

Technical Data

NX-1000 with Fan for Coolant/Oil Mist.

Coolant or Oil Mist

NX mechanical oil mist filter is designed to eliminate coolant or oil mist from lathing, milling, drilling, sawing, water cutting etc.

Filter Cassettes

NX-1000 oil mist filters are equipped with a self-draining Filter Cassette of Nailed Glass-Fiber and a HEPA H13 Filter. Each filter has a separate pressure gauge (manometer). Over 99,95% filter efficiency is achieved. The cleaned air can be re-circulated into the premises. Keeps heating costs down.

Application

NX-1000 for 1-2 machines.

Complete Unit

NX-1000 is a complete unit of powdercoated steel sheet with Nailed Glass-Fiber Filter cassette, HEPA H13 Filter and Fan. Inlet from left or right with inlet flange with inside measure D.160 mm and cover for the not used inlet. Oil return pipe with 1 inch outside thread.

Accessories

As accessory you can get 0.5 m Extension Legs.

40 Years Experience

40 years experience of design and manufacturing at your service.

The Plymoth products are a combination of well proven technique and progressive new ideas.



	Art.Nr.
NX-1000 Filter with Fan 3-phase/1.1kW/400V/50Hz for Coolant and Oilmist incl. filterbox and legs of powder painted steel sheet, oil return pipe with 1" outside thread, inlet from the right or left with 160mm inlet flange (inside measure) and cover plate for the not used inlet side, Fan 3-phase/1.1 kW/400V/50Hz, Filter Cassette 8m ² (8+8+8m ²) of Nailed Glass-Fiber with Alu Separators, HEPA H13 Filter 22m ² and 2 pcs Pressure Gauges (Manometers). Measurements: 1800x640x750mm.	P-259
Extension Legs 0.5 m (4 pcs.) for NX-1000/2000/4000	P-322
Replacement Filter Cassette of Nailed Glass-Fiber (8m²). Second from the bottom for NX-2000/6000(For NX-6000 3 pcs). This Cassette is the only needed for NX-1000.	P-319
Replacement HEPA H13 Filter 22m² (99,95%) for NX-1000/2000/6000 (NX-6000 3 pcs).	P-264

1.3 Unit Description NX-1000/Fan.

Fan with 3-Phase Motor.

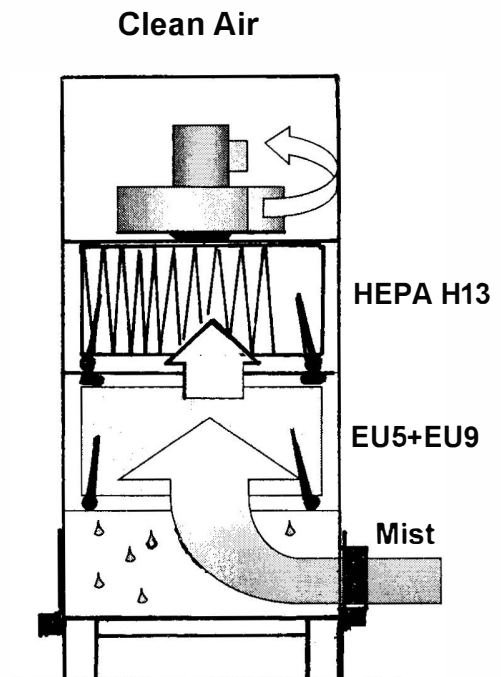
HEPA H13 Filter Box with Exenter Locks to press the Filter Box upwards. Door with 2 Pressure Gauges. One for HEPA Filter and one for Glass Fiber Filter.

Glass Fiber Filter with Aluminium Separators. Eu5/Eu9. Exenter Locks to press the Filter upwards. Door with 2 Pressure Gauges for Glass-Fiber and HEPA Filters.

Air Inlet Flange: Alternatively left or right. Cover Lid.

Expansion Chamber.

Drainage: Alternatively left or right with one Lid.



