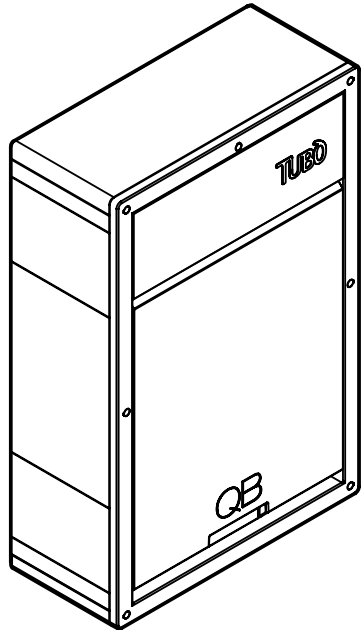


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User, installation and maintenance manual WALL-MOUNTED QB



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GENERAL WARNINGS

Leggere e conservare il manuale

Read and conserve this manual

The installation, use and maintenance manual is an integrating and essential part of the central power unit and therefore must be read with utmost attention as it contains important indications on operator safety, foreseen operation and proper maintenance of the central power unit.

WARRANTY

Warranty terms within the European Union (EU)

AERTECNICA guarantees the central vacuum unit for a period of 24 months starting from the documented (invoice or tax receipt) date of purchase.

If there is no documentation proving the purchase date, the 24-month period will start from the date on which the central vacuum unit was sold by AERTECNICA S.p.A. to its Dealers.

The warranty conditions are those envisaged in the current legislation of the European Union (EU).

Should any disputes arise, the Court of Forlì-Cesena (Italy) shall have exclusive jurisdiction and Italian law will apply.

Warranty terms outside the European Union

For countries that are not part of the European Union, the warranty shall be the responsibility of the importing company and the warranty conditions shall be those foreseen by the applicable regulations in the country of import.

NOTE

Aertecnica reserves the right to modify the product and the related technical documentation without incurring any obligation to third parties.

No part of this manual may be reproduced, copied or distributed in any manner without written authorisation from Aertecnica.



This manual is printed on 100% recycled paper.

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SAFETY

The operator must accurately respect the following operating instructions in order to guarantee the safety of persons and the functioning of the central power unit.



DANGER: means that caution must be taken in order to avoid events that may cause serious accidents to persons or health injuries.



ELECTRICAL DANGER: make sure that the central vacuum unit is connected via its power cable to a standard compliant earthing system. The electricity mains and relevant power socket must be appropriate to the rated power of the central vacuum unit. For outdoor installations, the power socket must have an appropriate IP protection.



DANGER OF DAMAGE TO CENTRAL POWER UNIT: respect the indications in section INTENDED USE and PROHIBITED USE to avoid damaging the central power unit.



INHALATION OF HAZARDOUS ELEMENTS AND DUST: protect the respiratory system through the use of protective devices when emptying the dust container and replacing the filter cartridge in order to avoid breathing in collected dust.



DUST SENSITIVE: means that hand protection must be worn by operators sensitive to the action of collected dust.

CERTIFICATIONS

AerTECNICA S.p.A is a company certified with:



Quality system
UNI EN ISO 9001
Environmental management system
UNI EN ISO 14001



Product certification for the
single-phase central power unit
range for the residential market
sector



IDENTIFICATION

This use and maintenance manual is inherent to the central power unit:

SERIES: QB
MOD: Q200

MANUFACTURER

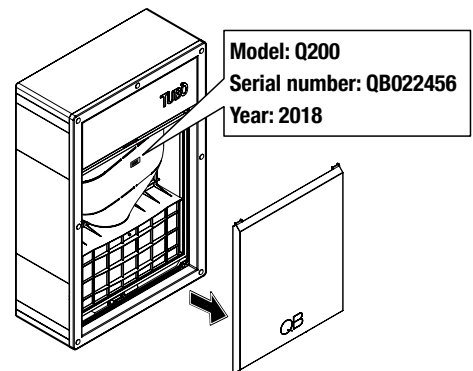
AERTECNICA S.p.A.
Via Cerchia di Sant'Egidio,760
47521 Cesena (FC) ITALY
Tel. +39 0547/637311
Fax +39 0547/631388
info@aertecnica.com
www.aertecnica.com

Technical service

For assistance, spare parts or information on the central power unit visit the website: www.aertecnica.com

To simplify customer assistance, please provide the following data on the label applied to the removable body of the QB central power unit:

- central power unit model
- serial number
- year of manufacturing

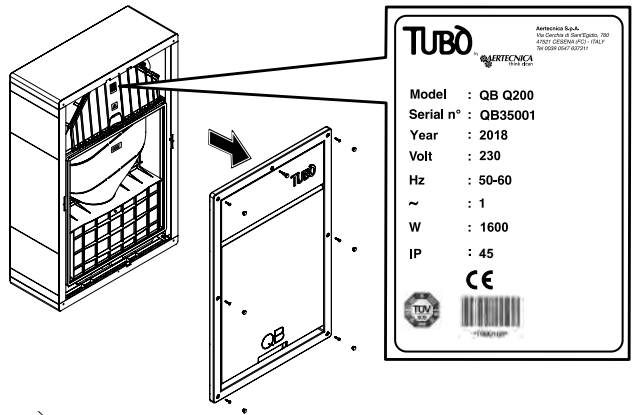


Model: Q200
Serial number: QB022456
Year: 2018

IDENTIFICATION PLATE

The identification plate of the Wall-mounted QB is applied to the cover of the motor compartment, which can be accessed by specialised personnel after disassembling the frame.

The identification data is shown in the figure at the side.



DESCRIPTION OF THE TUBÒ VACUUM SYSTEM POWER UNIT

The central power unit purchased is the main element of TUBÒ, the advanced vacuum system power unit by Aertecnica.

The TUBÒ system comprises a central power unit, vacuum sockets installed in the building walls, flexible hose that is inserted into the vacuum sockets depending on the area to clean, and a set of cleaning accessories able to meet all household needs.

A network of plastic hoses installed underfloor and inside walls constitutes the dust inlet line connected to the central power unit.

The vacuumed dust reaches the central power unit; coarse dust falls into the dust container while the filter traps suspended dust; micro-dust (invisible to the eye and not filtered by the cartridge) are expelled outside by means of an air exhaust line to assure ambient hygiene and avoid recirculation of dust inside the house.

The system must only be used by one operator.
The system must only be used with the hose and cleaning accessories connected to Aertecnica sockets installed in the building.

The recommended flexible hose is 7 m. long and makes it possible to cover a circular surface of 30 m² (reduction of circumference radius is due to furniture obstacles that forces the hose to follow a curved path). The dust container must be replaced routinely (2-3 times per year; see section DUST CONTAINER REPLACEMENT).

The filter cartridge must be replaced with a new one every 2-3 years (in relation to use; see section FILTER CARTRIDGE REPLACEMENT).

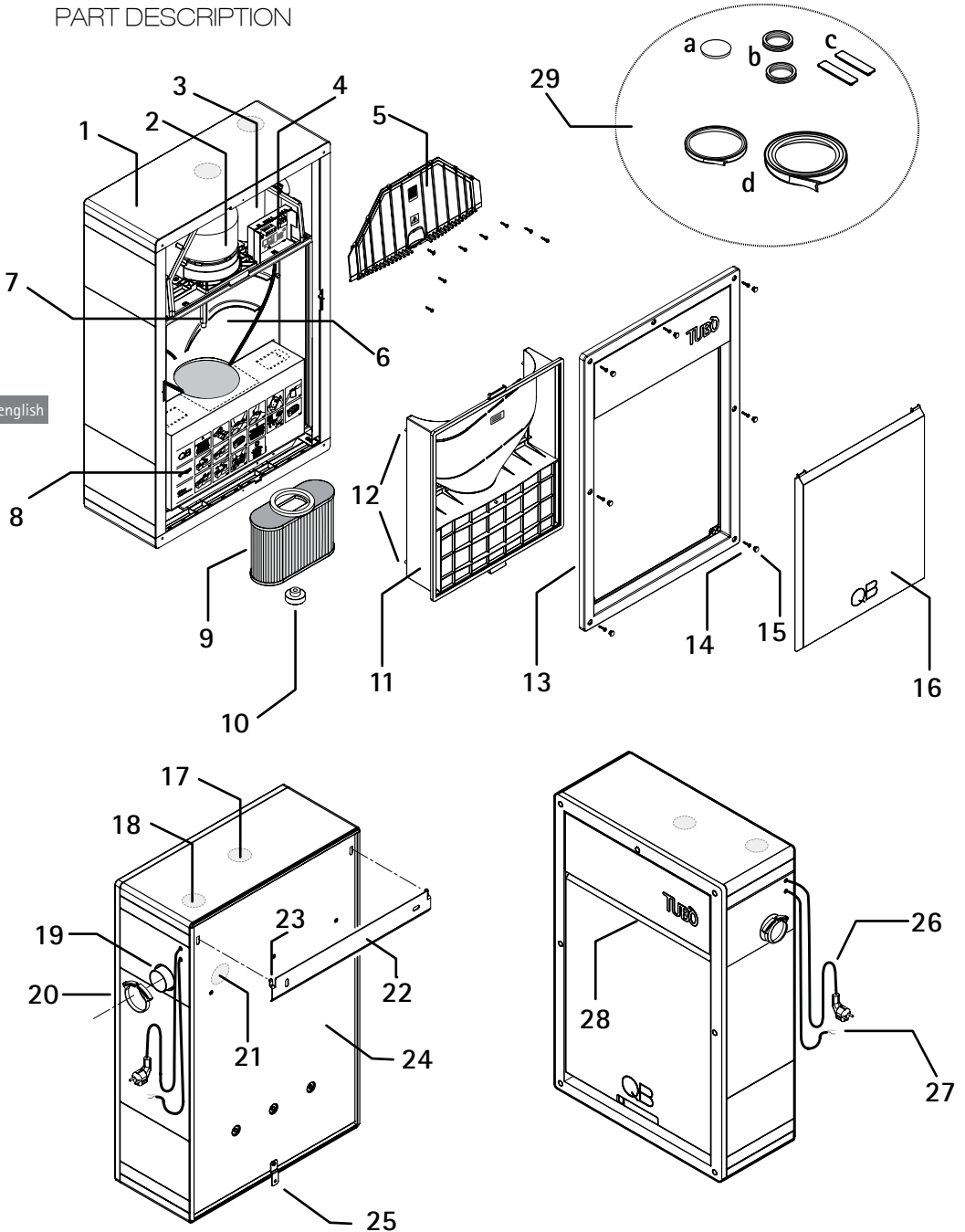
The filter cartridge may be regenerated by washing it routinely (in relation to use; see section FILTER CARTRIDGE REGENERATION).

These indications are purely indicative for a normal use of the centralized vacuum system. These intervals of time are reduced for intensive use of the system, or in cases of abundant dust.



