

# KONAN®

# Compressed air cleaning system

Air Cleaning System

# AIR CLEANING SYSTEM

Refrigerated Air Dryer

Air Filter



# Air cleaning system product lineup

Compressed air is produced by the compressor which sucks, compresses, and concentrates suspended substances in the air. Compressed air is added with impurities generated in the line, resulting in further contamination.

## What is a KONAN air cleaning system?

We developed the system to efficiently remove contaminated substances in the compressed air according to usage in combination with 5 types of air filters that satisfy the quality standard of compressed air based on ISO8573.1. We offer this cleaning system to help customers improve the quality control in various types of production processes.

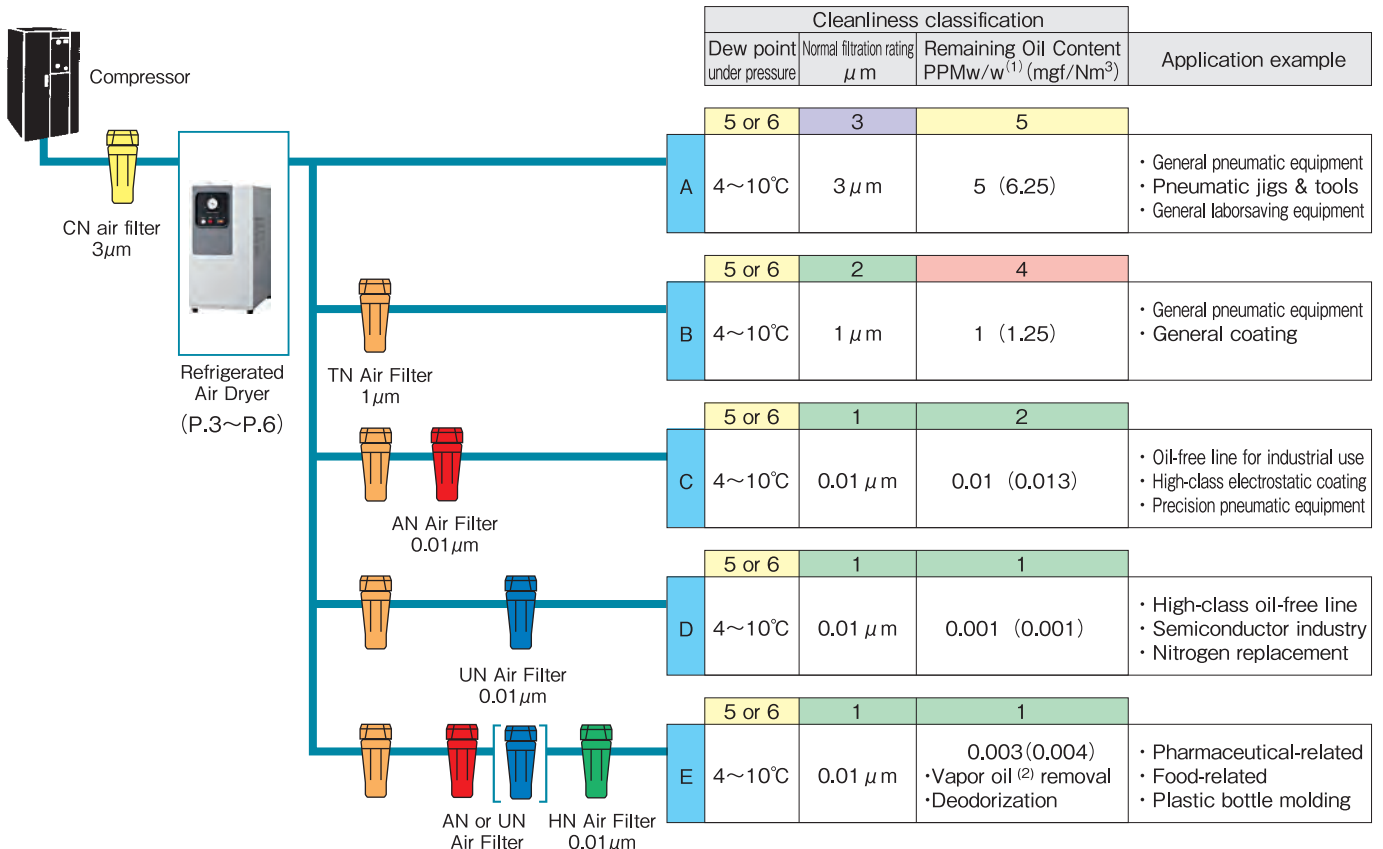
A wide variety of systems compatible with air purity satisfying the customers' needs are available. It's our pleasure to help you with your order.

## ISO 8573-1 (2001)/JIS B 8392-1 (2003) contaminated substances and cleanliness classification

Classification	Solid particle			Humidity and moisture		Oil	
	Particle diameter $d \mu\text{m}$			Humidity		Total oil concentration	
	$0.10 < d \leq 0.5$	$0.5 < d \leq 1.0$	$1.0 < d \leq 5.0$	Dew point under pressure $^{\circ}\text{C}$		Liquid oil, aerosol and vapor $\text{mg}/\text{m}^3$	PPMw/w
0	* 1			* 1		* 1	
1	100	1	0	$\leq -70$		$\leq 0.01$	$\leq 0.008$
2	100,000	1,000	10	$\leq -40$		$\leq 0.1$	$\leq 0.08$
3	—	100,000	500	$\leq -20$		$\leq 1$	$\leq 0.8$
4	—	—	1,000	$\leq +3$		$\leq 5$	$\leq 4$
5	—	—	20,000	$\leq +7$			
6				$\leq +10$			
				Moisture			
				Moisture concentration $C_w \text{ g}/\text{m}^3$			
7				$C_w \leq 0.5$			
8				$0.5 < C_w \leq 5$			
9				$5 < C_w \leq 10$			

\*1: The severer conditions than classification 1 determined by users and suppliers.

