After Filter MK II

Manual P/N 768 634 A
– English –

Keep for Future Reference

NORDSON (UK) LTD. ● STOCKPORT

CE

Order number
P/N = Order number for Nordson products

Declaration of Conformity
98/37/EC
73/23/EEC

We,

Nordson (U.K.) Limited

of

Ashurst Drive, Cheadle Heath, Stockport, Cheshire, SK3 0RY, United Kingdom

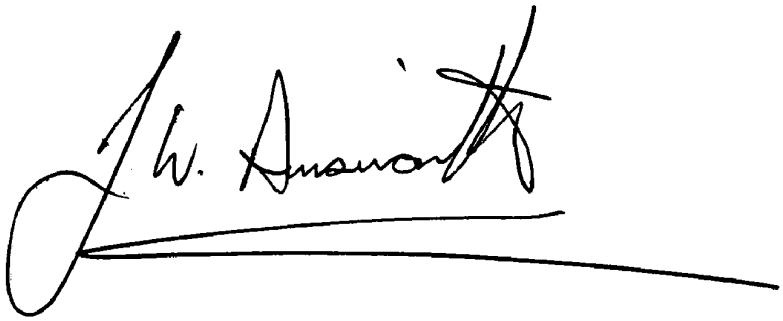
declare that under our sole responsibility for supply/manufacture of the product(s)

Product Name	Afterfilter Mk II
Model Number(s)	765949,765950,765951,769952,765953,765954,765957
Product Options	All

to which this declaration relates, is in conformity with the following standards and other normative documents

Safety	BS EN 60204–1:1993 “Safety of Machinery – Electrical equipment of machines” EN 60335:Part 1:1988 “Safety of household and similar electrical appliances” BS EN 292:1991 “Safety of machinery – Basic concepts, general principles for design”

following the provisions of 98/37/EC and 73/23/EEC Directives



Jim Ainsworth
General Manager

Nordson (U.K.) Ltd., 14th November 2000

NB ref EN45014 (BS7514)

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Congratulations on the Purchase of Your Nordson Product

Nordson equipment is engineered and manufactured in accordance with strict specifications, using high quality components and state–of–the–art technologies that assure reliable, long–term performance. Your product was thoroughly tested for proper operation prior to shipment.

Before unpacking and installing your new equipment, please read this manual. It is your guide to safe installation, productive operation and effective maintenance. We recommend that you keep the manual available for future reference.

Your Safety is Important to Nordson

Carefully read the *Safety* section. Your product is designed for safe operation when used according to the published instructions. Potential hazards exist when operating instructions are not followed.

Manufacturer of Equipment

Nordson (U.K.) Ltd.
Ashurst Drive
Cheadle Heath
Stockport
England
SK3 0RY

Telephone: 0044 (0) 161–495–4200
Fax: 0044 (0) 161–428–6716

For a list of local Nordson organisations, see *Nordson International*.

Nordson International

Europe

Country		Phone	Fax
Austria		43-1-707 5521	43-1-707 5517
Belgium		31-13-511 8700	31-13-511 3995
Czech Republic		4205-4159 2411	4205-4124 4971
Denmark	*Hot Melt*	45-43-66 0123	45-43-64 1101
	Finishing	45-43-66 1133	45-43-66 1123
Finland		358-9-530 8080	358-9-530 80850
France		33-1-6412 1400	33-1-6412 1401
Germany	*Erkrath*	49-211-92050	49-211-254 658
	Lüneburg	49-4131-8940	49-4131-894 149
	Düsseldorf - Nordson UV	49-211-3613 169	49-211-3613 527
Italy		39-02-904 691	39-02-9078 2485
Netherlands		31-13-511 8700	31-13-511 3995
Norway	*Hot Melt*	47-23 03 6160	47-22 68 3636
	Finishing	47-22-65 6100	47-22-65 8858
Poland		48-22-836 4495	48-22-836 7042
Portugal		351-22-961 9400	351-22-961 9409
Russia		7-812-11 86 263	7-812-11 86 263
Slovak Republic		4205-4159 2411	4205-4124 4971
Spain		34-96-313 2090	34-96-313 2244
Sweden	*Hot Melt*	46-40-680 1700	46-40-932 882
	Finishing	46 (0) 303 66950	46 (0) 303 66959
Switzerland		41-61-411 3838	41-61-411 3818
United Kingdom	*Hot Melt*	44-1844-26 4500	44-1844-21 5358
	Finishing	44-161-495 4200	44-161-428 6716
	Nordson UV	44-1753-558 000	44-1753-558 100

Distributors in Eastern & Southern Europe

DED, Germany	49-211-92050	49-211-254 658

Outside Europe / Hors d'Europe / Fuera de Europa

- For your nearest Nordson office outside Europe, contact the Nordson offices below for detailed information.
- Pour toutes informations sur représentations de Nordson dans votre pays, veuillez contacter l'un de bureaux ci-dessous.
- Para obtener la dirección de la oficina correspondiente, por favor diríjase a unas de las oficinas principales que siguen abajo.

Contact Nordson		Phone	Fax
Africa / Middle East			
DED, Germany		49-211-92050	49-211-254 658
Asia / Australia / Latin America			
Pacific South Division, USA		1-440-988-9411	1-440-985-3710
Japan			
Japan		81-3-5762 2700	81-3-5762 2701
North America			
Canada		1-905-475 6730	1-905-475 8821
USA	*Hot Melt*	1-770-497 3400	1-770-497 3500
	Finishing	1-440-988 9411	1-440-985 1417
	Nordson UV	1-440-985 4592	1-440-985 4593

Section 1

Safety

Section 1
Safety

1. Introduction

Read and follow these safety instructions. Task and equipment specific warnings, cautions, and instructions are included in equipment documentation where appropriate.

Make sure all equipment documentation, including these instructions, is accessible to all persons operating or servicing equipment.

2. Qualified Personnel

Equipment owners are responsible for making sure that Nordson equipment is installed, operated, and serviced by qualified personnel. Qualified personnel are those employees or contractors who are trained to safely perform their assigned tasks. They are familiar with all relevant safety rules and regulations and are physically capable of performing their assigned tasks.

3. Intended Use

Use of Nordson equipment in ways other than those described in the documentation supplied with the equipment may result in injury to persons or damage to property.

Some examples of unintended use of equipment include

- using incompatible materials
- making unauthorized modifications
- removing or bypassing safety guards or interlocks
- using incompatible or damaged parts
- using unapproved auxiliary equipment
- operating equipment in excess of maximum ratings

4. Regulations and Approvals

Make sure all equipment is rated and approved for the environment in which it is used. Any approvals obtained for Nordson equipment will be voided if instructions for installation, operation, and service are not followed.

