

Bench Top Extraction Systems



The Nederman Bench Top Systems can be used in every type of environment, ranging from assembly stations, where solder fumes are extracted, to laboratories, where protection against highly corrosive or noxious gases is vital.

A Bench Top Extraction system is available as a complete ready-to-use kit or as separate parts to built up a customized extraction system.

- Many mounting alternatives: standing, hanging or attached to the wall
- Flexible in all directions and simple to position
- Low pressure drop and low noise level

Application areas

Electronics industries/soldering

Museums/conservation

Laboratories

Dental laboratories

Operating rooms

Goldsmiths/Jewellers

School chemistry laboratories

Manicurists/pedicurists

Prostheses production

Mechanical workshops

Selection Guide



Type	FX32	FX50	FX75	FX100
Description	Flexible plastic hose without joints	Lightweight, anodized aluminium arms with adjustable plastic friction joints		
Applications	A cost-effective arm for small workplaces and light applications, for extraction of soldering fumes and light particles	For extraction of light fumes, dust etc. Capacity up to 110 m ³ /h (65 cfm)	For use where a higher capacity is needed - up to 240 m ³ /h (141 cfm)	For industrial, large scale laboratories, workshops etc, where a high extraction capacity is requested - up to 500 m ³ /h (294 cfm). Extracts dust, larger particles and heavy fumes (welding, soldering).
Arm Ø, mm (in.)	32 (1 1/4)	50 (2)	75 (3)	100 (4)
ORIGINAL For normal use	x	x	x	x
ESD/EX For electronic applications and in environments with risk of explosion	x (only ESD)	x	x	x
CHEM For chemical applications with corrosive gases.			x	x

Product availability may differ by country

Bench Top Extraction Kits



The Bench Top extraction kits include FX Original extraction arm(s) with hood or nozzle, N3 fan with speed control and Standard filter (particle, HEPA and gas), hose(s), connection details, and table bracket(s).



Kit	Description arm(s)	Max. airflow, m ³ /h (cfm)	V	Frequency, Hz	Power, W (Hp)	Arm Ø, mm (in.)	Arm length, mm (in.)	Hose Ø, mm (in.)	Hose length, m (ft.)	Temperature extracted air, °C (°F)	Weight complete kit, kg (lb.)	Part no.
500	1 x FX32	45 (26)	120	50/60	170 (0.2)	32 (1 1/4)	850 (33)	45 (1 3/4)	3.0 (10)	-10 to +70 (14 to 158)	11 (25)	70510834
1000	2 x FX32	42 (25)	120	50/60	170 (0.2)	32 (1 1/4)	850 (33)	45 (1 3/4)	3.0 (10)	-10 to +70 (14 to 158)	13 (29)	70511334
1500	3 x FX32	38 (22)	120	50/60	170 (0.2)	32 (1 1/4)	850 (33)	45 (1 3/4)	3.0 (10)	-10 to +70 (14 to 158)	15 (33)	70511834
2000	1 x FX50	100 (60)	120	50/60	170 (0.2)	50 (2)	1100 (43)	75 (3)	3.0 (10)	-10 to +70 (14 to 158)	14 (31)	70505244
2500	2 x FX50	75 (44)	120	50/60	170 (0.2)	50 (2)	1100 (43)	75 (3)	3.0 (10)	-10 to +70 (14 to 158)	17 (38)	70505844
3000	1 x FX75	150 (88)	120	50/60	170 (0.2)	75 (3)	1100 (43)	100 (4)	3.0 (10)	-10 to +70 (14 to 158)	15 (33)	70506444



Extraction Kit 500

1 x arm, Ø 32 mm (1 1/4 inch)
1 x dome hood 1/2



Extraction Kit 2000

1 x arm, Ø 50 mm (2 inch)
1 x combination hood



Extraction Kit 1000

2 x arm, Ø 32 mm (1 1/4 inch)
2 x dome hood 1/2



Extraction Kit 2500

2 x arm, Ø 50 mm (2 inch)
2 x mini hood



Extraction Kit 1500

3 x arm, Ø 32 mm (1 1/4 inch)
3 x dome hood 1/2



Extraction Kit 3000

1 x arm, Ø 75 mm (3 inch)
1 x mini hood

Product availability may differ by country

Bench Top Extraction Arms and Accessories



A customised Bench Top Extraction System consists of an extraction arm (Original, ESD/EX or CHEM) always with a mini hood (universal interface for other hoods), completed with different accessories such as brackets, extension arm, reducers, hoses etc. These parts are ordered separately. A Bench Top Extraction system can be connected to a single fan/filter N3, or to a central fan/filter system.