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PART DESCRIPTION



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Parts legend

- 1 - Top cover
- 2 - Turbine motor with soundproofing
- 3 - Motor compartment
- 4 - Circuit board with protection fuse
- 5 - Motor compartment cover with fixing screws
- 6 - Cyclonic dust collection compartment
- 7 - Filter cartridge fixing pin
- 8 - Eco-friendly cardboard dust container
- 9 - Washable polyester filter cartridge
- 10 - Filter cartridge tightening knob
- 11 - Central vacuum unit body, removable part
- 12 - Magnetic coupling system
- 13 - Frame in thermoplastic material
- 14 - Fixing screws
- 15 - Removable caps for frame
- 16 - Flap in thermoplastic material
- 17 - Ducted air expulsion (configuration)
- 18 - Top dust inlet (configuration)
- 19 - Side dust inlet
- 20 - Hose clamp
- 21 - Rear dust inlet (configuration)
- 22 - Wall fixing bracket
- 23 - Fixing pin
- 24 - Metal support structure
- 25 - Rotating bracket
- 26 - Central vacuum unit power cable 230V
- 27 - 12V socket activation line
- 28 - Direct air expulsion from the flap
- 29 - Provided accessories:
 - a - Hole covering caps of top cover
 - b - Dust inlet and air expulsion seals
 - c - Air expulsion caps motor compartment
 - d - Adhesive seal for electric protection (see Installation Note on page 13)

TECHNICAL FEATURES

Q200 model - Code CM330Q		
Power supply	Volt (Vac)	230
Motor power	Watts (W)	1.600
Frequency	Hz	50/60
Electric protection*	IP	IP45 / IP55*
Motor rpm	rpm	46.480
SOFT START starting		YES
Turbine stages	n°	1
Socket power supply	Volt (Vcc)	12
Vacuum power	Air Watts	653
Maximum air flow rate	m ³ /h	195
Maximum vacuum	mbar	313
Noise	dB	55,8
Filter cartridge surface	cm ²	6500
Filter cartridge material		POLYESTER
Dust container capacity	litres	13
Overall dimensions (LxPxH)	cm	55 x 25 x 83,2
Weight (wall-mounted enclosure + QB central vacuum unit)	kg	22
Dust inlet with lateral line	∅	50
Dust inlet with line from above	∅	50
Dust inlet with rear line	∅	50
Exhaust aria	∅	50
Compatible with CMT800 (optional)		YES
Compatible with CM8890 (optional)		YES
Compatible with PRATICO system**		YES

* The electrical degree of protection (IP) measures the protective value of the central power unit against external atmospheric agents. The value is calculated while the central power unit is installed outdoors of the house and with door shut. The values are: IP55 with channelled air exhaust by hose; IP45 frontal air exhaust from the door of the central power unit.

** QB power unit is compatible with a single PRATICO socket and with a length piping ≤ 10 meters

INTENDED USE

The central power unit was designed to be connected to tubing able to vacuum domestic dust.

The operator uses the flexible hose and cleaning accessories connected to the vacuum sockets.

The system must only be used by a single operator to only vacuum dust or minuscule solid particles, using only one vacuum socket at a time in order to secure adequate efficiency.

The dust container must be replaced with a new one when full.

The filter cartridge must be routinely checked depending on the use of the central vacuum system. It can be regenerated or replaced as indicated in the maintenance chapter.

Always use original Aertecnica spare parts.

PROHIBITED USE

- Do not vacuum burning cigarettes, scorching cinders or burning materials. These materials may cause a fire and causing damage to the hosing or central power unit.
- Do not vacuum up cloths, rags, fabrics or textiles in general. This material may clog hoses or damage the central power unit.
- Do not allow children to play with the vacuum sockets, opening and closing them repeatedly or inserting toys or solids of inadequate size.
- Do not use the central vacuum system while the central power unit is on and with no filter installed.
- Do not obstruct the exhaust line of the central vacuum system.
- Do not obstruct the air exhaust openings that allow motor cooling.
- Do not use the cleaning accessories to vacuum body parts.
- Do not install the central power unit in an environment classified as ATEX as per European Union standards.
- Always use original spare parts. Their use may forfeit the warranty.

UNAUTHORISED USE

Do no vacuum liquids or water soaked materials or very moist: liquid vacuuming can be done only with Aertecnica liquid vacuum (code AP372; code AP373).

- Do not vacuum dust using more than one vacuum socket at the same time.
- Never leave the hose and cleaning accessories connected to the system unattended whilst the central power unit is on.

OPERATOR

The operator must not present limited physical, sensory or mental capabilities; the operator must not be an unskilled person or a person with no knowledge of the product unless the aforementioned is under the supervision of somebody responsible for their safety or has received instructions with regards using the central power unit.

The operator must always be careful when using the system in order to avoid tripping over the hose or cleaning accessories connected to the system, and must extend these same personal safety measures to the persons which may be present in the area at the same time.

The operator in charge of maintenance of the central power unit must not suffer dust allergies.

The operator must be over the age of 14 years.

Cleaning and maintenance of the central vacuum cleaner and cleaning accessories shall not be made by children without adult supervision.

RESIDUAL RISK

Routine maintenance may not be performed by individuals having dust allergies.



DUST ALLERGIES



Put on personal protection gear before emptying the dust container or replacing/cleaning the filter cartridge.



USE ONLY ORIGINAL AERTECNICA SPARE PARTS

START / STOP

CENTRAL POWER UNIT START

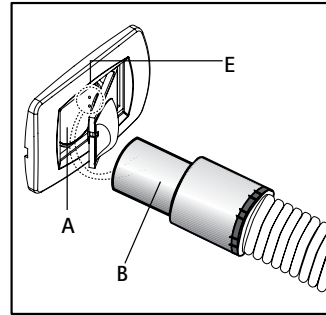
The central power unit is always powered and engages when the operator starts up the unit with the flexible hose (TYPE 1 or TYPE 2) or with automatic engaging vacuum sockets.

With the flexible hose **TYPE 1**:
flexible hose with activation union: the central power unit is started up by inserting union (B) inside the vacuum socket (A).

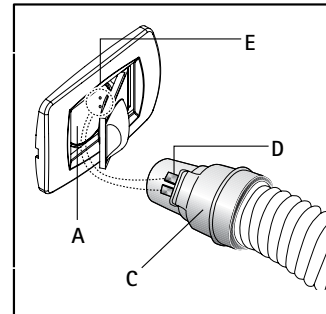
With the flexible hose **TYPE 2**:
flexible hose with switch: the central power unit is started by pressing the switch on the hose. Insert the hose-socket union (c) with the coupling plates (D) in correspondence of the contacts (E) inside the socket (A).

CENTRAL POWER UNIT OFF:

with the flexible hose TYPE 1 remove the tube from the vacuum socket (A);
with the flexible hose TYPE 2 move the switch to OFF.



TYPE 1



TYPE 2

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NOTE

In the vacuum socket models Air Active, Open and in sockets NEW AIR with micro-switch (NA699) the central power unit starts when the socket door is opened.

OPENING THE PACK

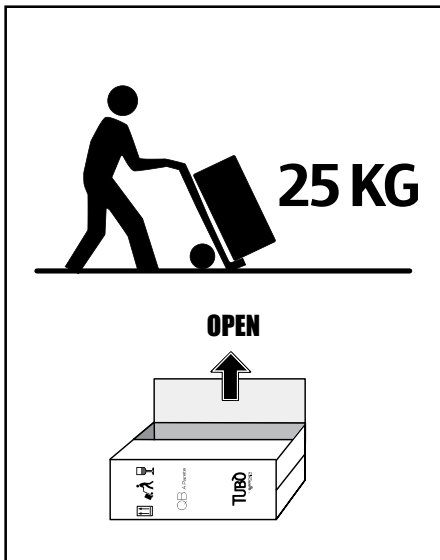
The central power unit is delivered inside cardboard packaging to make it easier to transport.

Do not remove the pack until installation to avoid impacts or damage.

NOTE

Before installing the central power unit QB check the integrity of the central power unit and of the accessories supplied.

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NOTE



PACK DISPOSAL

The pack elements of the central power unit are solid inert materials that must be disposed of in accordance to the laws on such matter.

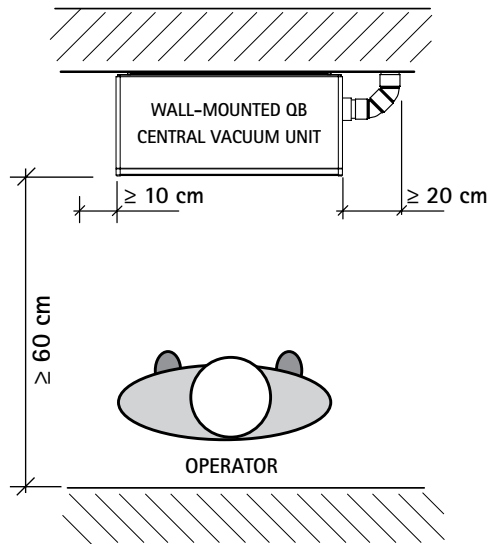
INSTALLATION LOCATION

The central power unit must be installed in well-ventilated service rooms (for example, closets, garages, cellars or attic rooms) protected from significant climate changes.

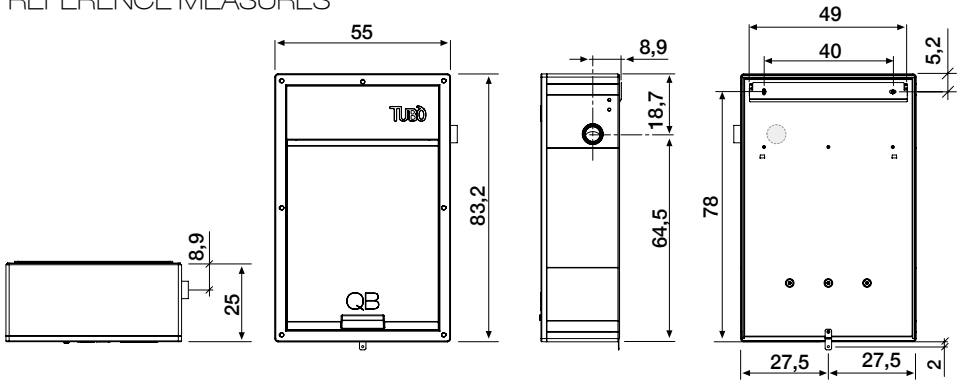
The high level of electrical protection and resistance to the elements allows for the extension of installation of the central power unit to outdoor environments, on balconies, loggias and verandahs.

The room must be adequately large (minimum space in front of the central vacuum unit $\geq 60\text{cm}$) to allow installation and maintenance work.

The installation area must be sufficiently lit (minimum 300 lumen) to allow operations of routine maintenance.



REFERENCE MEASURES



CONFIGURATION FOR TUBÒ VACUUM CLEANER SYSTEM

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ELECTRICAL CONFIGURATION

- A - schuko electrical socket for 230V power
- B - electrical box for vacuum sockets 12V
- C - 12V line for vacuum sockets

DUST LINE CONFIGURATION

The wall-mounted QB central vacuum unit can be connected to the dust line of the system from one of the following inputs:

- 1 - side dust inlet - standard
- 2 - dust inlet with line from above
- 3 - dust inlet with rear line

Check the table on page 12 before installing the central vacuum unit.

