB 0015 M01	GFNB 0015 RM1	€206	3/8" ⁽¹⁾	7	11.9	649	222	222	13.5
NDL 040 LDP	€2,770	GFNB 0015 M1	GFNB 0015 M01	GFNB 0015 RM1	€206	3/8" ⁽¹⁾	10	18.2	899	330	330	18.5
NDL 050 LDP	€3,060	GFNB 0025 M1	GFNB 0025 M01	GFNB 0025 RM1	€220	3/8" ⁽¹⁾	14	23	1199	330	330	25.5
D²												
NDL 060 LDP	€3,610	GFNB 0050 M1	GFNB 0050 M01	GFNB 0050 RM1	€308	1"	23	40	743	426	283	40
NDL 070 LDP	€4,400	GFNB 0050 M1	GFNB 0050 M01	GFNB 0050 RM1	€308	1"	28	49	743	426	283	40
NDL 080 LDP	€4,660	GFNB 0070 M1	GFNB 0070 M01	GFNB 0070 RM1	€388	1"	37	63	923	426	283	54
NDL 090 LDP	€5,350	GFNB 0070 M1	GFNB 0070 M01	GFNB 0070 RM1	€388	1"	46	78	923	426	283	54
NDL 100 LDP	€7,040	GFNB 0105 M1	GFNB 0105 M01	GFNB 0105 RM1	€530	1"	61	105	1098	426	283	64
NDL 110 LDP	€7,840	GFNB 0125 M1	GFNB 0125 M01	GFNB 0125 RM1	€585	1"	74	126	1248	426	283	76
NDL 120 LDP	€8,840	GFNB 0175 M1	GFNB 0175 M01	GFNB 0175 RM1	€650	1"	92	157	1498	426	283	91
NDL 130 LDP	€9,790	GFNB 0175 M1	GFNB 0175 M01	GFNB 0175 RM1	€650	1"	124	210	1848	426	283	112

Specifications	Standard
Maximum water content (ISO class) ⁽⁴⁾	class 1 (-70°C pdp)
Minimum operating pressure (barg)	6
Maximum operating pressure (barg) ⁽⁵⁾	16
Recommended operating temp range (°C)	1.5 to 30
Design operating temperature range (°C)	1.5 to 30
Power supply requirements	110-240V AC 50/60Hz or 24VDC
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 LDP to 040 LDP have 8mm push to connect adapters and NDL 050 LDP has 12mm on the 3/8" 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
- (4) Per ISO 8573-1:2010
- (5) To be used as a rough guide only. All applications should be confirmed by nano. Contact sales_uk@nano-purification.com.
- (6) Once the unit is online it has to run continuously to achieve and maintain the low dew point.



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 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 131	Wall Mounting Brackets (D ₂)	NDL 060 to 130	€156
ES D ¹ /D ² (1)	Energy Saving Outlet Dew Point Control & Display	All Models	€2,650
EBK2	D2 Exhaust Blanking Kit	NDL 060 to 130	€188
HMI	HMI HMI Upgrade (Inc. Communications)	NDL 060 to 130	€810

(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	NDL 010	All	NDK 010	€380
	NDL 020	All	NDK 020	€390
	NDL 030	All	NDK 030	€506
	NDL 040	All	NDK 040	€575
	NDL 050	All	NDK 050	€690
D ² desiccant cartridge service kits includes: - desiccant cartridges with outlet filtration - O-rings - gasket seals	NDL 060	All	NDK 060	€860
	NDL 070	All	NDK 070	€1,050
	NDL 080	All	NDK 080	€1,110
	NDL 090	All	NDK 090	€1,280
	NDL 100	All	NDK 100	€1,520
	NDL 110	All	NDK 110	€1,770
	NDL 120	All	NDK 120	€2,030
	NDL 130	All	NDK 130	€2,310

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	€685
	NDL 020 LDP	All	NDK 020 LDP	€695
	NDL 030 LDP	All	NDK 030 LDP	€810
	NDL 040 LDP	All	NDK 040 LDP	€875
	NDL 050 LDP	All	NDK 050 LDP	€985
D ² desiccant cartridge service kits includes: - Desiccant cartridges with outlet filtration - O-rings - Gasket seals	NDL 060 LDP	All	NDK 060 LDP	€1,170
	NDL 070 LDP	All	NDK 070 LDP	€1,360
	NDL 080 LDP	All	NDK 080 LDP	€1,410
	NDL 090 LDP	All	NDK 090 LDP	€1,600
	NDL 100 LDP	All	NDK 100 LDP	€2,550
	NDL 110 LDP	All	NDK 110 LDP	€2,810
	NDL 120 LDP	All	NDK 120 LDP	€3,070
	NDL 130 LDP	All	NDK 130 LDP	€3,340

Desiccant - Bulk

Part No	Description	Fits	List Price
AA	AA - Activated alumina	All	€14
13X	13X - Molecular sieve	All	€25
4A	4A - Molecular sieve	All	€23
RKA-20-AA	20 kg Bucket - activated alumina	All	€240
RKA-20-13X	20 kg Bucket - molecular sieve	All	€500
RKA-20-4A	20 kg bucket - molecular sieve	All	€448

Please check serial number to ensure correct kit/part selection.

If serial number begins with number less than 18, contact sales_uk@nano-purification.com



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.

D¹/2

Service Kits

Description	Fits	Part No.	Model Type	List Price
Silencer Strip	NDL 010 to 020	ESK 020	All	€99
	NDL 030	ESK 030	All	€126
	NDL 040	ESK 040	All	€142
	NDL 050	ESK 050	All	€182
Complete Valve Rebuild Kit (Includes Valve Kits Shown Below)	NDL 010 to 050	NVK 050 024	All	€432
	NDL 060 to 090	NVK 090 024	MK1	€605
	NDL 060 to 100	NOKO 100 024	MK2	€870
	NDL 100 to 130	NVK 130 024	MK0	€975
	NDL 100 to 130	NVK 131 024	MK1	€1,035
	NDL 110 to 130	NOKO 130-024	MK2	€990
Inlet Valve Kit (2 Valves & Coils When Applicable)	NDL 060 to 090	IVKO 100 024 (supersedes IVK 090)	MK1	€432
	NDL 060 to 100	IVKO 100 024	MK2	€432
	NDL 100 to 130	IVK 130	MK1	€500
	NDL 110 to 130	IVKO 130 024	MK2	€690
Exhaust Valve Kit (2 Valves & Coils)	NDL 060 to 130	EVKC 130 024 (supersedes by EVK 130)	All	€432
Check Valve Seal Kit (Seals Only)	NDL 060 to 130	OVSK 130	All	€84
Check Valve Kit (Complete Check Valve Kit)	NDL 060 to 130	CVK 130	MK1	€396
Check Vave Kit (Complete Check Valve Kit)	NDL 060 to 130	OVK 130	MK2	€208
Pilot Valve Kit (2 Valves)	NDL 100 to 130	PVK 130	MK0	€875
	NDL 100 to 130	PVK 131	MK1	€875
ES Option Service Kit (Replacement Dew Point Probe)	-40°C ES option	NSK 130	All	€2,650
	-70°C ES option	NSK 130 LDP	All	€2,650
Exhaust Silencer Kit	NDL 060 to 130	ESK2 NDL	MK1	€690
	NDL 060 to 130	ESK 130	MK2	€136
Internal Ball Valve & Seal Kit	NDL 010 to 050	RBK 050	All	€94

Individual Service Parts

Description	Fits	Part No.	List Price
Replacement Solenoid Coils 24V DC (2 coils)	NDL 010 to 130	RCK 024	€130
Replacement Inlet Valve Only (2 valves)	NDL 060 to 090	IVKO 100	€432
	NDL 110 to 130	IVKO 130	€690
Replacement Exhaust Valve Only (2 valves)	NDL 060 to 130	EVKC 130	€432
		RBK 050	€94
Diaphragms (x2)	NDL 010 to 050	NDB 050	€120
		NDF 050	€130
	NDL 060 to 100	NDB 100	€142
		NDF 100	€152
	NDL 2110 to 130	NDB 130	€168
		NDF 130	€178

*Please check serial number to ensure correct kit/part selection. If serial number begins with number less than 17, contact sales_UK@nano-purification.com



HEATLESS MODULAR

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	BSP	SCFM	Nm ³ /h	A	B	C	kg
NDL 2110	€13,980	GFNB 0280 M01/M1	€755	2"	212	360	1271	400	682	97
NDL 2120	€15,230	GFNB 0280 M01/M1	€755	2"	276	469	1521	400	682	179
NDL 2130	€17,720	GFNB 0450 M01/M1	€1,220	2"	400	680	1871	400	682	261
NDL 3130	€25,020	GFNB 0700 M01/M1	€1,510	2"	560	951	1871	400	850	249
NDL 4130	€28,150	GFNB 0850 M01/M1	€1,790	2 ½"	750	1274	1871	400	1018	331
NDL 6120	€31,050	GFNB 0850 M01/M1	€1,790	2 ½"	828	1407	1521	400	1354	439
NDL 6130	€33,930	GFNB 1250 M01/M1	€2,280	2 ½"	1110	1886	1871	400	1354	623