## System for dew point under pressure: 4°C to 10°C



# Refrigerated Air Dryer

## REFRIGERATED AIR DRYER



# NH-80 SERIES

## Refrigerated Air Dryer



- Tube-in-tube heat exchanger and hot gas by-pass cooling temperature adjusting system enable pressure dew point 4°C.
- Ozone-safe refrigerant R-134a and R-407C  
Medium pressure, Max. 1.4MPa is available as requested

### Specification / Model

Specification		Model	NH-8007N	NH-8012N
Rated condition (2)	Rated Flow	50Hz	270	470
	L/min(ANR) (1)	60Hz	330	570
	Applicable compressor kW		2.2	3.7
	Inlet Temperature		35°C	
	Inlet Pressure		0.7MPa	
	Ambient Temperature		32°C	
Usable range	Dew Point		Under pressure: 10°C (Under atmospheric pressure: 17°C)	
	Inlet Temperature		5~60°C	
	Inlet Pressure		0.14~1.0MPa	
	Ambient Temperature		1.7~43°C	
	Dew Point		Under pressure: 10°C	
Electric specifications	Rated power supply (3)		Single-phase AC100V 50/60Hz	
	Power consumption kW	50Hz	0.150	0.205
		60Hz	0.170	0.240
	Rated current A		2.5	3.0
Equipment component	Cooler		Tube-in-tube type	
	Condenser		Air-cooled type	
	Refrigerant control method		Capillary tube type	
	Refrigerant temperature control method		Hot-gas bypass type based on volume-adjustment valve	
	Refrigerant		R-134a	
Air inlet/outlet piping bore		Rc 3/8	Rc 1/2	
Drain discharge port piping bore		Rc 1/4	G 1/4	
Drain trap type #		NH-503J2		
Appearance dimensions		Please refer to page 5		
Mass kg		15	17	

(1) L/min (ANR) shows the volume of standard air (air of temperature 20°C, absolute pressure 0.1MPa and relative humidity 65%)

(2) In case of use on conditions other than rated conditions, calculate based on the following coefficients.

(3) Units for power voltage other than rated power supply can be created as an option.

### Treated air volume calculation method

Treated air volume (Q) on arbitrary conditions (other than rated conditions)

can be obtained by the following formula.

$$Q = (\text{Treated air volume on rated conditions}) \times (\text{Coefficient (1)}) \times (\text{Coefficient (2)}) \times (\text{Coefficient (3)}) \times (\text{Coefficient (4)})$$

Item	Inlet Pressure MPa							
	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
Coefficient (1)	0.76	0.84	0.90	0.95	1.00	1.03	1.06	1.09

Item	Dew Point °C	
	4	10
Coefficient (2)	0.71	1.00

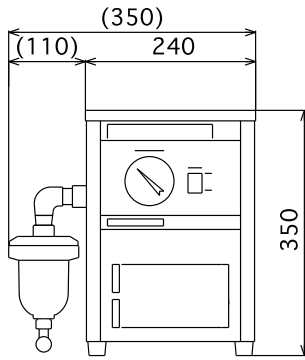
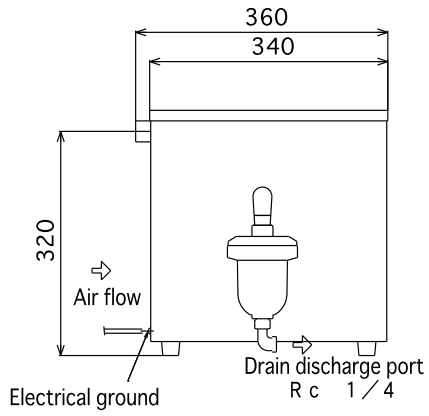
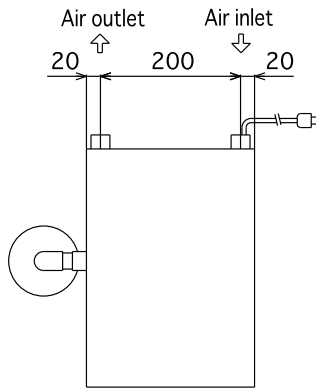
Item	Inlet Temperature °C						
	30	35	40	45	50	55	60
Coefficient (3)	1.19	1.00	0.85	0.71	0.59	0.52	0.44

Item	Ambient Temperature °C				
	25	30	32	35	40
Coefficient (4)	1.05	1.02	1.00	0.97	0.92

# Dimensions

## NH-8007N / NH-8012N

Model	Name	Air inlet/outlet piping bore
NH-8007N		Rc 3/8
NH-8012N		Rc 1/2



# NH-NDK SERIES

## Refrigerated Air Dryer (After-cooler built-in type)

- Inlet Temperature MAX.80°C
- Ozone-safe refrigerant R-134a  
(NH-NDK22、NH-NDK37)



