



DUST EXTRACTOR INSTRUCTION MANUAL

3M™ Dust Extractor 30L, 45L

Safety Information: Read And Retain These instructions

Please read, understand, and follow all safety information contained in these instructions prior to the use of the 3M Dust Extraction Units. Retain these instructions for future reference.

A yearly technical check on parts and filtering system by a 3M authorized person is required.

For user servicing, the dust extractor must be dismantled, cleaned and serviced, as far as it is reasonably practicable, without causing risk to the maintenance staff and others. Suitable precautions include, decontamination before dismantling, provision for local filtered exhaust ventilation where the dust extractor is dismantled (according to local regulations), cleaning of the maintenance area and suitable personal protection.

Intended Use

This unit is designed for light industrial/professional use and not for consumer sale/use and is ideally suited to use in combination with a pneumatic tool and/ or electrical tool. Intended for use in dry sanding applications with substances which are not flammable, hazardous or explosive. Only to be used by trained professionals in accordance with the instructions in this manual.

Explanation of Safety and Related Symbols	
Marking	Description
	ATTENTION: Read Accompanying Documentation
	ALERT SYMBOL: Indicates a hazardous situation
	CAUTION: This appliance contains dust hazardous to health. Emptying and maintenance operations, including removal of the dust collection means, must only be carried out by authorized personnel wearing suitable personal protections. Do not operate without the full filtration system fitted.

Explanation of Signal Word Consequences

	WARNING: Indicates a potentially hazardous situation which, if not avoided, may result in serious injury or death.
	CAUTION: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury and/or property damage.
	NOTICE: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury and/or property damage.

Read the Safety Data Sheets (SDS) before using any materials.

Contact the suppliers of the workpiece materials and abrasive materials for copies of the SDS if one is not readily available.

WARNING

Exposure to **DUST** generated from workpiece and/or abrasive materials can result in lung damage and/or other physical injury.

Use dust capture or local exhaust as stated in the SDS. Wear government-approved respiratory protection and eye and skin protection.

Failure to follow this warning can result in serious lung damage and/or physical injury.

9300 Winnetka Ave. N
Brooklyn Park, MN 55445
(763) 488-5700

CUST ID #

PRINT METHOD

SGS#

ROUND

7764190-3

1

Production Art

Description: 3M™ Dust Extractor DFU

Base File Name:
PA: 0190187-3.indd
GA:
Software: InDesign CC 2022
SGS Contact:
Email:
Printer:
Printer Location:
Supplier:

Artwork Spec#: 0190187.3

Material Spec#: 34-2000-7180-0

Structure#:

Cat/Product#: 33774

Reference:

Requester: Emily Murillo

Die # / Doc. Size: 5.5" x 8.5"

DATE

CHANGE LOG

INT

09.11.24

Update as per annotation file

GA

09.25.24

Update as per annotation file

SM

INKS

PROCESS
BLACK

MATCH

SPECIAL

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GENERAL POWER TOOL SAFETY WARNINGS

⚠ WARNING: Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire, and/or other serious injury.

Save all warnings and instructions for future reference. The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery operated (cordless) power tool.

1) Work Area Safety

- a) **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- b) **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
- c) **Keep bystanders away while operating a power tool.** Distractions can cause you to lose control.

2) Electrical Safety

- a) **Power tools plugs must match the outlet. Never modify the plug in any way.** Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- b) **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- c) **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- d) **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool.** Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- e) **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
- f) **If operating a power tool in a damp location is unavoidable, use a ground fault circuit interrupter (GFCI) protected supply.** Use of a GFCI reduces the risk of electric shock.

3) Personal Safety

- a) **Stay alert, watch what you are doing and use common sense when operating a power tool.** Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- b) **Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- c) **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.
- d) **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- e) **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- f) **Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewelry or long hair can be caught in moving parts.
- g) **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.

4) Power Tool Use and Care

- a) **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
- b) **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- c) **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
- d) **Do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
- e) **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation.** If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- f) **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g) **Use the power tool, accessories and tool bits, etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.

5) Service

Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

WARNING

To reduce the risks associated with exposure to contaminant:

- It is necessary to provide an adequate air change rate in the room if the exhaust air is returned in the room. Reference to National Regulations is necessary.