5. Personal Safety

To prevent injury follow these instructions.

- Do not operate or service equipment unless you are qualified.
- Do not operate equipment unless safety guards, doors, or covers are intact and automatic interlocks are operating properly. Do not bypass or disarm any safety devices.
- Keep clear of moving equipment. Before adjusting or servicing any moving equipment, shut off the power supply and wait until the equipment comes to a complete stop. Lock out power and secure the equipment to prevent unexpected movement.
- Relieve (bleed off) hydraulic and pneumatic pressure before adjusting or servicing pressurized systems or components. Disconnect, lock out, and tag switches before servicing electrical equipment.
- While operating manual electrostatic spray guns, make sure you are grounded. Wear electrically conductive gloves or a grounding strap connected to the gun handle or other true earth ground. Do not wear or carry metallic objects such as jewelry or tools.
- If you receive even a slight electrical shock, shut down all electrical or electrostatic equipment immediately. Do not restart the equipment until the problem has been identified and corrected.
- Obtain and read Material Safety Data Sheets (MSDS) for all materials used. Follow the manufacturer's instructions for safe handling and use of materials, and use recommended personal protection devices.
- To prevent injury, be aware of less-obvious dangers in the workplace that often cannot be completely eliminated, such as hot surfaces, sharp edges, energized electrical circuits, and moving parts that cannot be enclosed or otherwise guarded for practical reasons.

6. Fire Safety

To avoid a fire or explosion, follow these instructions.

- Ground all conductive equipment in the spray area. Check equipment and workpiece grounding devices regularly. Resistance to ground must not exceed one mega–ohm.
- Shut down all equipment immediately if you notice static sparking or arcing. Do not restart the equipment until the cause has been identified and corrected.
- Do not smoke, weld, grind, or use open flames where flammable materials are being used or stored.
- Provide adequate ventilation to prevent dangerous concentrations of volatile materials or vapors. Refer to local codes or your material MSDS for guidance.
- Do not disconnect live electrical circuits while working with flammable materials. Shut off power at a disconnect switch first to prevent sparking.
- Know where emergency stop buttons, shutoff valves, and fire extinguishers are located. If a fire starts in a spray booth, immediately shut off the spray system and exhaust fans.
- Shut off electrostatic power and ground the charging system before adjusting, cleaning, or repairing electrostatic equipment.
- Clean, maintain, test, and repair equipment according to the instructions in your equipment documentation.
- Use only replacement parts that are designed for use with original equipment. Contact your Nordson representative for parts information and advice.

7. Action in the Event of a Malfunction

If a system or any equipment in a system malfunctions, shut off the system immediately and perform the following steps:

- Disconnect and lock out electrical power. Close pneumatic shutoff valves and relieve pressures.
- Identify the reason for the malfunction and correct it before restarting the equipment.

8. Disposal

Dispose of equipment and materials used in operation and servicing according to local codes.

Section 2

Description

Section 2
Description

1. Intended Use

Nordson utilises the same proven filter technology on all their after filters. The design ensures a constant air flow on a system due to the continuous sequential cleaning of the filter cartridge unlike conventional bag filters which are mechanically shaken when turned off.

2. Features

The systems are designed with a pre-separation (drop-out) section of generous proportions below the filter cartridge enhanced by a low velocity inlet. The filter cartridges are of a tried and tested media, each containing high performance filter media giving a separation efficiency of greater than 99.98% of particles of 4μ and over. This high efficiency enables the air to be safely returned to the workshop. Above the cartridges is the reverse jet cleaning equipment which utilises high speed, direct operating diaphragm valves, the shock wave so created dislodges the powder from the cartridge.

The fan set is located above the reverse jet cleaning equipment on most Afterfilters and is sized according to the system. An air volume control damper is provided, as is an air flow switch to provide a safety interlock to the powder application equipment. In this location the fan ensures the whole recovery system is under depression, thereby reducing the risk of powder loss. The fan, of course, is working in clean air to improve reliability and reduce maintenance.

Waste powder collects within the integral powder hoppers, from which is pumped to a waste bucket provided.

123456

Fig. 2-1

Section 3

Installation

Section 3
Installation

WARNING: Allow only qualified personnel to perform the following tasks. Observe and follow the safety instructions in this document and all other related documentation.

1. Transport

Transport the unit so as to avoid damage. Do not throw the unit. Use suitable packaging materials and sturdy cartons. See *Specifications* section for weight.

Protect the unit from exposure to humidity, dust and vibrations.

2. Unpacking

Carefully unpack the unit to avoid damaging it. Check for damage caused during transport.

Save packing materials for possible later use. Otherwise recycle or dispose of properly according to local regulations.

3. Setting up

Protect the unit from humidity, excessive dust and vibrations. For dimensions see *Specifications* section.

4. Removing

Switch off the mains supply, then disconnect all electrical connections from the unit.

5. Storage

Pack the unit in suitable packing materials and sturdy cartons. Protect from humidity, dust and large temperature fluctuations (condensation).

6. Disposal

Dispose of properly according to local regulations.

7. Setting up the unit

- Choose a level surface on which to install the after filter.
- Seal concrete floors with suitable material to avoid dust. Other floor surfaces should be of the type that is easy to keep clean.
- Position bottom section of afterfilter and level using jacking bolts
- Use acrylic (non silicon) seal on the flange joints.
- Using fork lift truck or crane, lift top section on to bottom section, positioning correctly over hole centering.
- Fit all fixings in flange and tighten.
- Fit manifold on pulse housing chamber and fasten in position.
- All electrical and pneumatic connections should be completed by a qualified Nordson representative.

Section 4

Operation

Section 4
Operation

WARNING: Allow only qualified personnel to perform the following tasks. Observe and follow the safety instructions in this document and all other related documentation.

1. Commissioning

To start up the system, follow the following steps in sequence.

1. Close the fan damper down to leave only a 25mm (1”) gap.
2. Isolate the system and check all electrical connections.
3. Check motor overload is set at, or preferably below, the maximum current rating of the motor.
4. Switch off the fan breaker and check operation of the contactor having re–connected the power to the system.
5. Switch on the fan breaker and check the fan rotation by rapidly turning the fan on and then off, rotation can be observed on the fan motor cooling fan.
6. Start the fan again and set the air volume control damper to give the booth opening designed face velocity (Typically 0.5 – 0.7m3/sec).
7. Check the operation of the air flow switch. This is normally used to interlock the application equipment supply and should be on only when the fan is running if the air flow switch functions correctly.
8. Open the compressed air isolation valve and check for air leaks, remedy as necessary, set the pulse pressure to 6.4 bar (95 p.s.i.).
9. Turn on the cartridge cleaning sequence switch (pulsing or pulse) and set the interval and duration of pulse to give at least 20 seconds between pulses to allow the pulse manifold to fully recharge, minimise the pulse duration sufficient to give a short, sharp bang, longer pulse durations only waste air. Turn off the cartridge sequencer.