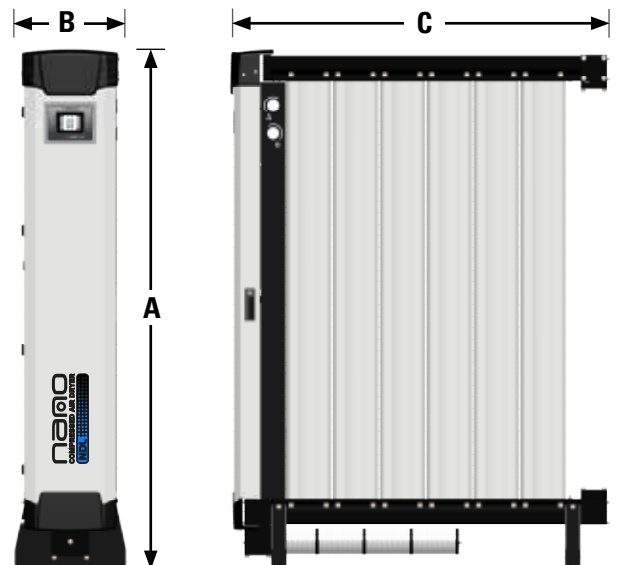
Specifications	Standard
Maximum water content (ISO class) ⁽³⁾	Class 2 (-40°C pdp)
Minimum operating pressure (barg)	4
Maximum operating pressure (barg)	10 (16 optional)
Recommended operating temp range (°C)	1.5 to 35
Design operating temperature range (°C)	1.5 to 50
Power supply requirements	110-240V AC 50/60Hz or 24VDC
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	35	40	45	50
Correction factor	1.00	0.98	0.95	0.9	0.8	0.7

- (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.
- (5) Filter port size may differ from dryer port size.

Service Guidelines - Refer to current service manuals which can be found at www.nano-purification.com/en-uk/resources/documentation/service-manuals.





HEATLESS MODULAR

Desiccant Air Dryers

D³

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.

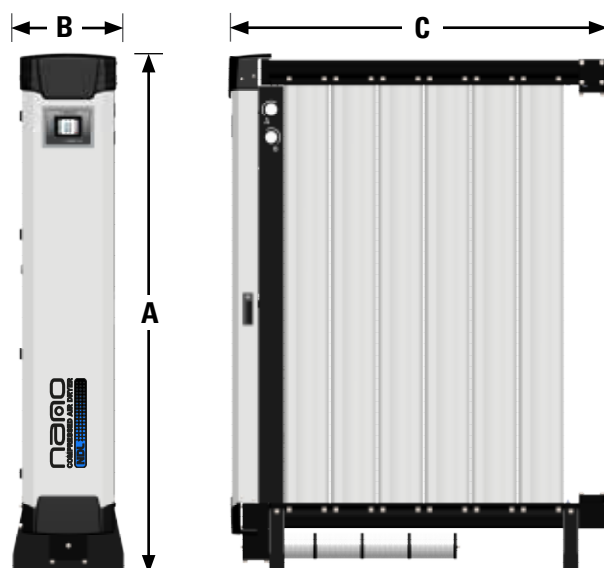
Dryer Model	Dryer Only	Stage 1 Pre Filter ⁽²⁾	Stage 2 Pre Filter ⁽²⁾	After Filter ⁽²⁾	Filter	Inlet & Outlet	Rated Flow ⁽¹⁾		Dimensions (mm)			Approx. Weight
	€EUR	Model	Model	Model	€EUR	BSPP	SCFM	Nm³/h	A	B	C	kg
NDL 2110 LDP	€15,530	GFNB 0280 M1	GFNB 0280 M01	GFNB 0280 RM1	€755	2"	148	252	1271	400	682	97
NDL 2120 LDP	€16,760	GFNB 0280 M1	GFNB 0280 M01	GFNB 0280 RM1	€755	2"	193	328	1521	400	682	179
NDL 2130 LDP	€19,270	GFNB 0450 M1	GFNB 0450 M01	GFNB 0450 RM1	€1,220	2"	280	476	1871	400	682	261
NDL 3130 LDP	€26,570	GFNB 0700 M1	GFNB 0700 M01	GFNB 0700 RM1	€1,510	2"	392	666	1871	400	850	249
NDL 4130 LDP	€30,220	GFNB 0850 M1	GFNB 0850 M01	GFNB 0850 RM1	€1,790	2 ½"	525	892	1871	400	1018	331
NDL 6120 LDP	€33,110	GFNB 0850 M1	GFNB 0850 M01	GFNB 0850 RM1	€1,790	2 ½"	580	985	1521	400	1354	439
NDL 6130 LDP	€36,000	GFNB 1250 M1	GFNB 1250 M01	GFNB 1250 RM1	€2,280	2 ½"	777	1320	1871	400	1354	623

Specifications	Standard
Maximum water content (ISO class) ⁽³⁾	class 1 (-70°C pdp)
Minimum operating pressure (barg)	6
Maximum operating pressure (barg) ⁽⁴⁾	10 (16 optional)
Recommended operating temp range (°C)	1.5 to 30
Design operating temperature range (°C)	1.5 to 30
Power supply requirements	110-240V AC 50/60Hz or 24VDC
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.



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

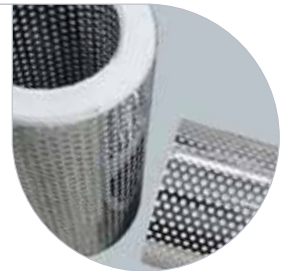
Suffix ⁽¹⁾	Description	Fits	List Price
ES D ³	Energy Saving Outlet Dew Point Control & Display	All Models	€3,420
HP	16 Barg Upgrade	All Models	€1,880
HMI	HMI Upgrade (Inc. Communications)	All Models	€810

(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 T-2110	€1,200
	NDL 2120	RKA T-2120	€1,260
	NDL 2130	RKA T-2130	€1,450
	NDL 3130	RKA T-3130	€2,070
	NDL 4130	RKA T-4130	€2,670
	NDL 6120	RKA T-6120	€2,890
	NDL 6130	RKA T-6130	€3,680
Integrated Filter Service Kit	All Models	NDK 2130	€78
Column Diffuser Kit	All Models	NDK 2131	€110
Replacement AA Desiccant Kit – 110 Size	AA option	RKA 110	€595
Replacement AA Desiccant Kit – 120 Size	AA option	RKA 120	€630
Replacement AA Desiccant Kit – 130 Size	AA option	RKA 130	€720



Desiccant - Low Dew Point (LDP)

Description	Fits	Desiccant	
		Part No.	List Price
D ³ Desiccant	NDL 2110 LDP	RKA M-2110	€2,390
	NDL 2120 LDP	RKA M-2120	€2,450
	NDL 2130 LDP	RKA M-2130	€2,640
	NDL 3130 LDP	RKA M-3130	€3,260
	NDL 4130 LDP	RKA M-3130	€4,740
	NDL 6120 LDP	RKA M-6120	€5,550
	NDL 6130 LDP	RKA M-6130	€6,350



Service Kits

Description	Fits	Part No.	List Price
Complete Valve Rebuild Kit (Includes All 4 Valve Kits Below)	All Models	NVKO 6130	€2,050
Inlet Valve Kit (2 Valves)	All Models	NVK D32	€442
Exhaust Valve Kit (2 Valves)	All Models	NVK D32	€442
Pilot Valve Kit (4 Valve Block)	All Models	PVK O 6130	€955
Outlet Valve Kit (2 Valves)	All Models	NVK D31	€442
Replacement Exhaust Silencers (MK1)	All Models	ESK3 NDL	€490
Es Option Service Kit (Replacement Dew Point Probe)	ES option	NSK 130	€3,420
Replacement Exhaust Silencers (MK2)	NDL2110	ESK - 3130	€272
	NDL2120		
	NDL2130		
	NDL3130	ESK - 6120	€406
	NDL4130		
	NDL6120		
	NDL6130	ESK - 6130	€545





PNEUMATIC HEATLESS MODULAR

Desiccant Air Dryers

The advanced design of the D²/D³ modular desiccant air dryer provides a perfect platform for full pneumatic control of the pressure swing adsorption technology. This compact and versatile solution will satisfy all intrinsically safe applications.