1.4 Installation.

The installation site is to be selected in such a way that the tubing distance is as short as possible. If possible mount the unit on a bracket on a wall or on a Stanchion to get the ducting leaning slightly downwards to the machine/machines. It makes liquid, which can condense in the ducting, go back to the machine/machines. It makes the filters last longer. The filtered liquid can be fed back to the machine/machines by it self. However a "Water trap" type Siphon has to be used at the drainage outlet of the NX unit to avoid air to be sucked through the drainage hose/pipe.

If you install the NX filter on the floor you need to equip it with 0.5m high legs (Extra equipment P-322). This to get enough height for having a collecting container for the filtered liquid on the floor.

In addition it is to be made certain that the accesibility for maintenance work is ensured.

The Machine/Machines normally have a connection tube to be used for the mist extraction.

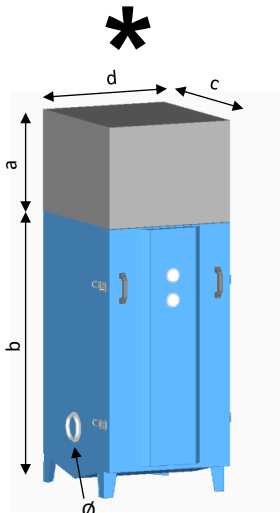
The connection of the dia. 160mm ducting from the machine/machines to the NX Filter can take place alternatively to the left or to the right of the unit. The side which is not used shall be covered with the included lid. Only use oil/water tight and resistant tubes, bends and connections for the ducting.

The 1" draining pipes for the filtered liquid are at the bottom of the unit, on the left and on the right side. Only one drainage pipe must be used. The other side shall be covered with the included lid.

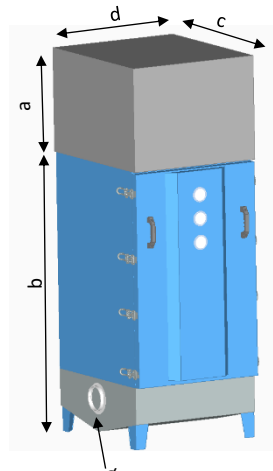
The ducting system from the machine/machines shall be equiped with a lockable damper close to the NX filter's inlet. The damper is to be adjusted so only mist is extracted. No drops!
Normally 0.5m/sec. is needed in the door opening to avoid that mist will come out when the door of the machine is open.

NX-1000/2000/4000/6000/8000 with Fan.