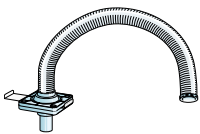
Arms

Connection direction*	Arm Ø, mm (in.)	Arm length, mm (in.)	Recommended airflow, m³/h (cfm)	Temperature of extracted air, °C (°F)	ORIGINAL Part no.	ESD/EX Part no.	CHEM Part no.
Up/down ▲▼	32 (1¼)	850 (33)	20-60 (12-35)	-	70502834	70502934	-
Up/down ▲▼	50 (2)	700 (28)	50-110 (30-65)	-10 to +70 (14 to 158)	70510144	70530144	-
Down ▼	50 (2)	1100 (43)	50-110 (30-65)	-10 to +70 (14 to 158)	70510244	70530244	-
Down ▼	50 (2)	1500 (60)	50-110 (30-65)	-10 to +70 (14 to 158)	70510444	70530444	-
Up ▲	50 (2)	1100 (43)	50-110 (30-65)	-10 to +70 (14 to 158)	70510344	70530344	-
Up ▲	50 (2)	1500 (60)	50-110 (30-65)	-10 to +70 (14 to 158)	70510544	70530544	-
Down ▼	75 (3)	1100 (43)	110-240 (65-140)	-10 to +70 (14 to 158)	70540144	70560144	70550144
Down ▼	75 (3)	1500 (60)	110-240 (65-140)	-10 to +70 (14 to 158)	70540344	70560344	70550344
Up ▲	75 (3)	1100 (43)	110-240 (65-140)	-10 to +70 (14 to 158)	70540244	70560244	70550244
Up ▲	75 (3)	1500 (60)	110-240 (65-140)	-10 to +70 (14 to 158)	70540444	70560444	70550444
Up/down ▲▼	100 (4)	1200 (48)	200-450 (118-264)	-10 to +70 (14 to 158)	70570144	70590144	70580144
Down ▼	100 (4)	1800 (72)	200-450 (118-264)	-10 to +70 (14 to 158)	70570244	70590244	70580244
Up ▲	100 (4)	1800 (72)	200-450 (118-264)	-10 to +70 (14 to 158)	70570344	70590344	70580344
Up ▲	100 (4)	2400 (96)	200-450 (118-264)	-10 to +70 (14 to 158)	70570544	70590544	70580544

* Note: Different spring mechanisms are fitted depending on connection direction

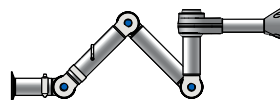
Arm 32

Connection up/down

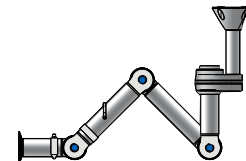


Arm 50/75/100

Connection up ▲

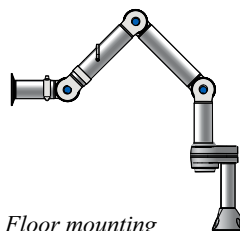


Wall mounting

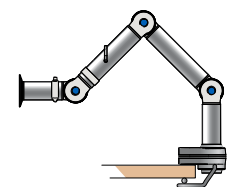


Ceiling mounting

Connection down ▼



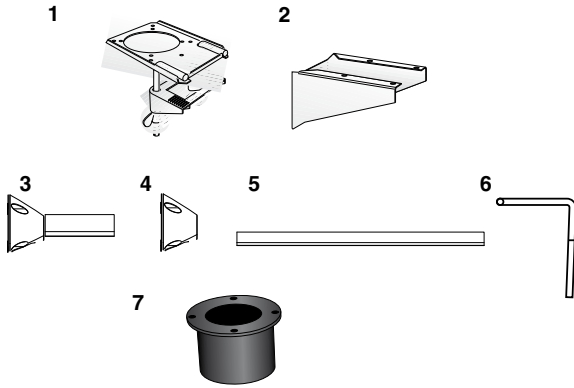
Floor mounting



Bench mounting

Product availability may differ by country

Accessories

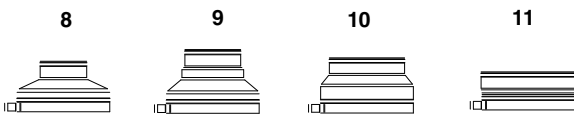


Brackets

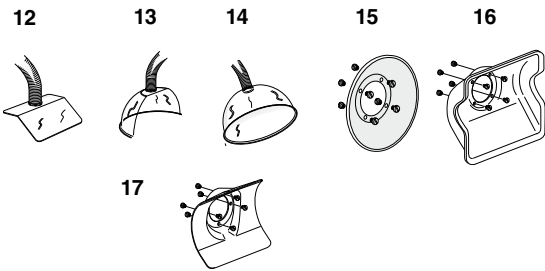
	Description	Fits Arm model	Size, mm (in.)	Part no.
1	Table bracket	32		70371761
2	Wall bracket	32		70371760
3	Bracket complete	50 / 75 / 100	L=250 (1)	70501144
4	Bracket	50 / 75 / 100		70501244
5	Extension profile	50 / 75 / 100	L=1100 (43)	70501344
	Extension profile	50 / 75 / 100	L=2200 (86)	70374600
6	Table bracket	50 / 75 / 100		70501444
	Cover ring, ceiling	50 / 75	Ø 130 (5.1) T=3 (1/8)*	70502644
7	Support collar	50 / 75 / 100		70502744

