
ORIGINAL INSTRUCTION MANUAL

For

INDUSTRIAL VACUUM CLEANER (Retain for future reference)



Model TS60

For Wet and Dry Collection
230V 1ph 50-60Hz, 3x1KW

Serial No.....
(To be completed by user)

**READ THIS INSTRUCTION MANUAL
BEFORE USING THE APPLIANCE**

We reserve the right to change the design without notice

IMPORTANT

PLEASE READ THESE INSTRUCTIONS CAREFULLY

This BVC Medium Duty Vacuum Unit is designed to handle a wide range of dry cleaning and debris collection operations in industrial areas. It is provided with individually switched motors to enable the operator to select the performance suitable for the task.

WARNING Operators shall be adequately instructed on the use of these Vacuum Cleaners

Caution

This vacuum cleaner must not be used for the collection of health endangering, flammable or explosive materials. Nor must it be used or stored outside in wet conditions, i.e. outside in the rain, swimming pools etc.

Hearing protection should be worn when operating or when in close proximity to the operating vacuum cleaner.

This machine is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge.

Preparation for Use

Unpack and identify each item of equipment against the packing note.

Check that the details given on the rating plate are in accordance with your electricity supply.

IMPORTANT

Any electrical connections for this machine must be carried out by a competent electrician.

ELECTRICAL CONNECTIONS

The wires in the mains lead of this cleaner are coloured in accordance with the following code:

BLUE	-	Neutral
BROWN	-	Live

As the colours of the wires in this mains lead may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

If the 230v model is fitted with a plug of the 13A Type to BS1363 a 13-amp fuse should be fitted. This recommendation applies to the UK only.

HOSES AND ACCESSORIES

This machine is supplied with hose(s) and accessories to the customer's individual requirements from the BVC range. Contact BVC sales for information and advice if further items are required.

NORMAL USE

1 The motors on this vacuum cleaner have individual switches. It is recommended that these are set to the off position when switching on at the mains and then switched on one at a time. This reduces high starting currents.

2 Collection drum removal and fitting

To lower the drum, stand behind the cleaner, pushing the handle down slightly and push the catch backwards with the thumbs. The handle will rise and the drum will descend to the ground. The drum can now be rolled away from the cleaner on its own castors.

To replace the drum, ensure the handle is in the raised position, push it back against the support pins with "rear" label facing the machine and raise it by pulling the handle down until it engages under the catch.

Noise Emission

Sound Power level LwA 85dB(A) plus level of uncertainty KwA 2dB(A), Sound Pressure Level LpA 80dB(A) plus level of uncertainty KpA @ 1M free field conditions in accordance with 60335-2-69:2012 Annex EE Noise Test Code.

Weight (empty)

66kg machine only.

Do

1. Check the mains lead and plug for damage prior to use.
2. Have a Competent Person check for electrical safety at least once a year or more frequently if used in an arduous environment.
3. Periodically clean the filter sleeves by using the filter manual shaker. This should be carried out with the exhauster off and the collection bucket fitted.
4. Ensure that the collection bucket fitted under the filter is emptied regularly and is not allowed to become completely full. The collection bucket and contents may be very heavy and should be lifted appropriately.
5. Keep trailing leads tidy, flat on the floor to avoid a trip hazard.
6. Tie back long hair and loose clothing when operating this vacuum cleaner.
7. Be careful when moving/operating on slopes use the locking devices on the castors as the unit may 'run away' when in use.
8. In the event of an accident or breakdown, disconnect the Vacuum Cleaner from the supply by removing the plug from the supply socket and contact BVC for repair. (Please empty and clean the machine). Contact the BVC Service Department who will arrange a suitable company for collection.
9. Only use spare parts provided by BVC.

Do Not

1. Use for the collection of flammable or explosive dusts.
2. Pull the machine along by the mains lead.

CARE AND MAINTENANCE

HEPA (if fitted)

A HEPA filter is fitted between the motor head and the clean side of the filter separator to provide a secondary level of protection, this will prevent ingress of product into the exhaust.

