

Technical Data

NX-6000/8000 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-6000/8000 oil mist filters are equipped with self-draining filter cassettes of nailed glass-fiber and HEPA H13 filters. 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 6000 is for 2-10 machines. NX 8000 is for 4-12 machines.

Complete Unit without Fan.

NX-6000/8000 is a complete unit of powder coated steel sheet with 3+3 nailed glass-fiber filter cassettes for NX-6000 and 2+2 for NX-4000. NX-6000 has 3xHEPA H13 Filters and NX-4000 2xHEPA H13 Filters.

Both units have Inlet from left or right with inlet flange with inside measure D.400 mm and cover for the not used inlet. Oil return pipe with 1 inch outside thread.

The NX filters without fan shall be connected to a separate fan or a central extraction system. The outlet flange has inside D.400mm.



NX-6000 without Fan

	Art.Nr.
<p>NX-6000 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 400mm inlet flange (inside measure) and cover plate for the not used inlet side, outlet flange 400mm (inside measure), 3 filter cassettes of nailed glass-fiber 10m² each and 3 which are 8m² each, 3 HEPA H13 filters 22m² each and 9 pcs pressure gauges(manometers). Measurements: 2200x2100x750mm.</p>	P-635
<p>NX-8000 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 400mm inlet flange (inside measure) and cover plate for the not used inlet side, outlet flange 400mm (inside measure), 2 filter cassettes of nailed glass-fiber 21m² each and 2 which are 15m² each, 2 HEPA H13 filters 44 m² each and 6 pcs pressure gauges(manometers). Measurements: 1700x2100x900mm.</p>	P-639
<p>Replacement Nailed Glass-Fiber Filter Cassette (10m² EU-5). First from the bottom for NX-2000/6000 (NX-6000 3 pcs).</p>	P-318
<p>Replacement Nailed Glass-Fiber Filter Cassette (8m² EU-5/9). Second from the bottom for NX-2000/6000 (NX-6000 3 pcs). This cassette is used as the only cassette for NX-1000.</p>	P-319
<p>Replacement Nailed Glass-Fiber Filter Cassette (21 m² EU-5). First from the bottom for NX-4000/8000 (NX-8000 2 pcs).</p>	P-320
<p>Replacement Nailed Glass-Fiber Filter Cassette (15 m² EU-9). Second from the bottom for NX-4000/8000 (NX-8000 2pcs).</p>	P-321
<p>Replacement HEPA H13 Filter 22m² (99,95%) for NX-1000/2000/6000 (NX-6000 3 pcs).</p>	P-264
<p>Replacement HEPA H13 Filter 44m² (99,95%) for NX- 4000/8000 (NX-8000 2 pcs).</p>	P-266

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:

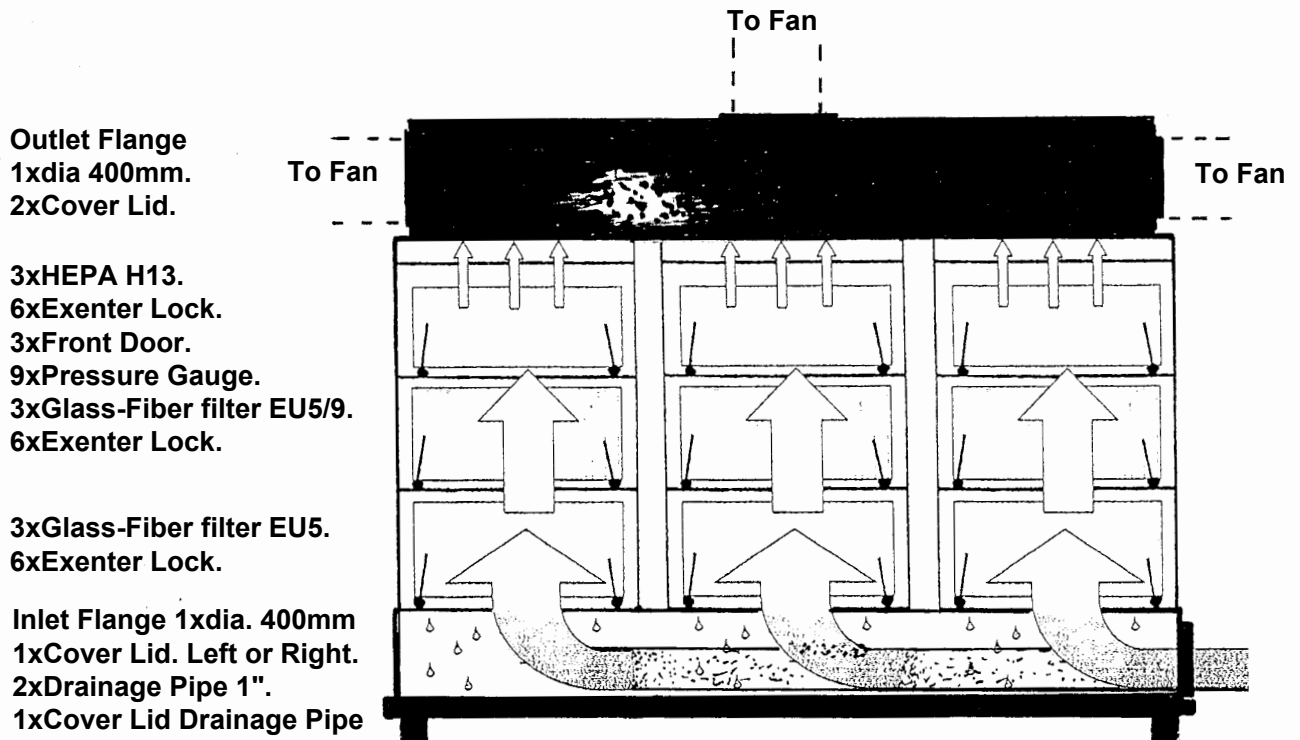
Machin/Machines Opening size m2	Air Volume/hour	NX Filter
0.25m2	450m3/h	NX-400 or NX-600
0.5m2	900m3/h	NX-1000
0.75m2	1350m3/h	NX-1000 or NX-2000
1m2	1800m3/h	NX-2000
1.25m2	2250m3/h	NX-2000
1.5m2	2700m3/h	NX-4000
1.75m2	3150m3/h	NX-4000
2m2	3600m3/h	NX-4000 or NX-6000
2.25m2	4050m3/h	NX-4000 or NX-6000
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

Unit Discription.

NX-6000 without Fan is 3xNX-2000 without Fan. They are connected together on one Inlet Chamber and one Outlet Chamber.



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 accessibility 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 equipped 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.

Unit Discription.

NX-8000 without Fan is 2xNX-4000 without Fan. They are connected together on one Inlet Chamber and one Outlet Chamber.

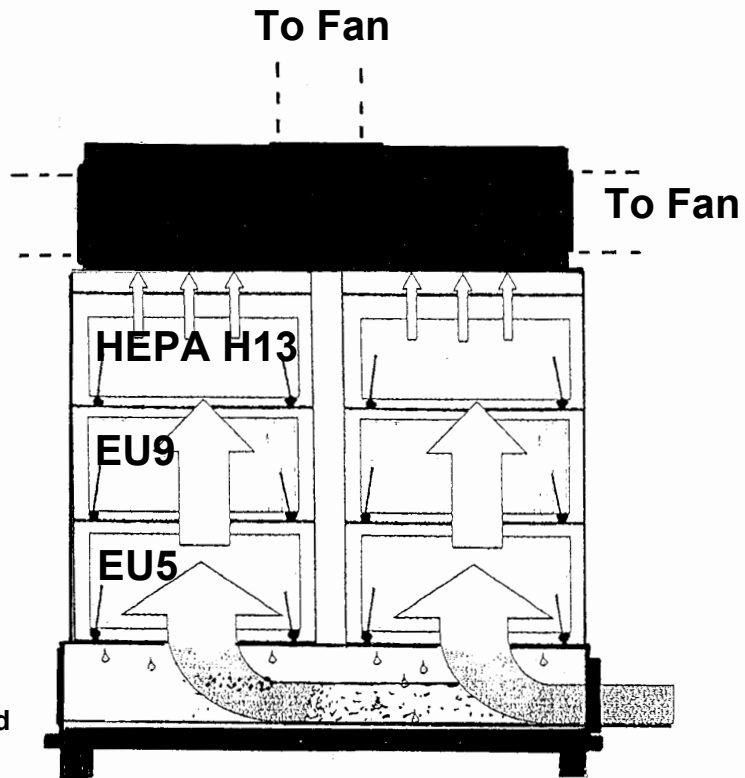
**Outlet Flange 1xdia. 400mm.
2xCover Lid.**