D²/D³

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	€9,270	GFNB 0050 M01/M1	€308	1"	34	58	735	426	316	44
NDM 070 PNU	€10,070	GFNB 0050 M01/M1	€308	1"	41	70	735	426	316	44
NDM 080 PNU	€10,320	GFNB 0070 M01/M1	€388	1"	53	90	915	426	316	54
NDM 090 PNU	€11,010	GFNB 0070 M01/M1	€388	1"	66	112	915	426	316	54
NDM 100 PNU	€11,990	GFNB 0105 M01/M1	€530	1"	88	150	1090	426	316	64
NDM 110 PNU	€12,800	GFNB 0125 M01/M1	€585	1"	106	180	1240	426	316	77
NDM 120 PNU	€13,800	GFNB 0175 M01/M1	€650	1"	132	224	1490	426	316	89
NDM 130 PNU	€14,740	GFNB 0175 M01/M1	€650	1"	177	301	1840	426	316	109
D³										
NDM 2110 PNU	€19,850	GFNB 0280 M01	€755	2"	212	360	1249	400	651	97
NDM 2120 PNU	€21,190	GFNB 0280 M01	€755	2"	276	469	1499	400	651	179
NDM 2130 PNU	€23,680	GFNB 0450 M01	€1,220	2"	400	680	1849	400	651	261
NDM 3130 PNU	€30,970	GFNB 0700 M01	€1,510	2"	560	951	1849	400	819	249
NDM 4130 PNU	€34,110	GFNB 0850 M01	€1,790	2 1/2"	750	1274	1849	400	987	331
NDM 6120 PNU	€37,010	GFNB 0850 M01	€1,790	2 1/2"	828	1407	1499	400	1323	439
NDM 6130 PNU	€39,890	GFNB 1250 M01	€2,280	2 1/2"	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 (barg)	6	-
Maximum operating pressure (barg) (D ²)	16	-
Maximum operating pressure (barg) (D ³)	10	16
Recommended operating temp range (°C)	1.5 to 35	-
Design operating temperature range (°C)	1.5 to 50	-

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) 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.

Service Guidelines Refer to current service manuals which can be found at www.nano-purification.com/en-uk/resources/documentation/service-manuals



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.



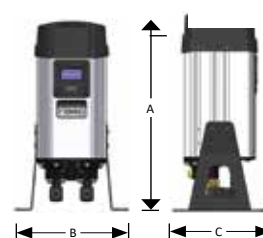
Model	Module Price	Recommended Filtration		Inlet & Outlet	Inlet Air Flow ⁽¹⁾		Outlet Gas Flow ⁽¹⁾		Dimensions (mm)			Approx. Weight
	€EUR	Part Number	M1/M01/AC	BSPP ⁽⁴⁾	ft ³ /h	l/min	ft ³ /h	l/min	A	B	C	kg
NDC 015	€2,200	GFNB 0025	€220	3/8"	11.5	5.5	3.2	1.5	439	222	254	9.0
NDC 050	€2,270	GFNB 0025	€220	3/8"	19.0	9.0	10.6	5.0	439	222	254	9.0
NDC 140	€2,340	GFNB 0025	€220	3/8"	53	25	32	15	439	222	254	9.0
NDC 300	€2,800	GFNB 0025	€220	3/8"	106	50	64	30	649	222	254	13.5
NDC 600	€3,860	GFNB 0025	€220	3/8"	212	100	127	60	1199	330	330	25.5
NDC 900	€5,010	GFNB 0050	€308	1"	318	150	191	90	743	283	283	47.0
NDC 1200	€6,540	GFNB 0050	€308	1"	424	200	254	120	743	283	283	47.0

Outlet Gas Quality	Standard	Optional
Maximum CO ₂ content (ppm)	1	-
Maximum pressure dew point (°C)	-70	-
Maximum Particulate Size (micron)	1	0.01 ⁽²⁾
Maximum Oil Content (ppm)	-	0.003 ⁽³⁾

Specifications	
Design operating pressure range (barg) ⁽⁵⁾	4 to 12
Recommended operating temperature range (°C)	1.5 to 20
Power supply requirements	110 to 240V AC (50/60Hz)
Maximum noise level (during purge) (dBA)	60 dBA ⁽⁶⁾

- (1) At inlet conditions of 7 barg and 20°C and up to 375 ppm CO₂.
 (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 Refer to current service manuals which can be found at www.nano-purification.com/en-uk/resources/documentation/service-manuals



NDC 015 to 600



NDC 900 & 1200

Service Kits

Description	Fits	List Price
NDK 011	NDC 015 to NDC 050	€540
NDK 021	NDC 140	€575
NDK 031	NDC 300	€685
NDK 051	NDC 600	€945
NDK 061	NDC 900	€1,230
NDK 071	NDC 1200	€1,580
QVR 300	NDC 015 to NDC 300	€468



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.



NEW



THERMAL MASS CYCLING REFRIGERATED DRYERS

55 to 1080 Nm³/h

The TMC cycling refrigerated air dryers are the next generation of thermal mass dryers from nano. Utilising a glycol thermal energy circuit the TMC saves energy and money by only running when needed to match the actual air flow.

R¹

Dryer Model	Power Supply (V/PH/60hz) ⁽⁴⁾		Inlet & Outlet ⁽¹⁾	Rated Flow ⁽²⁾	Absorbed Power ⁽³⁾	Dimensions (mm)			Approx. Weight
	230/1/50	400/3/50				A	B	C	
TMC0055E (T15)	€2,870		½"	55 / 34	0.6	310	725	994	55
TMC0090E (T25)	€3,315		½"	90 / 56	0.9	310	725	994	60
TMC0125E (T35)	€2,895		1 ¼"	125 / 77	1.1	310	725	994	70
TMC0180E (T50)	€3,395		1 ¼"	180 / 112	1.1	310	725	994	75
TMC0215E (T60)	€6,960		1 ½"	215 / 134	1.1	841	500	1257	180
TMC0290E (T80)	€7,050		1 ½"	290 / 180	1.1	841	500	1257	180
TMC0340E (T95)	€7,530		1 ½"	340 / 211	1.3	841	500	1257	190
TMC0450E (T125)	€7,650		1 ½"	450 / 280	1.9	841	500	1257	190
TMC0540E (T150)		€10,600	2"	540 / 336	2.5	800	1050	1391	325
TMC0685E (T190)		€10,680	2"	685 / 426	3.0	800	1050	1391	325
TMC0865E (T240)		€11,270	2 ½"	865 / 538	3.7	800	1050	1391	335
TMC1080E (T300)		€11,560	2 ½"	1080 / 673	4.7	800	1050	1391	335

Specifications

Design operating pressure range (barg)	2 to 14.5
Maximum inlet temperature (°C)	60
Maximum ambient temperature (°C)	46

Inlet Temperature Correction Factors ⁽³⁾

Inlet temperature (°C)	25	30	35	38	45	50	55	60
Correction factor	1.14	1.09	1.03	1.00	0.80	0.67	0.53	0.40

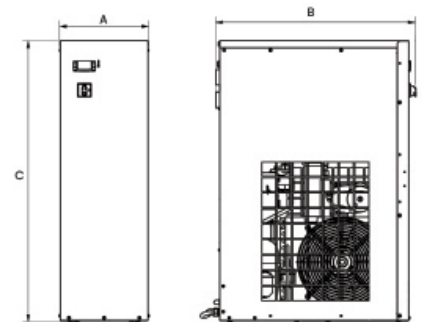
Ambient Temperature Correction Factors ⁽³⁾

Ambient temperature (°C)	25	30	35	38	45
Correction factor	1.10	1.06	1.02	1.00	0.93

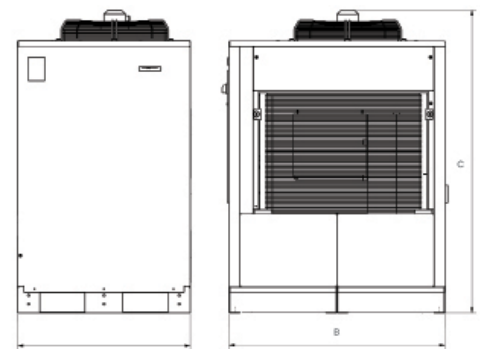
Inlet Pressure Correction Factors ⁽³⁾

Pressure (barg)	6	7	8	9	10	13	14.5
Correction factor	0.97	1.00	1.03	1.06	1.07	1.12	1.20

- (1) Rated flow capacity: conditions for rating dryers are in accordance with ISO7183 (Option A2). Compressed air at dryer inlet: 7 bar and 38°C.
- (2) Nominal absorbed power at rated operating conditions using 115/1/50 or 400/3/50 power supply (as applicable). For absorbed power at other voltages or conditions.
- (3) To be used as rough guide only. All applications should be confirmed by nano.



TMC 0055E to TMC 0450E



TMC 0540E to TMC 1080E



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 aluminium heat exchangers, environmentally-friendly refrigerants and reliable compressors make DXR the best value go-to air dryer in the industry.