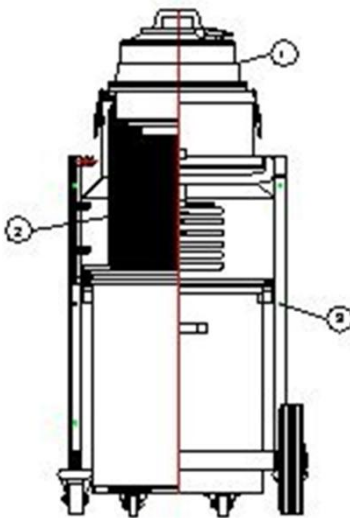
SPARES

We recommend that stocks are retained of the following:

Item	Part No.	
Cloth Filter Bag	546317000	
Drum Seal	016724200	1.5 mtrs
HEPA Filter	556305300	
Plastic Bag	016724400	
Clear Flow Filter Sleeves	536315400	16 off

OPTIONS

- | | | |
|---|------------------------|--|
| 1 | Dry pick up | Cloth bag |
| 2 | Dry pick up | Clear Flow filters with shaker |
| 3 | Dry pick up | Cloth bag with HEPA filter |
| 4 | Dry pick up | Clear Flow filters with shaker and HEPA filter |
| 5 | Wet pick up | (Cloth bag) |
| 6 | Swarf collection | Basket |
| 7 | Plastic bag collection | |



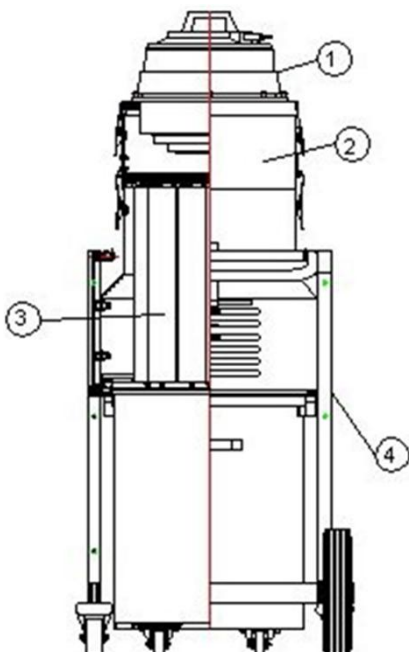
- | | |
|--------------------|-----------|
| 1. Head | 283087200 |
| 2. Filter Bag | 546317000 |
| 3. Base assy & bin | 556314401 |

TS60 with Filter Bag

Filter Cleaning

1. Electrically isolate the machine prior to maintenance.
2. Access to the filter bag is by removing the motor head, which is held in position by two toggle clips.

To maintain efficient collection the filter bag should be removed and cleaned by brushing/vacuum cleaning.



TS 60 WITH CLEAR FLOW FILTER

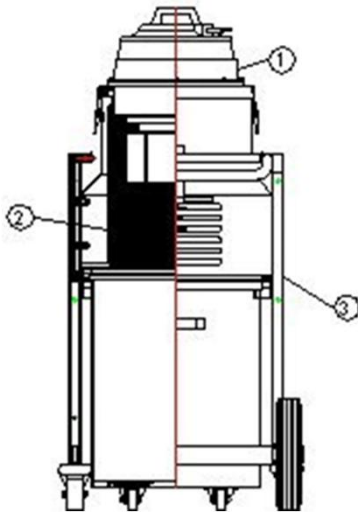
Filter Cleaning

1. The Clear Flow filter may be cleaned on the machine by switching the machine off, operating the filter shaker approximately 10 times and allowing the dust to settle.
2. The Clear Flow filter may be periodically removed for cleaning if required by brushing/vacuum cleaning. This should be carried out as follows:-
 - a. Electrically isolate the machine prior to maintenance.
 - b. Operate the shaker 10 times and allow dust to settle
 - c. Access to the Clear Flow filter is by removing the head and extension piece which is held in position by the two toggle clips.