**2xHEPA H13.
4xExenter Lock.**

**2xFront Door.
6xPressure Gauge.
2xGlass-Fiber Filter EU9.
4xExenter Lock.**

**2xGlass-Fiber Filter EU5.
4xExenter Lock**

**Inlet Flange 1xdia. 400mm.
1xCover Lid.
2xDrainage Pipe 1" Outside Thread
1xCover Lid Drainage Pipe.**



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

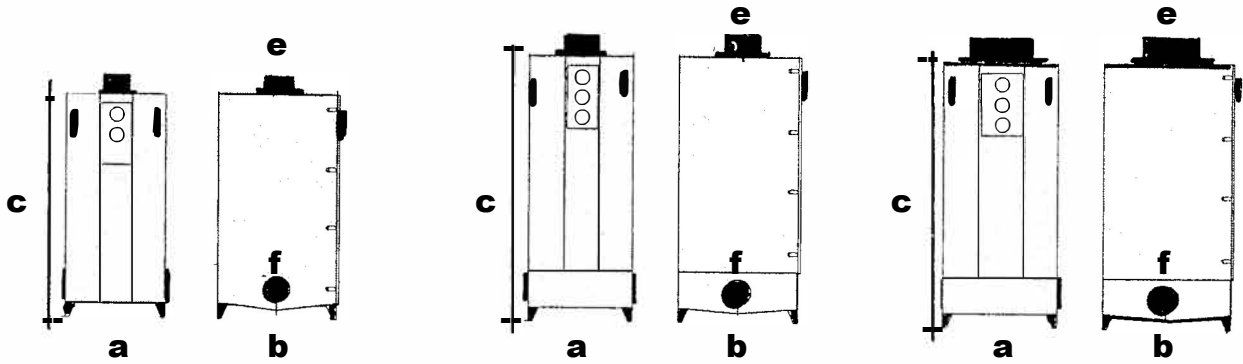
The Machine/Machines normally have a connection tube to be used for the mist extraction.

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.

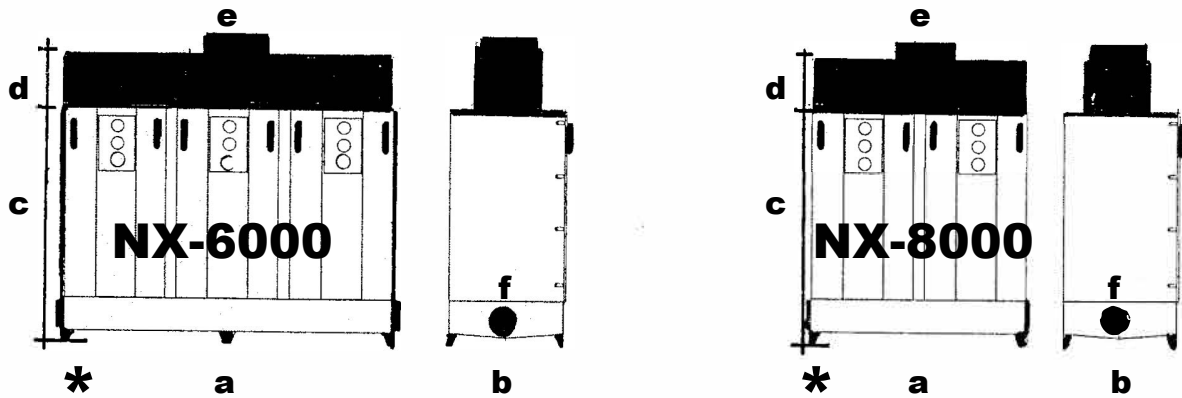
The 1" draining pipes for the filtered liquid are at the bottom of the unit, on the left and on the right side. Only one drainage pipe must be used. The other side shall be covered with the included lid.