### Specification / Model

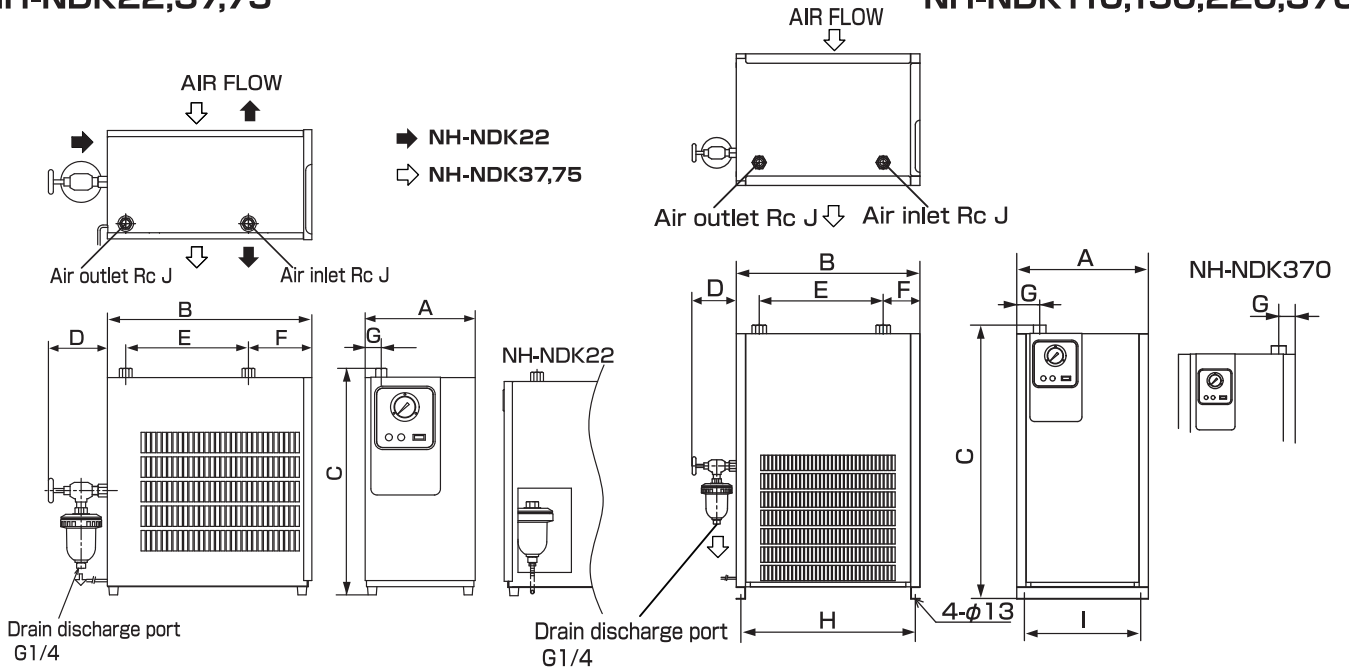
Specification		Model		NH-NDK22	NH-NDK37	NH-NDK75	NH-NDK110	NH-NDK150	NH-NDK220	NH-NDK370
Rated condition	Rated Flow L/min (ANR) (**)	50Hz		310	500	1100	1600	2400	4100	7100
		60Hz								
	Applicable compressor kW			2.2	3.7	7.5	11	15	22	37
	Inlet Temperature	55°C								
	Inlet Pressure	0.7MPa								
	Ambient Temperature	32°C								
	Dew Point	10°C以下								
Usable range	Inlet Temperature	MAX.80°C								
	Inlet Pressure	0.2~1.0MPa								
	Ambient Temperature	2~40°C								
	Dew Point	Under pressure: 10°C								
Electric specifications	Rated power supply		Single-phase AC100V 50/60Hz	Single-phase AC200V 50/60Hz	Three-phase AC200V 50/60Hz					
	Power consumption kW	50Hz	0.20	0.26	0.47	0.63	0.85	1.55	2.00	
		60Hz	0.22	0.23	0.55	0.74	1.00	1.80	2.40	
	Rated current A	50Hz	3.0	1.8	1.7	2.3	3.1	5.7	6.8	
		60Hz	2.8	1.3	1.9	2.5	3.3	5.9	7.6	
Power supply connection method		Cord with plug : 1.5m	Cabtyre cord : Triplex 1.25mm <sup>2</sup> 3m		Cabtyre cord : quadruple 2mm <sup>2</sup> 3m					
Cooler		R-134a				R-407C				
Air inlet/outlet piping bore		Rc 1/2			Rc 3/4	Rc 1			Rc 1 <sup>1</sup> / <sub>2</sub>	
Drain discharge port piping bore		G 1/4								
Appearance dimensions		Refer to Page 6.								
Mass kg		26	32	43	61	65	73	120		

\* L/min (ANR) shows the volume of standard air (air of temperature 20°C, absolute pressure 760mmHg and relative humidity 65%).

# Dimensions

## NH-NDK22,37,75

## NH-NDK110,150,220,370



Model \ Dimensions symbol	A	B	C	D	E	F	G	H	I	J
NH-NDK22	244	410	544	—	220	80	39	—	—	Rc 1/2
NH-NDK37	269	500	554	144	300	155	39	—	—	Rc 1/2
NH-NDK75	267	541	601	144	350	145	103	—	—	Rc 3/4
NH-NDK110	350	600	795	144	405	120	75	570	300	Rc1
NH-NDK150	350	600	795	144	405	120	75	570	300	Rc1
NH-NDK220	430	600	895	144	405	120	75	570	380	Rc1
NH-NDK370	510	700	1148	144	500	115	72	650	460	Rc1-1/2