- | | |
|-------------------------------|-----------|
| 1. Head | 283087200 |
| 2. 2. Extension(200) | 546317300 |
| 3. 3. Clear Flow Filter | 546317200 |
| 4. 4. Base assy, shaker & bin | 556314402 |

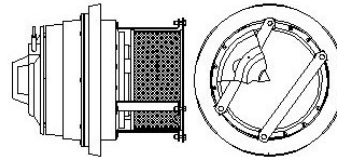
TS60 WITH HEPA FILTER

Filter Cleaning



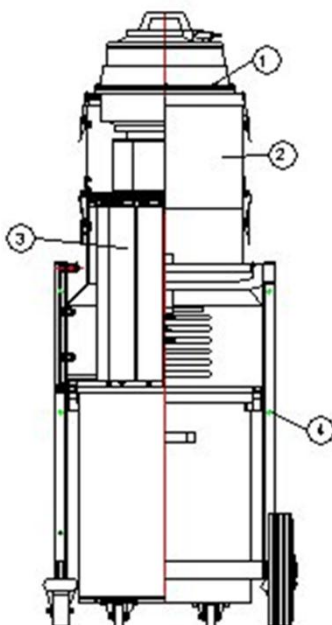
- | | |
|--------------------|-----------|
| 1. Head with HEPA | 546317501 |
| 2. Filter Bag | 546317000 |
| 3. Base assy & bin | 556314401 |

1. Electrically isolate the machine prior to maintenance.
2. Access to the filter bag is by removing the motor head which is held by 2 toggle clips.
3. To maintain efficient collection, the filter bag should be removed and cleaned by brushing/vacuum cleaning.
4. No maintenance can be carried out on the HEPA filter other than replacement.
5. If replacing the HEPA filter ensure the supports are fitted as shown in the diagram below.



TS 60 with HEPA and Clearflow

Filter Cleaning



- | | |
|----------------------------|-----------|
| 1. Head with HEPA | 546317501 |
| 2. Extension (297) | 546317400 |
| 3. Clear Flow Filter | 546317200 |
| 4. Base assy, shaker & bin | 556314402 |

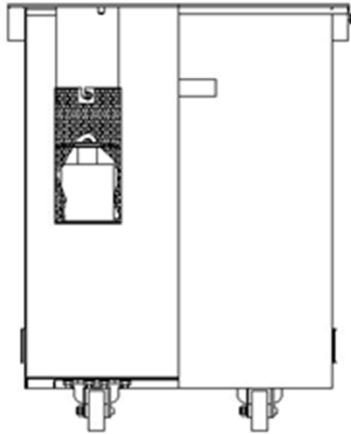
1. The Clear Flow filter may be cleaned on the machine by switching the machine off, operating the filter shaker approximately 10 times and allowing the dust to settle.
2. The Clear Flow filter may be periodically removed for cleaning if required by brushing/vacuum cleaning. This should be carried out as follows:-
 - a. Electrically isolate the machine prior to maintenance.
 - b. Operate shaker 10 times and allow dust to settle.
 - c. Access to the Clear Flow filter is by removing the motor head and extension piece, which is held in position by 2 toggle clips.
3. No maintenance can be carried out on the HEPA filter other than replacement
4. If replacing the HEPA filter ensure the supports are fitted as shown in the diagram above.

WET PICK UP

(Can be used with Swarf Basket & Stand)

Wet option assy 546339900

The vacuum cleaner contains a float valve that automatically closes when liquid reaches a predetermined level in the tank. This is indicated by a change in sound of the vacuum cleaner and cessation of pick-up. The cleaner should be turned off when the float valve operates and if foam or liquid is discharged.



