01 65823 00

Innovation in Vacuum and Conveying Technology



ORIGINAL INSTRUCTION MANUAL

For Dry Collection Only

READ THIS INST	TRUCTION MANUA	L BEFORE	USING THIS	APPLIANCE
SERIAL No:				
	(To	be completed	d by user)	



The model above carries this ATEX Certification Code

ATEX Certification Code

點CE ᠍ II 3 D Ex tc IIIC T100°C Dc

MODEL DESCRIPTION

IV40AH 0.9kW 110v 1ph 50/60 Hz - ATEX D22 IV40AH 1.0kW 230v 1ph 50/60 Hz - ATEX D22

PART NUMBER

55 64229 01 55 64229 02

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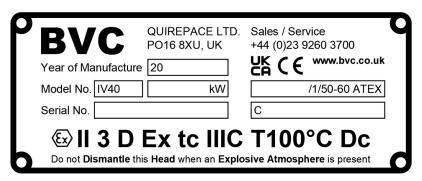
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IMPORTANT USER INFORMATION

IV40AH - ATEX

This appliance is a Type H Dry Pick-Up Vacuum Cleaner with triple filtration; collection is into a bag. It is intended for collecting dust and debris which may be hazardous to health if inhaled, ingested or in contact with the skin. (For full definition, see BS EN 60335-2-69 Part 2-69 3.104). It is designed to be used by an operator within six different environments:-

The ATEX certification code which is shown on the machines rating plate is made up as follows:



ONE

To pick up inert dust and debris in an atmosphere where inflammable dust, gases or vapours are never present.

TWO

To pick up inert and debris in a Dust Zone 22.

THREE

To pick up inert dust and debris that may ignite or explode in a Dust Zone 22.

FOUR

To pick up dust and debirs which are hazardous to health in an atmosphere where inflammable dust, gases or vapours are never present.

FIVE

To pick up dust and debris which are hazardous to health in a dust zone 22.

SIX

To pick up dust and debris which are hazardous to health that may ignite or explode in a Dust Zone 22.

- The **UKCA** mark (UK Conformity Assessed).
- C ∈ The CE mark (European Conformity Assessed).
- The distinctive community mark showing a product is suitable for use in an explosive dust atmosphere.
- **II** Equipment group II (surface industries)
- 3 Category 3 product
- D Explosive dust atmosphere
- **Ex** Explosion protection (letters below indicate type of protection)
- tc Protection concept (Enclosure ingress protection level IP6X with IIIC)
- **IIC** Equipment group Combustible dusts, Conductive Dusts
- T100°C Surface temperature for dust evaluation is less than 100°C
 - **Dc** Equipment protection level (Dust zone 22)

RISK ASSESSMENT

RESPONSIBILITY

If that vacuum cleaner is used for collecting dust and debris which may be hazardous to health if inhaled, ingested or in contact with skin, then a risk assessment must be carried out by a competent person to verify the suitability of the application.

The risk assessment will be the responsibility of the customer/end used and should take into account, but not be limited to, the characteristics of the material being collected, such as:

- The occupational exposure limit of the dust / debris being collected.
- The particle size of the dust and debris being collected.
- 3. The method of disposal.

RISK ASSESSMENT (ATEX)

If this vacuum cleaner is used for collecting flammable / explosive materials or within a zoned area, classified under the ATEX Directive 2014-34 EU, then a risk assessment must be carried out by a competent person to verify the suitability of the application.

Characteristics of the material:

- 1. Spark ignition sensitivity
- 2. Hot surface ignition sensitivity (cloud)
- Hot surface ignition sensitivity (layer)
- 4. Explosion severity
- 5. Flammable gas generation
- 6. Burning behaviour
- 7. Thermal instability
- 8. Chemical instability
- 9. Static electricity generation
- 10. Impact of collected material
- 11. The ATEX certification code for the appliance being assessed. (see the rating plate on the machine)

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- Unpack and identify each item of equipment against packing note.
- ▶ Check that the details given on the motor rating plate are in accordance with your electricity supply
- ▶ Check the rating plate against the ATEX zone, in which the machine and any accessories are to be used.

