Technical Data

NX-1000 without 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 recirculated into the premises. Keeps heating costs down.

Application.
NX-1000 for 1-2 machines.

Complete Unit without Fan
NX is a complete unit of powdercoated steel sheet with nailed glass-fiber filter cassette and HEPA 13 filter. Inlet from left or right with inlet flange with inside measurement of D.160 mm and cover for the not used inlet. Oil return pipe with 1 inch outside thread.

The NX-1000 oil mist filter without fan shall be connected to a separate fan or central extraction system. The outlet flange has an inside measurement of D.160 mm.

Accessories
As accessory you can get 0.5 m Extension Legs.150

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 without Fan. For Coolant and Oil Mist 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, outlet flange 160mm (inside measure), filter cassette 8m2 (8+8+8m2) of nailed glass-fiber, HEPA H13 filter 22m2 and 2 pcs pressure gauges (manometers). **Measurements: 1300x640x750mm.**	P-624
Extension Legs 0.5 m (4 pcs.) for NX-1000/2000/4000	P-322
Replacement Nailed Glass-Fiber Filter Cassette (8m^2 EU-5/9) Second from the bottom for NX-2000/6000 (NX-6000 3 pcs). **This cassette is the only needed for NX-1000.**	P-319
Replacement HEPA H13 Filter 22m^2 (99,95%) for NX-1000/2000/6000 (NX-6000 3 pcs).	P-264

Unit Description NX-1000 **without Fan.**

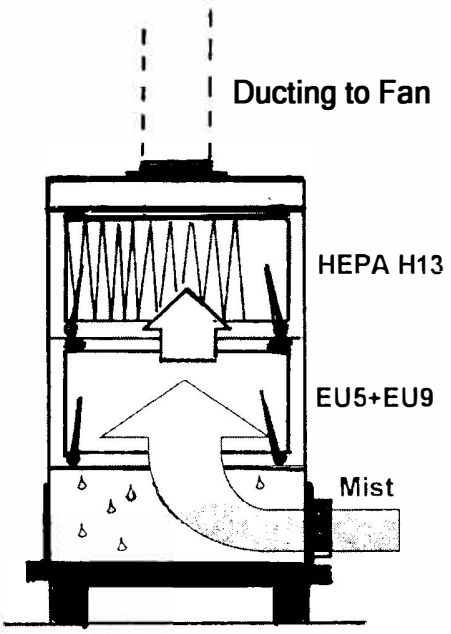
HEPA H13 Filter Box with Exenter Locks to press the Filter Box upwards. Door with 2 Pressure Gauges. One for HEPA Filter and one for Glass Fiber Filter.

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. One cover Lid.

Expansion Chamber.

Drainage Alternatively left or right. One cover Lid.



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.

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.

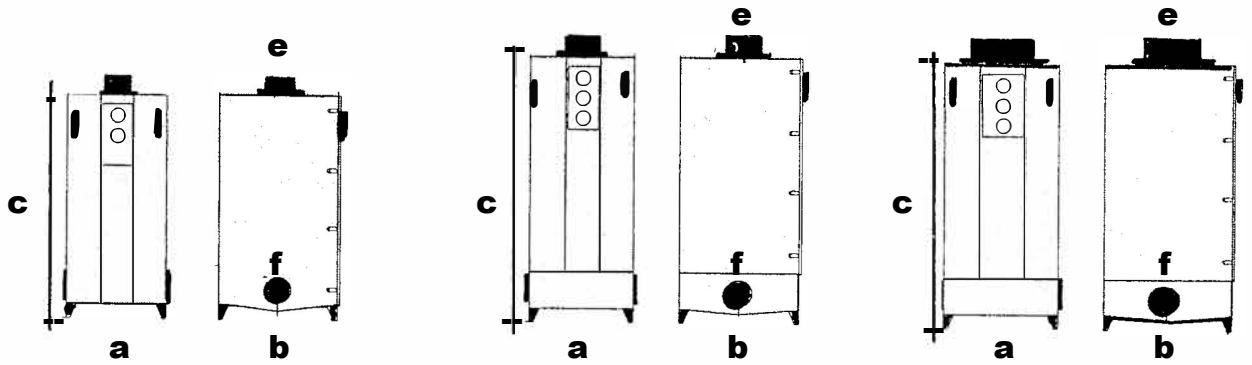
To get 0.5m/sec. air velocity in the opening of the machine, the following NX Filters are recommended:

Machin/Machines Opening size m2	Air Volume/hour	NX Filter
0.25m2	450m3/h	NX-400 or NX-600
0.5m2	900m3/h	NX-1000
0.75m2	1350m3/h	NX-1000 or NX-2000
1m2	1800m3/h	NX-2000
1.25m2	2250m3/h	NX-2000
1.5m2	2700m3/h	NX-4000
1.75m2	3150m3/h	NX-4000
2m2	3600m3/h	NX-4000 or NX-6000
2.25m2	4050m3/h	NX-4000 or NX-6000
2.5m2	4500m3/h	NX-6000
2.75m2	5000m3/h	NX-6000
3m2	5500m3/h	NX-6000
3.25m2	6000m3/h	NX-6000
3.5m2	6500m3/h	NX-8000
3.75m2	7000m3/h	NX-8000

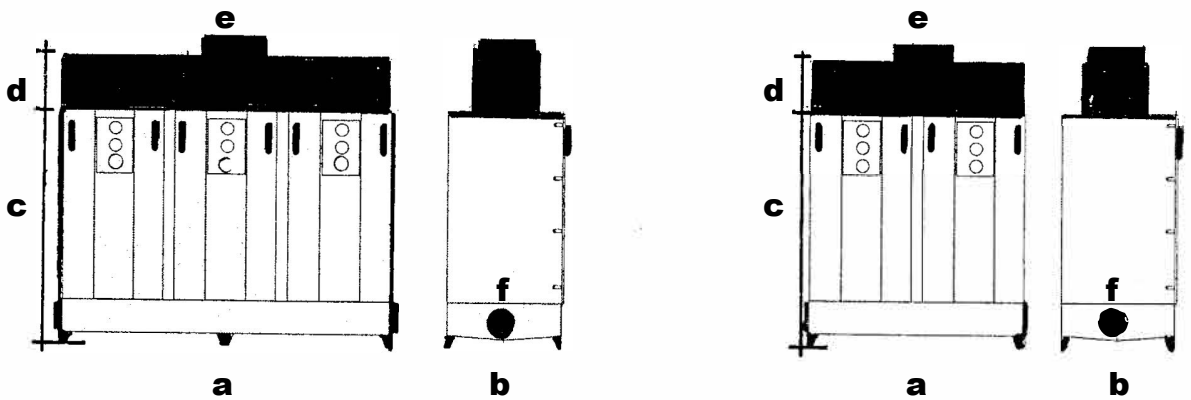
Always choose the next larger size if you are unsure and if there are a lot of fine particles in the mist.

If you need further advice don´t hesitate to contact our specialists on info@plymoth.com

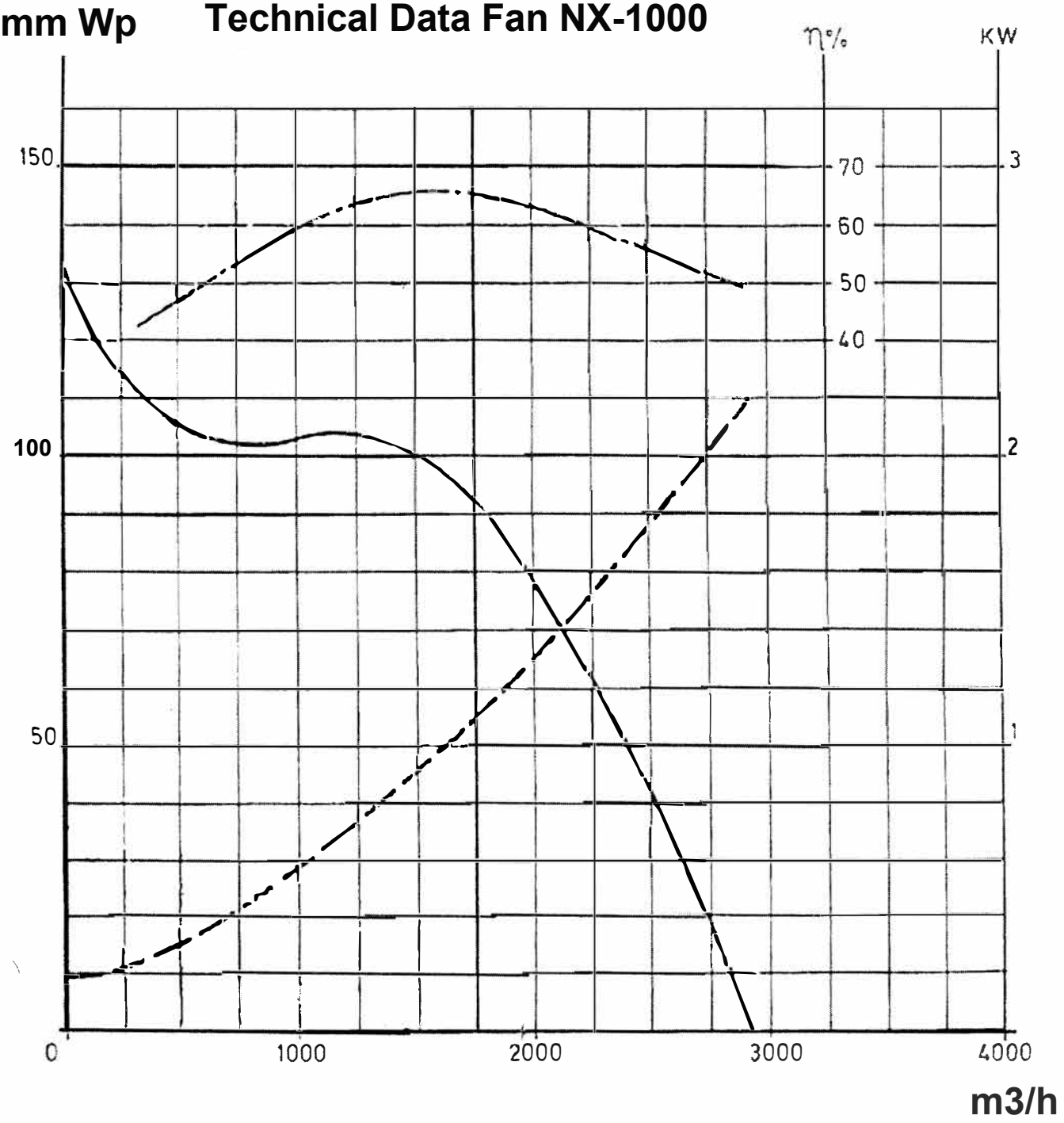
Measures NX 1000-8000 without Fan.