D - generic dust line coming into the central vacuum unit

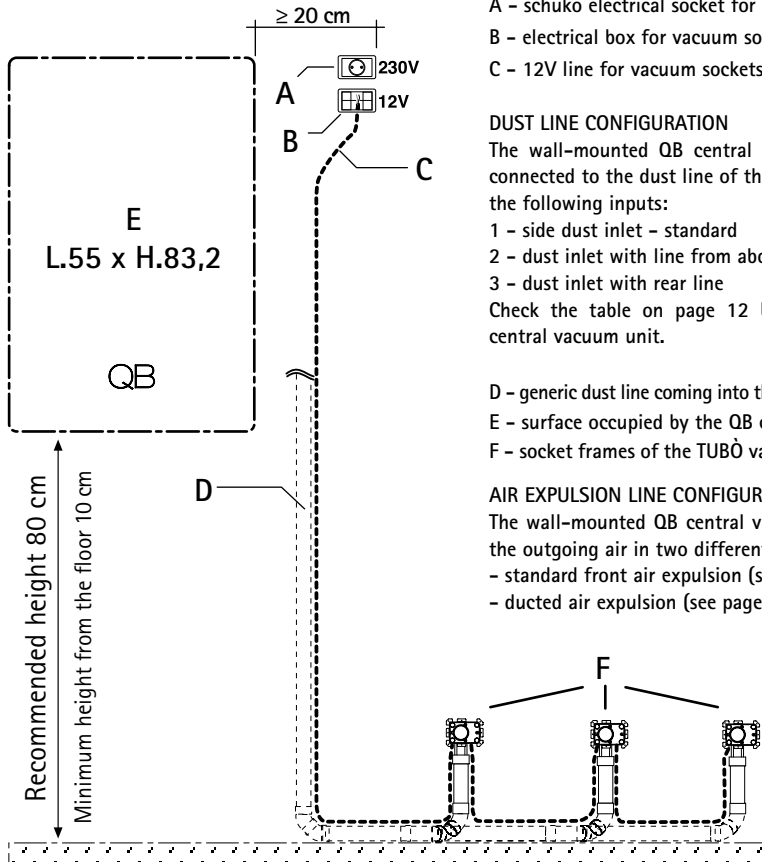
E - surface occupied by the QB central vacuum unit

F - socket frames of the TUBÒ vacuum cleaner system

AIR EXPULSION LINE CONFIGURATION

The wall-mounted QB central vacuum unit can duct the outgoing air in two different ways:

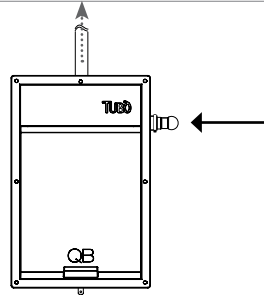
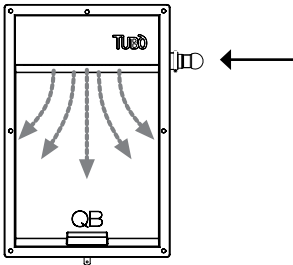
- standard front air expulsion (see page 22)
- ducted air expulsion (see page 23)



WALL-MOUNTED QB CENTRAL VACUUM UNIT INSTALLATION

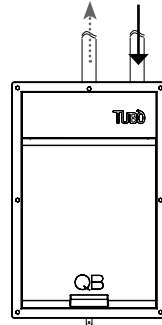
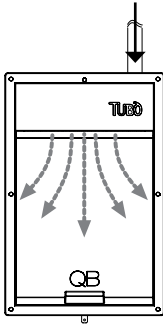
The wall-mounted QB central vacuum unit can be installed on masonry or plasterboard walls.

POSSIBLE CONNECTIONS WITH THE DUST INLET LINE AND THE AIR EXPULSION LINE



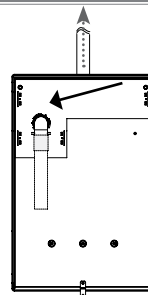
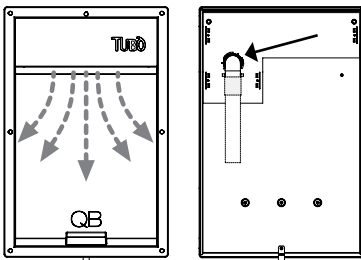
A Side dust inlet STANDARD
Front air expulsion STANDARD

D Side dust inlet
Ducted air expulsion



B Dust inlet from the top
Front air expulsion STANDARD

E Dust inlet from the top
Ducted air expulsion



C Rear dust inlet*
Front air expulsion STANDARD

F Rear dust inlet*
Ducted air expulsion

*Installation required of code CF330Q - Rear installation kit for wall-mounted QB in thermoplastic material

NOTE FOR EXTERNAL INSTALLATION

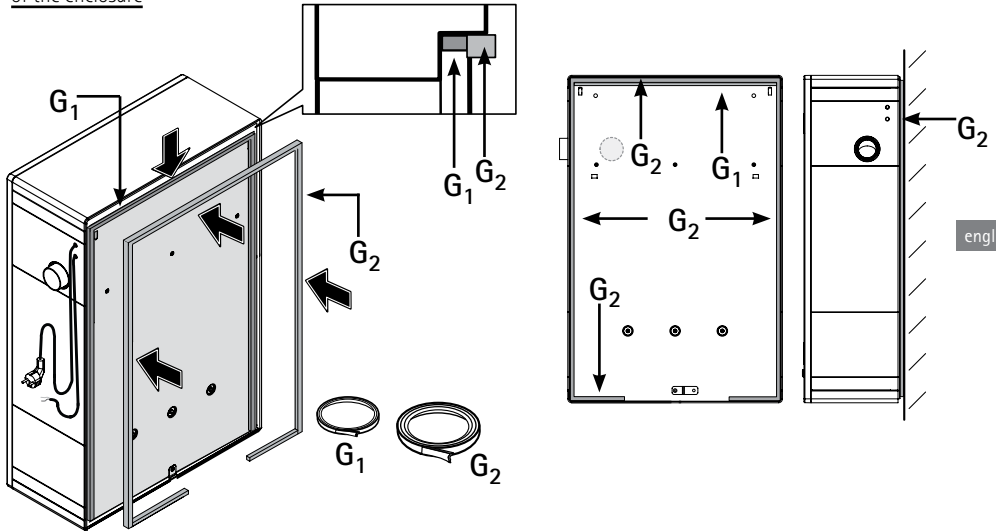
WATERPROOF PROTECTION SEAL



If the QB central vacuum unit is installed outside, you must apply the two seals (**G1** and **G2**) adhering to the perimetral edge of the plastic surface of the enclosure

NOTE

To guarantee the IP degree it is necessary to ensure the gasket to the wall surface. With surfaces not perfectly smooth, using suitable insulators to secure the wall seal



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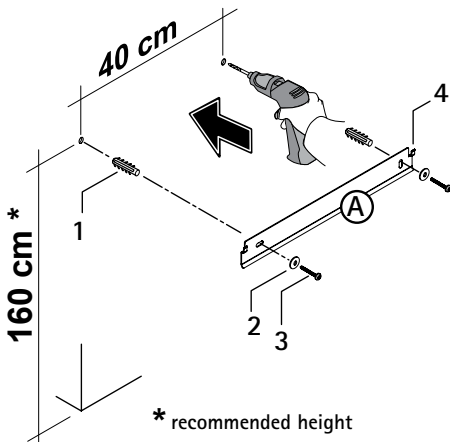
MOUNTING THE QB CENTRAL VACUUM UNIT WITH WALL-MOUNTED BRACKET

STANDARD OR TOP DUST INLET - CONNECTIONS A - B - E - D

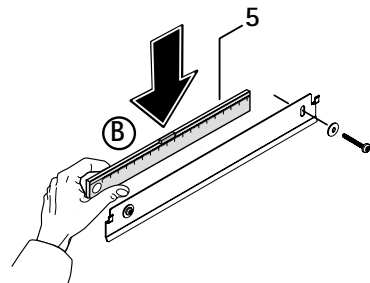
1 - Place the bracket on the wall (A) and drill holes in the wall for the plugs of adequate size (1).
Check that the bracket is level (B).

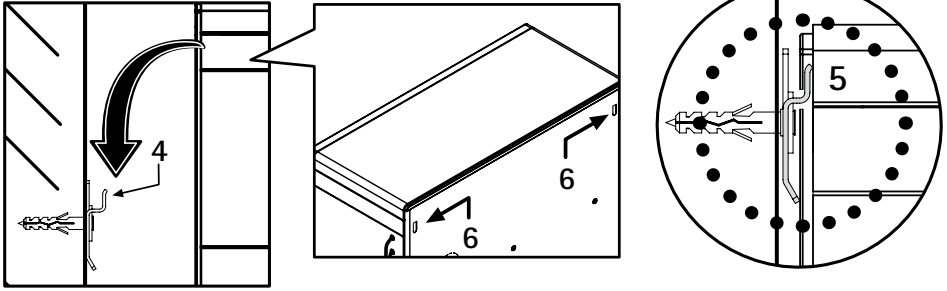
LEGEND

- 1 - plug of adequate size
- 2 - washer
- 3 - screw for securing the bracket
- 4 - bracket with central vacuum unit fixing pins
- 5 - spirit level for horizontal levelling



* recommended height





2 - Insert the fixing pins (4) in the two slots (6)
The wall-mounted enclosure must be hooked sliding as far as the limit stop (5)

LEGEND

4 - fixing pins

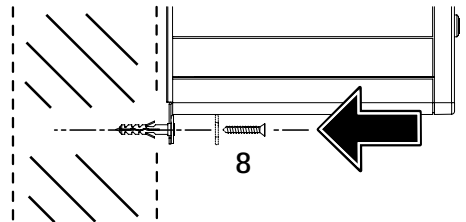
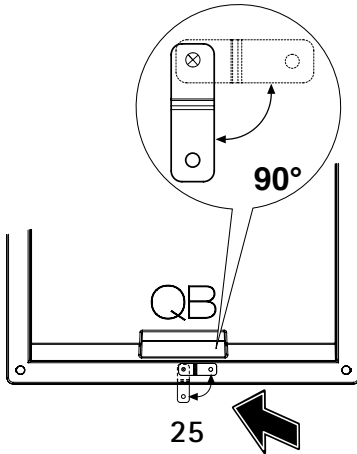
5 - hooking position of the wall-mounted enclosure

6 - slots on the rear of the wall-mounted enclosure

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3 - Place the rotating bracket (25)

4 - Fasten the bracket (25) to the wall with a suitable screw (8)