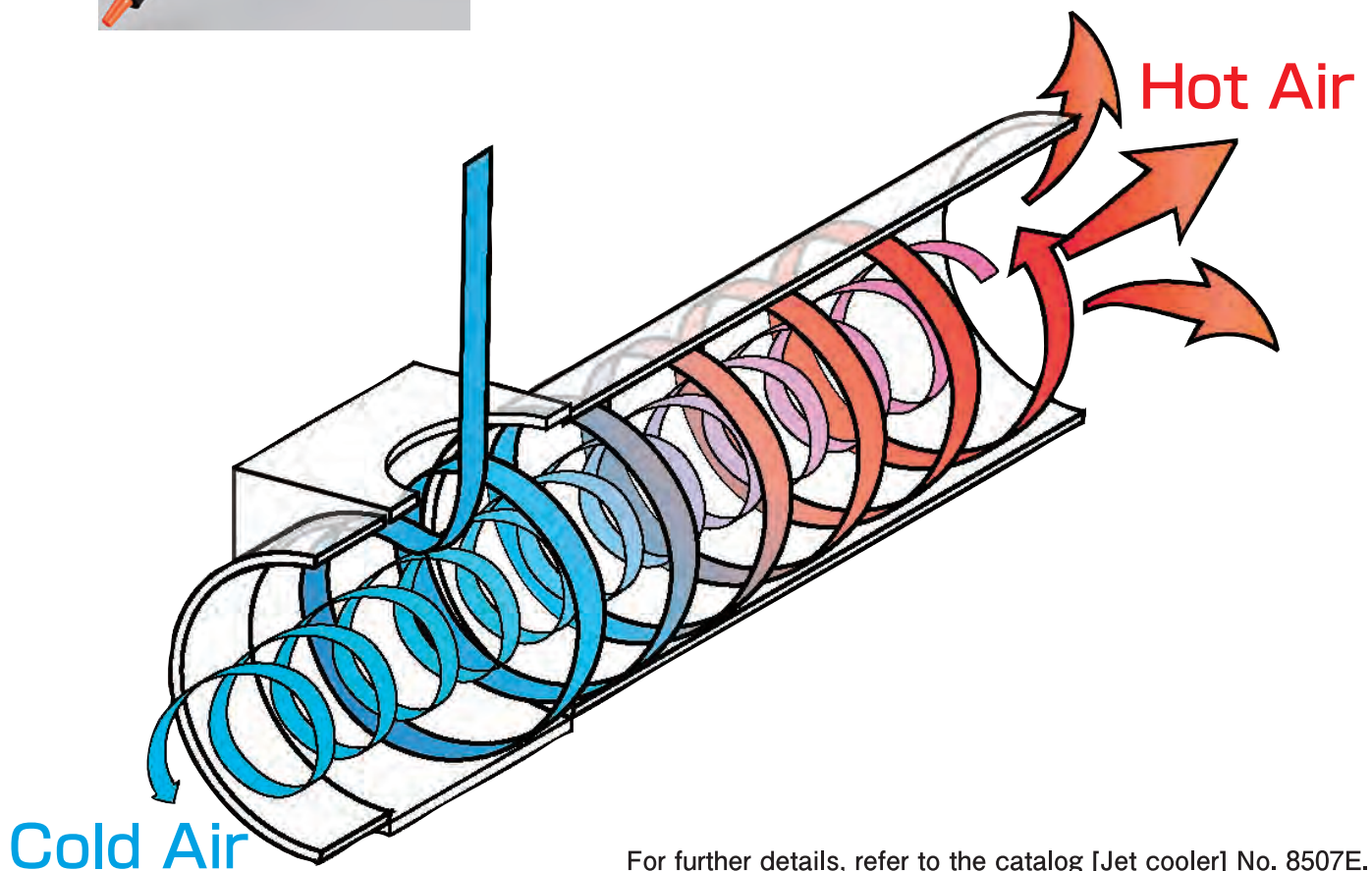
# Optimal for spot cooling in various fields

## N/K Series

**JET COOLER(COLD AIR GENERATOR)**



**JET COOLER**



For further details, refer to the catalog [Jet cooler] No. 8507E.



# Cost down by clean air!

Increases the quality of compressed air

# NI AIR FILTER SERIES

NI AIR FILTER SERIES

Realization of high performance,  
high quality and innovative design



# NI air filter/cleaning system

Each element was passed the quality standard for ISO 8573.1 Quality Class of compressed air.  
Wide-variety of lineup to widen the range of choice

## Element

A choice of five elements allows you to design a system that delivers the air quality which you required.

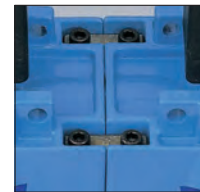


## Bracket



(Compatible with 10A to 65A as an option)

## Modular connection



Plural filters can be easily connected in a space-saving manner by the special connection kit.  
(Compatible with 10A to 65A as an option)

## Maintenance

Plug-in element enables easy replacement and minimizes a lower space for replacement.  
(Compatible with 10A to 65A as an option)

## Level gauge



Resin-made level gauge resistant to synthetic lubricating oil. Units of 10A to 40A other than HN series are equipped with the level gauge as standard.

## Auto drain



The system to capture dust causing auto drain operation failure in the element increases the reliability of auto drain. Units of all sizes other than HN series are equipped with this system as standard.

## Stop valve



The valve is used to prevent air leakage if the auto drain malfunctions.  
Units of 10A to 65A other than HN series are equipped with the stop valve as standard.

## Drain hose kit



The drain hose kit is available for units of all sizes other than HN series as an option.  
The stop valve is available for units of 10A to 65A other than HN series as an option.

**Low pressure loss :** Employment of mixed-fiber-made coalescing filter media with a very large surface area achieves the high capturing ratio and low decrease in pressure.