Product	a(width)mm	b(depth)mm	c(mm)	d(mm)	e	f	Weight
NX-1000	640	750	1300	------	d.160	d.160	134kg
NX-2000	640	750	1600	------	d.200	d.200	176kg
NX-4000	800	900	1600	------	d.315	d.315	248kg
NX-6000	2200	750	1600	500	d.400	d.400	522kg
NX-8000	1700	900	1600	500	d.400	d.400	496kg



Technical Data Fan NX-1000

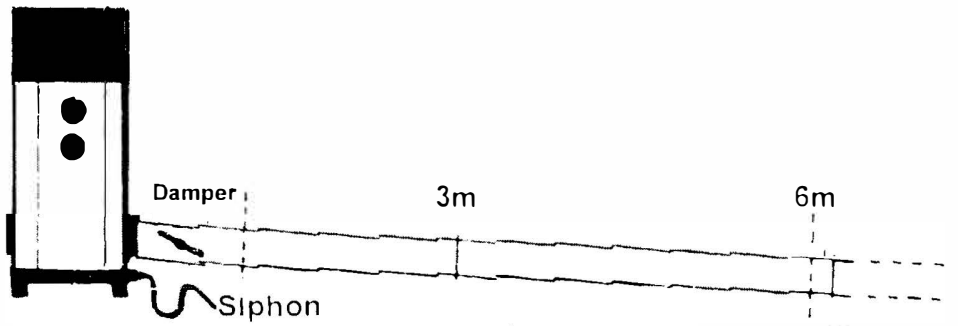


The above diagram shows the fan data for the fan used in "NX-1000 with built in fan".
Please see "Ducting NX-1000 with fan" to see which airflow it gives with different lengths of ducting.

Ducting NX-1000 with Fan.

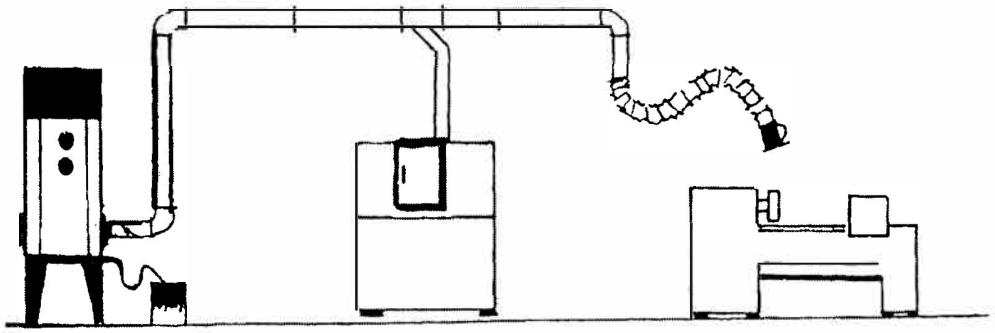
Pressure Drop is meassured over each Filter. Meter/Sec and Airvolume are meassured at the end of the ducting system.
Noice level in dB(A) is at a 2m distance from the NX unit.
The values bellow are meassured with Clean Filters and the Damper horisontal (Full open). The Air Velocity and Airvolume have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

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



Ducting	Pressure Drop HEPA	F5+F9	Initial at end of Duct m/sec	m3/h	dB(A)
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 61000-6-2005, EN 61000-6-3:2007, EN ISO 20607:2019.

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