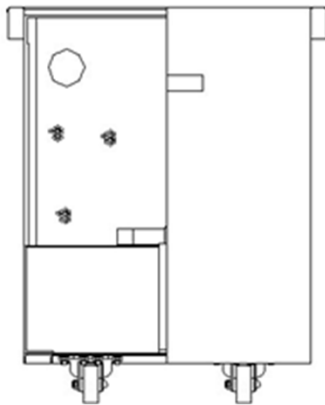
1. The float valve assembly must always be used when collecting liquids to prevent entry of liquids into the motor.
2. Use only 1 or 2 motors for wet pick up.
3. Do not leave hose end immersed in liquid being collected. Ensure that air is entrained as well as liquid (this helps prevent a whirlpool action of the liquid in the collection bin).
4. Frequently check the float valve is clean and free to operate.

SWARF BASKET

Swarf Basket (including stand) 546340100

Do not fill the swarf basket so full that it overflows or is too heavy to lift.

If the material being collected is very wet or contains liquid, a float assembly must be used.

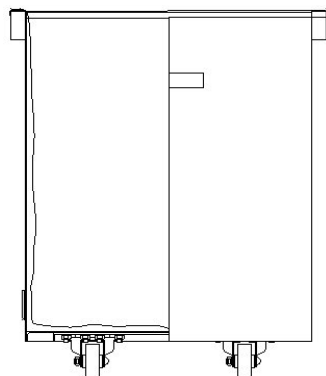


PLASTIC BAG COLLECTION

(light material collection only)

Plastic Bag (500g) 016724400

1. Fit the plastic bag into the collection bin and stretch the open end of the bag over the top of the collection bin.
2. Push the plastic bag over the stub pipe so that the stub pipe penetrates the plastic bag.(it helps if a hole or cut is made in the bag first)
3. The collection bin with plastic bag may be fitted to the machine in the normal way.
4. When emptying it may be easier, dependant on how full the bag is, to remove the stub pipe.



EC DECLARATION OF CONFORMITY



Innovation in Vacuum and
Conveying Technology

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UK/EC DECLARATION OF CONFORMITY

Quirepace Ltd Declares under its sole responsibility that the product (s) described below:-

Tower Range Model Description.	Part Number		
TS60SF 2X0.9kW 110V 1PH 50Hz	55 64050 00	Serial No	CA
TS60SF 3X0.9kW 110V 1PH 50Hz	55 64051 00	Serial No	CB
TS60SF 3X1kW 230V 1PH 50Hz	55 64052 00	Serial No	CC
TS60SFA 2X0.9kW 110V 1PH 50Hz	55 64053 00	Serial No	CA
TS60SFA 3X0.9kW 110V 1PH 50Hz	55 64054 00	Serial No	CB
TS60SFA 3X1kW 230V 1PH 50Hz	55 64055 00	Serial No	CC
TS60CF 2X0.9kW 110V 1PH 50Hz	55 64056 00	Serial No	CA
TS60CF 3X0.9kW 110V 1PH 50Hz	55 64057 00	Serial No	CB
TS60CF 3X1kW 230V 1PH 50Hz	55 64058 00	Serial No	CC
TS60CFA 2X0.9kW 110V 1PH 50Hz	55 64059 00	Serial No	CA
TS60CFA 3X0.9kW 110V 1PH 50Hz	55 64060 00	Serial No	CB
TS60CFA 3X1kW 230V 1PH 50Hz	55 64061 00	Serial No	CC

fulfil all the relevant provisions of Directive 2006/42/EC, 2014/35/EC and 2014/30/EU and use standard EN 60335-2-59.
The technical file may be obtained by national authorities on reasoned request to the above address.




R Pescott Operations and Engineering Director.