The ducting system from the machine/machines shall be equipped 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.

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

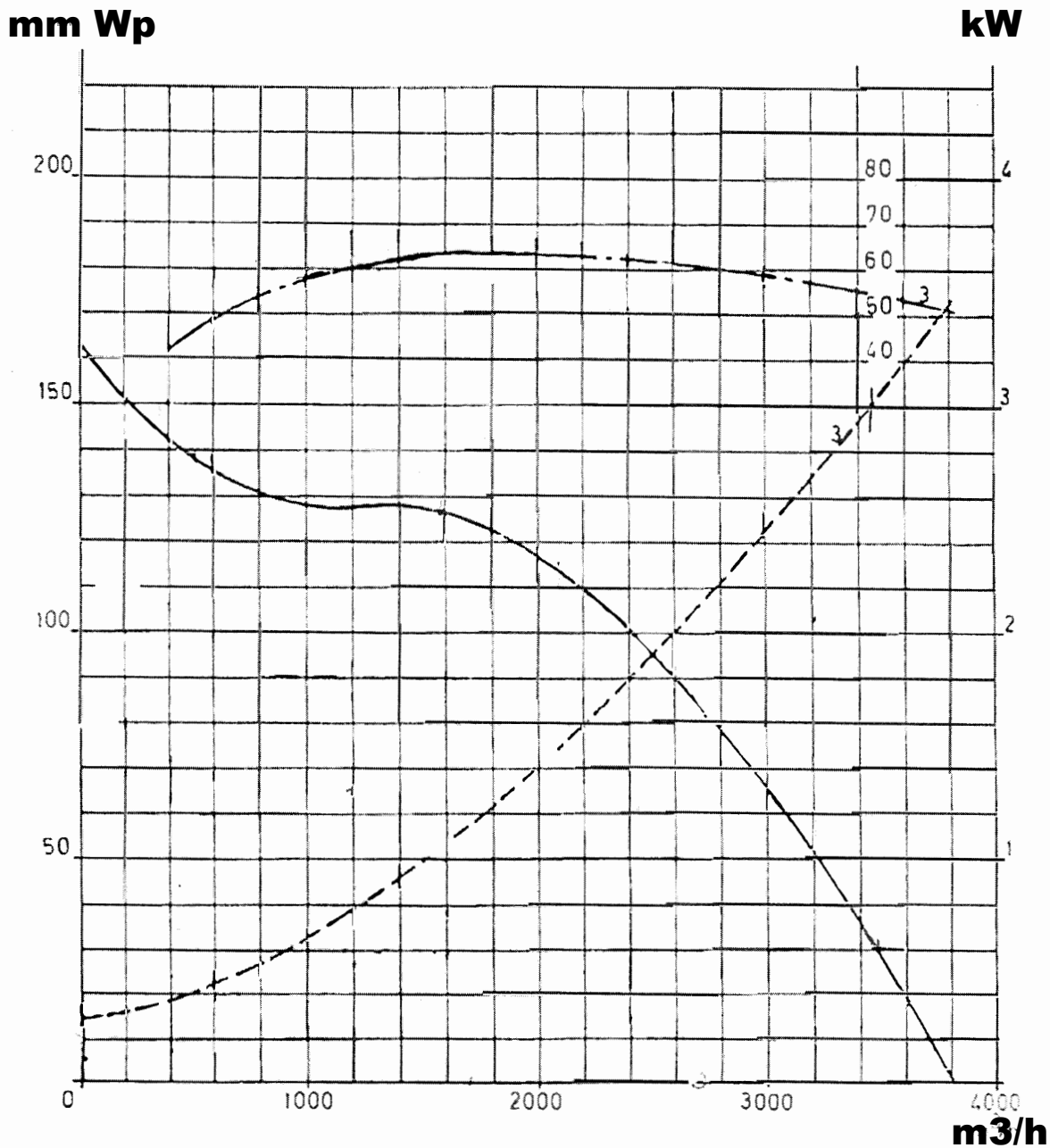


Technical Data Fan NX-2000.