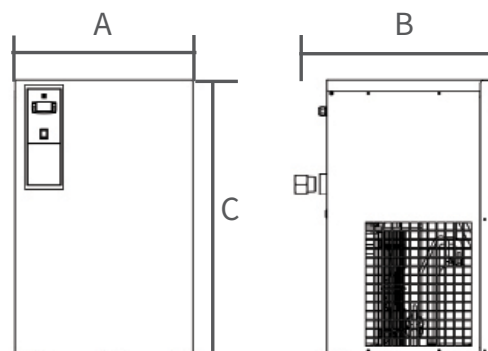
Dryer Model	€EUR		Inlet & Outlet ⁽¹⁾	Rated Flow ⁽²⁾		Absorbed Power ⁽³⁾	Dimensions (mm)			Approx. Weight	Power Supply (V/PH/60Hz) ⁽⁴⁾		Refrigerant
	230V AC/1PH	400V AC/3PH		Nm ³ /h	SCFM		A	B	C		230V/1PH/50Hz	400V/3PH/50Hz	
DXR 0022 E	€1,541	-	G 3/4" (M)	22	13	0.13	350	493	450	19	X		R513A
DXR 0036 E	€1,827	-	G 3/4" (M)	36	22	0.16	350	493	450	19	X		R513A
DXR 0050 E	€2,055	-	G 3/4" (M)	50	31	0.19	350	493	450	20	X		R513A
DXR 0072 E	€2,195	-	G 3/4" (M)	72	50	0.27	350	493	450	25	X		R513A
DXR 0108 E	€2,445	-	G 3/4" (M)	108	64	0.28	350	493	450	27	X		R513A
DXR 0140 E	€2,650	-	G 1" (F)	140	87	0.67	370	497	764	44	X		R513A
DXR 0180 E	€3,190	-	G 1" (F)	180	112	0.72	370	497	764	44	X		R513A
DXR 0216 E	€3,740	-	G 1 1/2" (F)	216	134	0.63	460	557	789	62	X		R410A
DXR 0245 E	€4,055	-	G 1 1/2" (F)	245	152	0.71	460	557	789	60	X		R410A
DXR 0313 E	€4,765	-	G 1 1/2" (F)	313	195	0.91	460	557	789	62	X		R410A
DXR 0389 E	€5,740	-	G 1 1/2" (F)	389	242	0.97	580	557	899	82	X		R410A
DXR 0461 E	€6,390	-	G 1 1/2" (F)	461	287	1.12	580	557	899	82	X		R410A
DXR 0601 E	-	€8,030	G 2" (F)	601	374	1.54	805	1040	962	145		X	R410A
DXR 0720 E	-	€9,420	G 2" (F)	720	448	1.98	805	1070	962	158		X	R410A
DXR 0900 E	-	€11,640	G 2 1/2" (F)	900	560	2.01	805	1070	962	165		X	R410A
DXR 1080 E	-	€13,730	G 2 1/2" (F)	1080	672	2.77	805	1070	962	164		X	R410A
DXR 1440 E	-	€18,400	R 3" (M)	1440	897	3.5	1132	1005	1399	230		X	R410A
DXR 1800 E	-	€22,750	R 3" (M)	1800	1059	3.69	1121	1005	1596	325		X	R410A
DXR 2099 E	-	€26,000	R 3" (M)	2099	1121	4.554	1121	1005	1596	338		X	R410A
DXR 2700 E	-	€32,500	DN100-PN16	2700	1682	6.097	1121	1005	1826	390		X	R410A
DXR 2999 E	-	€35,750	DN100-PN16	2999	1868	6.538	1531	1005	1826	462		X	R410A
DXR 3744 E	€43,300		DN100-PN16	3744	2332	7.1	1531	1005	1826	508		X	R410A
DXR 4198 E	-	€45,450	DN100-PN16	4198	2615	7.293	1531	1005	1826	508		X	R410A
DXR 5040 E	-	€53,000	DN150-PN16	5040	3140	8.264	1979	1455	1826	810		X	R410A
DXR 5940 E	-	€61,700	DN150-PN16	5940	3700	10.2	1979	1455	1826	815		X	R410A
DXR 7200 E	€71,500		DN150-PN16	7200	4240	12.183	1979	1455	1833	900		X	R410A

Specifications	DXR 0022 to DXR 0050	DXR 0072 to DXR 0461	DXR 0601 to DXR 2200
Design operating pressure range (barg)	4.1 to 16	4.1 to 14	4.1 to 14
Maximum Inlet Air Temperature (°C)	55	55	60
Maximum Ambient Temperature (°C)	5 to 46	5 to 46	5 to 46

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⁾						
Ambient temperature (°C)	25	30	35	40	43	46
Correction factor	1.00	0.91	0.81	0.72	0.67	0.67



DXR 0022EE - DXR 7200E

- (2) Rated flow capacity: conditions for rating dryers are in accordance with ISO 7183. Compressed air at dryer inlet: 7 bar and 35°C; ambient air temperature: 25°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.

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



OPTIONS + UPGRADES

For R⁴ Direct Expansion Refrigerated Dryers

Need filters with your R⁴ dryer? Add one or more F¹⁻¹ 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.

R⁴

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	€209	€198
DXR 0036E	GFNB 0025	GFNB 0025	€209	€198
DXR 0050E	GFNB 0032	GFNB 0032	€238	€225
DXR 0072E	GFNB 0050	GFNB 0050	€293	€277
DXR 0108E	GFNB 0070	GFNB 0070	€369	€349
DXR 0140E	GFNB 0085	GFNB 0085	€428	€405
DXR 0180E	GFNB 0125	GFNB 0125	€556	€527
DXR 0216E	GFNB 0175	GFNB 0175	€618	€585
DXR 0245E	GFNB 0175	GFNB 0175	€618	€585
DXR 0313E	GFNB 0280	GFNB 0280	€717	€680
DXR 0389E	GFNB 0280	GFNB 0280	€717	€680
DXR 0461E	GFNB 0280	GFNB 0280	€717	€680
DXR 0601E	GFNB 0450	GFNB 0450	€1,159	€1,098
DXR 0720E	GFNB 0450	GFNB 0450	€1,159	€1,098
DXR 0900E	GFNB 0700	GFNB 0700	€1,435	€1,359
DXR 1080E	GFNB 0700	GFNB 0700	€1,435	€1,359
DXR 1440E	GFNB 0850	GFNB 0850	€1,701	€1,611
DXR 1800E	GFNB 1250	GFNB 1250	€2,166	€2,052
DXR 2099E	GFNB 1250	GFNB 1250	€2,166	€2,052
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 model number when ordering.

(2) Add suffix "F2" to the model number when ordering.

(3) Recommended filtration matches dryer rated flow. 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 10% discount on the filters.



4,417 to 14,357 Nm³/h

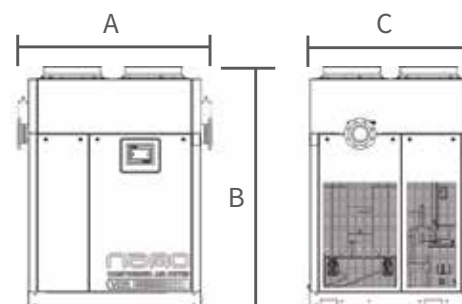
The nano R⁶ VDR range takes power savings to the next level by using VSD technology to match dryer energy consumption to air demand. Perfect for high flow capacities and fluctuating air demand the VDR saves energy and money while providing superior drying performance.



Dryer Model	List Price	Inlet & Outlet	Rated Flow ⁽¹⁾		Pressure Drop	Absorbed Power ⁽²⁾	Dimensions (mm)			Approx. Weight	Refrigerant	
	€EUR	FLG	SCFM	Nm³/h	mbar	kW	A	B	C	X ⁽³⁾		kg
Air-Cooled												
VDR 2600 A	POA	6"	2600	4417	180	9.9	1579	2297	1473	127	880	R410A
VDR 3150 A	POA	6"	3150	5352	180	10.5	1579	2297	1473	127	937	R410A
VDR 3700 A	POA	6"	3700	6286	150	11.3	1579	2297	1473	127	985	R410A
VDR 4200 A	POA	6"	4200	7136	190	14.2	1579	2297	1473	127	990	R410A
VDR 5050 A	POA	6"	5050	8580	270	19.1	1579	2297	1473	127	990	R410A
VDR 6350 A	POA	8"	6350	10789	190	23.9	1579	2297	2501	152	1690	R410A
VDR 8450 A	POA	8"	8450	14357	190	28.1	1579	2297	2501	152	1819	R410A
Water-Cooled												
VDR 2600 W	POA	6"	2600	4417	180	6.1	1579	1725	1473	127	800	R410A
VDR 3150 W	POA	6"	3150	5352	180	6.6	1579	1725	1735	127	815	R410A
VDR 3700 W	POA	6"	3700	6286	150	7.5	1579	1725	1735	127	885	R410A
VDR 4200 W	POA	6"	4200	7136	190	8.3	1579	1725	1735	127	865	R410A
VDR 5050 W	POA	6"	5050	8580	270	12.8	1579	1725	1735	127	870	R410A
VDR 6350 W	POA	8"	6350	10789	190	14.4	1579	1735	2501	127	1410	R410A
VDR 8450 W	POA	8"	8450	14357	190	19.7	1579	1735	2501	152	1540	R410A

Specifications

Design operating pressure range (barg)	4 to 14
Maximum inlet air temperature (°C)	70
Design ambient temperature (°C)	7 to 46



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	60
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.