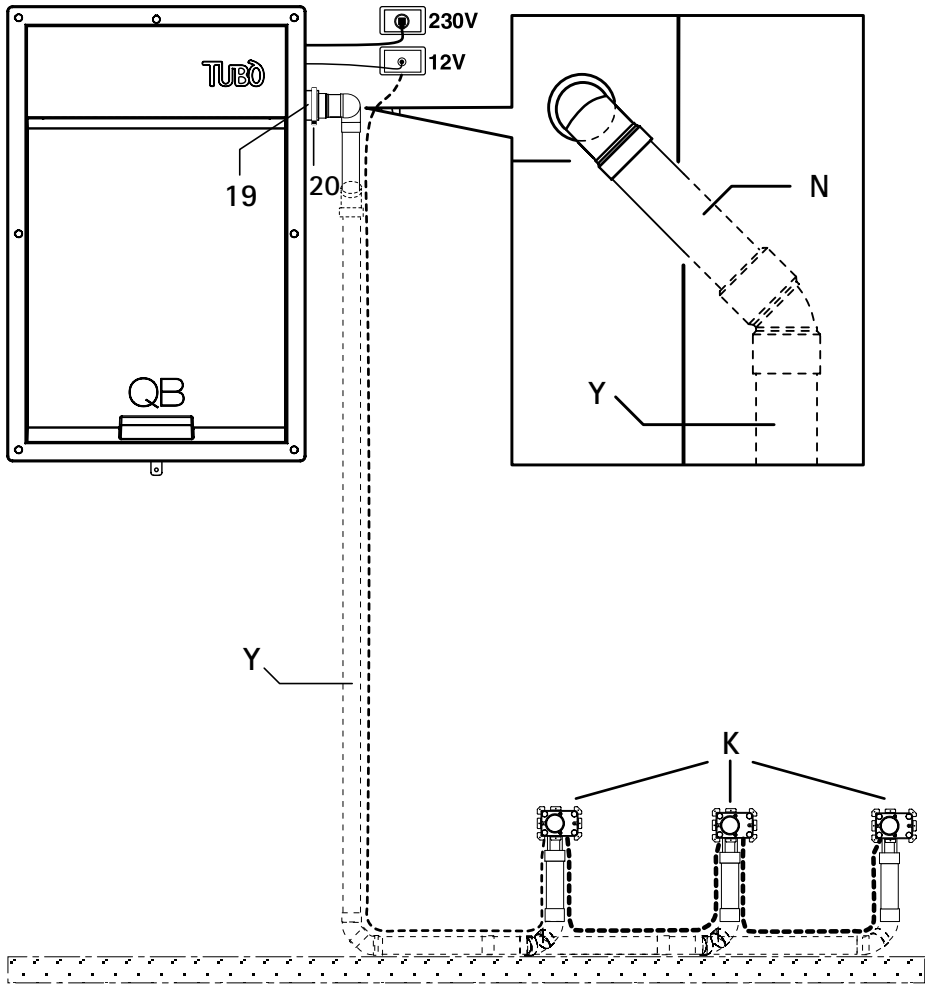


⚠ ATTENTION

Fixing the enclosure with the rotating bracket (25) is a necessary precaution to avoid the central vacuum unit becoming unhooked due to accidental knocks.

SIDE DUST INLET CONNECTION (STANDARD)

CONNECTIONS A - D



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LEGEND

19 - central vacuum unit side dust inlet

20 - hose clamp

N - hardware for connecting the dust line

Y - inlet dust line

K - socket frames

TOP DUST INLET CONNECTION

CONNECTIONS B - E

The wall-mounted QB central vacuum unit is configured for the connection of a dust line from the top as an alternative to the standard side connection.

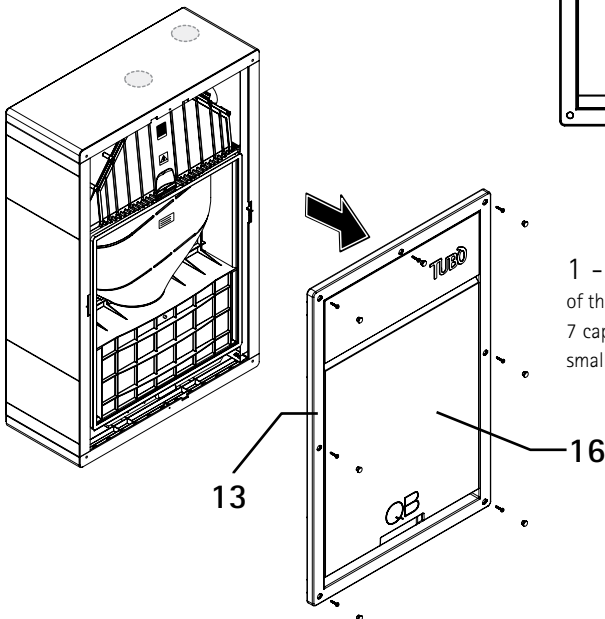
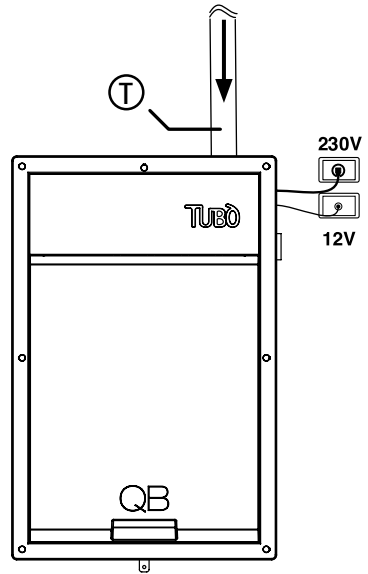


LEGEND

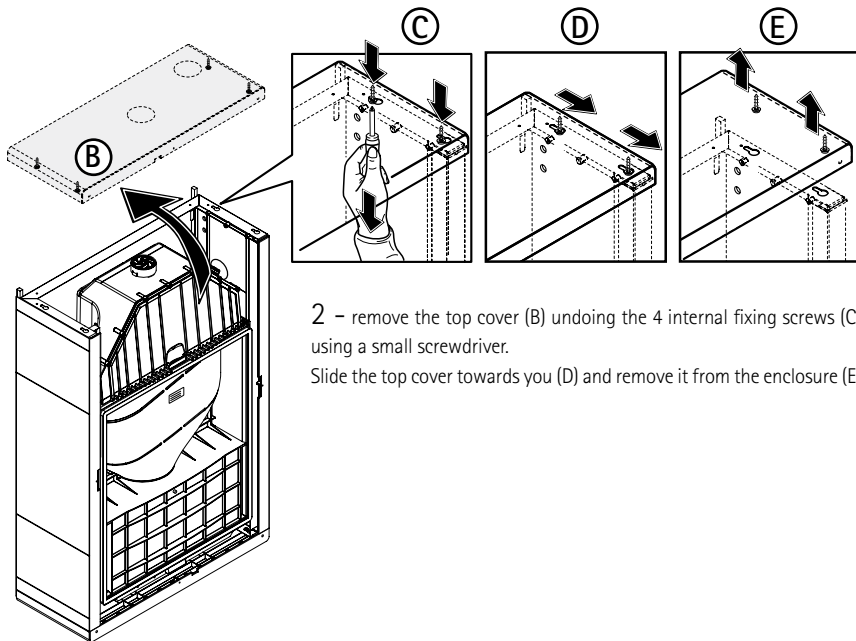
T - connection pipe between dust inlet of the central vacuum unit and the dust inlet line

S - ceiling

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1 - Remove the frame (13) and the flap (16) of the QB central vacuum unit by removing the 7 caps and fixing screws of the frame using a small screwdriver.

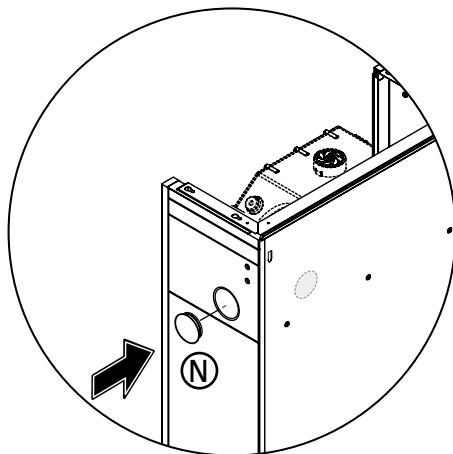
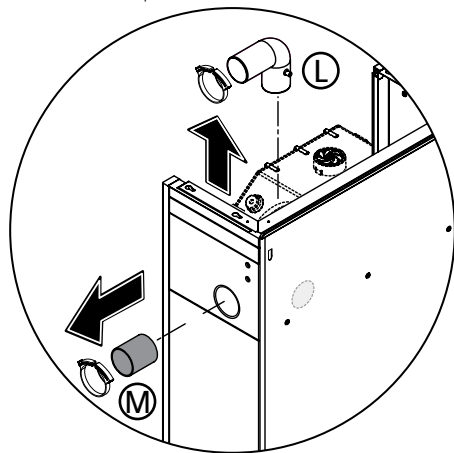


2 – remove the top cover (B) undoing the 4 internal fixing screws (C) using a small screwdriver.
Slide the top cover towards you (D) and remove it from the enclosure (E)

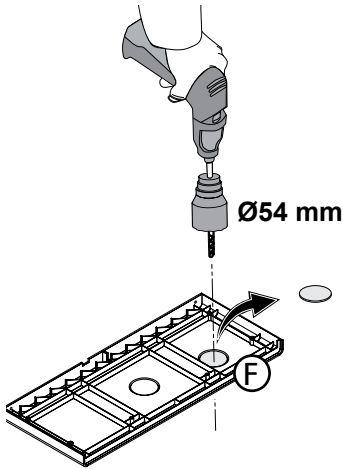
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3 – remove the curved connector (L) from the dust inlet to the central vacuum unit, the sleeve and the two internal and external clamps (M)

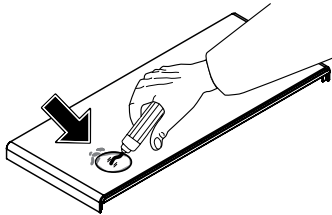
4 – close the side inlet hole using the cap provided (N)



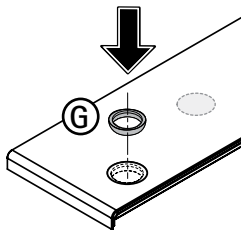
5 - Open the hole (F) on the reference point indicated on the top cover using a $\varnothing 54$ saw drill



6 - after making the hole, clean the imperfections along the perimeter of the hole with a deburring tool.



7 - insert the rubber seal provided (G) making sure it fits perfectly to the edge of the hole

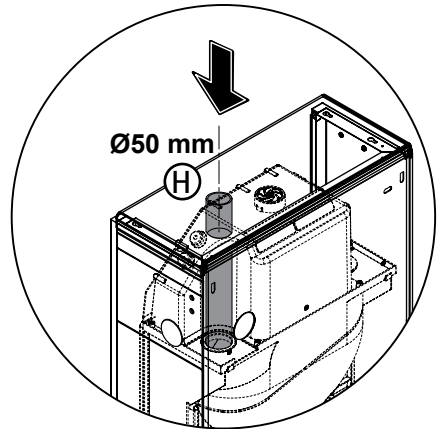


8 - Close the top cover by performing the point 2 actions in reverse.

Insert the blue $\varnothing 50$ connection hose (H) in the rubber seal and insert it in the dust inlet of the central vacuum unit as far as the limit stop.

LUBRICANT

It is recommended to lubricate the hose with a lubricating product in order to ease the insertion through the rubber seal.



9 - Complete the wall mounting of the central vacuum unit by following the procedure in the paragraph "Mounting with wall-mounted bracket" on page 13

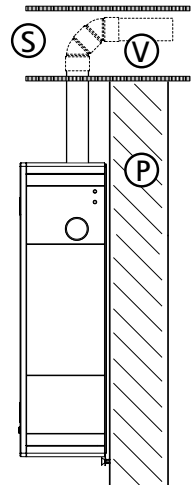
NOTE

If the QB central vacuum unit is installed outside, you must apply the adhesive seal (see Installation Note on page 13) to ensure the IP sealing rating.

10 - complete the connection of the QB central vacuum unit with the top dust line.