1. Commissioning (contd.)

It may be necessary to open the air volume control damper to maintain the booth face velocity, as the filter cartridges gradually build a stable powder cake, after about 160–200 hours running this should be established.

The unit comes complete with an electrical control panel, which is manufactured to suit your specific size of afterfilter.

2. Daily Operation

Turn air supply to air reservoir on and adjust via air regulator to at least 4.5–6 bar (90–95 p.s.i.) (recommended).

Turn on fan assembly. At initial start–up, visually check fan rotation to ensure it is correct. (Anti–clockwise viewed at impellor intake).

Operating Checks

Monitor exhaust discharge, exhaust should remain visually clean, if a leak develops it will be first noticed as a puff of dust immediately after a cleaning pulse.

NOTE: On request, after filter units can be supplied at time of manufacture with filters situated in the acoustic hood, in which case, as is common with all other cartridge equipment, unless this final filter is removed, the above will not be observed.

Monitor pressure drop. Equilibrium dP is generally 750–1000 Kpa (3–4” w.g.)

Operating Adjustments

Compressed air is specified at a pressure of 90–95 p.s.i. The integral timer is pre–set to clean a segment of cartridge elements approximately every 20 seconds, depending on powder loading.

Section 5

Maintenance

Section 5
Maintenance

WARNING: Allow only qualified personnel to perform the following tasks. Observe and follow the safety instructions in this document and all other related documentation.

WARNING: Breathing in certain airborne dusts (including finishing powders) may be hazardous to health. Ask the powder manufacturer for a Material Safety Data Sheet (MSDS) for information. Use appropriate respiratory protection.

1. Daily Maintenance

- Every four– (4) hours, with the fan operation, clean the booth interior with a rubber squeegee, or other non–sparking cleaning device, pulling the powder into the recovery section of the booth. Pay particular attention to remove any powder building up on the vibrator(s).
- Every four– (4) hours check the collector bin levels – if the bin is above half full, empty it.
- Every four– (4) hours or less check the feeder hopper for powder level. Before adding powder use the vacuum cleaner to prevent powder dust from getting out into the room.
- Every four– (4) hours check the powder pump and gun, clean according to the product manual.

2. Routine Maintenance

Fan Assembly

- Changes in vibration and noise levels are easily identified as an indication to possible problems.
- Current readings taken at regular intervals over the equipment lifetime forms a reliable indicator and record of its condition and performance.
- A fan has inherent vibration; the wiring of ALL connections must be checked for integrity and tightness once a year.

Seals

- Any sign of leakage of powder around a seal means either the seal is not sound or the covers are not properly fastened. Check weekly and any time traces of powder are noticed.

Explosion Relief

- Reliefs should be checked daily, make sure that they open freely and that all obstructions are removed.

Cartridges

- Record the airflow at regular intervals; thus charted, any degradation of system performance due to cartridge blocking will become immediately apparent.
- Signs of powder leakage may be due to the cartridge seal leaking. Tighten up the crank after ensuring seal integrity.
- Cartridges and final filters cannot be manually cleaned but must be replaced.
- On units with final filters, powder leakage may not be noticed, but if adequate records have been kept, the faults will be apparent.

Fluid Beds

- These will be damaged if they are stood on or allowed to become damp. They must be replaced; SMOOTH SIDE UP.

Transfer Pumps

- Within the pump is a venturi, which by the very nature of powder will wear. The diminishing efficiency will be noticed by the loss in returned powder. Remove pumps from the collectors. Remove the discharge hose and blow through with a safety compressed air gun. Disassemble the pump and clean all parts with an air gun and a soft clean cloth. Replace worn or damaged parts.
- For further information on servicing transfer pumps refer to the product manual.

Final Filters

- This is an added feature to protect against powder escaping to the immediate area in case of a cartridge leak.

Compressed Air

- Open the drop leg. Using a clean white cloth check for water, oil or other contaminates. Correct as necessary.

NOTE: The air drier, if fitted, should remain on at all times to prevent moisture from accumulating in the system components.

Grounding

- Continually check for grounding of parts to hangers. Clean/strip hangers regularly.

Electrical Safety

- The unit should be tested for electrical safety, at intervals of not more than 12 months, according to the Electricity at Work regulations 1989 (as revised) or similar for non–UK installations.

3. Cartridge Replacement

Nordson will be pleased to advise on action necessary in case of any mishap, fault or any other enquiry relating to the equipment.

WARNING: Ensure Personal Protective Equipment is worn while carrying out this procedure.

The following steps cover the removal of spent cartridge filters and their replacement with new filters.

WARNING: Ensure that all services are turned off and locked out after cleaning the booth.

WARNING: A powder laden cartridge filter can be heavy. It may be necessary for two persons to be available to remove the cartridge filter.

- Clean the booth base and walls to avoid unnecessary contact with the powder.
- Relieve all air pressure in the system. Turning off the air supply and operating the pulsing can do this. Or by releasing the pressure safety valve attached to the air manifold.
- Lock out and disconnect services to the booth.

UK Cartridge Replacement

- Each cartridge is held in place by a crank rod. Remove the cartridge by unscrewing the crank rod about 50mm. Lift the cartridge up and push the top of the crank rod towards the back of the booth. The top of the crank has a hooked end, which locates in the hanger. The action of lifting and pushing back releases the hook from its location.
- Inspect the cartridges for damage. Do not fit damaged cartridges.

NOTE: Do not use any cartridge filters other than those approved by Nordson. The use of the cartridges not specially designed to Nordson standards could seriously affect the operation and performance of your Nordson Afterfilter.

- Ensure before fitting cartridges that each cartridge has two crank halves, seal washer and earthing strip.
- Take the lower crank with the handle and with the handle at the bottom place on the crank the earthing strip.
- On top of the earthing strip fit the seal washer with the rubber face uppermost. Failure to do this will cause the cartridge not to seal and powder will leak past the cartridges.

USA Cartridge Replacement

- Each cartridge is held in place by a nut. Remove the cartridge by unscrewing the nut. Remove the cartridge through the access doors on the side.

- Inspect the cartridges for damage. Do not fit damaged cartridges.

NOTE: Do not use any cartridge filters other than those approved by Nordson. The use of the filters not specially designed to Nordson standards could seriously affect the operation and performance of your Nordson Afterfilter.

- Ensure before re–fitting cartridges that each cartridge has a rod, centre bracket, holding bracket and nut.

- Replace the cartridge as before. Do not overtighten. The seal should compress by half its thickness.