(2) Nominal absorbed power at rated operating conditions using 400V/3PH/50Hz power supply (as applicable).

(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.



OIL VAPOUR REMOVAL SYSTEM

68 to 2,550 Nm³/h

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.

Model	Module Price	Service Kit ⁽²⁾	Service Kit Price (Each)	Inlet & Outlet	Rated Flow ⁽¹⁾		Dimensions (mm)			Approx. Weight
	€EUR	Part No.	€EUR	BSPP	SCFM	Nm ³ /h	A	B	C	kg
NVR 0040	€1,960	NVR SK 040	€555	½"	40	68	865	263	210	12.8
NVR 0185	€3,150	NVR SK 185	€970	1"	185	315	705	426	250	40
NVR 0370	€3,730	NVR SK 370	€1,120	1"	370	630	885	426	250	50
NVR 0750	€7,450	NVR SK 370 x2	€2,230	2 ½"	750	1275	870	400	575	103
NVR 1100	€8,210	NVR SK 370 x3	€3,340	2 ½"	1100	1870	870	400	742	142
NVR 1500	€8,550	NVR SK 370 x4	€4,460	2 ½"	1500	2550	870	400	910	180

Specifications

Maximum working pressure (barg)	16
Recommended operating temperature range (°C)	1.5 to 35
Maximum operating temperature (°C)	50
Estimated cartridge life	6000 hrs (3) (or 12 months)

Inlet Air Quality Requirements

Maximum particulate size (micron)	0.01
Recommended pressure dew point (°C) (pdp)	-40°C
Maximum oil content (mg/m ³)	0.05

Performance

Maximum outlet air oil content (@ 35°C) (mg/m ³) (ppm)	0.003
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Pressure Correction Factors ⁽⁴⁾

Inlet air pressure (barg)	1	2	3	4	5	6	7 - 16
Correction factor	0.25	0.37	0.50	0.62	0.75	0.87	1.00

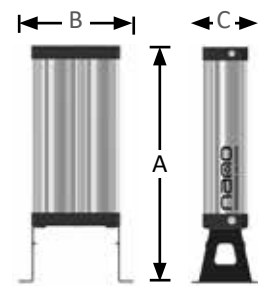
Temperature & Dew Point Correction Factors ⁽⁴⁾

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

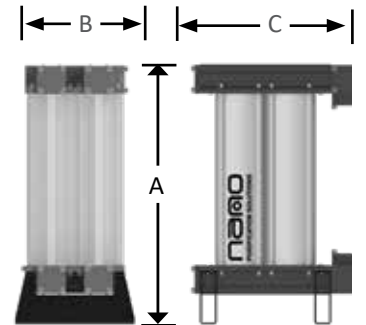
- (1) At inlet conditions of 7 barg and 35°C and 35°C ambient temperature.
- (2) Includes purification cartridges (including integral inlet diffusers and outlet particulate filters) and all o-rings.
- (3) Provided as an estimate only. Cartridges must be replaced as required to maintain adequate air quality in accordance with all applicable codes and regulations.
- (4) To be used as a rough guide only.

Service Guidelines

Refer to current service manuals which can be found at www.nano-purification.com/en-uk/resources/documentation/service-manuals



NVR 0040 to NVR 0370



NVR 0750 to NVR 1500



NVR 1500



GEN₂ NITROGEN GENERATORS

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.





GEN₂ i4.0 MINI

95% to 99.999% Purity

N₂

The NEW GEN₂ i4.0 MINI Nitrogen Generator uses the pressure swing adsorption (PSA) principle to produce a continuous uninterrupted supply of Nitrogen gas from clean dry compressed air. It's ultra compact design and range of flow rates and gas purities, make it the perfect generator for a variety of lower flow nitrogen applications.

Generator Model	Generator Price €EUR	Rated Outlet Flow (1)	Nitrogen Purity at the outlet (Maximum Oxygen Content)											Dimensions (MM)			Weight (KGS)	
			10 ppm	50 ppm	100 ppm	500 ppm	1000 ppm	0.5%	1%	2%	3%	4%	5%	A	B	C	Basic	HMI
GEN ₂ MINI-060	POA	Nm ³ /h	-	-	-	0.6	0.8	1.7	2.1	2.8	3.4	3.9	4.3	738	440	453	54	57
GEN ₂ MINI-080	POA	Nm ³ /h	0.3	0.8	1.0	1.3	1.7	2.8	3.7	4.7	5.5	6.3	6.9	918	440	453	63	66
GEN ₂ MINI-100	POA	Nm ³ /h	0.5	1.3	1.5	2.2	2.5	4.2	5.3	6.8	7.8	8.7	9.6	1093	440	453	76	80
GEN ₂ MINI-110	POA	Nm ³ /h	0.8	1.4	1.7	2.7	3.2	5.2	6.4	7.8	8.8	10.1	11.1	1243	440	453	83	88
GEN ₂ MINI-120	POA	Nm ³ /h	1.6	2.2	2.5	3.7	4.3	6.2	8.0	10.1	11.7	13.0	14.3	1493	440	453	96	100
GEN ₂ MINI-130	POA	Nm ³ /h	1.8	3.0	3.4	4.7	5.5	7.9	9.9	12.2	14.1	17.2	18.8	1843	440	453	113	117

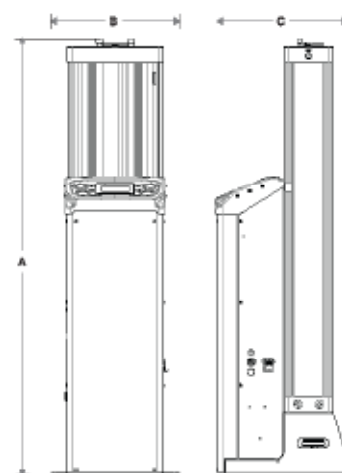
Specifications	Standard
Recommended inlet air quality (ISO class)	2.2.1
Minimum inlet air quality (ISO class)	2:4:1
Minimum. operating pressure (barg)	6
Max. operating pressure (barg)	10
Recommended operating temperature range (°C)	20-25
Min./max. operating temperature range (°C)	5-50
Supply voltage	100 - 240V AC
Fuse rating	3A 'T'
Frequency (Hz)	50 - 60
Max. power consumption (W)	72
IP rating	IP53 (NEMA 2)

Pressure Correction Factors (2)					
Inlet air pressure (barg)	6	7	8	9	10
Correction factor	0.88	1.00	1.10	1.20	1.30

Temperature Correction Factors (2)										
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 barg and °C inlet conditions. For flow at other conditions contact nano.

(2) To be used as a rough guide only.



GEN₂ MINI-060 to GEN₂ MINI-130

Service Guidelines

- Refer to current service manuals which can be found at www.nano-purification.com/en-uk/resources/documentation/service-manuals



N₂

GEN₂ i4.0 % PURITY NITROGEN GENERATORS

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

Specifications

Design operating pressure range (barg)	6 - 12
Design operating temperature range (°C)	5 to 50
Recommended operating temperature (°C)	20 to 25
Maximum inlet particulate (micron)	0.1
Maximum inlet oil content (ppm) ⁽²⁾	0.01
Recommended inlet dew point (°C pdp) ⁽³⁾	-40
Supply voltage	110-240V AC 50/60Hz
Power rating	72W

Pressure Correction Factors ⁽⁵⁾

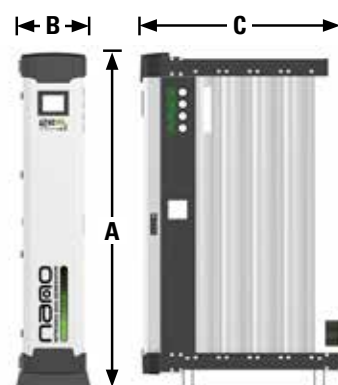
Inlet air pressure (barg)	6	7	8	9	10	11	12
Correction Factor	0.88	1.00	1.10	1.20	1.30	1.40	1.50

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.
- (2) For pressures above 12 barg
- (3) Requires an upstream dryer. Contact nano 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 nano. Contact us for sizing assistance.
- (6) Includes mass flow controller and zirconia oxygen sensor.