The diagram below shows the Fan Data for the fan used in "NX-2000 with Fan".

Please see "Ducting NX-2000 with Fan" on next page. It shows which Airvolume you get with different length of Ducting

It is advisable to choose a fan with somewhat higher curves than the one below, when the fan is separately mounted.



NX-6000 without Fan is 3xNX-2000, with Inlet and Outlet together. Dia. 400mm Ducting has an area of ca.3xd.160mm which will give approx. the same values as below. Choose a Fan which has somewhat higher curve and 3 times higher airflow for separate mounting.

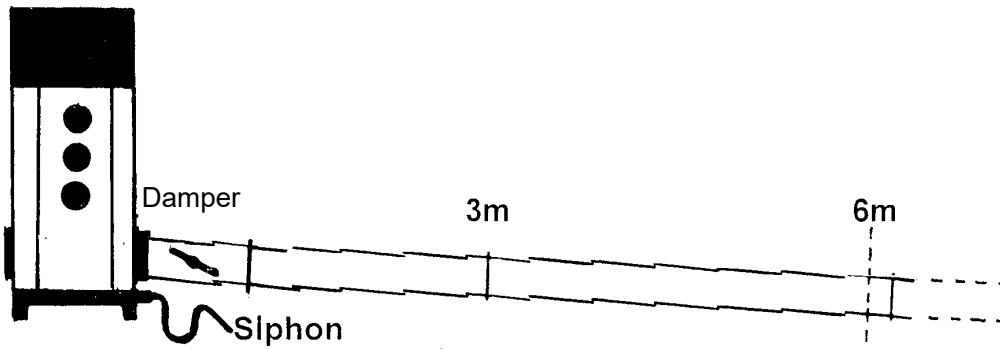
Pressure Drop is measured over each Filter. Meter/Sec and Airvolume are measured at the end of the ducting system.

Noice level in dB(A) is at a 2m distance from the NX unit.

The values bellow are measured with Clean Filters and the Damper horisontal (Full open). The Air Velocity and Airvolume have been measured at the end of a ducting system without bends.

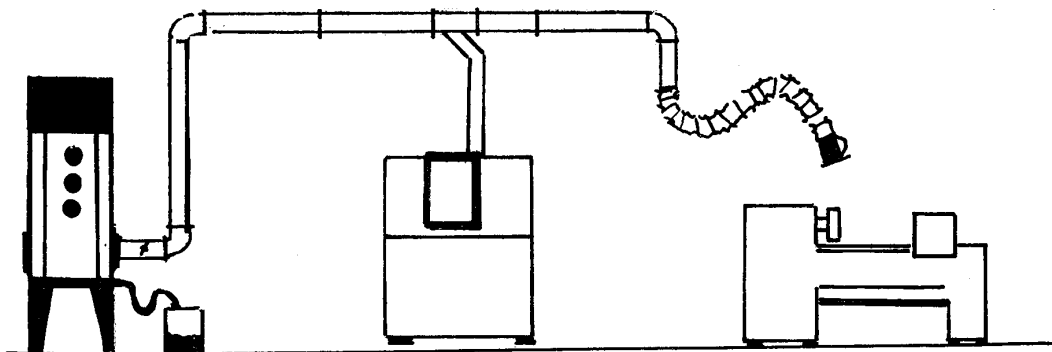
Depending on number of bends the figures become lower. Over time the measured values will become lower.

NX-2000 mounted high. (Wall, Stanchion or Ceiling)



Dia. 160mm Ducting	Pressure Drop over			m3/h	dB(A)
	HEPA	F5+F9	F5		
3m	165 Pa	270 Pa	260 Pa	2300	68
6m	160 Pa	260 Pa	250 Pa	2150	68
12m	155 Pa	240 Pa	235 Pa	2100	68
18m	150 Pa	230 Pa	220 Pa	1950	68
24m	145 Pa	220Pa	200 Pa	1800	68
30m	130 Pa	205 Pa	180 Pa	1750	68

NX Filter mounted on the floor with 0.5m Legs.