EXAMPLE

- S - suspended ceiling
- V - inlet dust line
- P - wall



REAR DUST INLET CONNECTION

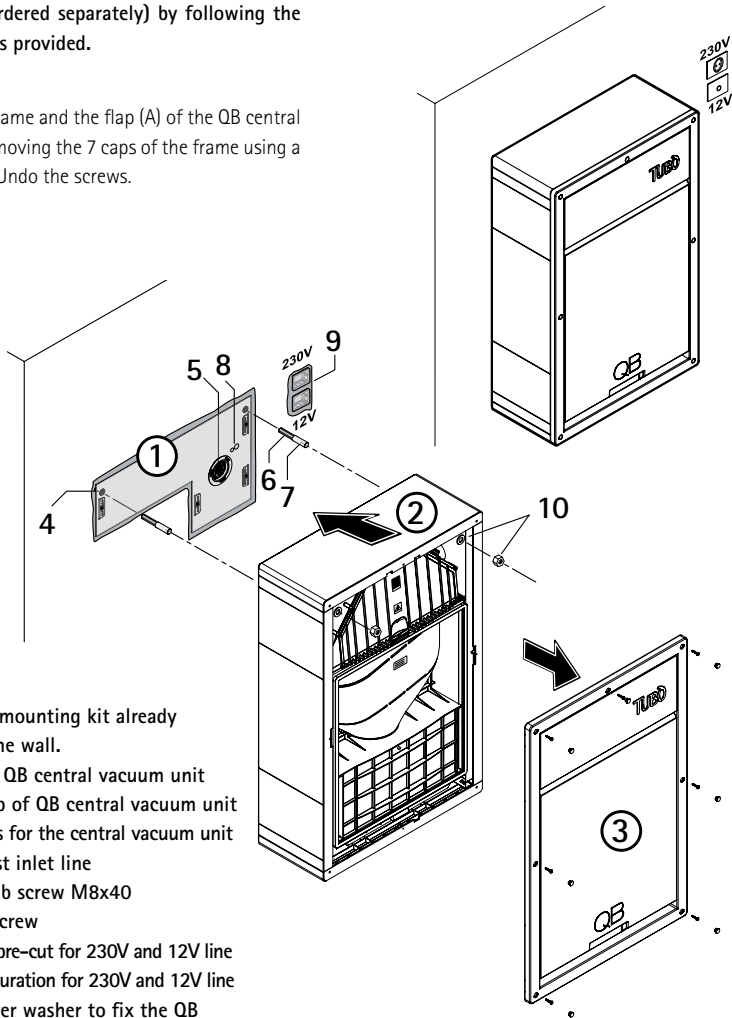
CONNECTIONS C - F

The wall-mounted QB central vacuum unit is configured for the connection of a rear dust line as an alternative to the standard side connection.

NOTE

In order to connect the QB central vacuum unit, the CF330Q wall-mounting configuration kit must be installed (to be ordered separately) by following the fitting instructions provided.

1 - Remove the frame and the flap (A) of the QB central vacuum unit by removing the 7 caps of the frame using a small screwdriver. Undo the screws.



LEGEND

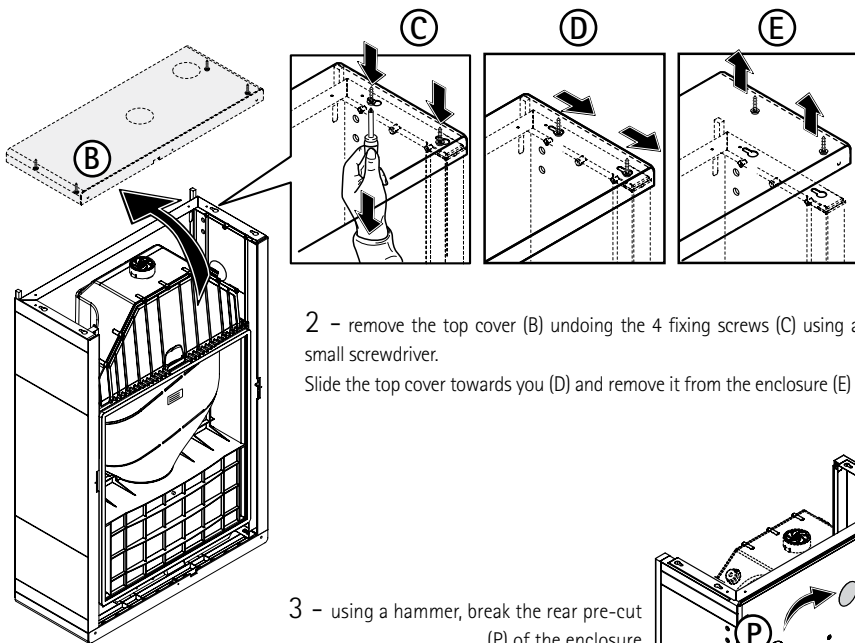
- 1 - CF330Q wall-mounting kit already installed on the wall.
- 2 - enclosure and QB central vacuum unit
- 3 - frame and flap of QB central vacuum unit
- 4 - wall fixing pins for the central vacuum unit
- 5 - cap of the dust inlet line
- 6 - hexagonal grub screw M8x40
- 7 - cap for grub screw
- 8 - sheathing hole pre-cut for 230V and 12V line
- 9 - electrical configuration for 230V and 12V line
- 10 - nut and grover washer to fix the QB central vacuum unit

NOTE

The standard fixing bracket provided is not used in this type of installation.

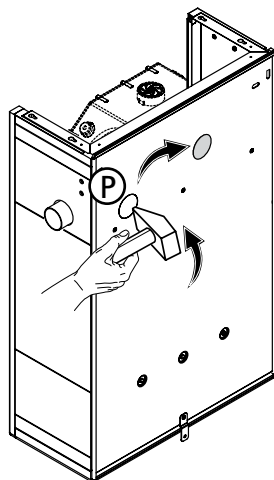
NOTE

If the QB central vacuum unit is installed outside, you must apply the adhesive seal (see Installation Note on page 13) to ensure the IP sealing rating.

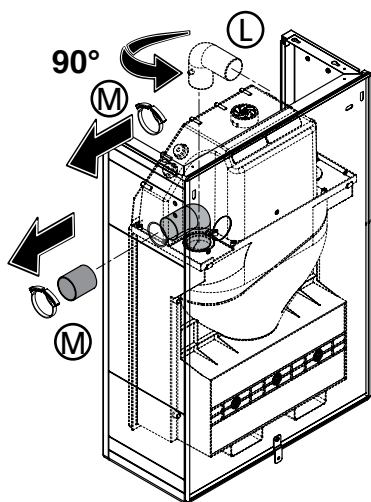


2 - remove the top cover (B) undoing the 4 fixing screws (C) using a small screwdriver.
Slide the top cover towards you (D) and remove it from the enclosure (E)

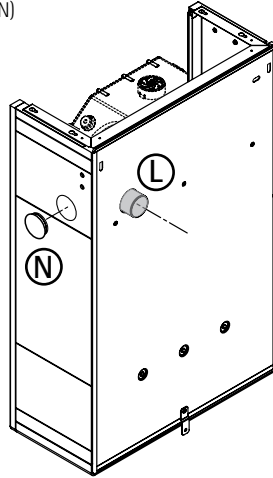
3 - using a hammer, break the rear pre-cut (P) of the enclosure



4 - Remove the sleeve and the internal and external clamps (M).
Remove the curved connector (L) from the dust inlet of the central vacuum unit and rotate it 90°



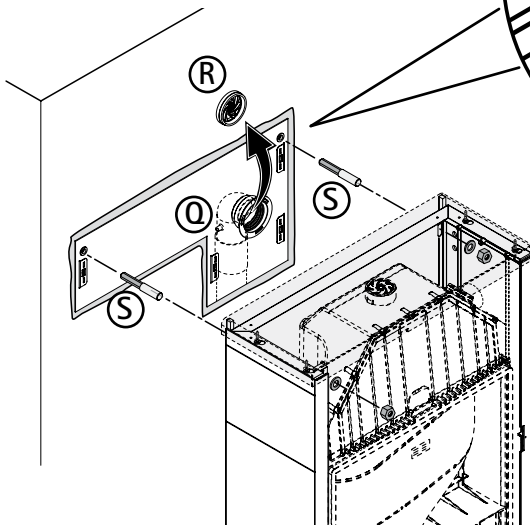
5 – insert the curved connector (L) in the rear hole.
Close the side inlet hole using the cap provided (N)



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6 – remove the plasterwork protection cap of the dust inlet line (Q) from the CF330Q configuration (R)

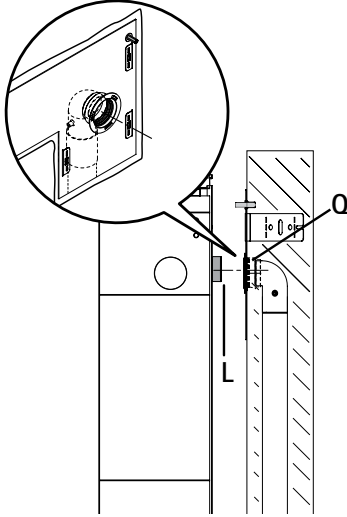
Insert the two grub screws without the caps (S) in the fixing pins (P) of the CF330Q configuration and screw them on tightly.



7 – mount the QB central vacuum unit enclosure by inserting it onto the two hexagonal grub screws fixed to the pins, using the 2 slots on the rear side.

Insert the 2 grover washers (V) onto the hexagonal grub screws and screw the 2 nuts on tightly (U)

8 - during the mounting phase of the enclosure, the central vacuum unit dust inlet connector (L) must be inserted in the dust inlet line (Q).

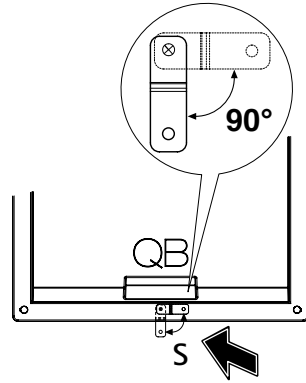


LUBRICANT

It is recommended to lubricate the curved connector (L) using a lubricant product

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9 - Refit the frame of the QB central vacuum unit by performing the operations in point 1 in reverse.



ROTATING BRACKET

Position the rotating bracket (S) and secure it to the wall with a suitable screw

! ATTENTION

Fixing the enclosure with the rotating bracket (S) is a necessary precaution to avoid the central vacuum unit becoming unhooked due to accidental knocks.