To reduce the risks associated with fire and explosion:

- Do not use the dust extractor in a flammable or explosive environment.
- Do not vacuum up liquids or aggressive substances (i.e. acids, bases, etc.).
- Do not vacuum flammable or explosive dust (i.e. magnesium, aluminum, etc.).
- Do not vacuum flammable or explosive liquids (i.e. petrol, thinners, etc.).
- Do not vacuum sanding dust from surfaces treated with paints that have not completed the catalyst cycle.
- Do not pick up things that are burning or smoking, such as sparks or hot shavings.

To reduce the risks associated with hazardous dust ingestion or eye/skin exposure:

- Use appropriate respiratory and skin protection, or local exhaust as stated in the SDS of the material being worked on.

To reduce the risks associated with hazardous voltage and compressed air:

- Never allow the dust extractor to be used by untrained people.

To reduce the risks associated with hazardous voltage and fire:

- Do not pull on power cord to unplug the dust extractor. To unplug, grasp the plug, not the power cord.
- Do not handle the dust extractor or power cord with wet hands.
- Do not use with damaged cord or plug. Discontinue use, if the dust extractor is not working as it should, has been dropped or damaged, left outdoors, or dropped into water.
- Discontinue use if an invisible defect is suspect.
- If the plug does not fit the outlet, do not modify the plug provided with the dust extractor or use adapter plugs.
- Turn off all controls before unplugging.

To reduce the risks associated with hazardous voltage and property damage:

- Keep the power cord away from heat, oil and sharp edges.
- Pull the plug from the socket when the dust extractor is not in use and prior to maintenance and cleaning work.
- Do not expose the dust extractor to rain or wet environments.

To reduce the risks associated with hazardous voltage, exposure to hazardous contaminant, and compressed air:

- Prior to use, users must be provided with information, instructions and training for the use of the dust extractor and the handling of any materials involved including safe procedures for disposing of the extracted materials.

To reduce risks associated with hazardous voltage, fire and explosion:

- If accidental damage occurs discontinue use of this product.

To reduce the risks associated with impact from abrasive product, pad, or tool breakup, sharp edges, hazardous pressure, rupture, vibration and noise

- Never exceed marked maximum input pressure (92 PSI/ 6 Bars).

To reduce the risks associated with impact from abrasive product, pad, or tool breakup, sharp edges, vibration and noise:

- Operators and other personnel must always wear protection for eyes, hearing and respiratory protection when in the work area, or while operating this tool.
- Follow your employer's safety policy and/or ANSI Z87.1 or local/national standards for eyewear and other personal protective equipment requirements.
- Proper eye protection must be worn at all times.
- Always wear hearing protection while operating this tool. Follow your employer's safety policy or local/national standards for personal protective equipment requirements.

CAUTION

To reduce the risks associated with hazardous voltage and property damage:

- Do not use the dust extractor outside of the temperature ranges of 10 C and 35 C or above the relative humidity of 50% to 90%.

To reduce the risks associated with exposure to contaminant and electrostatic discharge:

- Use only 3M authorized parts and accessories including hoses, attachments, bags, and filters.

To reduce the risks associated with exposure to contaminant:

- Dispose of all process dust in accordance with all applicable regulations.
- Minimize the spread of dust during replacement of the dust bag and/or filter.
- Do not use without the filter or the filter bag in place.
- Immediately disconnect the dust extractor from the electrical mains if dust is ejected from air outlet.

To reduce the risks associated with hazardous voltage:

- The dust extractor shall be stored indoors only.

To reduce the risks associated with impact:

- Do not lift or transport the dust extractor by the handle using a lifting device.

To reduce the risks associated with tripping and falling:

- Always route the cable and hose carefully to avoid creating a trip hazard.

To reduce the risks associated with whipping, hazardous pressure or rupture:

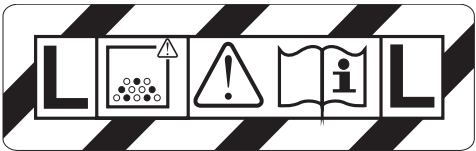
- Ensure supply hose is oil resistant and is properly rated for required working pressure

NOTICE

- The voltage and frequency of the power source must correspond with the specifications on the dust extractor's name plate.
- Use the dust extractor for dry applications only.