Section 6

Troubleshooting

Section 6
Troubleshooting

WARNING: Allow only qualified personnel to perform the following tasks. Observe and follow the safety instructions in this document and all other related documentation.

1. Important Hints for Troubleshooting

The following tables provide general information for the troubleshooting of basic problems. Sometimes more detailed information, circuit diagrams or measuring devices are also needed for troubleshooting.

It must be noted that a fault can occur for several reasons. It is advisable to check all possible causes for a given fault. Obvious causes of malfunction such as broken wires, missing fasteners etc., should be noted during visual inspections and corrected immediately

The Unit does not contain any user serviceable parts; approved parts available from Nordson must replace any parts that fail.

2. Common Faults

Problem	Possible Cause	Corrective Action	Refer to
Fan will not start.	Power off.	Switch on power.	
	Overload operated.	Re–set overload.	
	Breaker tripped.	Investigate cause.	
	Wiring fault.	Repair of replace.	
	Motor failure.	Investigate cause. Replace.	
	Contactor fault.	Repair or replace. Check push button wiring	

2. Common Faults (contd.)

Problem	Possible Cause	Corrective Action	Refer to
Loss of extract	Damper vibrated closed	Reset and lock	
	Cartridges not clean.	Run cleaning sequence for thirty (30) minutes.	
	Low pulse pressure	Set pressure at 6.4 bar (95 p.s.i.)	
	Cleaning valve fault.	Repair or replace.	
Powder escaping.	Door seal.	Tighten star knobs.	
	Cartridge leak.	Check Cartridge Mount Seal. Tighten or replace cartridge.	
		Check Cartridge for punctures. Replace if any damage found	
	Explosion relief panel not seated.	Check seal and catches. Replace seal or catches if defective.	
	Powder pump not on spigot.	Replace, but check O–ring condition and replace if necessary.	
	Powder hose leak.	Check and Replace hose and clip if necessary.	
Waste Bucket	Bucket faces not sealing.	Re–seat.	
Powder not transferred from hopper.	Transfer pumps not operating.	Check pump air supply.	
	Transfer pump venturi worn.	Replace venturi.	
	Hose fault.	Check hoses for leaks and blockages.	
	Fluidizing fails.	Check fluidizing air supply.	
	Powder pump not on spigot.	Replace, but check O–ring condition and replace if necessary.	
		Check conditions of fluid beds	

Section 7

Parts

Section 7
Parts

1. Parts

To order parts, call the Nordson Customer Service Center or your local Nordson representative. Use the parts list, and the accompanying illustration, to describe and locate parts correctly.

Using the Illustrated Parts List

Numbers in the Item column correspond to numbers that identify parts in illustrations following each parts list. The code NS (not shown) indicates that a listed part is not illustrated. A dash (—) is used when the part number applies to all parts in the illustration.

The number in the Part column is the Nordson Corporation part number. A series of dashes in this column (- - - - - -) means the part cannot be ordered separately.

The Description column gives the part name, as well as its dimensions and other characteristics when appropriate. Indentions show the relationships between assemblies, subassemblies, and parts.

Item	Part	Description	Quantity	Note
—	000 0000	Assembly	1	
1	000 000	• Subassembly	2	A
2	000 000	• • Part	1	

- If you order the assembly, items 1 and 2 will be included.
- If you order item 1, item 2 will be included.
- If you order item 2, you will receive item 2 only.

The number in the Quantity column is the quantity required per unit, assembly, or subassembly. The code AR (As Required) is used if the part number is a bulk item ordered in quantities or if the quantity per assembly depends on the product version or model.

Letters in the Note column refer to notes at the end of each parts list. Notes contain important information about usage and ordering. Special attention should be given to notes.

2. Overview

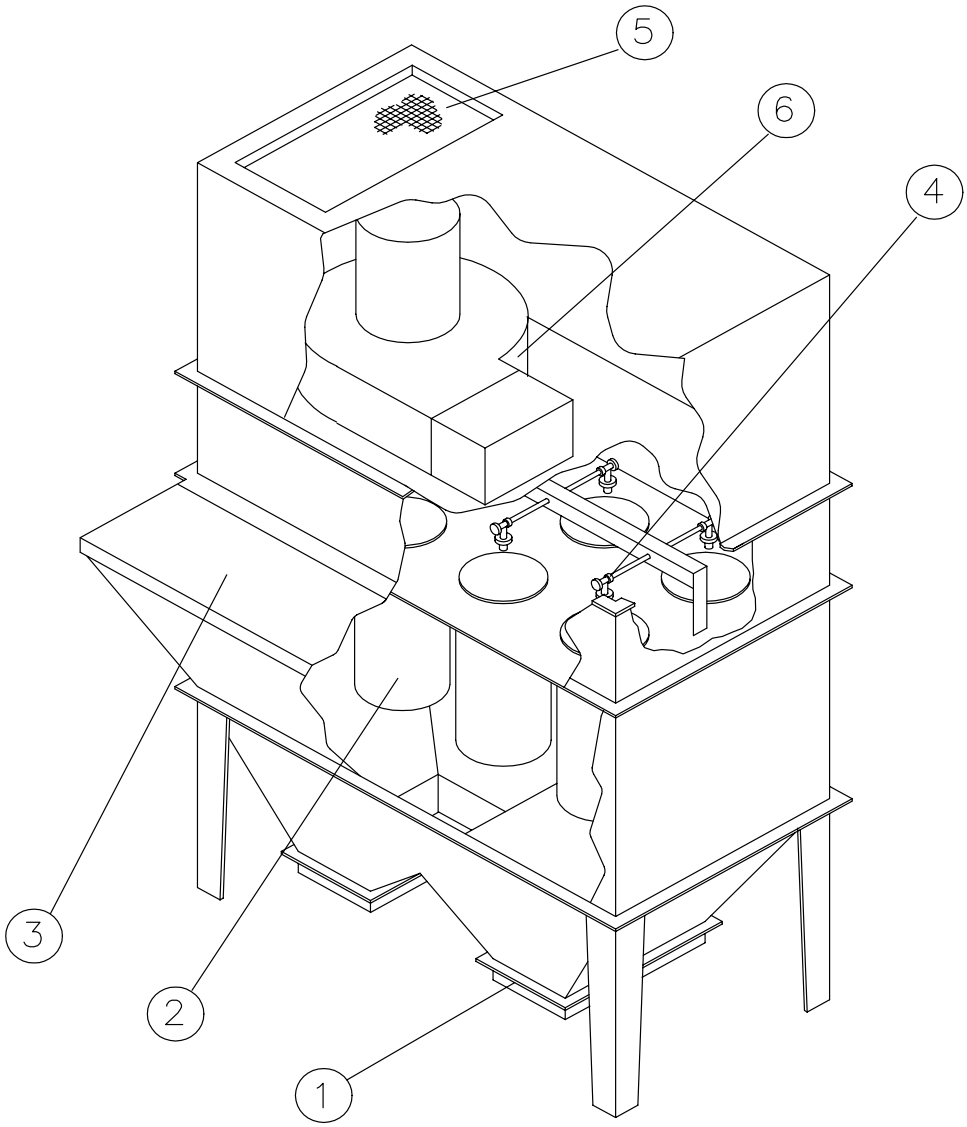

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Fig. 7-1 Afterfilter MK II

1. *Fluid Bed Assembly*
2. *Cartridge Assembly*
3. *Explosion Relief Assembly*
4. *Pulse Manifold Assembly*
5. *Final Filters*
6. *Fan Assembly*