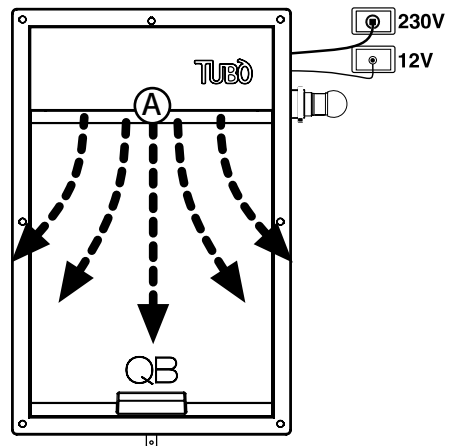
AIR EXPULSION

The wall mounted QB central vacuum unit can expel the micro-dust of the sucked air in two different ways:

- standard front air expulsion
- ducted air expulsion

**STANDARD FRONT AIR EXPULSION
CONNECTIONS A - B - C**

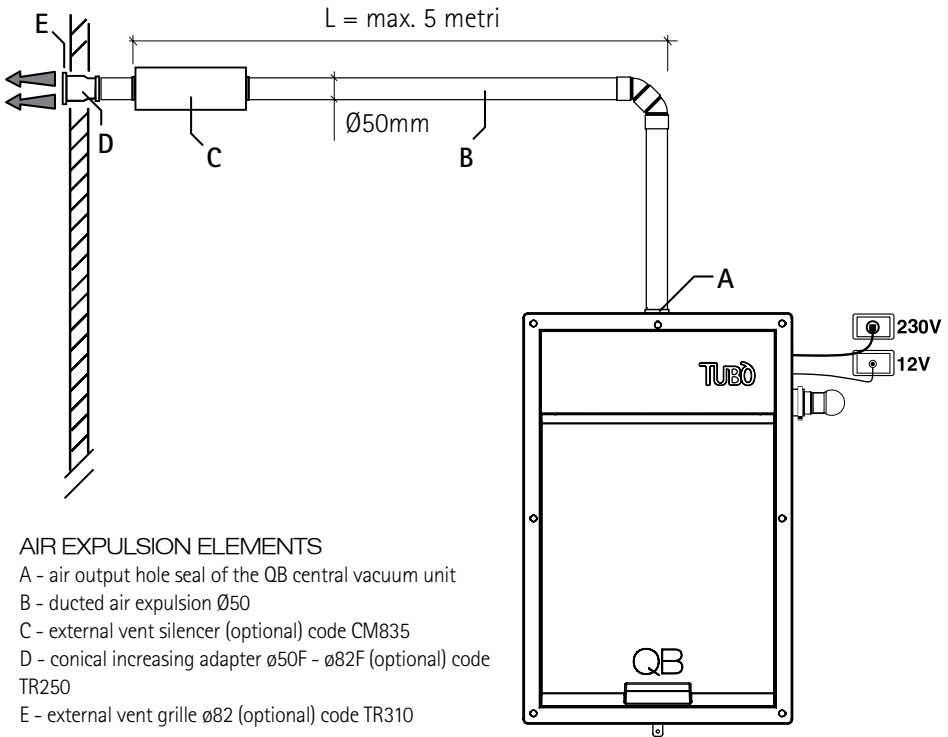
The enclosure is already configured by the manufacturer to expel the air (A) directly from the front grill of the frame in thermoplastic material.



DUCTED AIR EXPULSION

CONNECTIONS D - E - F

When ducted air expulsion is used, you must install a dedicated line and connect it to the air output hole inside the central vacuum unit



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AIR EXPULSION ELEMENTS

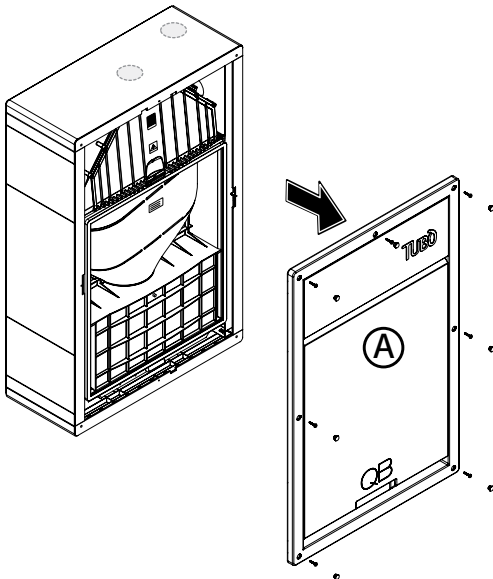
A - air output hole seal of the QB central vacuum unit

B - ducted air expulsion $\varnothing 50$

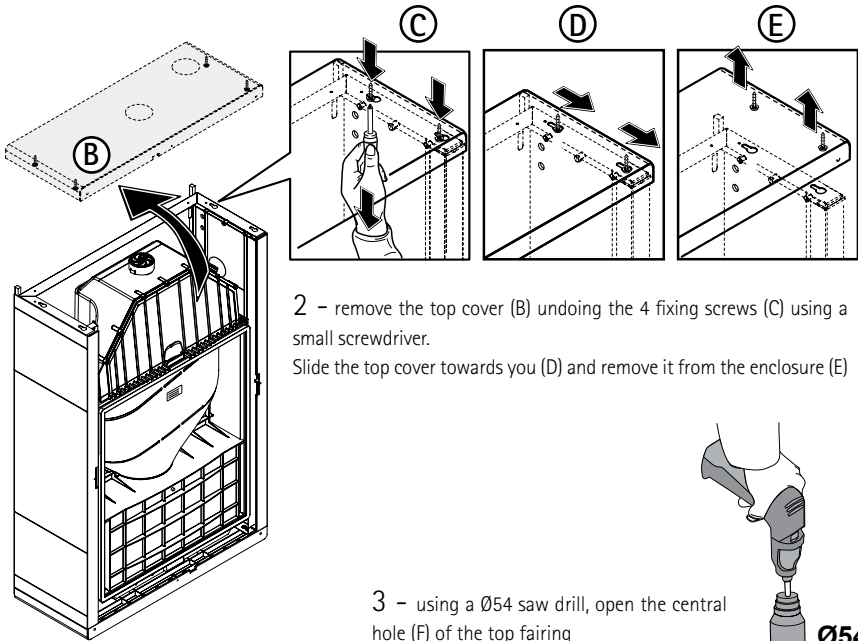
C - external vent silencer (optional) code CM835

D - conical increasing adapter $\varnothing 50\text{F} - \varnothing 82\text{F}$ (optional) code TR250

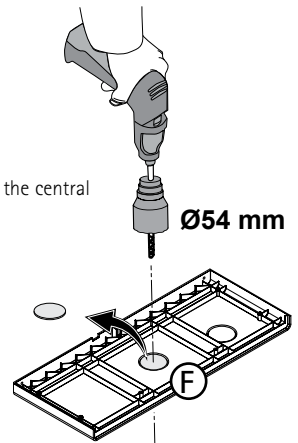
E - external vent grille $\varnothing 82$ (optional) code TR310



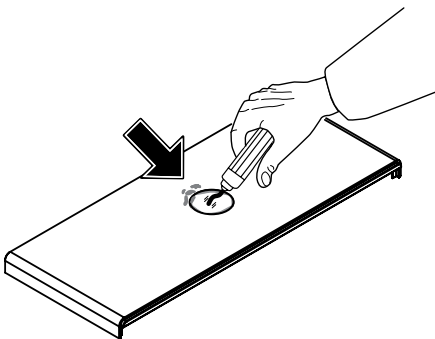
1 - Remove the frame (A) of the QB central vacuum unit by removing the 7 caps of the frame using a small screwdriver and undo the screws.



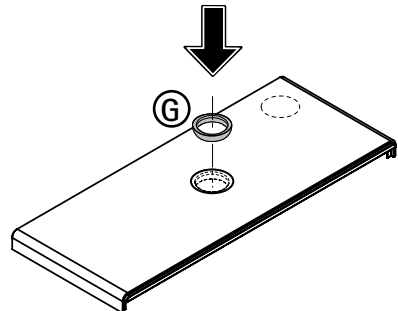
3 - using a $\varnothing 54$ saw drill, open the central hole (F) of the top fairing



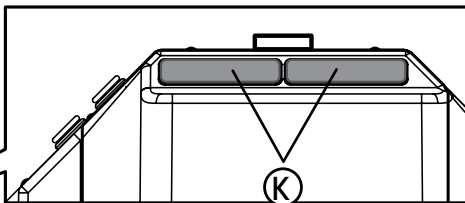
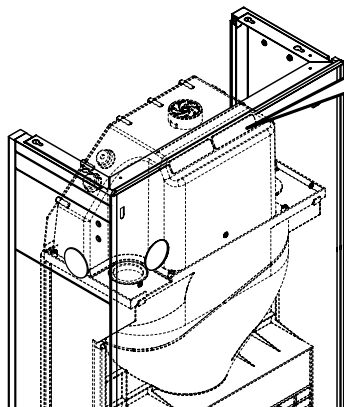
4 - after making the hole, clean the imperfections along the perimeter of the hole.



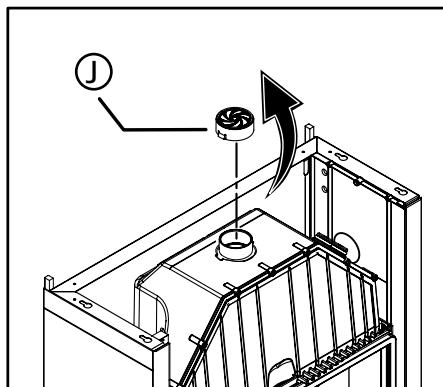
5 - insert the rubber seal provided (G) making sure it fits perfectly to the edge of the hole



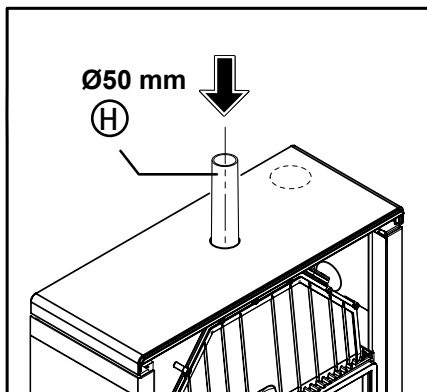
6 - fit the closing caps (K) of the air sockets of the motor compartment provided with the QB central vacuum unit.



7 - remove the cap (J) which closes the air expulsion hole of the central vacuum unit.



8 - Insert the blue Ø50 connection hose (H) into the rubber seal and insert it into the air output hole of the central vacuum unit as far as the limit stop.



Close the top cover by performing the operations in point 1 in reverse and complete the ducted air expulsion line.

ROTATING BRACKET

It is recommended to lubricate the hose with a lubricating product in order to ease the insertion through the rubber seal.

9 - Refit the frame of the QB central vacuum unit by performing the operations in point 1 in reverse.

ELECTRICITY CONNECTION



DANGER OF ELECTROCUTION

Electrical wiring must be performed by specialized technicians.

ACCESS to the electrical board of the central power unit is prohibited to individuals lacking authorization, experience or product knowledge.



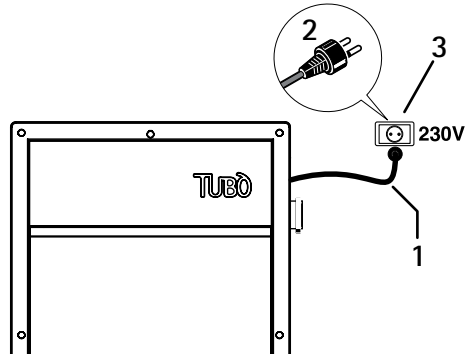
DANGER OF ELECTROCUTION

Make sure that the electric line is dimensioned to support the central power unit power and check that the mains network corresponds to the voltage specified on the identification plate.