NX-8000 without Fan is 2xNX-4000, with Inlet and Outlet together.

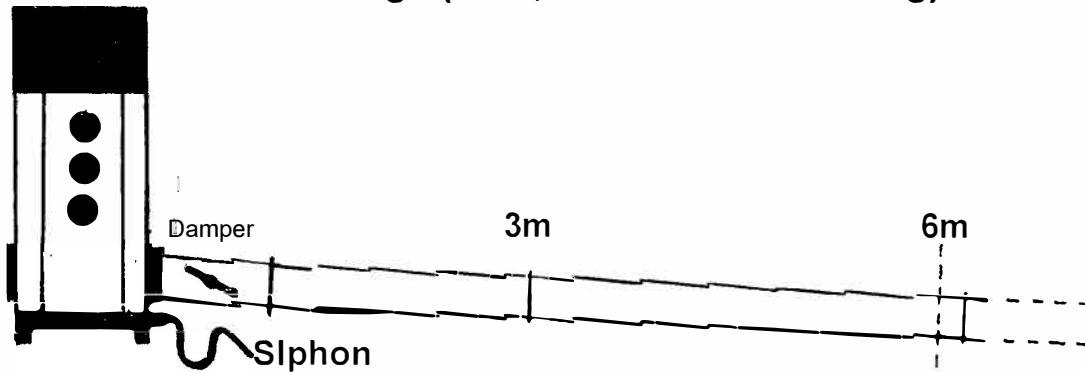
Dia. 400mm Ducting has an area of ca. 2xdia. 200mm which will give aprox. the same values as below. Choose a Fan which has somewhat higher curve and 2 times higher airvolume , for separate mounting.

Pressure Drop is measured over each Filter. Airvolume is measured at the end of the ducting system.

Noice level in dB(A) is at a 2m distance from the NX unit.

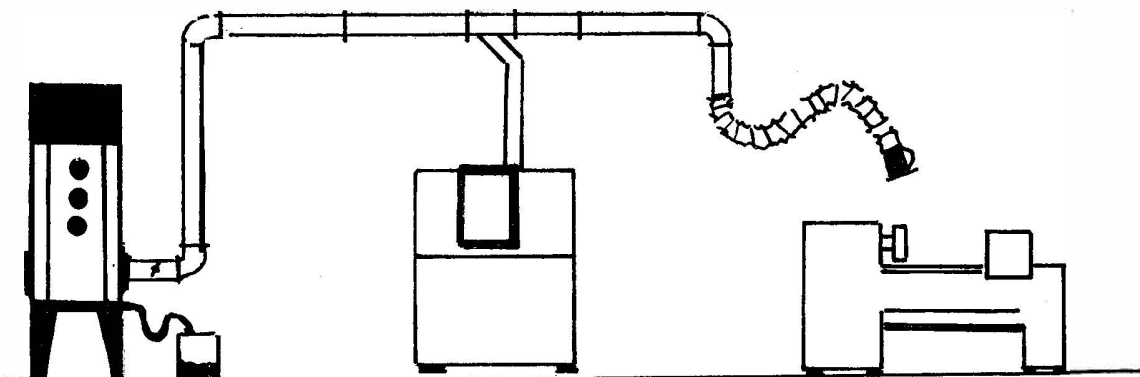
The values bellow are measured with Clean Filters and the Damper horizontal (Full open). The Airvolume has been measured at the end of a ducting system without bends. Depending on number of bends the figures become lower. Over time the measured values will become lower.

NX-4000 mounted high (Wall, Stanchion or Ceiling).



Duct	Pressure Drop over Filters			m3/h	dB(A)
	HEPA	F5+F9	F5		
3m(d. 250mm)	235 Pa	400 Pa	215 Pa	4650	75
6m(d. 200mm)	220 Pa	370 Pa	200 Pa	4350	75
12m -"-	215 Pa	345 Pa	190 Pa	4200	75
18m -"-	210 Pa	335 Pa	190 Pa	4100	75

NX Filter mounted on the floor with 0.5 m 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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2023-01-01