**Increased corrosion resistance :** Use of stainless-steel-made punching metal and screen increases corrosion resistance to oil and acid.

**Silicon free :** Non-use of silicon prevents troubles such as welding failure and coating material adhesion failure on the filter downstream side.

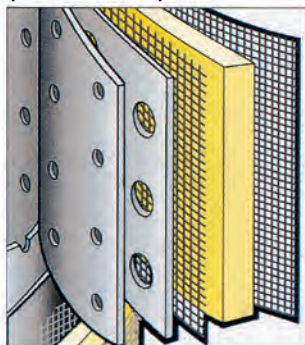
**66°C heat-resistant temperature :** Optimal as a drain separator of after-cooler.

**Plug-in type :** Plug-in element enables easy replacement and minimizes a lower space for replacement.

**Unified processing ability :** Even when series is changed, if the housing type is the same, the treated air volume is the same. Filter selection, mounting and piping are easy as a system.

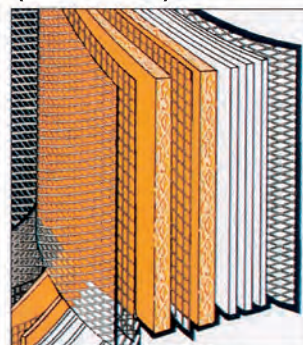
**Lineup :** Elements selectable from 5 types achieve appropriate system combination suitable for applications.

<CN SERIES>



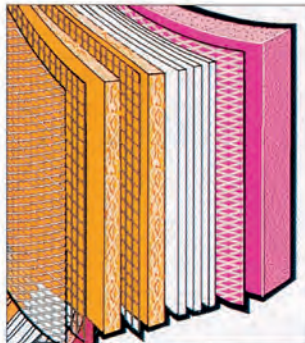
**Separator filter** ■  
Two-stage type element which maintains the condensate water separation efficiency of 99% even under the maximum drain loading conditions of 25,000PPM w/w is mounted.  
●First stage  
two stainless steel orifice tubes provide 10 micron mechanical separation  
●Second stage  
in-depth fiber media captures solid and liquid particles to 3 microns

<TN SERIES>



**Line filter** ■  
Two-stage type element which removes oil content up to 1PPM w/w even under the maximum drain loading conditions of 2,000PPM w/w is mounted.  
Suitable for protection of AN/UN series  
●First stage  
captures larger particles with alternate layers of fiber media and media screen  
●Second stage  
coalesces aerosols and captures solid and multiple layers of epoxy bonded, blended fiber media

<AN SERIES>



**Oil removal filter** ■  
Two-stage type element which removes condensed oil content up to 0.01PPM w/w even under the maximum drain loading conditions of 1,000PPM w/w is mounted to remove mist oil content.  
●First stage  
multiple layers of fiber media and media screen remove larger particles, prefiltering the air for the second stage  
●Second stage  
multiple layers of bonded, blended fiber media for fine coalescence  
-Outer coated, closed cell foam sleeve

<UN SERIES>



**Ultra filter** ■  
Two-stage type element which removes condensed oil content up to 0.001PPM w/w even under the maximum drain loading conditions of 100PPM w/w is mounted to remove mist oil content.  
●First stage  
coated, closed cell foam sleeve acts as prefilter and flow disperser  
●Second stage  
multiple layers of matrix blended fiber media for ultra-fine coalescence  
-Outer coated, closed cell foam sleeve

<HN SERIES>



**Oil vapor removal filter** ■  
Two-stage type element which removes oil and hydrocarbon vapor up to 0.003PPM w/w by activated carbon from compressed air which does not include liquid or mist-like drain is mounted to remove vapor-like oil content.  
●First stage  
a stabilized bed of finely divided carbon particles removes the majority of the oil vapor  
●Second stage  
multiple layers of fiber media with bonded microfine carbon particles removes the majority of the oil vapor  
-Multiple layers of fine media prevent particle migration  
-Outer coated, closed cell foam sleeve prevent fiber migration  
--Designed for 1000 hour life at rated conditions

**Maintenance sticker**

CN · TN · AN · UN series

Replace the elements every year.

**HN series**  
Replace the elements every year or every 1000 hours under the rated conditions.






Enter the next element replacement timing.

Year / Month

**Necessary to replace elements**  
All filters are delivered with the maintenance stickers attached. Replace elements at least once a year. (However, replacement interval varies depending on quality of air.)  
The service life of activated carbon of HN series is determined by time and an amount of vapor oil which inflows (depending on temperature, kind of oil, etc.). The reference service life is 1,000 hours on the rated conditions. Replace elements every 1,000 hours or replace them earlier if odor of oil is detected.

(Note) In compressed air after condensed oil was removed up to 0.001PPM w/w by UN series, vapor oil at approx. 0.05 to 2PPM is included though it varies depending on the oil type, air temperature and pressure.

## Specification

Name	Separator filter 	General purpose air Line Filter 	High Efficiency Oil Removal Filter 	Ultra High Efficiency Oil Removal Filter 	Oil Vapor Removal Filter 
Series	CN Series	TN Series	AN Series	UN Series	HN Series
Fluid	Air				
Usable pressure MPa	10A~65A	0.14~1.72 (Note 1)			0~2.06
	80A~250A	0.07~0.98 (Note 2)			0~0.98 (Note 3)
Name	°C				
Pressure loss MPa	Dry	0.007		0.014	0.007
	Wet	0.011	0.014	0.021	0.041
Service life of element	Every year (Ex. Replacement interval varies depending on quality of air.) (Note 4)				Every year or approx. 1,000 hours at rated flow rate (Note 5).
Accessories	Standard	Auto drain Level gauge : 10A~40A Stop valve : 10A~65A			—
	Option	Drain hose kit			
		Modular connection kit : 10A~65A Bracket kit : 10A~65A			

(Note 1) In case of NI-CN8 to NI-CN23, 0.14 to 1.37MPa. In the case where auto drain is not equipped, 0 to 2.06MPa.