Service Guidelines Refer to current service manuals which can be found at www.nano-purification.com/en-uk/resources/documentation/service-manuals



Connections

Air Inlet	1"
To Buffer Vessel	1"
From Buffer Vessel	½"
Nitrogen Outlet	½"





GEN₂ i4.0 ppm PURITY NITROGEN GENERATORS

N₂

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 (barg)	6 - 12
Design operating temperature range (°C)	5 to 50
Recommended operating temperature (°C)	20 to 25
Maximum inlet particulate (micron)	0.1
Maximum inlet oil content (ppm) ⁽²⁾	0.01
Recommended inlet dew point (°C pdp) ⁽³⁾	-40
Supply voltage	110-240V AC 50/60Hz
Power rating	72W

Pressure Correction Factors ⁽⁵⁾

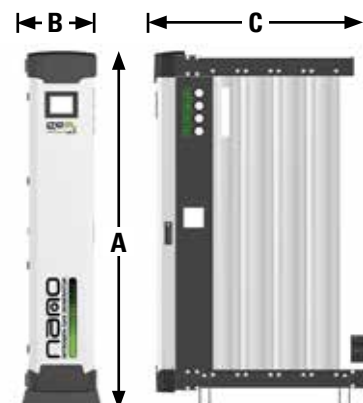
Inlet air pressure (barg)	6	7	8	9	10	11	12
Correction factor	0.88	1.00	1.10	1.20	1.30	1.40	1.50

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°C to 25°C inlet temperature.
- (2) For pressures above 12 barg
- (3) Requires an upstream dryer.
- (4) Including oil vapour.
- (5) To be used as a rough guide only. All applications should be confirmed by nano. Contact us for sizing assistance.
- (6) Includes mass flow controller and zirconia oxygen sensor.

Service Guidelines Refer to current service manuals which can be found at www.nano-purification.com/en-uk/resources/documentation/service-manuals



Connections

Air Inlet	1"
To Buffer Vessel	1"
From Buffer Vessel	½"
Nitrogen Outlet	½"



OPTIONS + ACCESSORIES

For GEN₂ MINI, 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		POA
Purity Dependent Energy Saving (Pdes)		POA
Inlet Dew Point Monitoring		POA
Outlet Dew Point 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



GEN₂ Service Kits

Description	Fits	List Price
Service A - 1" External Exhaust Silencer BSP	GEN ₂ 1110 - 3110	£376
Service A - 1" External Exhaust Silencer NTP	GEN ₂ 1110 - 3110	£376
Service A - 1" External Exhaust Silencer BSP	GEN ₂ 2130 - 12130	£480
Service A - 1" External Exhaust Silencer NPT1	GEN ₂ 2130 - 12130	£480
Service A - 2" External Exhaust Silencer HP BSP	GEN ₂ 2130 - 12130	£1,100
Service A - 2" External Exhaust Silencer HP NPT	GEN ₂ 2130 - 12130	£1,100
Service B - Piston Valve Service Kit	All Models	£458
Service C - Control Valve Service Kit	All Models	£1,610
Service C - Control Valve Service Kit (PDES)	All Models	£1,800
Service D - % Zirconia Cell Replacement Kit	All Models	£3,240
Service D - Ppm Zirconia Cell Replacement Kit	All Models	£3,240



GEN₂ i4.0 MINI Service Kits

Description	Part No.	List Price
GEN₂ MINI i4.0 & GEN₂ MINI		
Exhaust Silencer Element Kit - 120mm x 70mm OD	31-100-5001	€108
Check Ball and Seal Kit	31-100-0168	€84
N ₂ Generator Control Valve Service Kit - Range 2-9 Nm ³ /h	31-100-1540	€1,176
GEN₂ MINI		
1/2" Normally Closed Diaphragm Valve Service Kit	31-100-1541	€216
Zirconia Oxygen Sensor Replacement (0 - 25%)	31-100-1530	€2,982
Zirconia Oxygen Sensor Replacement (0 - 2000 ppm)	31-100-1531	€2,982
Dew Point Sensor Replacement (Range -50/+50°C)	31-100-3040	POA
Dew Point Sensor Replacement (Range -100/+20°C)	31-100-3041	POA



ECOGEN₂ service kits

Description	Fits	Part No.	List Price
Service A - Exhaust Silencer (x2)	ECOGEN 090/110/130	ESK-090/110/130	€120
Service B - Exhaust Valves (x2)	All Models	EVKC-130	€224
Service B - Nc Inlet Valves (x2)	All Models	IVKC-100	€224
Service B - Nitrogen Outlet Valve (x1)	All Models	NOVK-130	€130
Service B - Outlet Valves (x2)	All Models	OVK-130	€208
Service B - Outlet Valve Seals (x2)	All Models	OVSCK-130	€84
Service B - Solenoid Coils (x2)	All Models	RCK-024	€130

Other Kits

Description	Fits	Part No.	List Price
Service E - % Galvanic Cell Replacement Kit	All Models	E-GCR-%	€730
Service E - ppm Galvanic Cell Replacement Kit	All Models	E-GCR-PPM	€1,500





GEN₂ MAX

95% to 99.999% Purity

N₂

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	Price	Rated Outlet Flow ⁽¹⁾	Nitrogen Purity at the Outlet (Maximum Oxygen Content) *											Dimension (mm)			Approx. weight
			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%	A	B	C		
	€EUR																(kg)
GEN ₂ -MAX 5.5K	POA	Nm³/h	46	69	88	116	157	184	225	255	284	313	2055	1830	1700	2400	
GEN ₂ -MAX 7.5K	POA	Nm³/h	58	86	111	146	198	231	283	320	356	393	2370	1830	1700	2600	
GEN ₂ -MAX 9.5K	POA	Nm³/h	68	105	138	180	252	298	363	420	468	518	2620	2235	1803	3300	
GEN ₂ -MAX 12K	POA	Nm³/h	87	136	178	232	325	385	470	543	605	669	2633	2591	1803	3900	
GEN ₂ -MAX 15K	POA	Nm³/h	107	167	218	284	398	471	575	665	741	820	2620	2667	1803	4900	
GEN ₂ -MAX 17K	POA	Nm³/h	127	197	258	337	471	557	680	787	876	970	3028	2718	2108	5600	
GEN ₂ -MAX 20K	POA	Nm³/h	155	242	315	412	577	682	833	963	1073	1187	3022	2870	2108	6400	
GEN ₂ -MAX 25K	POA	Nm³/h	186	289	377	493	690	816	997	1152	1284	1421	3025	2946	2108	7300	
GEN ₂ -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	
GEN ₂ -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) 7 barg inlet pressure and 20 - 25°C inlet temperature.

(2) PDP must always be lower than ambient temperature.

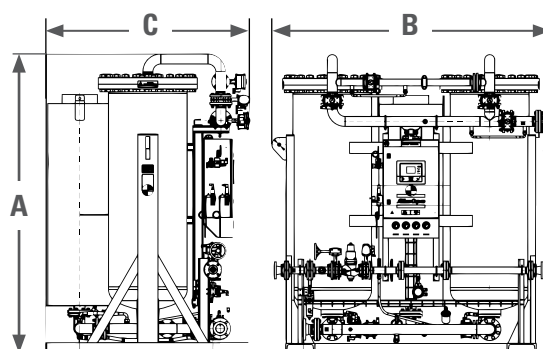
(3) Including oil vapour.

(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.

Specifications

Design operating pressure range (barg)	5 - 10 barg
Design operating temperature range (°C)	5 to 50
Recommended operating temperature range (°C)	5 to 35
Maximum inlet particulate (micron)	0.1
Maximum inlet dew point (°C pdp) ⁽²⁾	+7
Recommended inlet dew point (°C pdp) ⁽²⁾	+4
Maximum inlet oil content (ppm) ⁽³⁾	0.01
Supply voltage	110 - 240 VAC (50 or 60Hz)