VERSION “L”:

Appliance suitable for separating dust with a limit value of occupational exposure of $\geq 1 \text{ mg} / \text{m}^3$. (Class L – Light HAZARD).



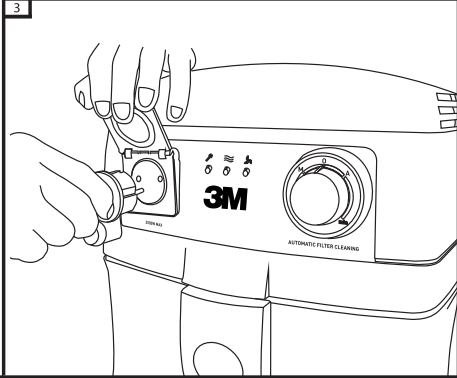
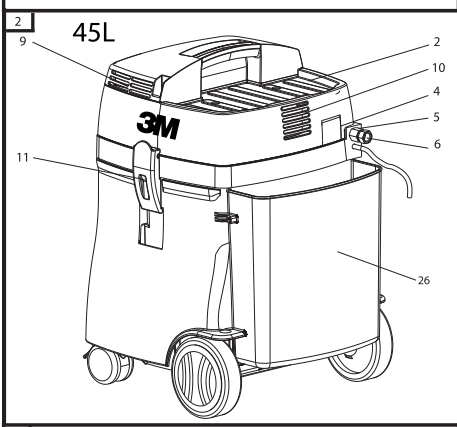
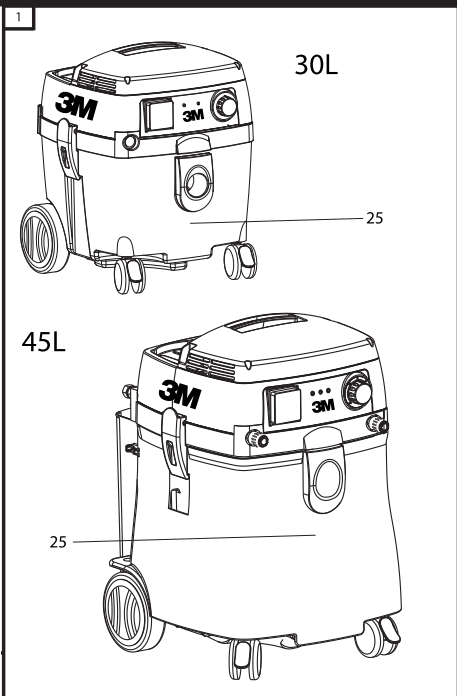
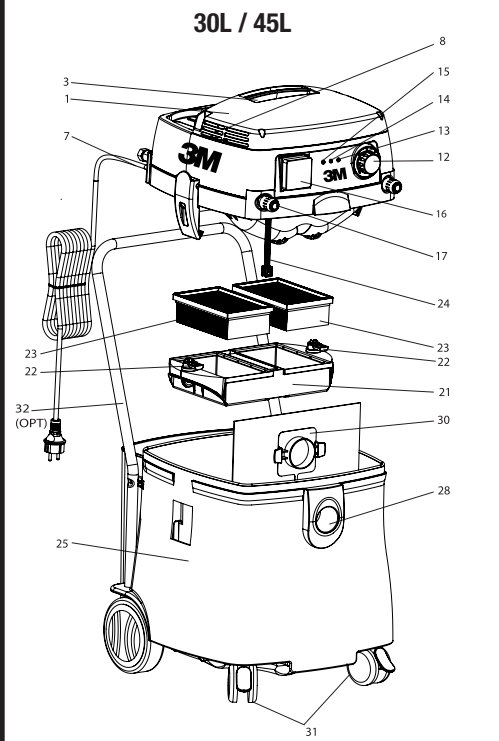
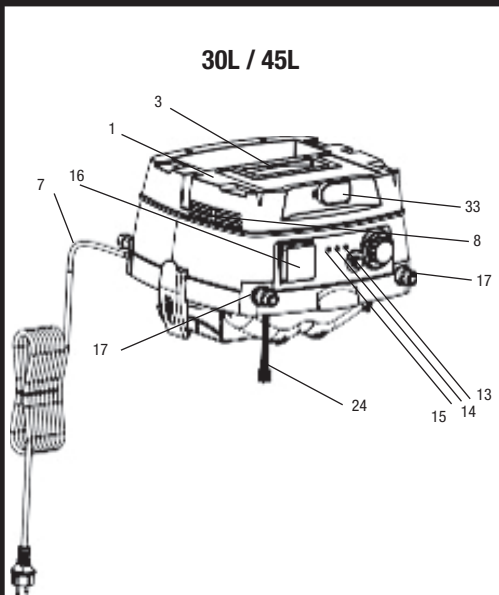
VERSION “M”:

Appliance suitable for separating dust with a limit value of occupational exposure of $\geq 0,1 \text{ mg} / \text{m}^3$ and wood dust. (Class M – Medium HAZARD).

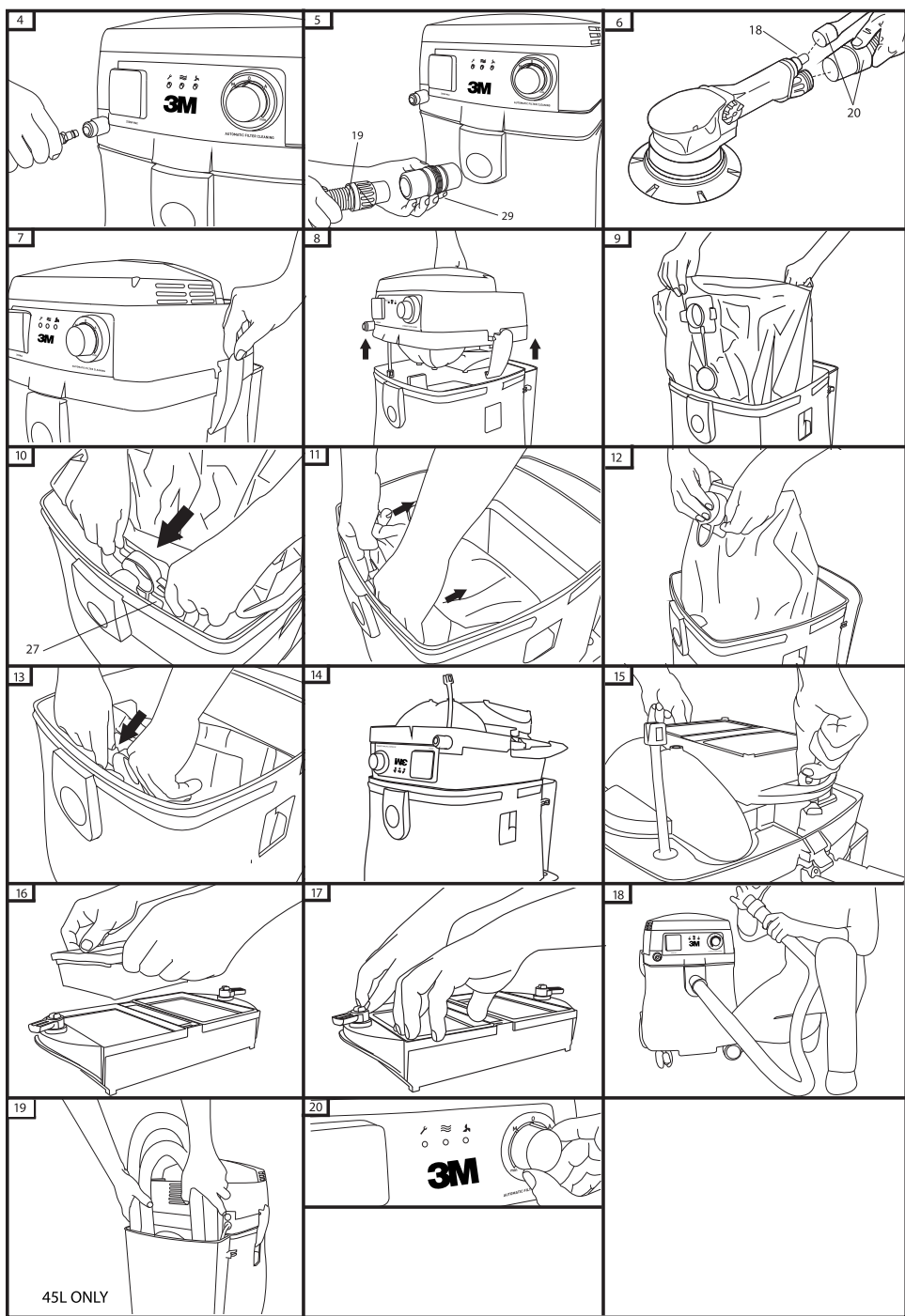


Refer to all regulations applicable to the substances and pollutant collected.

 - **WARNING:** for class M vacuum cleaners the outside of the machine must be decontaminated with vacuum cleaning methods and cleaned or treated with sealant before being taken from a hazardous area



Parts Page & Assembly Instructions



Product Configuration			
NAME	30L	45L (L Class)	45L (M Class)
FLEECE DUST BAG	X	X	X
SWIVEL NOZZLE	X	X	X
FRONT WHEELS	X	X	X
REAR WHEELS	X	X	X
RUBBER HOSE CUFFS	X	X	X
HOSE 1 X 5 M	X	X	X
Y-CONNECTOR		X	
QUICK CONNECT AIR COUPLING	1	2	2

Product Specifications	
OPERATING VOLTAGE AND FREQUENCY	US 120 Vac - 50/60Hz 230 Vac - 50/60 Hz JP 100 Vac - 50/60Hz TW 110 Vac - 50/60Hz
POWER	US 1030 W 1200 W JP/TW 1050 W (@min.500 W)
POWER AT SOCKET (MAX)	US 680 W EU 2400 W UK 1800 W CH-DK 1100 W AUS 1200 W JP/TW 380 W (@min.930 W) UK (110V) 1100 W
TOTAL POWER (MAX)	US 1710 W EU 3600 W UK 3000 W CH-DK 2300 W AUS 2400 W JP/TW 1430 W UK (110V) 2150 W
AIR CAPACITY EN 60335-2-69	165 m ³ /h