(Note 2) In the case where auto drain is not equipped, 0 to 0.98MPa. 0 to 1.55MPa as an option.

(Note 3) 0 to 1.55MPa as an option

(Note 4) Increase the replacement frequency when the quality of air is not good.

(Note 5) Cannot be judged by a differential pressure because the service life is determined by time and an amount of vapor oil which inflows. Replace elements every 1,000 hours or replace them earlier if odor of oil is detected.

## Separation efficiency

Name	Separator filter 	General purpose air Line Filter 	High Efficiency Oil Removal Filter 	Ultra High Efficiency Oil Removal Filter 	Oil Vapor Removal Filter 
Series	CN Series	TN Series	AN Series	UN Series	HN Series
Normal filtration rating	3μm	1μm	0.01μm	0.01μm	0.01μm
Residual oil amount in outlet air (Oil removal ratio)	5PPMw/w	1PPMw/w	0.01PPMw/w [99.99%]	0.001PPMw/w [99.999%]	0.001PPMw/w Vapor oil removal (Note 1)
ISO8573.1 quality class	Solid	Class3	Class2	Class1	Class1
	Oil content	Class5	Class4	Class2	Class1
Max. loading amount of liquid at inlet side	25,000PPMw/w	2,000PPMw/w	1,000PPMw/w	100PPMw/w	Be sure to use AN or UN series at inlet side as a pre-filter. Be sure to use dry air for them.

(Note 1) In the feed-oil type air compressor, aerosol-like oil particle and vapor-like oil particle are mixed with compressed air and discharged together.

Aerosol-like oil particle can be removed up to 0.001PPM w/w by UN series, however, vapor-like oil particle is formed by gas molecule, which cannot be mechanically removed.

In HN series, vapor-like oil particle and odor of hydrocarbon are removed by activated carbon (0.003PPM w/w)

## Model selection

Do not select filters based on the pipe size but select them with a sufficient margin in consideration of treated air amount and usable pressure.

For the maximum treated air amount except for rated pressure conditions of 0.69MPa, multiply the treated air amount on P.3 "Standard specifications" by the correction coefficient equivalent to the minimum usable pressure at the filter inlet.

Minimum usable output [MPa]	0.20	0.29	0.39	0.49	0.59
Correction coefficient	0.38	0.49	0.62	0.75	0.87

Minimum usable output [MPa]	0.69	0.98	1.37	1.67	2.06
Correction coefficient	1.00	1.17	1.36	1.50	1.65

## ISO8573.1 quality class

Quality class	Maximum contaminated particle	Maximum dew point under pressure	Maximum contaminated particle
	μm	°C	PPM w/w (mgf/N)
1	0.1	-70	0.008 [0.01]
2	1	-40	0.08 [0.1]
3	5	-20	0.8 [1]
4	15	3	4 [5]
5	40	7	21 [25]
6	—	10	—

## Display of model number

NI- CN 11 - 25A - DL - BADVDK

### Series type

CN: Separator filter ■  
 TN: General purpose air Line Filter ■  
 AN: High Efficiency Oil Removal Filter ■  
 UN: Ultra High Efficiency Oil Removal Filter ■  
 HN: Oil Vapor Removal Filter ■

### Element type

9: Separator filter ■  
 7: General purpose air Line Filter ■  
 5: High Efficiency Oil Removal Filter ■  
 3: Ultra High Efficiency Oil Removal Filter ■  
 1: Oil Vapor Removal Filter ■

### ● Element/ parts model number

E [Element type] - [Element number]  
 例) E7-36

### ● Modular connection kit/ parts model number

NI-CN [Housing type] - [Connection bore] -MK  
 例) NI-CN11-25A-MK

(Note 1) Pressure at inlet side: 0.69MPa  
 (Note 2) Connection bore Rp screw

Housing		Pipe connection bore (Note 2)
Type	Treated air amount (Note 1) m <sup>3</sup> /min (ANR)	
Modular type		
06	0.57	10A 15A
1	1.00	
2	1.72	20A 25A
3	2.86	
5	4.86	25A
8	7.15	25A
11	10.7	40A
Pressure vessel type		
14	13.8	50A 65A
18	17.8	65A
23	22.3	
18	17.8	80A (3B Flange)
30	28.6	
36	35.7	100A (4B Flange)
54	53.6	
72	71.5	150A (6B Flange)
90	89.4	
150	143	200A (8B Flange)
200	196	
250	250	250A (10B Flange)
350	339	
470	465	
610	608	

### Accessories

B A: Bracket Kit (Option)  
 (Compatible with 10A to 65A)  
**DV**: Stop valve (standard equipment)  
 (Excluding HN series, Compatible with 10A to 65A)  
 D K: Drain hose kit (Option)  
 (Excluding HN series.)