NMG NITROGEN

95% to 99.7% Purity

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

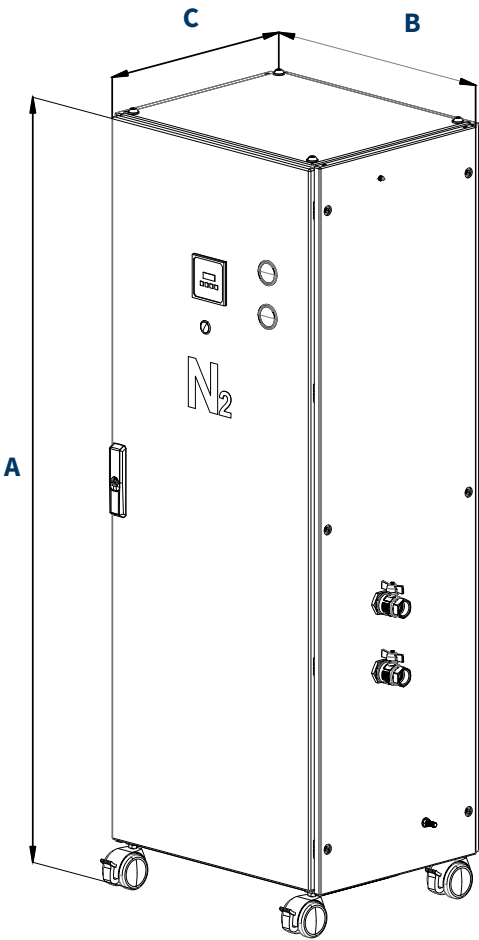


Model	Price	Rated Outlet Flow	Nitrogen Purity At The Outlet (Max. Oxygen Content)							Dimensions (mm)			Approx Weight
	€EUR		99.3% (0.7%)	99.5% (0.5%)	99% (1%)	98% (2%)	97% (3%)	96% (4%)	95% (5%)	A	B	C	(kg)
NMG 2L1	POA	Nm³/h	0.3	0.4	0.5	0.8	1	1.2	1.5	800	600	400	44
NMG 2L2	POA	Nm³/h	0.6	0.8	1	1.6	2	2.4	3	800	600	400	46
NMG 2L3	POA	Nm³/h	0.9	1.2	1.5	2.4	3	3.6	4.5	800	600	400	48
NMG 2L4	POA	Nm³/h	1.2	1.6	2	3.2	4	4.8	6	800	600	400	50
NMG 4S1	POA	Nm³/h	2.5	2.9	4.4	6.4	8.2	10	12	1690	600	500	134
NMG 4L1	POA	Nm³/h	5.2	5.9	8.9	12.8	16.4	20.1	24	1690	600	500	145
NMG 4L2	POA	Nm³/h	10.4	11.8	17.8	25.6	32.8	40.2	48	1690	600	500	167
NMG 6S1	POA	Nm³/h	11	12.5	19.5	27.9	36.1	44.1	52.8	1790	600	500	168
NMG 6L1	POA	Nm³/h	15.9	18.1	28.1	40.4	52.2	63.8	76.3	2300	800	600	294
NMG 6S2	POA	Nm³/h	22	25	39	55.8	72.2	88.2	105.6	1790	600	500	206
NMG 6L2	POA	Nm³/h	31.8	36.2	56.2	80.8	104.4	127.6	152.6	2200	800	600	391
NMG 6L2	POA	Nm³/h	47.7	54.3	84.3	121.2	156.6	191.4	228.9	2200	1000	600	523
Air Factor			6.2	5.0	4.0	3.2	2.7	2.4	2.2				

Specifications	
Design operating pressure range (barg)	6 to 16
	6 to 10 at NMG 2L1 - NMG 2L3
Design operating temperature range (°C)	5 to 50
Recommended inlet air temperature (°C)	10 to 45
Inlet Air Quality	ISO 8573.1 class 1,4,1
Supply Voltage	110 – 240 VAC, 50/60 Hz
Power Rating (W)	4

- (1) At 7 barg and 35°C inlet conditions.
- (2) To be used as a rough guide only. All applications should be confirmed by nano.
- (3) Includes oxygen analyser as standard.

Service Guidelines Refer to current service manuals which can be found at www.nano-purification.com/en-uk/resources/documentation/service-manuals





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 PSA product.

B¹

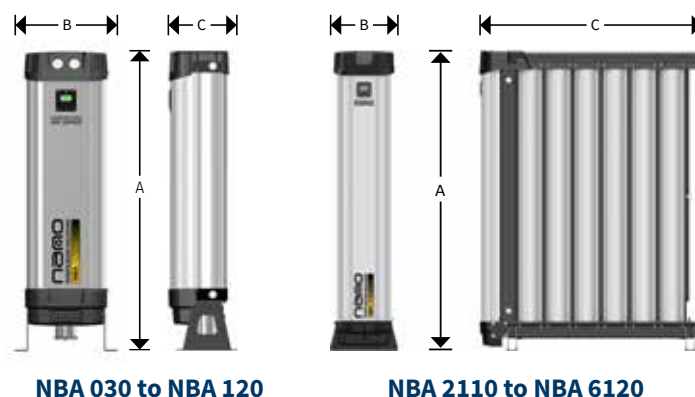
Model	List Price	Recommended Inlet Filtration	Inlet & Outlet	Inlet Flow		Outlet Flow		Dimensions (MM)			Approx. Weight
	€EUR	Part No.	BSPP	SCFM	Nm ³ /h	SCFM	Nm ³ /h	HEIGHT	WIDTH	DEPTH	kg
NBA 030	€4,260	GFNB 0015 M1/M01	3/8" (1)	8	13	6	10	649	263	220	12
NBA 040	€4,730	GFNB 0015 M1/M01	3/8" (1)	12	20	9	15	873	263	280	16
NBA 050	€5,260	GFNB 0025 M1/M01	3/8" (1)	19	32	14	24	1193	263	280	20
NBA 070	€6,240	GFNB 0050 M1/M01	1"	35	59	26	44	762	426	283	40
NBA 090	€7,480	GFNB 0070 M1/M01	1"	55	93	41	70	914	426	283	54
NBA 110	€12,530	GFNB 0105 M1/M01	1"	87	148	65	110	1245	426	283	78
NBA 120	€16,100	GFNB 0125 M1/M01	1"	108	183	81	138	1499	426	283	95
NBA 2110	€22,440	GFNB 0280 M1/M01	2"	172	292	139	219	1288	400	619	166
NBA 2120	€26,380	GFNB 0280 M1/M01	2"	216	367	162	275	1538	400	619	200
NBA 3120	€30,330	GFNB 0325 M1/M01	2"	324	550	243	413	1538	400	787	272
NBA 4120	€36,820	GFNB 0450 M1/M01	2"	432	734	324	550	1538	400	955	363
NBA 6120	€50,660	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 (barg)	6 to 16	6 to 10
Recommended operating temp range (°C)	1.5 to 30	1.5 to 30
Recommended air inlet quality	class 2	class 2
Design operating temperature range (°C)	1.5 to 50	1.5 to 50
Power supply requirements	110-240V AC 50/60Hz	110-240V AC 50/60Hz
Power rating	25W (D1) 35W (D2/D3)	38W (D3)
Performance (2)		
Maximum water content (°C) (pdp)	-31	-31
Maximum oil content (mg/m3)	0.01	0.01
Odour + taste	none	none
O ₂ range	21% ± 1%	21% ± 1%
Maximum CO content (ppm)	< 5	< 5
Maximum CO ₂ content (ppm)	<500	<500

Pressure Correction Factors (3)											
Inlet air pressure (barg)	6	7	8	9	10	11	12	13	14	15	16
Correction factor	0.88	1.00	1.13	1.25	1.38	1.5	1.63	1.75	1.88	2.01	2.13

Temperature Correction Factors (3)				
Inlet air temperature (°C)	15	20	25	30
Correction factor	1.00	1.00	0.90	0.90

- (1) NBA 030 and 040 have 8mm push to connect adapters and NBA 050 has 12mm on the 3/8" inlet and outlet. All other models have BSPP threaded connections
- (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_uk@nano-purification.com.



ACCESSORIES + SERVICE KITS

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

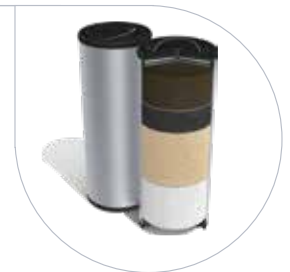
Suffix ⁽¹⁾	Description	Fits	List Price
ES D ¹ /D ²	Energy Saving Outlet Dew Point Control & Display	NBA 030 - NBA 120	€2,650
ES D ³	Energy Saving Outlet Dew Point Control & Display	NBA 2110 - 6120	€3,420

(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	€925
		NBA SK 040	NBA 040	€1,070
		NBA SK 050	NBA 050	€1,280
		NBA SK 070	NBA 070	€1,480
		NBA SK 090	NBA 090	€2,020
		NBA SK 110	NBA 110	€2,670
		NBA SK 120	NBA 120	€2,960
		NBA SK 110 x2	NBA 2110	€5,330
		NBA SK 120 x2	NBA 2120	€5,910
		NBA SK 120 x3	NBA 3120	€8,860
		NBA SK 120 x4	NBA 4120	€11,810
		NBA SK 120 x6	NBA 6120	€17,710
Replacement Exhaust Silencer		ESK2 NDL	NBA 70 to 120	€690
		ESK3 NDL	NBA 2120 to 6120	€490
		ESK 130	NBA 070-120	€136
		ESK 030	NBA 030	€126
		ESK 040	NBA 040	€142
		ESK 050	NBA 050	€182
		ESK 3130	NBA 2120-3120	€272
		ESK 6120	NBA 4120-6120	€406



(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 Ukpean 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_uk@nano-purification.com.





CONDENSATE TREATMENT SYSTEMS

S¹

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.