3. Fan and Pulse Housing Section

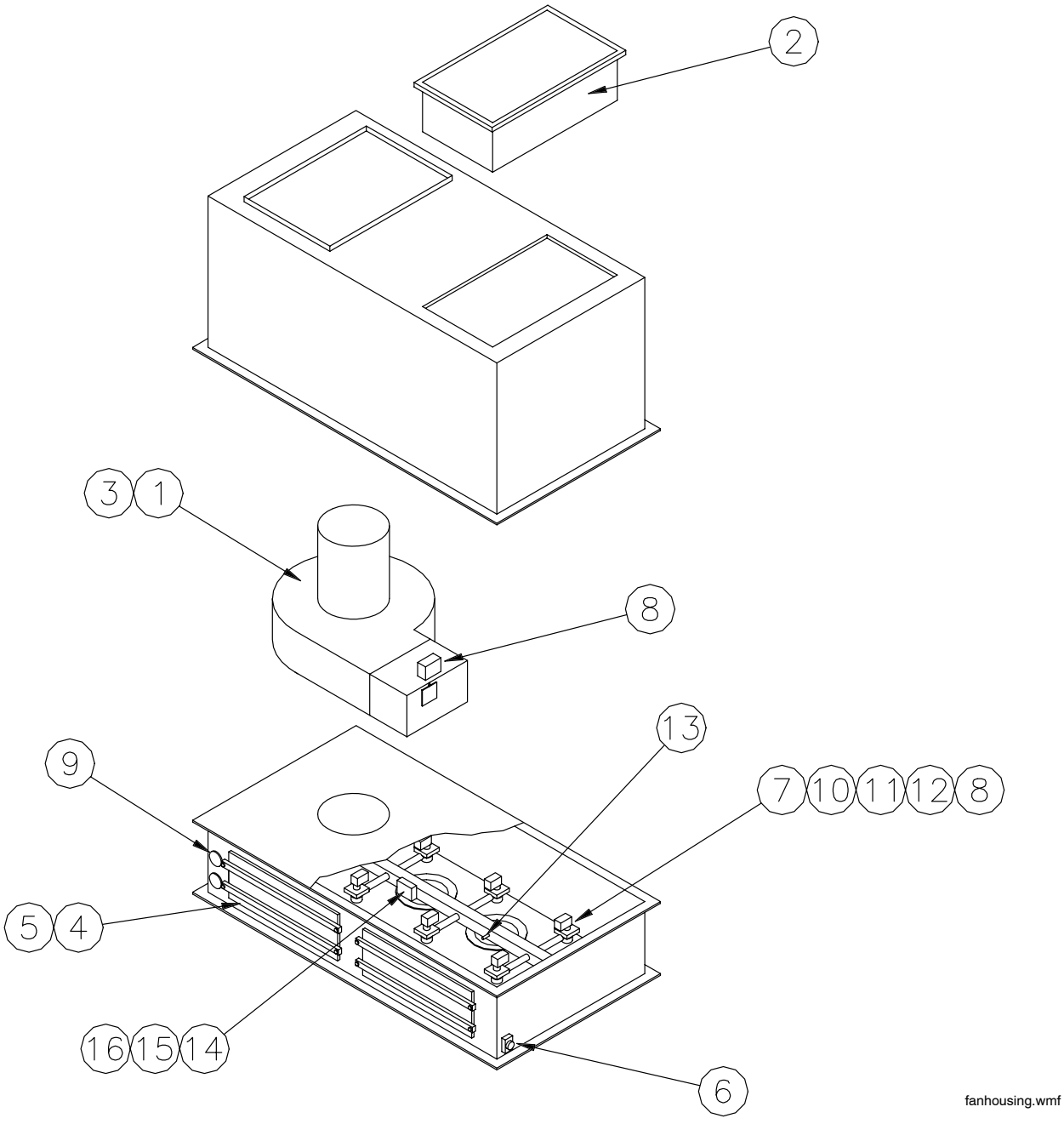

Fig. 7-2 Fan and Pulse Housing Sections

3. Fan and Pulse Housing Sections (contd.)

Table 7-1

Item	Part	Description	Quantity	Note
1	766250	FAN,ASSY,3000cfm @ 14” SWG	1	
	766216	FAN,ASSY,4500cfm @ 14” SWG	1	
	766217	FAN,ASSY,6000cfm @ 14” SWG	1	
	766249	FAN,ASSY,7500cfm @ 14” SWG	1	
	766218	FAN,ASSY,9000cfm @ 14” SWG	1	
	766219	FAN,ASSY,112500cfm @ 14” SWG	1	
	766232	FAN,ASSY,135000cfm @ 14” SWG	1	
2	767022	FINAL FILTER 890 X 300 X 298	AR	
	767023	FINAL FILTER 890 X 450 X 298	AR	
	767050	ACCOUSTIC ATTENUATORS FOR 767022	AR	D
	767051	ACCOUSTIC ATTENUATORS FOR 767023	AR	D
3	767209	SEAL,END,KNOCK–ON,/MTR	2m	
4	769511	KNOB,STAR,M8	AR	
5	767211	SEAL,SIDE,KNOCK–ON,MTR	AR	
6	769070	ISOLATOR,3–POLE, AUX INTERLOCK	1	C
	769059	ISOLATOR,6 POLE,UP TO 22KW	1	A
	765975	ISOLATOR,6 POLE,UP TO 37KW	1	A
	765977	ISOLATOR,6 POLE,UP TO 45KW	1	A
7	769113	CABLE, 3 CORE + EARTH, 2.5MM	AR	B
	769143	CABLE, 6 CORE + EARTH, 4MM	AR	B
	769168	CABLE, 6 CORE + EARTH, 6MM	AR	B
	766237	CABLE, 6 CORE + EARTH, 10MM	AR	B
	766238	CABLE, 6 CORE + EARTH, 16MM	AR	B
	766239	CABLE, 6 CORE + EARTH, 25MM	AR	B
8	769055	SWITCH, AIRFLOW PRE 2001	1	
	769072	SWITCH, AIRFLOW POST 2001	1	
9	768002	GAUGE, MINIHELIC	2	
10	768100	NIPPLE,BARREL,1” BSP,180MM LG	AR	