L Jury Managing Director

DATE 7-7-21

ORIGINAL INSTRUCTION MANUAL

For

INDUSTRIAL VACUUM CLEANER (Retain for future reference)



Model TS60 M Class

For Dry Collection

Part Number	Model Description	
55 64048 00	TS60 M CLASS	3x1.0kW/230/1/50-60Hz
55 64049 00	TS60 M CLASS	3x0.9kW/110/1/50-60Hz

Serial No.....

(To be completed by user)

**READ THIS INSTRUCTION MANUAL
BEFORE USING THE APPLIANCE**

We reserve the right to change the design without notice

IMPORTANT

PLEASE READ THESE INSTRUCTIONS CAREFULLY

This BVC Medium Duty Vacuum Unit is designed to handle a wide range of dry cleaning and debris collection operations in industrial areas. It is provided with individually switched motors to enable the operator to select the performance suitable for the task.

It is fitted with an indicator lamp, when the air velocity drops below 20m/s in the largest hose size (with all motors operating) it indicates that the filters are becoming blinded and require cleaning down / attention.

It should always be used with a Micro-Fibre bag with closure cap to allow safe collection of dust. The collection drum is fitted with a closure cap so that the inlet can be covered when in transport etc. to minimise dust escape.

WARNING Operators shall be adequately instructed on the use of these Vacuum Cleaners

Caution

This vacuum cleaner must not be used for the collection of high hazard dusts; it is designed as an 'M' Class Machine (medium class hazardous dust). It should not be used with flammable or explosive materials. It is not to be used or stored in wet conditions, i.e. outside in the rain, swimming pools etc.

Hearing protection should be worn when operating or when in close proximity to the operating vacuum cleaner.

This machine is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge.

Preparation for Use

Unpack and identify each item of equipment against the packing note.

Check that the details given on the rating plate are in accordance with your electricity supply.

IMPORTANT

Any electrical connections for this machine must be carried out by a competent electrician.

ELECTRICAL CONNECTIONS

The wires in the mains lead of this cleaner are coloured in accordance with the following code:

BLUE	-	Neutral
BROWN	-	Live

As the colours of the wires in this mains lead may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

If the 230v model is fitted with a plug of the 13A Type to BS1363 a 13-amp fuse should be fitted. This recommendation applies to the UK only.

If the 110v model is fitted with a 110v plug to BS196 a 30-amp fuse should be fitted.

If the 110v model is fitted with a 110v plug to BS4343 then the supply should be provided with a 32-amp protective device.

HOSES AND ACCESSORIES

The machine is supplied with hose(s) and accessories to the customer's individual requirements from the BVC range. Contact BVC sales for information and advice if further items are required. Tools and hose fit together using a twist and thrust movement. Joints are separated by a twist and pull movement.

NORMAL USE

- 1 The motors on this vacuum cleaner have individual switches. It is recommended that these are set to the off position when switching on at the mains and then switched on one at a time. This reduces high starting currents.
- 2 When the cleaner is being used with 'M' Class (Medium Hazard) dusts it must be used with a Micro-porous bag in place. Fit the bag by placing the opening over the inlet spigot within the drum and push along the spigot to a position 'near' the inside face of the drum. Remove the bag by pushing the opening off of the inlet spigot, a closure plate is provided on the bag which should then be shut to minimise dust release. Collection drum removal and fitting
- 3 Collection drum removal and fitting, ensure the transport locking device is fully open:

To lower the drum, stand behind the cleaner, pushing the handle down slightly and push the catch backwards with the thumbs. The handle will rise and the drum will descend to the ground. The drum can now be rolled away from the cleaner on its own castors.

To replace the drum, ensure the handle is in the raised position, push it back against the support pins with "rear" label facing the machine and raise it by pulling the handle down until it engages under the catch.

Noise Emission

Sound Power level LwA 85dB(A) plus level of uncertainty KwA 2dB(A), Sound Pressure Level LpA 80dB(A) plus level of uncertainty KpA @ 1M free field conditions in accordance with 60335-2-69:2012 Annex EE Noise Test Code.