VACUUM LEVEL	215 hPa
WEIGHT	10,2 kg (30L) 13,5 kg (45L)
CLASS OF PROTECTION	IP X 4
NOISE LEVEL EN 60704-3	70 dB(A) - 73 dB (A) VERSION "E"
FILTERS SURFACES	2 x 0,50 m ²
CAPACITY OF DUST COLLECTION BAG	5 kg max
CONTAINER CAPACITY	30L 45L
POWER CONTROL SWITCH	MAN - 0 - AUT
PNEUMATIC SECTION	All models
INLET AIR PRESSURE	6 bar
MAX COMPRESSED AIR FLOW	1450 l/min
INLET FITTING	3/8" G female

Parts List

ITEM	DESCRIPTION
1	VACUUM HEAD
2	TOOL TRAY
3	HANDLE
4	IDENTIFICATION PLATE
5	COMPRESSED AIR INLET
6	AIR COUPLING FILTER
7	POWER CORD
8	COOLING AIR INLET
9	COOLING AIR OUTLET
10	OPERATING AIR OUTLET
11	HEAD LOCKERS
12	MAN-O-AUT SWITCH WITH SPEED CONTROL
13	MOTOR ON INDICATOR
14	LIQUID LEVEL INDICATOR
15	SERVICE INDICATOR
16	ELECTRIC TOOL SOCKET
17	QUICK COUPLING FOR PNEUMATIC TOOL
18	PNEUMATIC TOOL CONNECTION
19	ELECTRIC TOOL HOSE
20	PNEUMATIC TOOL HOSE (OPTIONAL)
21	FILTER FRAME
22	FILTER FRAMES LOCKERS
23	FILTERS
24	LIQUID LEVEL SENSOR
25	DUST BIN
26	ACCESSORIES COMPARTMENT (45L ONLY)
27	ANTISTATIC CONNECTION
28	HOSE NOZZLE
29	UNIVERSAL SWIVELLING NOZZLE
30	DUST COLLECTION BAG
31	CASTOR WHEELS WITH LOCK
32	TRANSPORT HANDLE (OPTIONAL)
33	SWIVEL BLOCK FOR FIXING CASE