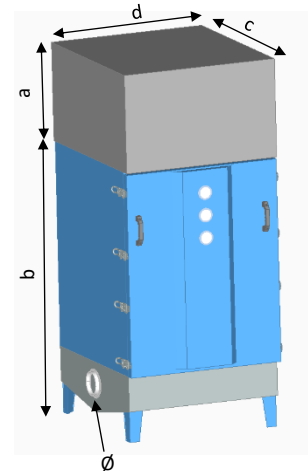
NX



NX-1000

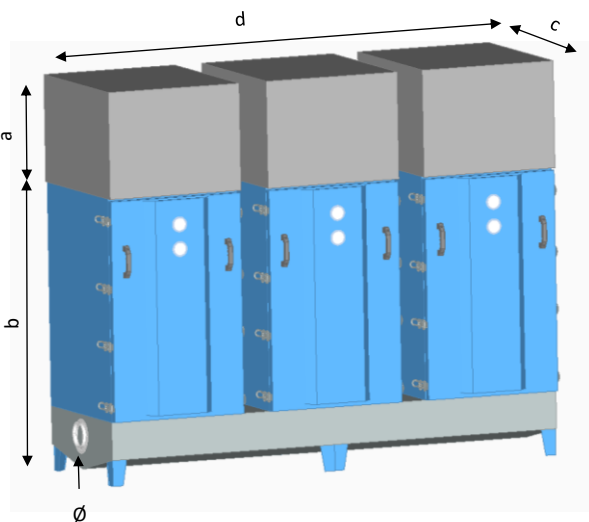


NX-2000

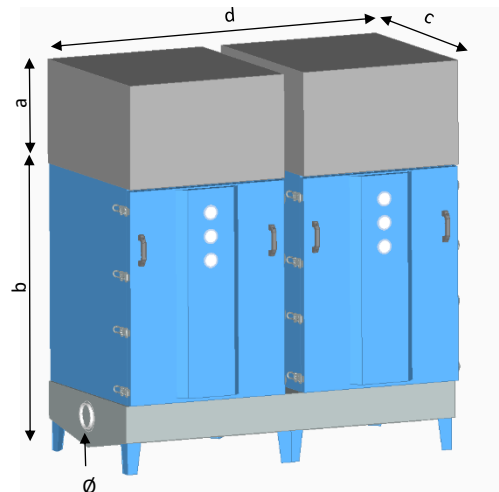


NX-4000

	a (mm)	b (mm)	c (mm)	d (mm)	∅ (mm)	Motor (kW)	Luftleistung (m³/h)	Gewicht (kg)
NX-1000	500	1.300	750	640	160	1,1	1.000	134
NX-2000	500	1.600	750	640	200	2,2	2.000	176
NX-4000	500	1.600	900	800	315	4	4.000	248



NX-6000



NX-8000

	a (mm)	b (mm)	c (mm)	d (mm)	∅ (mm)	Motor (kW)	Luftleistung (m³/h)	Gewicht (kg)
NX-6000	500	1.600	750	2.200	400	3x 2,2	6.000	522
NX-8000	500	1.600	900	1.700	400	2 x 4	8.000	496

- * **Filter Area NX-1000: Nailed Glass-Fiber EU5+EU9 (8m2) and HEPA H13 (22m2).**
- Filter Area NX-2000: Nailed Glass-Fiber EU5 (10m2), EU5+EU9 (8m2) and HEPA H13 (22m2).**
- Filter Area NX-4000: Nailed Glass-Fiber EU5 (21m2), EU9 (15m2) and HEPA H13 (44m2).**
- Filter Area NX-6000: Nailed Glass-Fiber EU5 (30m2), EU9 (24m2) and HEPA H13 (66m2).**
- Filter Area NX-8000: Nailed Glass-Fiber EU5 (42m2), EU9 (30m2) and HEPA H13 (88m2).**

How to choose the right size of NX Filter.

Around 0.5m/sec. in the opening of a lathe or milling machine is needed to stop coolant mist from coming out when the door is opened.

To choose the right NX Filter you just need to measure the width and height of the opening, when the door is open. Multiply the figures with each other. With the measure in m² you can find the right NX Filter in the table below.

If you intend to have several machines on one NX Filter you just add the m² measures and check below.

For 0.5m/sec. air velocity in the opening of the machine, the following NX Filter is recommended:

Machin/Machines Opening size m ²	Air Volume/hour	PNX Filter
0.25m ²	450m ³ /h	NX-400 or NX-600
0.5m ²	900m ³ /h	NX-1000
0.75m ²	1350m ³ /h	NX-1000 or NX-2000
1m ²	1800m ³ /h	NX-2000
1.25m ²	2250m ³ /h	NX-2000
1.5m ²	2700m ³ /h	NX-4000
1.75m ²	3150m ³ /h	NX-4000
2m ²	3600m ³ /h	NX-4000 or NX-6000
2.25m ²	4050m ³ /h	NX-4000 or NX-6000
2.5m ²	4500m ³ /h	NX-6000
2.75m ²	5000m ³ /h	NX-6000
3m ²	5500m ³ /h	NX-6000
3.25m ²	6000m ³ /h	NX-6000
3.5m ²	6500m ³ /h	NX-8000
3.75m ²	7000m ³ /h	NX-8000