WARNINGS

- ▶ The appliance must only be operated by suitably trained and authorised personnel.
- ▶ This appliance or the accessories must not be modified.
- ▶ This appliance must not be stored or used in wet conditions i.e. outside in the rain.
- ► The filtration system of this appliance must only be configured as shown in these instructions
- ▶ When collecting dust or debris that may ignite or explode, empty the cleaner after every use
- ▶ The earth path continuity between the pick-up nozzle and the electrical earth of the fixed electrical should be checked (should be <800 meg ohms) by a competent person at regular intervals and documents records to be kept of these checks
- ► This machine must not be installed as a fixed extraction system and/or run unattended
- ▶ Do not pull the machine along by flexible cord
- ▶ Do not restrict the motor head or coil the lead around the motor head as this could restrict the by-pass cooling airflow and cause overheating of the motor
- ▶ Do not allow the dust collecting bag (K4 Bag) to become so full as to reduce the pick up effectiveness of the cleaner
- ▶ Only use the dust collecting bag (K4 Bag) once
- ▶ This appliance must only be repaired by SUITABLY TRAINED and authorised personnel and only genuine BVC spare parts are to be used.
- ▶ Ensure that the product being collected is suitable for vacuum cleaning
- ► Equipment shall not be used where aggressive substances may be present
- ▶ Noise emission 75dB@ @ 1m
- ▶ Weight (Empty) 18KG Machine only 26KG Complete with trolley.

ELECTRICAL SUPPLY



WARNING - THIS APPLIANCE MUST BE EARTHED



The electrical connections of these machines must be carried out by a competent electrician. The wires in the mains lead of this cleaner are coloured in accordance with the following:

- 1 Green & Yellow
- 2 Blue = Neutral (N)
- **3** Brown = Live (L)

ELECTRICAL CONNECTIONS FOR EARTHED APPLIANCE 110V APPLIANCE - 55 65229 01

The 110V appliance is rated at 0.9kW in accordance with BS EN 60335-2-69.

The 110V motor used on this appliance is a non-sparkling electronically commutated brush less motor and takes a maximum running current of 13 Amps.

The supply should be fitted with a fuse/protective device suitable for this current demand.

ELECTRICAL CONNECTIONS FOR EARTHED APPLIANCE 230V APPLIANCE - 55 65229 02

The 230V appliance is rated at 1.0kW in accordance with BS EN 60335-2-69.

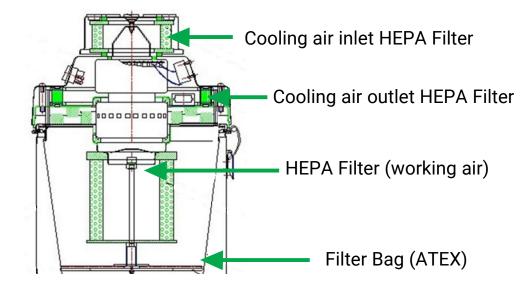
The 230V motor used on this appliance is a non-sparkling electronically commutated brush less motor and takes a maximum running current of 9 Amps.

The supply should be fitted with a fuse/protective device suitable for this current demand.

PREPARATION FOR USE

This machine is fitted with working air double filtration. A filter bag assembly ATEX (cloth) and a HEPA filter.

RVC



The use of a micro-porous collection bag is optional.

This filtration system should be visually checked prior to using the machine.

Release the toggle clips which lock the motor head assembly to the drum, remove motor head of machine and check that the HEPA filter (working air) is securely attached to the underside of the motor head.

Remove the filter bag assembly ATEX (Cloth) and check that the collection bag has been correctly fitted over the hose entry spigot (if used).

Refit the filter bag assembly ATEX (Cloth) and motor head and attach the toggle clips.

SPECIAL CONDITIONS FOR SAFE USE

DO

- 1. Check the mains lead and plug for damage prior to use
- 2. Have a competent person, or return the machine to BVC for electrical safety checks at least once a year or more frequently if used in an arduous environment. (Please empty and clean the machine prior to return). Contact the BVC Service Department who will arrange collection.
- 3. In the event of an accident or breakdown, disconnect the Vacuum Cleaner from the supply by removing the plug from the supply socket and return to BVC for repair. (Please empty and clean the machine prior to return). Contact the BVC Service Department who will arrange collection.
- 4. Only use spare parts provided by BVC.
- 5. Regularly empty the container before it becomes too full and the pickup effectiveness of the cleaner is reduced.
- 6. Clean the cloth filter bag frequently to maintain pick up effectiveness.
- 7. Keep trailing leads tidy, flat on the floor to avoid trip hazard.
- 8. Vacuum clean the motor cooling air inlet filters (annular slot at top of motor head) once a week or more often in very dusty atmospheres.
- 9. Tie back long hair and loose clothing when operating this vacuum cleaner.
- 10. Be careful when moving/operating on slopes as the unit may 'run away' when in use.

DO NOT

- 1. Pull the machine along by the mains lead.
- 2. Wrap the mains lead around the head as it may restrict the by pass cooling airflow causing the motor to overheat.
- 3. Cover the motor head as this could restrict cooling air and overheat the motor.
- 4. Use for the collection of highly hazardous dusts or flammable or explosive dusts.