Part Number	Product Description
33645	3M™ Antistatic Pneumatic Hose, 5m
33783	3M™ Antistatic Pneumatic Hose, 8m
33790	3M™ Antistatic Pneumatic Hose, 10m
33646	3M™ Antistatic Electric Hose, 5m
33648	3M™ Dust Extractor Filter Bag
33647	3M™ Dust Extractor Filter
33652	3M™ Dust Extractor Y-Connector
33765	3M™ Dust Extractor Handle Extension
33770	3M™ Random Orbital Sander Adaptor for Hose Assembly 57mm
33771	3M™ Dust Extractor Straight Adaptor 38mm
33772	3M™ Dust Extractor Adaptor 29mm
33653	3M™ Clean Sanding System Workstation
33654	3M™ Clean Sanding System Workstation Extension

Operating & Maintenance Instructions

START-UP

Power supply

- Turn the main switch (12) to "o" (off) before connecting this appliance to the supply mains;
- Supply mains voltage and frequency must match the identification plate;
- Connect to power socket outlets provided with earth conductor and adequate protections.

Compressed air mains

- Do not exceed 6 bar;
- Dehumidified and filtered air required;
- Connect the appliance to the compressed air main with a hose suitable for the air pressure and int. diam. 10 mm (3/8 in.) min.

Assembling the swivelling adaptor (29)

Insert the adaptor in the inlet nozzle (28).

Electrical tool connections

- Check for the tool switch turned off before connecting it to the front panel socket outlet;
- Insert the tool plug into the front panel socket (16) (pic. 3);
- Connect the tool to the swivelling nozzle with the hose (19) (pic. 5);
- Do not plug electric tools exceeding the power indicated on the front panel.

Pneumatic tool connections

- Check for the tool switch turned off before connecting it to the front panel quick coupling;
- Connect the tool to the appliance with the quick couplings (17) (pic. 4) And (18) (pic. 6);
- Connect the coaxial hose (optional) to the quick coupling (20) (pic.6).

Check the tool functioning as indicated on the instructions manual.

Preliminary checks

- Check that the dust collection bag (30) has been fitted in the container (25) and that the filters (23) have been fitted on the head;
- Check that the vacuum hose is properly fixed and does not hinder tool movement;
- Check that there are no leaks in the compressed air supply system.

Machine Use

The machine can operate in manual or automatic mode: to select the mode, turn the switch (12) to the right (automatic mode) or to the left (manual mode) (pic. 20). The green indicator (13) turns on when the vacuum motor starts.

Using the machine in automatic mode (A)

Automatic operations means that the vacuum starts when an electrical or pneumatic tool is turned on. The vacuum will automatically turn off eight seconds after the tool is turned off.

Using the machine in manual mode (M)

Manual operations means that the vacuum runs continuously. Power on the front panel outlet socket is permanently active during manual running.

Adjusting the vacuum level

The vacuum level can be adjusted in both operating modes by turning the knob (12) towards the "min" position until the desired power is reached.

Automatic cleaning of the filters - 45L only (when equipped)

The machine has a timed filter cleaning system that maintains the vacuum strength.

It is also possible to perform a complete cleaning cycle as follows (pic. 18):

- Switch the machine off;
- Cap the vacuum hose;
- Restart the machine keeping the hose capped for 15 seconds.

Only use 3M recommended/approved hoses.

Maintenance

 **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.

Service indicator (15)

The indicator turns on for scheduled service to keep the machine in working conditions.

When warning light is on contact 3M for service.
The prolonged use of the extractor with the warning light on can cause more needed maintenance.

Service Light Troubleshooting	Maintenance Frequency
Motor	2000 h
Brushes	600-800 h
Filter Panel	2500h
Dust Bags	When full

Ordinary check operations

 For user servicing, the appliance must be dismantled, cleaned and serviced, as far as it is reasonably practical, without causing risk to the maintenance staff and others. Suitable precautions include, decontamination before dismantling, provision for local filtered exhaust ventilation where the appliance is dismantled (according to local regulations), cleaning of the maintenance area with use of suitable personal protective equipment.