AR: As Required
NS: Not Shown

Continued on Next Page

Item	Part	Description	Quantity	Note
11	165726	NOZZLE,CARTRIDGE PULSE	AR	
12	768406	VALVE,PULSE,2/2,1”BSP,24V	AR	
13	768135	VALVE,SAFETY RELIEF	1	
14	769000	ENCLOSURE,TERMINAL,8 WAY,PLASTIC	AR	
15	769048	TERMINAL BLOCK,10A,12 WAY	AR	
16	769117	CABLE,SY,11 CORE + E,0.75MM2,/MTR	AR	
NS	768251	TUBING,POLY,6MM OD,BLUE,/MTR	AR	
NS	768262	TUBING,POLY,10MM OD,BLUE,/MTR	AR	

NOTE A FOR CORRECT ISOLATOR SIZES, CONTACT YOUR LOCAL NORDSON SUBSIDURARY

B: FOR CORRECT CABLE SIZES, CONTACT YOUR LOCAL NORDSON SUBSIDURARY

C: USED ON ALL AFTERFILTERFILTERS AFTER JAN 2001. NO MOTOR ISOLATOR FITTED

D: ACCOUSTIC ATTENUATORS ARE FITTED AS STANDARD ON 13500CFM AFTERFILTER AND AS AN OPTION ON ALL OTHER SIZES

AR: As Required

NS: Not Shown

4. Cartridge and Fluid Bed Sections

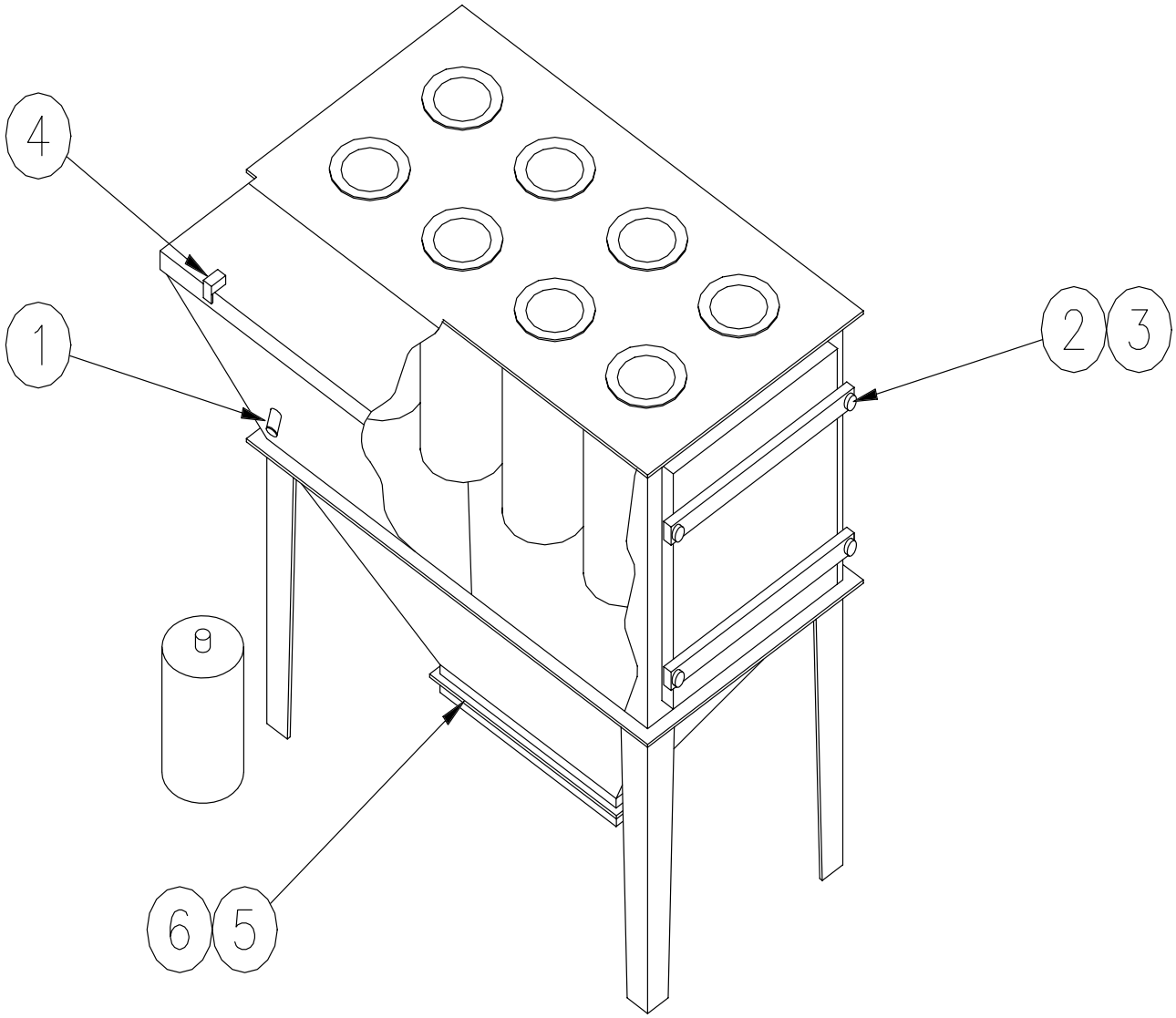

Fig. 7-3 Cartridge and Fluid Bed Sections

4. Cartridge and Fluid Bed Sections (contd.)

Table 7-2

Item	Part	Description	Quantity	Note
1	767318	CAP,ROUND,50MM DIA	2	
2	769511	KNOB,STAR,M8	AR	
3	767211	SEAL,SIDE,KNOCK–ON,MTR	AR	
4	767141	LATCH,EXPLOSION,ASSY	AR	
5	767027	FLUID BED, 900 x 200 x 4.75	AR	
	767045	FLUID BED, 362 x 362 x 4.75	1	A
6	244721	PUMP, POWDER, TRANSFER .75OTLET	AR	
NS	768251	TUBING,POLY,6MM OD,BLUE,/MTR	AR	
NS	768252	TUBING,POLY,8MM OD,BLUE,/MTR	AR	
NS	766606	BUCKET,WASTE,ASSY.	1	