### Accessories


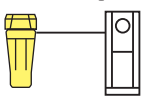
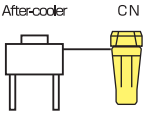

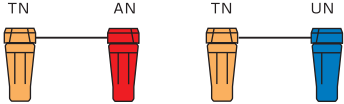
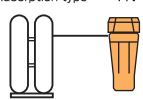

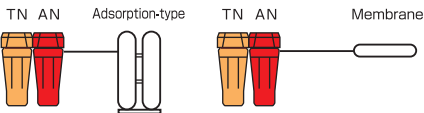
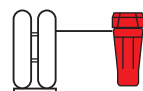



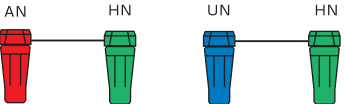
**D**: Auto drain (standard equipment)  
 (Excluding HN series.)  
 D M: DM: Manual drain (Option)  
 (Standard equipment for HN series)  
**L**: Level gauge (standard equipment)  
 (Compatible with 10A to 40A)

## Standard specifications

Model number (Note 1)	Housing type	Treated air amount (Note 2) m <sup>3</sup> /min (ANR)	Connection bore	Standard equipment accessories CN/TN/AN/UN series (Note 1)	Element		
					Number	Quantity	
Modular type							
NI-□ 06-□ DL-DV	06	0.57	10A 15A	Auto drain Level gauge Stop valve	E□-12	1	
NI-□ 1-□ DL-DV	1	1.00					
NI-□ 2-□ DL-DV	2	1.72					
NI-□ 3-□ DL-DV	3	2.86					
NI-□ 5-□ DL-DV	5	4.86					
NI-□ 8-□ DL-DV	8	7.15					
NI-□ 11-□ DL-DV	11	10.7	40A				
NI-□ 14-□ D-DV	14	13.8	50A 65A	Auto drain Stop valve	E□-40		
NI-□ 18-□ D-DV	18	17.8	65A		E□-44		
NI-□ 23-□ D-DV	23	22.3					
Pressure vessel type							
NI-□ 18-□ D	18	17.8	80A:3B Flange	Auto drain	E□-PV		1
NI-□ 30-□ D	30	28.6			E□-54	2	
NI-□ 36-□ D	36	35.7				2	
NI-□ 54-□ D	54	53.6	100A:4B Flange			3	
NI-□ 72-□ D	72	71.5				4	
NI-□ 90-□ D	90	89.4	150A:6B Flange			5	
NI-□ 150-□ D	150	143				8	
NI-□ 200-□ D	200	196	200A:8B Flange		E□-PV	11	
NI-□ 250-□ D	250	250					14
NI-□ 350-□ D	350	339	250A:10B Flange			19	
NI-□ 470-□ D	470	465					26
NI-□ 610-□ D	610	608					34

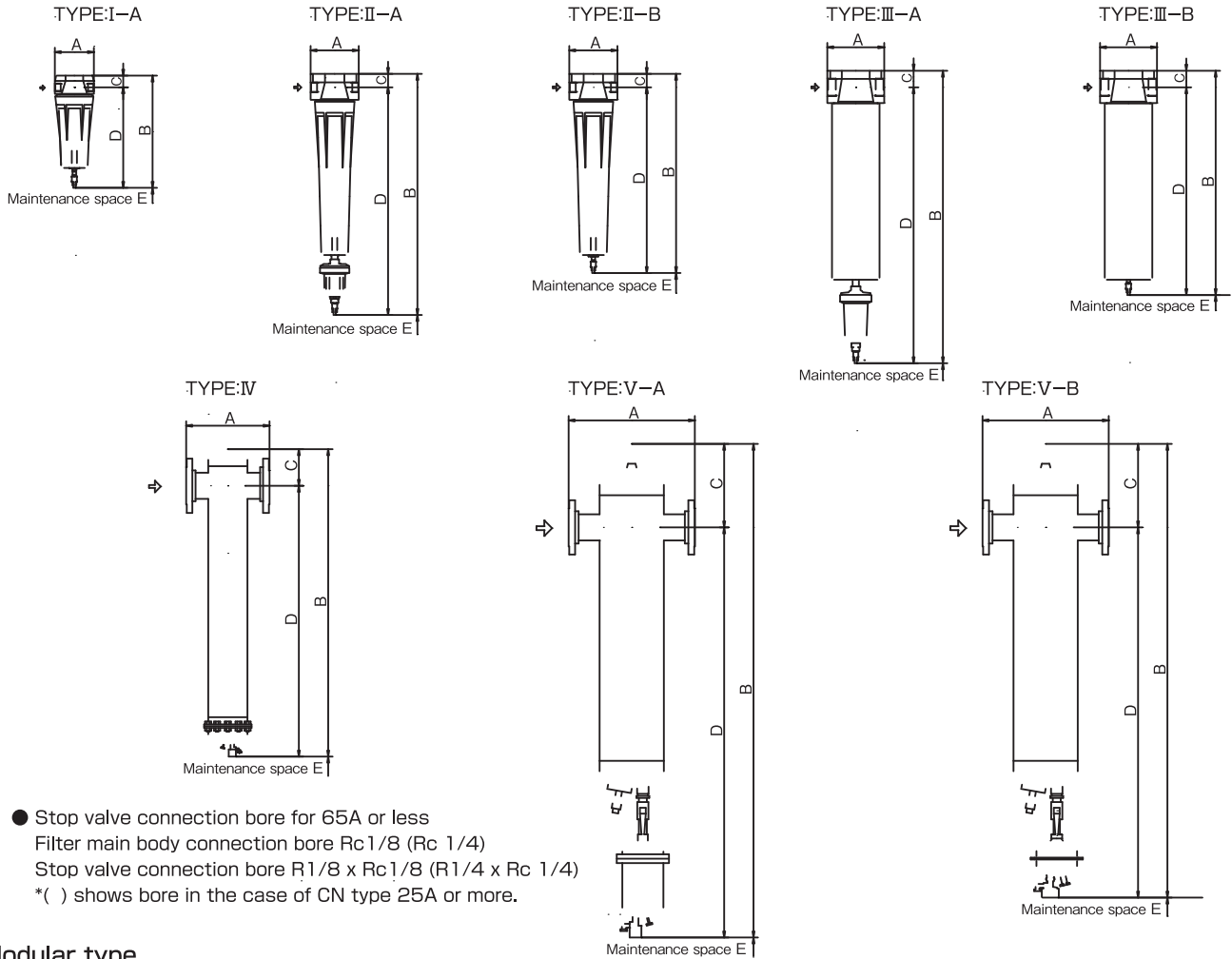
(Note 1) Since HN series/oil vapor removal filter do not need auto drain and level gauge, accessory model number is not displayed.  
 (Note 2) Pressure at inlet side: 0.69MPa