NORMAL USE - OPERATION

Position the vacuum cleaner adjacent to the area to be cleaned. Remove the cap and fit the hoses/ tools applicable for the cleaning task to the inlet on the collection drum.

If the vacuum cleaner is supplied with a trolley, the drum is placed in the retaining ring of the trolley, with the inlet position over the castor wheel.

2

Fully uncoil the electrical supply lead, placing it carefully flat on the floor to minimise the trip hazard. Then, plug it into a suitable supply socket and switch on.

Ensure the K4 collection bag and the filter bag assembly ATEX (Cloth) are correctly fitted.

4

Hold the cleaning tool, switch the vacuum on via the switch on the vacuum cleaner head and proceed to clean the area as required.

When the area has been cleaned switch the machine off at the vacuum head.

6

Switch off the supply, remove the plug from the supply socket and coil the cable up neatly. Remove the cleaning hose and tools

HOSES AND ACCESSORIES

This machine must only be used with hose(s) and accessories form the BVC ATEX appropriate range (See next page). Contact BVC sales for information and advice if further items are required.

The machine has a threaded inlet on the drum, Attach the anti-static hose assembly to the drum via the threaded connection. Connect the stainless-steel bent hose end and wands to the cuff end of the hose assembly

RVC

SPARES - WE RECOMMEND STOCK LEVELS ARE RETAINED FOR THE FOLLOWING ITEMS:

DESCRIPTION	PART NUMBER	QUANTITY
FILTER BAG ASSY - ATEX (CLOTH)	55 56224 03	1 OFF
K4 MICROFIBER BAG	29 30024 20	5 OFF
K4 DISPOSABLE PAPER BAG	29 30024 10	10 OFF
SELF ADHESIVE SEALING LABEL	53 63438 00	10 OFF
HEPA FILTER (WORKING AIR)	55 61796 02	1 OFF
HEPA FILTER (COOLING AIR - INLET)	55 60690 01	1 OFF
HEPA FILTER (COOLING AIR - OUTLET)	53 6422400	1 OFF

OPTIONS - THE FOLLOWING OPTIONS ARE AVAILABLE:

DESCRIPTION	PART NUMBER	QUANTITY
IV40 Truck Assembly - ATEX	55 60183 01	1 OFF
38mm Crevice Tool S/S - 460mm	29 03807 00	1 OFF
38mm Floor Tool S/S - 410mm	55 64130 03	1 OFF

ANTISTATIC TOOLS

IV40 - ATEX - 38MM

PART NUMBER	IMAGE	QTY	DESCRIPTION
29 03801 00		1 1 100 100 100 100 100 100 100 100 100	Hose Standard Duty 3.0m PVC Anti-Static
29 03801 01		1	Hose Standard Duty 6.0m PVC Anti-Static
29 03802 00		1 (ATEX Bend 30 Degree Stainless Steel
29 03803 00		1	ATEX Extension Arm 470mm Stainless Steel
29 03808 10		1	ATEX 38mm Crevice Tool Anti- Static 300mm
29 03807 10		1	ATEX 38 x 70mm Dusting Brush Anti-Static
29 03806 10		1	ATEX 38 x 100mm Dusting Brush Anti-Static
29 03817 00		1	ATEX 38 x 375mm Heavy Duty Floor Tool with Brushes Anti- Static

DISPOSAL AND DECONTAMINATION

DEBRIS DISPOSAL

For operations carried out within a contaminated area:
This appliance contains dust hazardous to health, emptying and maintenance operations, including removal and renewal of dust collection bag, shall only be carried out by authorised personnel wearing suitable personal protection. DO NOT operate without the full filtration system fitted.

Disconnect the hose, fit the cap on the hose entry spigot, unscrew the toggle clip locking screws and remove the motor head. Take care not to damage HEPA filter (working air) which is fitted to the underside of the motor head. Remove the filter bag assembly ATEX (Cloth) and carefully release K4 bag from the hose entry spigot and lift out of the drum assy. Seal the K4 bag inlet with a self adhesive sealing disc. The K4 bag should be immediately placed in a suitably labelled impervious plastic bag and this bag sealed and disposed of in accordance with the current regulations. Fit a new K4 bag over the hose entry spigot inside drum assy. Refit the filter bag assembly ATEX (Cloth), the motor head and tighten the toggle clip locking screws.