* T=thickness

Reducers

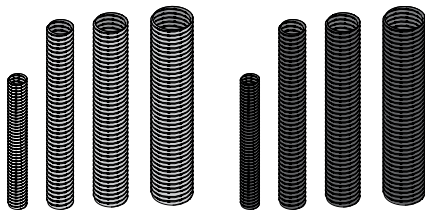


	Description	Fits Arm model	Ø, mm (in.)	Part no.
8	Reducer	50 / 75 / 100	63 (2.5)	70500644
9	Reducer	50 / 75 / 100	75-80 (3-3.15)	70500744
10	Reducer	50 / 75 / 100	100 (4)	70500844
11	Reducer	50 / 75 / 100	125 (5)	70500944



Hoods

	Description	Fits Arm model	Size, mm (in.)	ORIGINAL Part no.	ESD/EX Part no.	CHEM Part no.
12	Flange hood	32	150 x 160 (6 x 6 1/4)	70371525	-	-
13	Dome hood 1/2	32	260x120 (10 x 4 3/4)	70371756	70371807	-
14	Dome hood 1/1	32	Ø 260 (10 1/4)	70371757	70371808	-
15	Metal hood	50/75/100	Ø 280 (11)	70500444	70500544	70500444
16	Combination hood	50/75/100	380 x 460 (15 x 18)	70500144	70500244	70500344
17	Flange hood	50/75/100	260 x 335 (10 1/4 x 13)	70502844	70502944	70503044



Hoses

Hose Ø, mm (in.)	Length, mm (in.)	ORIGINAL		ESD/EX	
		Colour	Part no.	Colour	Part no.
32 (1 1/4)	1500 (59)	black	70400052	-	-
45 (1 3/4)	3000 (118)	white	70501644	black	70502044
75 (3)	3000 (118)	grey	70501544	black	70501944
100 (4)	3000 (118)	grey	70501744	black	70502144
125 (5)	5000 (197)	grey	70501844	black	70502244

Down Flow Grille FD 23

An extraction device designed to be integrated in the bench top surface. It is highly effective in capturing the heavy fumes from gluing, solvents and similar. Recommended to use together with fan N3 and filter.



Description	Dimension	Part no.
Extraction grilles made of stainless steel	Grille Ø 260 mm (10 1/4 inch), connection Ø 45 mm (1 3/4 inch)	70373527
Reduction 45-32 mm (1 3/4 - 1 1/4 inch)		70373605

Product availability may differ by country

N3 Fan with Filter



The unit consists of a separate filter cartridge and a N3 fan. It is designed for extraction and filtration of fumes and vapours emitted when soldering, gluing or working with solvents. For use in different combinations with the FX arms or the Down Flow Grille FD 23.

- Easy to install
- The Filter Cartridge Standard consists of particle, HEPA and gas filter
- The Filter Cartridge Gas is a pure carbon filter
- The filter cartridges are disposable and easy to change

Filters for Kit 500 – 3000	Filter Cartridge Standard Part no. 70311427	Filter Cartridge Gas Part no. 70312427
Filtration degree at 0.3 µm DOP, %	99.97	–
Particle filter area, m ² (sq. ft.)	2.5 (27)	–
Gas adsorption media, kg (lb.)	1.5 (3.3)	4 (8.8)
Size, LxWxH, mm (inch)	388 x 288 x 285 (15 1/4 x 11 1/4 x 11 1/4)	388 x 288 x 285 (15 1/4 x 11 1/4 x 11 1/4)
Weight, kg (lb.)	4.8 (10.6)	9.8 (21.6)
Fan with speed control	Part no. 70800334	
Power, kW (Hp)	0.17 (0.2)	
Airflow, m ³ /h (cfm)	300 (176)	
Voltage, V	120	
Frequency, Hz	50/60	
Phase	1	
Connection Ø, mm (inch)	125 (5)	
Size, LxWxH, mm (inch)	320 x 140 x 270 (12 1/2 x 5 1/2 x 11)	
Weight, kg (lb.)	4.6 (10.1)	
Complete unit Fan/Filter	with Filter Cartridge Standard	with Filter Cartridge Gas
Noise level, dB(A)	60	60
Height, mm (inch)	555 (22)	555 (22)
Weight, kg (lb.)	8.4 (18.5)	13.4 (29.6)

Accessories	Part no.
Silencer/ESD Box, for Bench Top Kit 500-3000	70311429
Adapter for connecting two N3 filter cartridges	70332904

Product availability may differ by country