## Application example

Series	Quality of compressed air	Main application examples	Normal filtration rating $\mu\text{m}$	Residual oil amount in outlet air PPMw/w(mgf/Nm <sup>3</sup> )
CN Series 	Condensed water of 99% Oil content of 5PPM w/w or less Solid body of $3\mu\text{m}$ or more The above materials are removed.	<ul style="list-style-type: none"> <li>●General pneumatic equipment</li> <li>●Pneumatic jigs &amp; tools</li> <li>●General labor-saving equipment</li> <li>●At the inlet side of refrigerating-type dryer</li> </ul>  <ul style="list-style-type: none"> <li>●At the outlet side of after-cooler</li> </ul> 	3	5[6.25]
TN Series 	Condensed water of 100% Oil content of 1PPM w/w or less Solid body of $1\mu\text{m}$ or more The above materials are removed.	<ul style="list-style-type: none"> <li>●General industrial equipment</li> <li>●General coating</li> <li>●At the inlet side of AN/UN series</li> </ul>  <ul style="list-style-type: none"> <li>●At the outlet side of adsorption-type dryer</li> </ul> 	1	1[1.25]
AN Series 	Condensed water of 99.99% Oil content of 0.01PPM w/w or less Solid body of $0.01\mu\text{m}$ or more The above materials are removed.	<ul style="list-style-type: none"> <li>●Industrial oil-free line</li> <li>●Static and high-class coating</li> <li>●Precision pneumatic equipment</li> <li>●At the inlet side of adsorption-type/membrane dryer</li> </ul>  <ul style="list-style-type: none"> <li>●For removal of fine particles at the outlet side of adsorption-type dryer</li> </ul> 	0.01	0.01 [0.013]
UN Series 	Condensed water of 99.999% Oil content of 0.001PPM w/w or less Solid body of $0.01\mu\text{m}$ or more The above materials are removed.	<ul style="list-style-type: none"> <li>●High-class oil-free line</li> <li>●Semiconductor industry</li> <li>●Nitrogen replacement</li> <li>●At the inlet side of adsorption-type/membrane dryer</li> </ul> 	0.01	0.001 [0.001]
HN Series 	Vapor oil removal Condensed water of 99.999% Oil content of 0.001PPM w/w or less Solid body of $0.01\mu\text{m}$ or more The above materials are removed. Deodorization (Be sure to use dry air)	<ul style="list-style-type: none"> <li>●Pharmaceutical-related</li> <li>●Food-related</li> <li>●Plastic bottle molding</li> <li>●At the outlet side of AN/UN series</li> </ul> 	0.01	0.003 [0.004] Vapor oil removal

(Note) A dryer is required to remove moisture.

# Dimensions



## Modular type

Series dimension symbol Housing type	TYPE		Dimensions (mm)								Mass (kgf)		
	CN	TN·AN UN·HN (注1)	A	B			C	D			E	CN	TN · AN · UN · HN
				CN	TN·AN·UN	HN(注1)		CN	TN·AN·UN	HN(注1)			
06	I-A		105	247	203	37	210	166	76		1.2		
1				299	255		262	218			1.3		
2				360	316		323	279			1.4		
3			133	382	338	40	342	298	89	2.6			
5				489	445		449	405		3.0			
8	II-A	II-B	164	711	568	524	46	665	522	478	102	5.8	4.4
11				821	678	634	775	632	588	6.0		4.6	
14	III-A	III-B	194	1011	766	722	57	954	709	665		11.2	9.6
18				1157	912	868		1100	855	811		12.4	10.6
23				1313	1068	1024		1256	1011	967		14.0	12.2

## Pressure vessel type

Series dimension symbol Housing type	TYPE		Dimensions (mm)								Mass (kgf)						
	CN	TN·AN UN·HN (注1)	A	B			C	D			E			CN	TN	AN UN	HN
				CN	TN·AN·UN	HN(注1)		CN	TN·AN·UN	HN(注1)	CN	TN·AN·UN	HN				
18	IV		284	1076	1038	124	952	914	610	610		21					
30	V-A	V-B	430	1644	1509	1219	246	1398	1263	973			52	50	48	45	
36											437		1670	1535	1245	1424	999
54			508	1752	1617	1327	295	1457	1322	1032	89	87	82				
72			610	1812	1387	341	1471	1471	1046	185	610	130	128	123			
90			711	2014	1589	429	1585	1160	242			240	235				
150			838	2180	1755	498	1682	1257	245	243	238						
200			991	2151	1726	497	1654	1229	329	327	322						
250			1165	2227	1802	548	1679	1254	423	416							
350									647	660							
470																	
610																	

(Note 1) HN series is not equipped with auto drain or stop valve.

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