- Check the vacuum hose conditions;
- Check the power cord, plug and outlet socket conditions: in case contact an authorized service center for replacement;
- Check the dust bag: do not exceed recommended weight and capacity! In case of laceration or perforation of the dust bag check the filter cartridge and replace as needed to an authorized service center;
- Check filter cartridges condition (23). In case of lacerations or perforations contact an authorized service center for replacement.

 Do not use the extractor without the full filter set fitted.

Bag replacement

Do not spread dust during dust bag replacement.

- Wear an adequate dust mask;
- Detach the vacuum head pushing the side hooks (11) and remove the vacuum head (1) (pic.7-8).

Paper bag (cod. 042.1108/5):

- Remove the full bag closing the nozzle with the cap provided (pic. 12 And 13).
 - Put the new bag inserting the nozzle as illustrated (pic. 14).
- Only use 3M recommended/approved dust bags.
Spare bags should be kept in dry places.
Follow local legal regulations for disposal.

Filter replacement

-  Do not spread dust during filter replacement.
- Wear adequate filter mask;
 - Detach the extractor head pushing the side hooks (11) (pic.7-8);
 - Turn the extractor head upside down (pic.15);
 - Remove the filter frame (21) turning the hooks (22) (pic. 16);
 - Remove the filter cartridges (pic. 17) And fit them into a sealable disposal bag;
 - Fit new filter (3M pn 33647) cartridges in the filter frame (pic.18) And reassemble it on the extractor head.
- Only use 3M recommended/approved spare parts.
Refer to 3MCollision.com for parts code and authorized service center.

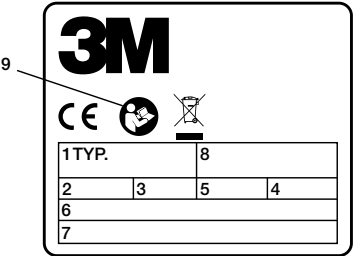
Tool Identification Plate

Position And Meaning Of Information

1. Type of tool.
 2. Nominal working voltage Volts (V).
 3. Working frequency Hertz (Hz).
 4. Class of protection.
 5. Absorbed power Watt (W).
 6. Power at socket (MAX) Watt (W).
 7. Power max Watt (W).
 8. Serial number.
9.  Read all instructions before operating this product and save these instructions.

Disposal Statement

Recycle or dispose of tool and dust according to Local, State, and, Federal Regulations.



Troubleshooting And Solution

Effects	Causes	Solutions
The motor will not start	No power	Make sure the unit is plugged in
	Power cord, switch or motor defective	Contact 3M
The vacuum does not start automatically	Electronic module	Contact 3M
Vacuum flow is insufficient	Bag full	Check the filter bag
	One of the hoses or accessories is clogged	Check the flexible hose and the accessories
	Clogged filters	Check the filters cartridges
Dust from the exhaust (10)	Filter cartridge torn ripped	Contact 3M
Tools do not start	3-way switch malfunction	Contact 3M
Insufficient Power for pneumatic tool	Insufficient compressed air feeding	Check air passage
Red indicator on	Ordinary maintenance limit exceeded	Contact 3M

Warranty Statement 3M Limited Two-Year Warranty

Product Selection and Use: Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product in accordance with all applicable instructions and with appropriate safety equipment, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

Warranty, Limited Remedy, and Disclaimer: 3M warrants this tool will be free of defects in workmanship and materials under normal operating conditions for two (2) years from the date of purchase by the initial end-user customer. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If this tool does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement or repair of the tool or refund of the purchase price. User must operate the tool in accordance with all applicable instructions, safety precautions, and other procedures stated in the operating manual. 3M will have no obligation to refund the purchase price or to repair or replace any tool or part that fails as a result of normal wear, inadequate or improper maintenance, inadequate cleaning, nonlubrication, improper operating environment, improper utilities, operator error or misuse, alteration or modification, mishandling, lack of reasonable care, or any accidental cause. Warranty claims must be made within two (2) years from the date of the end-user customer's purchase.

Limitation of Liability: Except for the limited remedy stated above, and except to the extent prohibited by applicable law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.

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