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230 V AC LINE CONNECTION

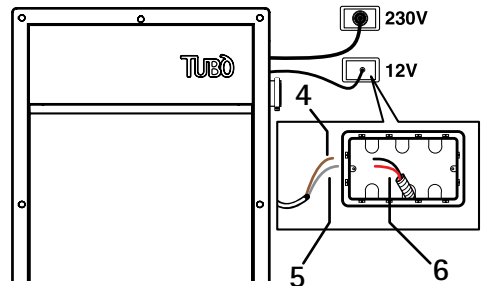
The power cable (1) is already pre-fitted in the enclosure; to power the central vacuum unit, insert the schuko plug (2) into the socket (3)



12 V SOCKET ACTIVATION LINE CONNECTION

Wire the cables of the 12V socket activation line of the QB central vacuum unit with those of the socket line coming from the vacuum cleaner system.

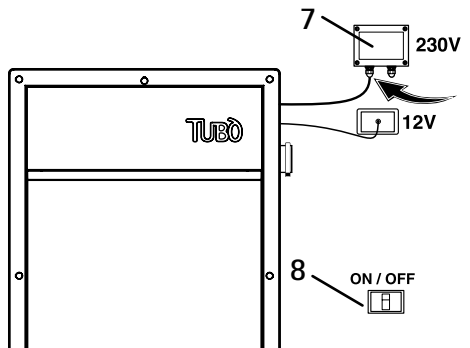
- 4 - brown cable QB terminal (+)
- 5 - gray cable QB terminal (S)
- 6 - 12V socket line



QB Central vacuum unit INSTALLED OUTSIDE

A water-tight box (8) with suitable electric protection is required.

For the connection to the 230V AC power line, cut the schuko plug from the cable and wire the cables with the power line inside the water-tight box.



BIPOLAR SWITCH

In this case the power line of the QB central vacuum unit must be isolated via a bipolar switch (9) inserted upstream of the central vacuum unit which can be activated by the final user.

Use power cables with cross-section ≥ 1.5 mm.

GENERAL TEST OF THE TUBÒ CENTRAL VACUUM SYSTEM

The general centralised vacuum system inspection must be done after the final assembly of all vacuum sockets and the selected central power unit.

VACUUM TEST

Insert a 7 - 9 metre hose in one of the sockets closest to the QB central power unit.

Insert the vacuum gauge (AT010) into the socket adjacent to that occupied and check that the de-pressurization value is within the range of 100 - 170 mbar.

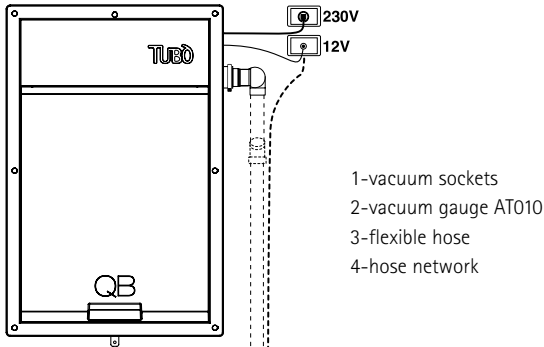
The test is successful if the needle falls within this range.

Repeat the same operation in a middle socket of the system and in the socket furthest from the central power unit QB.

If the needle always falls within the same range, this means that the test is successful and the central vacuum system works properly.

If one of the tests is negative (the needle falls outside of the range 100-170 mbar) it is necessary to check for system clogs or load loss.

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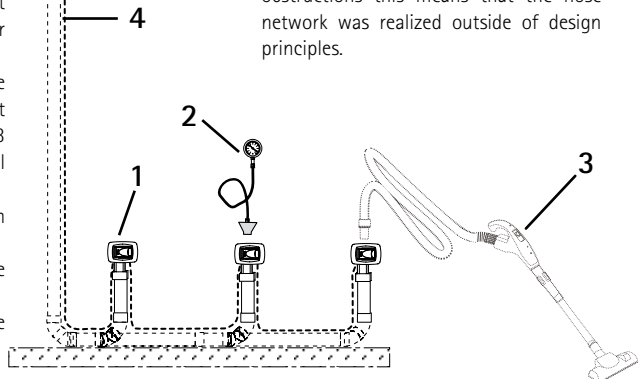


VALUE DETECTED BELOW 100 mbar

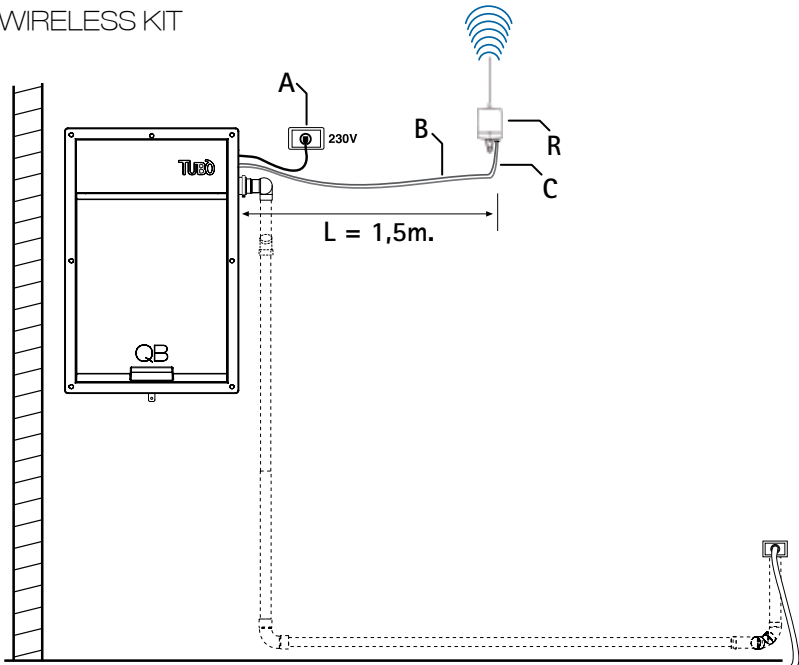
- 1 - check that coupling between the dust intake union and the QB central power unit is correct
- 2 - check the correct position of the dust intake sealing gasket on the QB central power unit
- 3 - check for the proper sealing of the removable body of the QB central power unit
- 4 - check for proper tightening of the 3 screws on the fixed body of the QB central power unit
- 5 - check for pressure loss in all vacuum sockets and in the hose network
- 6 - check for obstructions inside the flexible hose and hose network
- 7 - check for the proper position of the safety valve

VALUE DETECTED OVER 170 mbar

- 8 - check for any obstructions inside the flexible hose or hose network; if the entire system and the flexible hose are free of obstructions this means that the hose network was realized outside of design principles.



CM189 WIRELESS KIT



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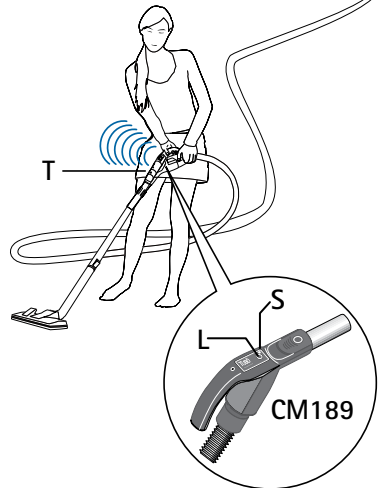
WIRELESS FLEXIBLE HOSE CM189

The ideal solution whenever the system is not electrically configured, or for adding a new socket to an existing system without having to install the 12V socket line. It can be used with all types of vacuum sockets.

RECEIVER RANGE

Inside a building, the transmission range between the wireless hose and the receiver is 15 m, which allows for crossing 2 floors.

- A - domestic 230V line for powering the central vacuum unit
- R - wireless receiver connected to the central vacuum unit
- B - pressure detection pipe
- C - receiver-central unit connection line
- T - wireless CM189 flexible hose with grip and on/off switch (S)



STARTING/STOPPING THE CENTRAL VACUUM UNIT

The central vacuum unit starts after pressing the START/STOP button (S). The LED (L) turns green.

The central vacuum unit stops after pressing the START/STOP button or after 15 seconds from the closure of the vacuum socket flap.

ORDINARY MAINTENANCE

Careful maintenance prolongs the life-time of the central power unit and guarantees better performance.

NOTE



Before starting with any maintenance operation, disconnect the central power unit from the power supply.

DUST CONTAINER REPLACEMENT



ATTENTION



You may come into contact with dust when performing this operation.

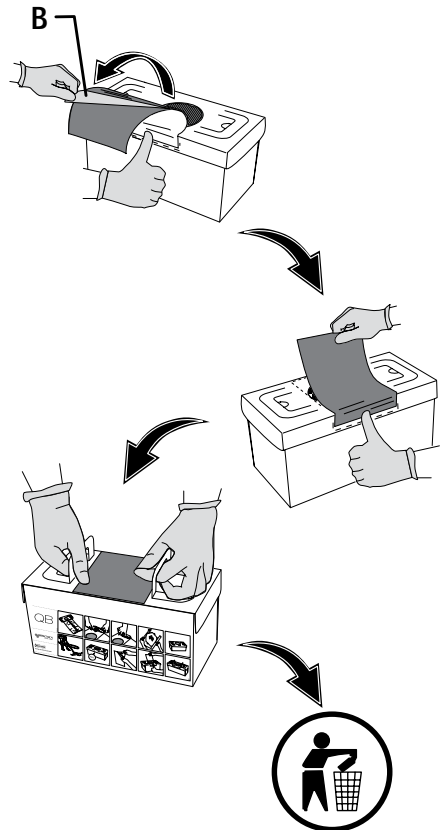
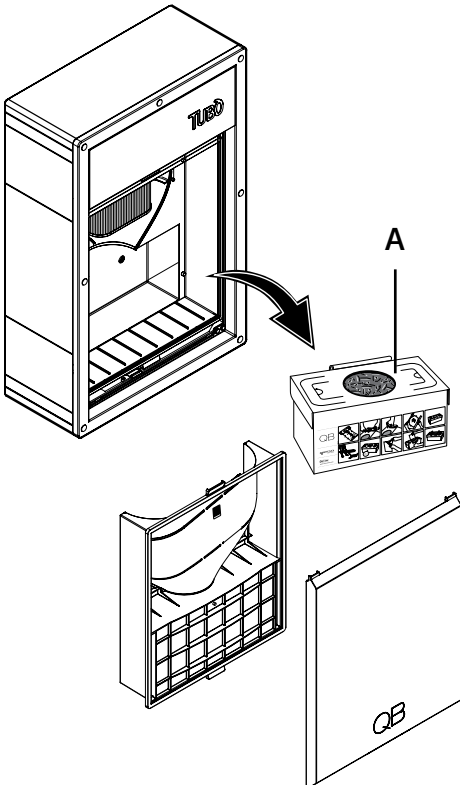


Before removal it is recommended to wear suitable personal protective garments.

REMOVAL, SEAL AND DISPOSAL OF A FULL DUST CONTAINER

Remove the full dust container (A) from its seat.

Remove the protective sticker film (B) and seal the dust container.



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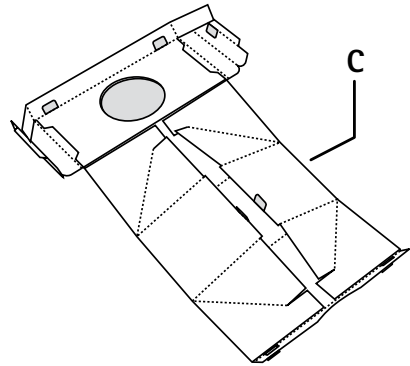
Dispose of the dust container respecting the environmental laws in force.