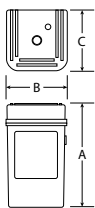
Separator Model	Price	Inlet Connection		Outlet Connection		Rated Flow ⁽²⁾		Dimensions (mm)			Approx. Weight
	€EUR	BSPP	QTY	BSPP	QTY	SCFM	Nm ³ /h	A	B	C	kg
NSS 100	€130	1/4"	1 ⁽¹⁾	3/8"	1 ⁽¹⁾	60	102	239	140	140	2.9
NSS 200	€422	1/2"	4	3/4"	1	120	204	500	216	256	6.0
NSS 600	€625	1/2"	4	3/4"	1	360	612	655	345	282	7.9
NSS 1500	€935	1/2"	4	3/4"	1	900	1529	988	432	495	32.6
NSS 2100	€1,550	1/2"	4	3/4"	1	1250	2124	1332	432	495	45.0
NSS 3000	€2,480	1/2"	8	3/4"	1	1800	3058	988	988	821	69.0
NSS 4200	€3,660	1/2"	8	3/4"	1	2500	4248	988	1077	546	95.0
NSS 6000	€9,180	3/4"	2	3/4"	1	3500	5947	1000	1000	701	319
NSS 12000	€12,370	3/4"	2	3/4"	1	7000	11,893	1000	1100	1100	467

Specifications	NSS 100	NSS 200 to 4200	NSS 6000	NSS 12000
Expected media life ⁽²⁾	4000 hours	4000 hours	4000 hours	4000 hours
Maximum oil carry over (ppm)	< 20	< 20	< 20	< 20
Warranty	1 year	2 years	2 years	2 years
Max condensate inlet pressure (barg)	16	16	16	16
Inlet condensate temperature range (°C)	2 to 40	2 to 40	2 to 40	2 to 40

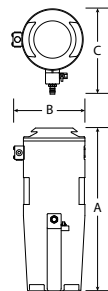
(1) Push to connect (PTC)

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

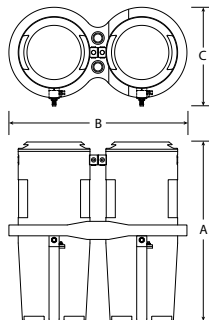
(3) Media life decreases with increased condensate flow.



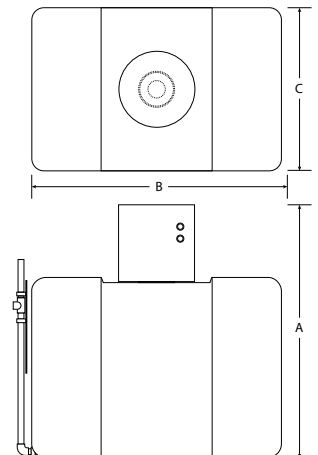
NSS 100



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	€146
Yoke Kit - Converts Two (2) NSS 1500 To One (1) NSS 3000	NSS 3000 YK	NSS 1500	€735
Yoke Kit - Converts Two (2) NSS 2100 To One (1) NSS 4200	NSS 4200 YK	NSS 2100	€1,110
Condensate Sampling Kit	NSS SK1	All	€52



Wall Mounting Kits

Description	Part No.	Fits	List Price
Wall Mounting Kit For The NSS 200	NSS 200 WMK	NSS 200	€168
Wall Mounting Kit For The NSS 600	NSS 600 WMK	NSS 600	€178



Replacement Media Kits

Description	Part No.	Fits	List Price
Complete Replacement Separator With Wall Mounting Bracket	NSS 100	NSS 100	€130
(1) Media Bag*, (1) Pre Filter Bag & (1) Retainer Clip	NSS 200 MRK	NSS 200	€220
(1) Media Bag*, (1) Pre Filter Bag & (1) Retainer Clip	NSS 600 MRK	NSS 600	€324
(1) Media Bag*, (1) Pre Filter Bag & (2) Retainer Clips	NSS 1500 MRK	NSS 1500	€530
(2) Media Bag*, (1) Pre Filter Bag & (2) Retainer Clips	NSS 2100 MRK	NSS 2100	€830
(2) Media Bags*, (2) Pre Filter Bags & (4) Retainer Clips	NSS 3000 MRK	NSS 3000	€1,030
(4) Media Bags*, (2) Pre Filter Bags & (4) Retainer Clips	NSS 4200 MRK	NSS 4200	€1,640
Replacement Intermediate Bulk Container	NSS 6000 MRK	NSS 6000	€5,670
Replacement Intermediate Bulk Container	NSS 12000 MRK	NSS 12000	€8,780



(1) * Patented non-carbon based media



TIMED SOLENOID DRAINS

ND

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	IPH
NPTCD 12 115 B	€116	NPTD MK	€32	½" (m)	½" (f)	16	115 V
NPTCD 12 230 B	€116	NPTD MK	€32	½" (m)	½" (f)	16	230 V
NPTCD 12 24A B	€126	NPTD MK	€32	½" (m)	½" (f)	16	24 VAC
NPTCD 12 24D B	€126	NPTD MK	€32	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	IPH
NPTD 12 115 B	€104	NPTD MK	€32	½" (m)	½" (f)	16	115 V
NPTD 12 230 B	€104	NPTD MK	€32	½" (m)	½" (f)	16	230 V
NPTD 12 24A B	€110	NPTD MK	€32	½" (m)	½" (f)	16	24 VAC
NPTD 12 24D B	€110	NPTD MK	€32	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	IPH
NPTD 14 115 S	€224	NPTD MK	€32	¼" (f)	¼" (f)	16	115 V
NPTD 14 230 S	€224	NPTD MK	€32	¼" (f)	¼" (f)	16	230 V
NPTD 38 115 S	€224	NPTD MK	€32	¾" (f)	¾" (f)	16	115 V
NPTD 38 230 S	€224	NPTD MK	€32	¾" (f)	¾" (f)	16	230 V
NPTD 12 115 S	€224	NPTD MK	€32	½" (f)	½" (f)	16	115 V
NPTD 12 230 S	€224	NPTD MK	€32	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	IPH
NHPTD 14 115 40 B	€178	NHPTD 40 MK	€47	¼" (f)	¼" (f)	40	115 V
NHPTD 14 230 40 B	€178	NHPTD 40 MK	€47	¼" (f)	¼" (f)	40	230 V
NHPTD 12 115 40 B	€178	NHPTD 40 MK	€47	½" (f)	½" (f)	40	115 V
NHPTD 12 230 40 B	€178	NHPTD 40 MK	€47	½" (f)	½" (f)	40	230 V
NHPTD 14 115 80 B	€198	NHPTD 80 MK	€47	¼" (f)	¼" (f)	80	115 V
NHPTD 14 230 80 B	€198	NHPTD 80 MK	€47	¼" (f)	¼" (f)	80	230 V
NHPTD 12 115 80 B	€198	NHPTD 80 MK	€47	½" (f)	½" (f)	80	115 V
NHPTD 12 230 80 B	€198	NHPTD 80 MK	€47	½" (f)	½" (f)	80	230 V
NHPTD 14 115 250 S ⁽¹⁾	€318	NHPTD 250 MK	€168	¼" (f)	¼" (f)	250	115 V
NHPTD 14 230 250 S ⁽¹⁾	€318	NHPTD 250 MK	€168	¼" (f)	¼" (f)	250	230 V



(1) 250 barg drains are stainless steel.

ZERO AIR LOSS CONDENSATE DRAINS

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	€308	1" (f)	1" (f)	16
NASD 50 230	€845	2" (f)	2" (f)	16
Remote Switching Kit	€224	-	-	-



NED Level Controlled Zero Air Loss

Drain Model	Drain Price	Flow Rate	Inlet	Outlet	Pressure Rating	Supply Voltage ⁽³⁾	Service Kit	
	€EUR	m³/m	BSPP	BSPP	barg	1PH/50HZ	Part No.	€EUR
NED 4L B12 230	€286	3	½" (m)	¾" (f)	16	230 V	NED4-500L	€142
NED 8LC B12 230	€516	7.5	½" (f) x2	¾" (f)	16	230 V	NED4-500L	€142
NED 16LC B12 230	€600	15	½" (f) x2	¾" (f)	16	230 V	NED4-500L	€142
NED 40LC B12 230	€695	30	½" (f) x2	¾" (f)	16	230 V	NED4-500L	€142
NED 160LC B12 230	€1,160	158	½" (G) x2	¾" (G)	16	230 V	NED4-500L	€142



NMD Magnetic Operated Zero Air Loss

Drain Model	Drain Price	Inlet	Outlet	Pressure Rating	Service Kit	
	€EUR	BSPP	BSPP	barg	Part No.	€EUR
NMD 6 ⁽²⁾	€130	½" (f)	⅜" (f)	16	NMD MK6	€68
NMD 12	€172	½" (f)	⅜" (f)	16	NMD MK12	€68



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

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

(3) 115V and 24V DC options are available.

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- 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.
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.
- 4. 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.
- 5. 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.
- 6. 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.
- 7. 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.
- 8.** 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

9. **Repairs, Alternation 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 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.

10. **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.

11. **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.

12. **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.

13. **Seller:** For purposes herein, the term Seller shall mean, as applicable, nano purification solutions Ltd. For purposes of Sections 7, 8 and 11, the term Seller shall apply to and inure to the benefit of, the applicable Seller

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Notes



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Notes



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