DECONTAMINATION OF THE MACHINE

Decontamination operations should only be carried out by competent authorised personnel equipped with suitable personal protection:

- Before removing the accessories/machines from the contaminated area, the accessories should be cleaned externally with type H vacuum cleaner.
- They should then be cleaned with an tack cloth, sealed at each end and sealed in a clear impervious bag. The bag should carry an appropriate warning label.
- 3. The external surfaces of the bag should then be cleaned with a tack cloth prior to removing the accessories from the contaminated area.
- 4. The machine should be cleaned externally with itself. The paper bag and its contents should be removed and disposed of in accordance with the method described in debris disposal above.
- 5. The machine should then be cleaned externally with a tack cloth.
- 6. The machine should be sealed in a clear impervious bag. The bag should carry an appropriate warning label.
- 7. The external surface of the bag should then be cleaned with a tack cloth prior to removing the machine from the contaminated area.

MAINTENANCE



DO NOT Carry out maintenance in a potentially explosive atmosphere. Always disconnect the machine from electrical supply prior to carrying out any maintenance. (Safety First Must Apply)



REPAIR This appliance must only be repaired by SUITABLY TRAINED and authorised personnel and only genuine BVC parts are to be used.

CHECKING / REPLACING HEPA FILTERS A good rule is to check the HEPA filters every six months.



HEPA FILTER (WORKING AIR) Release the toggle clips and carefully remove motor head and the filter bag assy ATEX (Cloth). Unscrew and remove the bag spreader and lift off the HEPA filters (working air).

Fit a new HEPA filter (working air), refit the bag spreader. Check for security of seals. Fit a new collection bag if required on the hose entry spigot, replace the filter bag assy ATEX (Cloth) and locate motor head on the drum, fasten the toggle clips.



COOLING AIR INLET HEPA FILTER Remove the retaining screw from the Cooling Air inlet HEPA filter cover and remove the cover. Lift off the Cooling Air inlet HEPA and dispose of in an impervious plastic bag in accordance with current regulations. The bag should carry an appropriate warning label.

Clean inside the head with an adhesive wipe. Fit a new Cooling Air inlet HEPA filter, replace cover and secure with the retaining screw.



COOLING AIR OUTLET HEPA FILTER Remove the five retaining screw and their securing washers, lift the cover clear taking care not to strain the interconnecting wiring. Disconnect the plug and socket in the interconnecting wiring and the earth connection. Remove the Cooling Air Outlet HEPA filter.

Clean the inside of the Motor Cover and any exposed surfaces with an adhesive wipe. Fit a new Cooling Air Outlet HEPA filter, re-connect the interconnecting wiring and replace the Motor Cover and the five retaining screw and their securing washers.



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UKCA/EC DECLARATION OF CONFORMITY

(INDUSTRIAL VACUUM CLEANERS)

Manufacturer: - Quirepace Ltd, Pennant Park, Fareham, Hants, PO16 8XU

Authorised Representative: - Headlands Consulting Limited, Carrow Castle, Geevagh, Boyle, Co Roscommon, F52 FC89, Ireland

We QUIREPACE LTD DECLARE UNDER OUR SOLE RESPONSIBILITY THAT THE PRODUCT (S) DESCRIBED BELOW: -

IV40AH 0.9kW 110V 1PH 50Hz ATEX D22	55 64229 01	Serial No:	HG
IV40AH 1.0kW 230V 1PH 50Hz ATEX D22	55 64229 02	Serial No:	НН
IV40A 0.9kW 110V 1PH 50Hz ATEX D22	55 64229 03	Serial No:	Н
IV40A 1.0kW 230V 1PH 50Hz ATEX D22	55 64229 04	Serial No:	HJ

UKCA Regulations:

Supply of Machinery (Safety) Regulations 2008

Electromagnetic Compatibility Regulations 2016

Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016

To which this declaration relates fulfil(s) the requirements of the following legislation and is/are in conformity with the listed standards:

BS EN 60335-1:2012+A15:2021 Household and similar electrical appliances.

Safety - General requirements.

BS EN 60335 - 2 - 69: 2012 Particular requirements, for wet and dry vacuum cleaners,

including, power brush for industrial and commercial use.

BS EN 61000 - 6 - 4: 2019 Electromagnetic compatibility (EMC) - Generic standards.

Emission standard for industrial environments

BS EN ISO 80079-36:2016 Explosive atmospheres - Non-electrical equipment for

explosive atmospheres. Basic method and requirements

BS EN ISO 80079-37:2016 Explosive atmospheres - Non-electrical equipment for

explosive atmospheres. Non-electrical type of protection constructional safety "c", control of ignition sources "b".

BS EN IEC 60079-0:2018 Explosive atmospheres. Equipment. General requirements

Certification codes:

Dust Environments

という II 3 D Ex to IIIC T100°C Dc

The product fulfils the following relevant provisions:

ATEX Directive 2014/34/EU Machinery Directive 2006/42/EU

Electromagnetic Compatibility Directive 2014/30/EU

G Hall / M Brown Senior Engineers

R Pescott Managing Director

DATE 15/04/2024 Rescott Managing Direction