NOTE A 3000CFM AFTERFILTER ONLY
AR: As Required
NS: Not Shown

5. USA Cartridge Mount

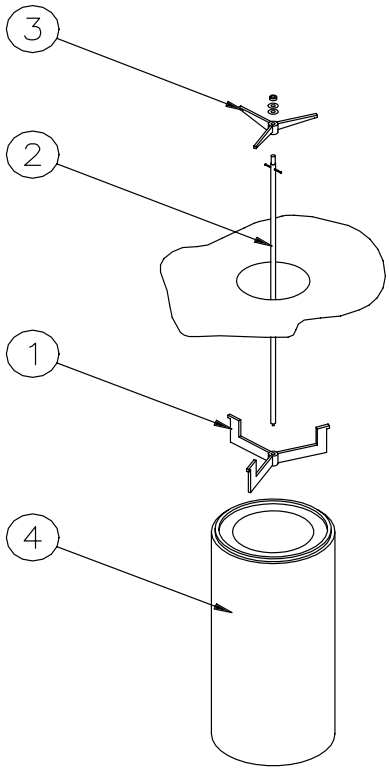

Fig. 7-4 USA Cartridge Mounts

Table 7-3

Item	Part	Description	Quantity	Note
1	174722	BRACKET,CENTERING,FILTER	AR	
2	174723	ROD,FILTER MOUNT,36”	AR	
3	174720	SUPPORT,FILTER MOUNT	AR	
4	156998	FILTER,36,HI–EFF,CENTER–MOUNT	AR	A

NOTE A EACH CARTRIDGE IS RATED AT 750CFM EACH
AR: As Required
NS: Not Shown

6. UK Cartridge Mount

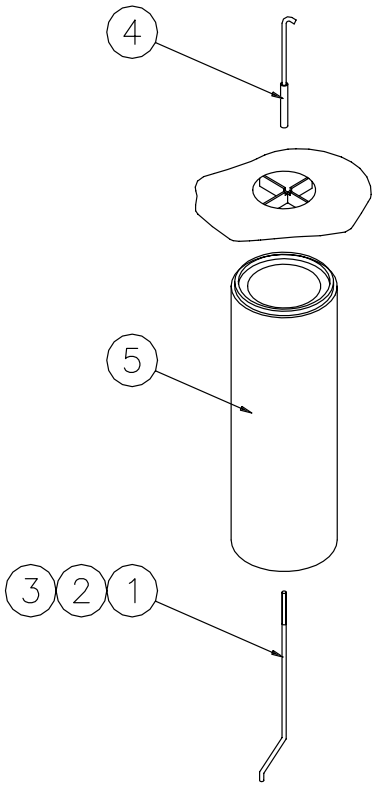

Fig. 7-5 UK Cartridge Mount

Table 7-4

Item	Part	Description	Quantity	Note
1	767005	CRANK,BOTTOM,LONG,M12	AR	
2	767009	STRIP,EARTHING,CARTRIDGE	AR	
3	767010	WASHER,SEAL,CRANK ROD	AR	
4	767052	CRANK,TOP,HOOKED	AR	
5	767053	FILTER, CARTRIDGE,1000MM, POWDERGRID	AR	A
NOTE A EACH CARTRIDGE IS RATED AT 750CFM EACH AR: As Required NS: Not Shown				

7. Waste Bucket Assembly

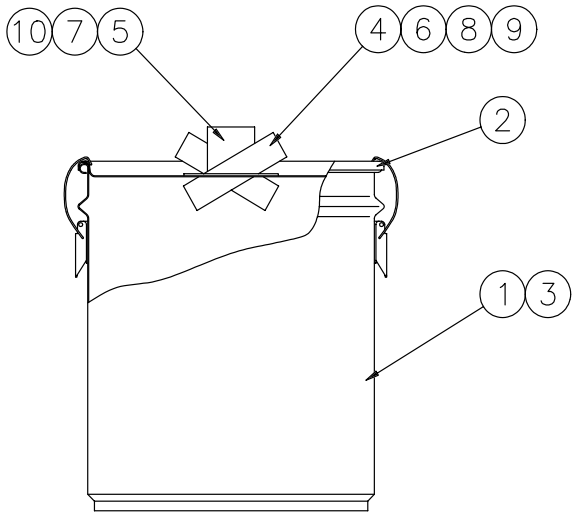

Fig. 7-6 Waste Bucket Assembly

Table 7-5

Item	Part	Description	Quantity	Note
–	766606	WASTE BUCKET ASSEMBLY	1	
1	766607	• DRUM,OPEN TOP,WITH HIGH EXPANSION	1	
2	766608	• FAB.,WASTE BUCKET LID DRILLING	1	
3	600065	• DECAL,NORDSON	1	
4	900725	• TUBING,POLYURETHANE,.735, PER MTR	4	
5	766617	• SPIGGOT, HOPPER, OUTLET, 50MM STRAIGHT	1	
6	766619	• SPIGGOT,WASTE BUCKET,TRANSFER INLET	2	
7	766612	• HOSE,HR40/60/100 HOPPER	1.5	
8	769514	• CLIP,JUBILEE,25–30MM	2	
9	767332	• CAP,PVC,CYCLONE INLET	2	
10	970966	CLIP,JUBILEE,40–60MM	1	
NOTE A EACH CARTRIDGE IS RATED AT 750CFM EACH AR: As Required NS: Not Shown				

Section 8

Specifications

Section 8
Specifications

1. Technical Data

Electrical Requirements

380/415V, 3–phase + Neutral 50Hz, star/delta, IP65

Other voltages and starters are supplied on request, check on your circuit diagrams.

Pneumatic Requirements

Dry, clean air at 90–95 p.s.i., filtered to 5μ, or dried to 2 degree C dew point, oil free.

2. Noise

Less than 82db(A) Measured at a distance of 1m from the surface of the unit and a height of 1.6m.

3. Air Flow and Power Details

Table 8-1

Airflow (CFM)	Airflow (m3/hr)	Motor Rating (Kw)	No. of Cartridges
3000	5100	11.0	4
4500	7650	11.0	6
6000	10000	18.5	8
7500	12750	18.5	10
9000	15300	22.0	12
11250	19100	30.0	15
13500	22900	45.0	18