Weight (empty)

66kg machine only.

Do

1. Check the mains lead and plug for damage prior to use.
2. Have a Competent Person check for electrical safety at least once a year or more frequently if used in an arduous environment.
3. Periodically clean the filter sleeves by using the filter manual shaker. This should be carried out with the motors turned off and the collection bucket fitted.
4. Always use Microporous collection bags when collecting medium hazardous dusts.
5. Ensure that the collection bucket fitted under the filter is emptied regularly and is not allowed to become completely full. The collection bucket and contents may be very heavy and should be lifted appropriately.
6. Keep trailing leads tidy, flat on the floor to avoid a trip hazard.
7. Tie back long hair and loose clothing when operating this vacuum cleaner.
8. Be careful when moving/operating on slopes use the locking devices on the castors as the unit may 'run away' when in use.
9. In the event of an accident or breakdown, disconnect the Vacuum Cleaner from the supply by removing the plug from the supply socket and contact BVC for repair. (Please empty and clean the machine). Contact the BVC Service Department who will arrange a suitable company for collection.
10. Only use spare parts provided by BVC.

Do Not

1. Pull the machine along by the mains lead.
2. Use for the collection of High Hazardous dusts.
3. Use for the collection of Medium or Light Hazardous dusts without the correct collection bag.
4. Use for the collection of flammable or explosive dusts.

CARE AND MAINTENANCE

HEPA

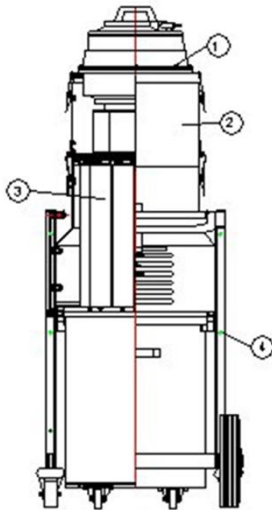
A HEPA filter is fitted between the motor head and the clean side of the filter separator to provide a secondary level of protection, this will prevent ingress of product into the exhauster.

SPARES

We recommend that stocks are retained of the following:

Item	Part No.	
K4 Micro Porous Bag	293002420	
Drum Seal	016724200	1.5 mtrs
HEPA Filter	556305300	
Clear Flow Filter Sleeves	536315400	16 off

TS 60 M Class with HEPA and Clear flow



- | | |
|----------------------------|-----------|
| 1. Head with HEPA 110v | 546317504 |
| Head with HEPA 230v | 546317505 |
| 2. Extension (297) | 546317400 |
| 3. Clear Flow Filter | 546317200 |
| 4. Base assy, shaker & bin | 556314402 |

Filter Cleaning

- 1 The Clear Flow filter may be cleaned on the machine by switching the machine off, operating the filter shaker approximately 10 times and allowing the dust to settle

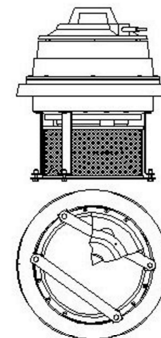
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NOTE RPE may be required:
The Clear Flow filter may be periodically removed for cleaning if required by brushing/vacuum cleaning. This should be carried out as follows:-

 - a) Electrically isolate the machine prior to maintenance.
 - b) Operate shaker 10 times and allow dust to settle.
 - c) Access to the Clear Flow filter is by removing the motor head and extension piece, which is held in position by 2 toggle clips.

- 3 No maintenance can be carried out on the HEPA filter other than replacement

- 4 If replacing the HEPA filter ensure the supports are fitted as shown in the diagram.



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TS60SFA 3X0.9kW 110V 1PH 50Hz	55 64054 00	Serial No	CB
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TS60CFA 3X0.9kW 110V 1PH 50Hz	55 64060 00	Serial No	CB
TS60CFA 3X1kW 230V 1PH 50Hz	55 64061 00	Serial No	CC

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