ASSEMBLY AND INSERTION OF A NEW DUST CONTAINER

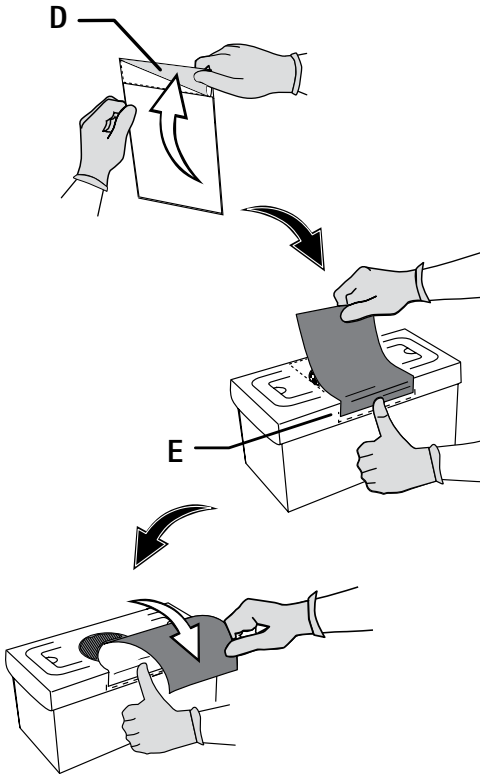
Get a new dust container (C) and assemble it as shown on the container.

Apply an new seal sticker (D) in the point indicated (E).

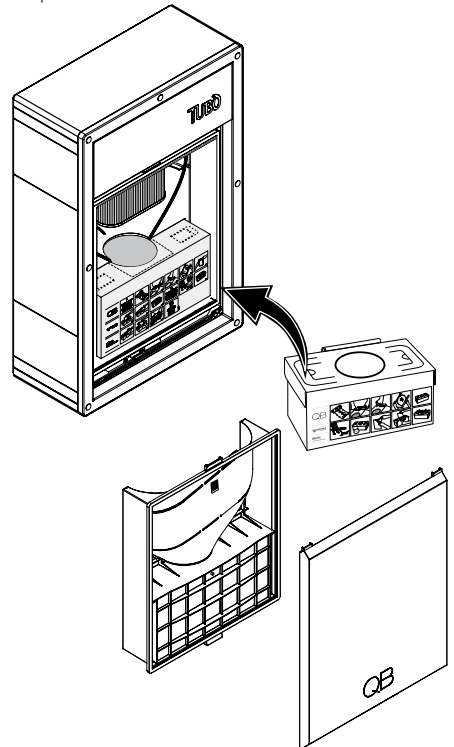
Fold the sticker back on the front edge of the container.



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Replace the dust container into its seat and close the central power unit.



USE ONLY ORIGINAL AERTECNICA
SPARE PARTS

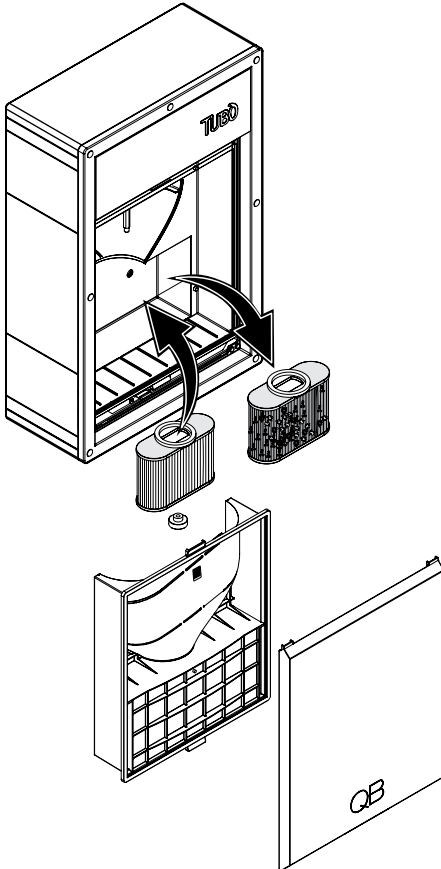
FILTER CARTRIDGE REPLACEMENT

Replace the cartridge filter every 2-3 years. This may vary depending on amount of system use.



ATTENTION

The central power unit must not be started without the filter cartridge assembled inside. Failure to follow this rule could cause damage to the motor, not included in the warranty.



Unscrew the knob (P) that fastens the cartridge and remove it from its housing.

Insert a new cartridge and push fully in, then screw in knob completely.

NOTE



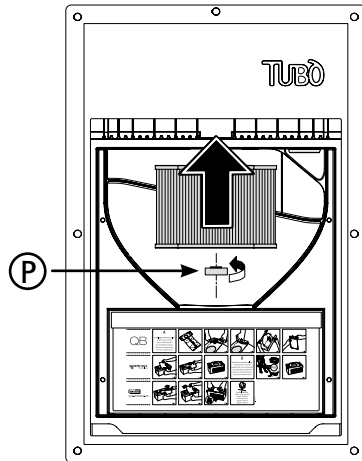
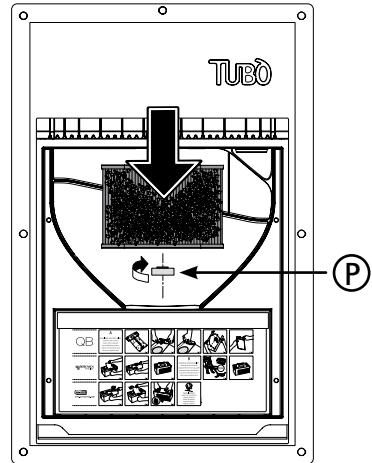
ATTENTION



You may come into contact with dust when performing this operation.



Before removal it is recommended to wear suitable personal protective garments.



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FILTER CARTRIDGE REGENERATION

Periodic filter cartridge regeneration improves overall centralised vacuum system productivity. With normal system use, the cartridge should be checked every 4 months.

To effectively regenerate the saturated cartridge and keep the centralised vacuum system operating, it is recommended to insert a new filter cartridge immediately, restart the system and vacuum the largest dust particles from the saturated cartridge using the system itself.

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NOTE



ATTENTION

You may come into contact with dust when performing this operation.



Before removal it is recommended to wear suitable personal protective garments.



INSERTING A SPARE CARTRIDGE

Unscrew the knob (b) that fastens the cartridge and remove it from its housing.

Insert a new filter cartridge into the central power unit and screw the knob fully in.

Reassemble the door. Use the system to regenerate the used filter cartridge.

USED CARTRIDGE REGENERATION

Vacuum the large particles deposited on the walls of the used cartridge by using the flexible hose and crevice nozzle AP342 (F).

Rinse the cartridge walls from vacuumed dust under a moderate jet of running water.

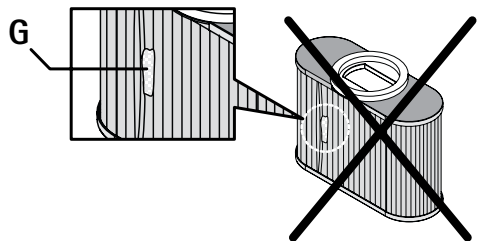
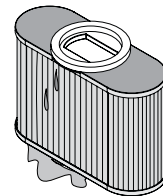
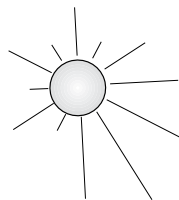
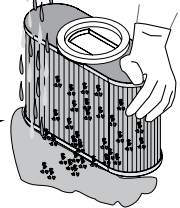
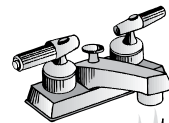
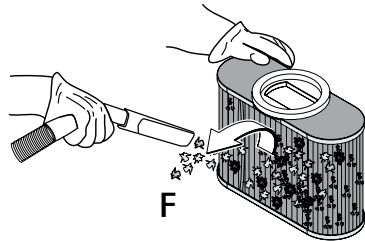
Let the regenerated cartridge dry and check for any tears on the walls (G); in this case the cartridge must be disposed of in accordance to the environmental laws in force.

NOTE



ATTENTION

The central power unit must not be started without the filter cartridge assembled inside. Failure to follow this rule could cause damage to the motor, not included in the warranty.



CENTRAL POWER UNIT DISPOSAL

At the end of its life cycle, the central power unit must be disposed of in accordance to the environmental laws in force.

The following table lists its manufacturing materials.



IMPORTANT

The materials listed below must be separated and stored to be recycled or disposed of in accordance to the environmental laws in force in the country of use.

TYPE OF MATERIAL	PRESENCE IN CENTRAL POWER UNIT	SPECIFICATION	DISPOSAL
plastics and rubber	motor soundproofing	propylene	<p>The rules that regulate the disposal or demolition of the central power unit, its components, pollutant materials and substances present vary in relation to the country of end use.</p> <p>We recommend consulting the environmental regulatory agencies and bodies, and to respect the laws on the matter</p>
	under-motor fitting	rubber	
	dust inlet gasket	thermoplastic rubber	
	dust inlet fitting	ABS	
	air exhaust gasket	thermoplastic rubber	
	air exhaust fitting	propylene	
	filter cartridge	ABS + poliestere	
	cover and encluser	propylene	
	fixed body central power unit	propylene	
	motor compartment door	propylene	
	frame	propylene	
	electronic card box	propylene	
	corrugated sheathing	mousse + rubber	
	IP protection seal	pivilene	
	sheathing clamp	ABS	
integrated safety valve	PVC		
stickers and plates	PVC		
hardware components	screws and rivets	iron	
	wall fixing bracket	iron	
electronic components	electronic board	misc. materials	
	electric motor	misc. materials	
	wires	copper	
containers	dust containers	corrugated cardboard	
	central power unit pack	corrugated cardboard	
	bags	nylon	

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TROUBLESHOOTING

PROBLEM	CAUSE	INTERVENTION
There is no air intake from all the sockets	Power supply cable disconnected	Connect the power supply cable
	12V socket cable line not connected or incorrectly connected	Connect the 12V socket cable line or check the wiring
	The motor overheated. The motor temperature exceeded 80 °C.	Check if the air exhaust line is free or if two air exhaust openings of the motor compartment are blocked. Wait for the motor to cool down.
		Make sure the filter cartridge is not saturated. In this case, perform maintenance. Wait for the motor to cool down.
	The removable body is not correctly hooked	Reattach the removable body correctly.
There is no air intake from a socket	The microswitch in a vacuum socket is damaged.	Call a specialised technician.
Low amount of air intake	There is clogging in the system	Call a specialised technician.
	The filter cartridge is saturated	Perform cartridge maintenance.
	Multiple vacuum sockets are being used at the same time on the system	The central power unit may only be used by one operator at a time.
	The dust intake gasket is damaged or out of position	Check the position of the dust intake union.
	The air exhaust line is clogged	Clear the air exhaust line of clog or call a specialized technician.
	The hose is partially obstructed.	Free the obstruction from the hose.
The central power unit always remains activated even with the sockets closed	The microswitch in a vacuum socket is damaged.	Call a specialised technician.
The central power unit won't turn on	No power flow to the central power unit	Call a specialised technician.
	The electronic card is defective.	Call a specialised technician.
Call a specialised technician for other causes that are not covered in this manual		

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TUBO[®]
the advanced
vacuum system.



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