4. Part Numbers, Dimensions and Weights

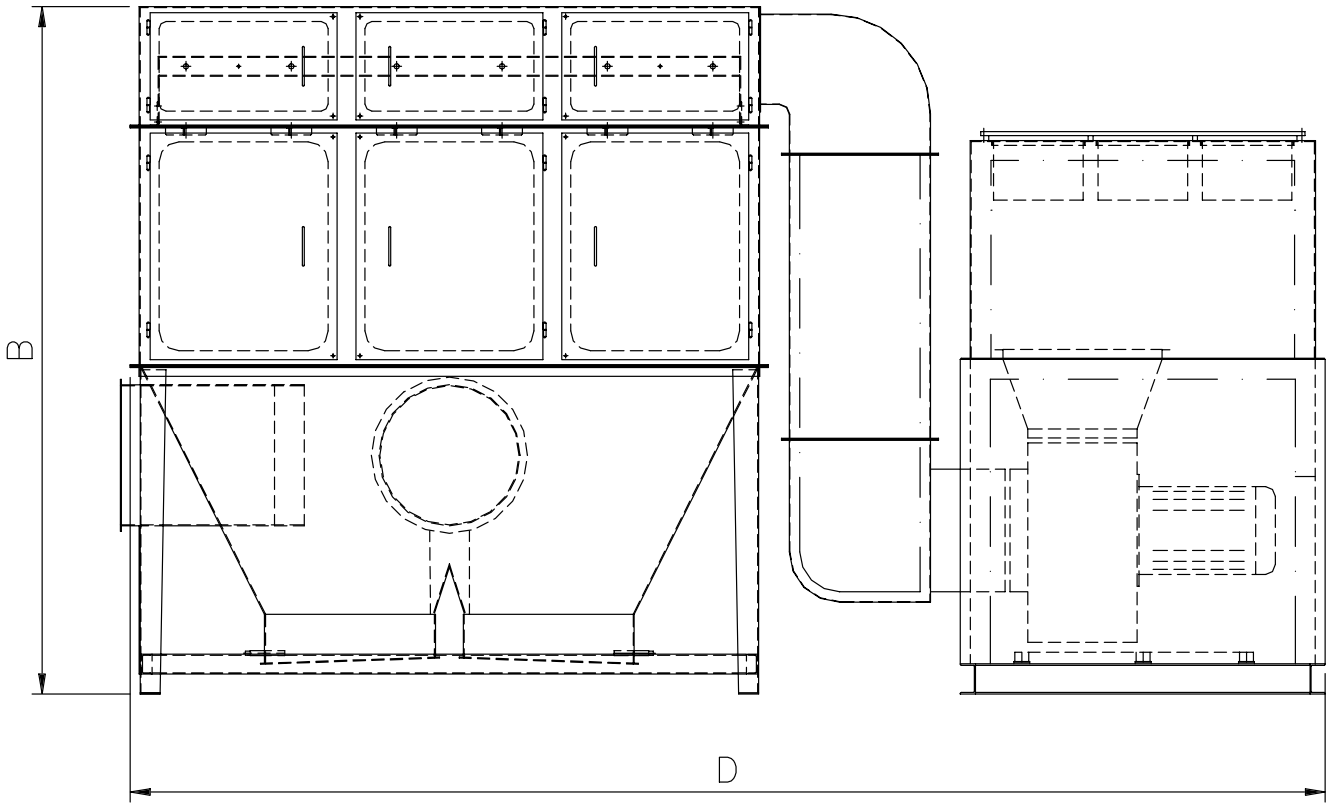

Fig. 8-1 Standard Configuration 13500cfm Afterfilter

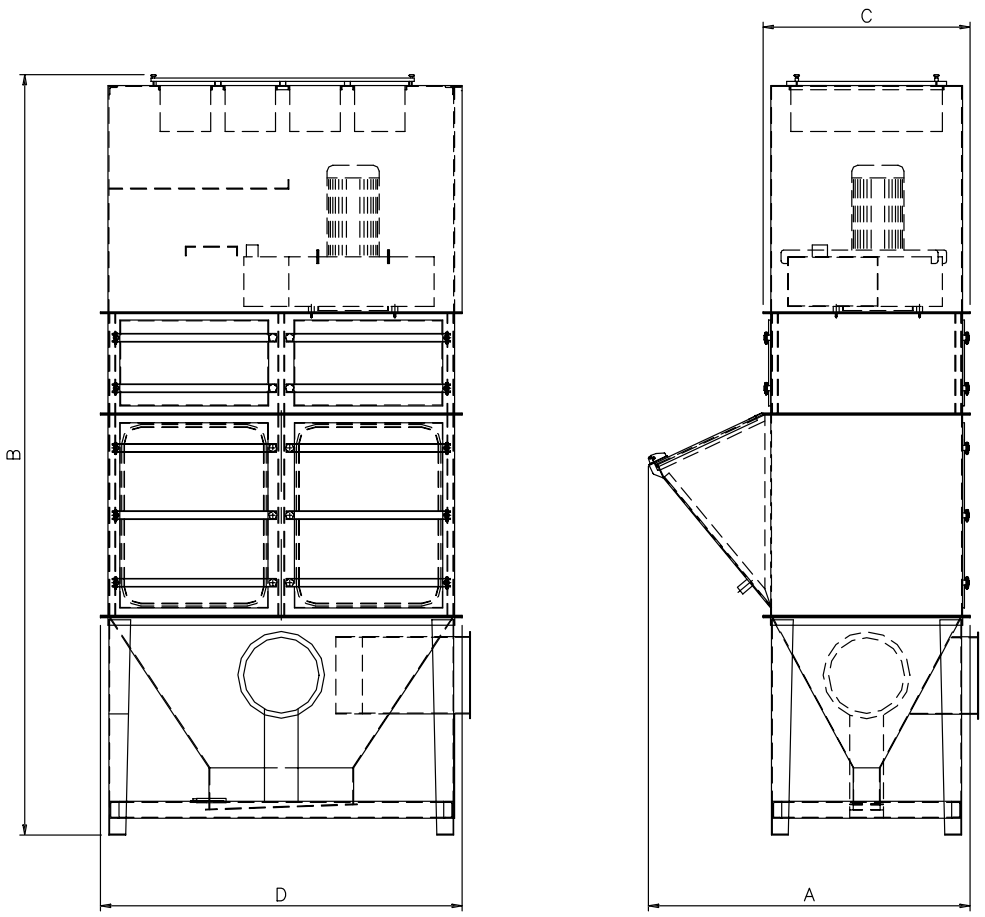

Fig. 8-2 Standard Configuration 3000cfm – 11250cfms

Table 8-2

Part Numbers	Airflow	Dimensions (mm)				Weight (Kgs)
		A	B	C	D	
765949	3000cfm (5100m3/hr)	1900	3800	1230	1600	1750
765950	4500cfm (7650m3/hr)	1900	4400	1230	2100	1800
765951	6000cfm (10200m3/hr)	1950	4550	1230	2200	1850
765957	7500cfm (12750m3/hr)	1950	5000	1230	2700	1950
765952	9000cfm (15300m3/hr)	2400	5100	1500	2200	2100
765953	11250cfm (19100m3/hr)	2400	5400	1500	2700	2300
765954	13500cfm (22950m3/hr)	2650	3500	1500	6100	2800