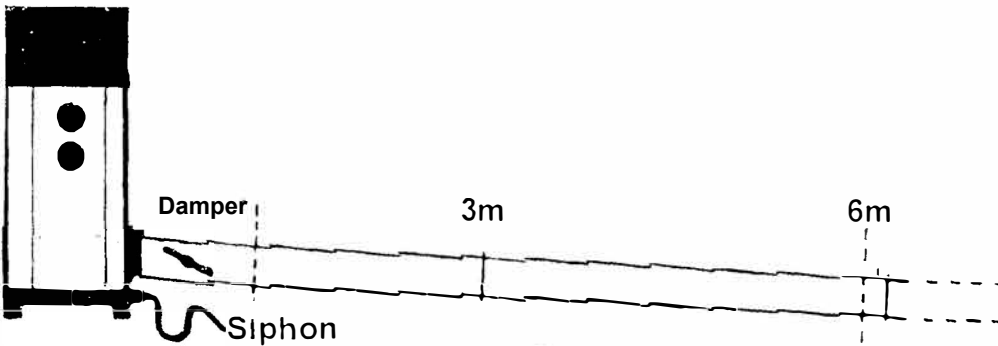
Always choose the next larger size if you are unsure and if there are a lot of fine particles in the mist.

If you need further advice don't hesitate to contact our specialists on info@plymoth.com

Ducting NX-1000.

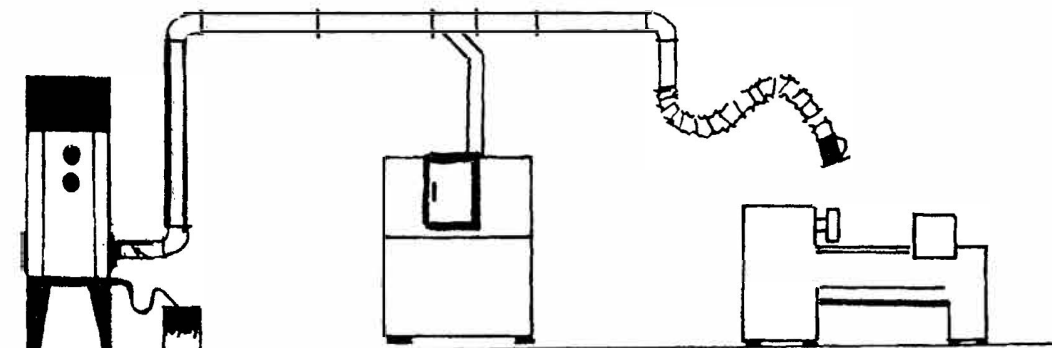
Pressure Drop is measured over each Filter. Meter/Sec and Airvolume are measured at the end of the ducting system. Noise level in dB(A) is at a 2m distance from the NX unit. The values bellow are measured with Clean Filters and the Damper horizontal (Full open). The Air Velocity and Airvolume have been measured at the end of a ducting system without bends. Depending on number of bends the figures become lower. Over time the measured values will become lower.

NX-1000 mounted high (Wall, Stanchion or Ceiling).



Ducting	Pressure Drop		Initial at end of Duct		dB(A)
	HEPA	F5+F9	m/sec	m3/h	
3m	105 Pa	190 Pa	27	1950	67.5
6m	100 Pa	175 Pa	26.5	1900	67.5
12m	95 Pa	165 Pa	25.5	1840	66.5
18m	85 Pa	160 Pa	24	1730	65
24m	75 Pa	135 Pa	21.5	1550	65
30m	70 Pa	125 Pa	20	1440	64

NX Filter mounted on the floor with 0.5m legs.





Declaration of conformity

We, J. Plymoth AB, declare under our sole responsibility that the product lines **WF-Eco, MF-F9/HEPA, MF-Active Carbon, MF-HEPA/W3 18M2, MF-Eco/F9, MF-Eco/HEPA, MF-Filter-Tables, MF-Eco Filter-Tables, FK-Mesa Backdraft Filter-Tables, MKF Filter-Tables, Labbe, MF-Lab, MF-Eco Lab, CF Central Filters, Mobi-Oil, NX-Filters, Denta-Flex, Fica-Flex and VBF-Office** to which this declaration relates are in conformity with Directives 2006/42/EC, 2014/30/EU, 2011/65/EU and Standards EN 60204-1:2006, EN ISO 12100:2010, EN ISO 15012-1:2013, EN 61000-6-2:2005, EN 61000-6-3:2007, EN ISO 20607:2019.

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