



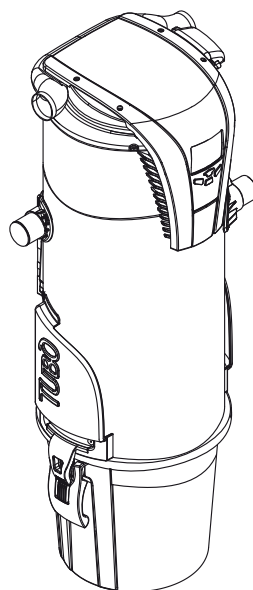
Central power unit

PERFETTO INOX TXA

PERFETTO TPA

PERFETTO TP

CLASSIC TC



Operation and maintenance manual



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GENERAL WARNINGS

Carefully read the manual

The installation, user and maintenance manual is an integral and essential part of the central power unit and must be read carefully as it contains important information concerning operator safety, foreseen operation and the correct maintenance of the central power unit.

Keep the manual in a safe place

It is recommended to store the user manual in the multifunction pocket (in all PERFETTO TXA, TPA - TP models excluding models TX1A, TP1A , TP1 and the CLASSIC TC series).

WARRANTY

Warranty terms within the European Union

Aertecnica guarantees the proper operation of the purchased central power unit for a 24 month period starting from the documented purchase date.

If there is not any documentation that proves the purchase date (invoice or fiscal receipt), the 24 month period will refer to the date it was sold by AERTECNICA. The warranty conditions are those provided by current European legislation and in any case the following are not covered by the warranty:

Faults, damage or breakage caused by incorrect electric connection during or after installation

Faults, damage or breakage caused by the malfunctioning of other components in the system, e.g., vacuum sockets, if these components are not from AERTECNICA.

Faults, damage or breakage caused by pipe clogging.

Damage or breakages owing to carelessness, negligence, inability or associated with prohibited or unauthorised uses.

Materials, components and accessories, including electric and electronic ones, when the damage is not related to original manufacturing defects or when the damage is due to component wear.

The manufacturer shall not accept any contractual and extra contractual liability due to damage caused by errors in using and installing the central power unit or due to failure to observe the instructions provided by the manufacturer.

The warranty will lapse in the case of tampering, repairs carried out by unauthorised individuals.

Aertecnica declines all liability concerning decreased performance or damage to the central power unit due to the use of non-original spare parts.

Other additional warranty conditions will only and exclusively be the responsibility of the party proposing them.

For all disputes, the court of Forlì-Cesena (Italy) shall have exclusive jurisdiction and Italian legislation shall 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.

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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.



HAZARD: this indicates that attention must be paid in order to prevent events that could cause serious accidents that harm people or their health.



HAZARDS OF AN ELECTRIC NATURE: make sure that the central power unit is connected with the relative cable to a standard compliant earthing system.

The power supply and relative socket must be suited to the nominal power of the central power unit. For exterior installations, the power socket must have a suitable IP rating.

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CRUSHING HAZARD: when handling and installing the central power unit it is recommended to use suitable equipment for lifting and securing it to prevent the central power unit from falling accidentally.



HAZARD OF DAMAGING THE CENTRAL POWER UNIT: follow the provided instructions for use to prevent consequences that could damage the central power unit.



INHALATION OF HARMFUL ELEMENTS AND DUST: protect respiratory organs by using protective masks when emptying the dust containers and when replacing the filter cartridge so the collected dust is not inhaled.



DUST SENSITIVITY: this means that hand protection must be used to prevent harming operators who are sensitive to the collected dust.

CERTIFICATIONS

Aerterna 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 power unit range for the residential market sector, series:

PERFETTO INOX TXA

PERFETTO TPA

PERFETTO TP

CLASSIC TC



IDENTIFICATION

This user and maintenance manual is an inherent part of the central power unit:

SERIES: PERFETTO INOX TXA
MOD: TX1A - TX2A - TX3A - TX4A

SERIES: PERFETTO TPA
MOD: TP1A - TP2A - TP3A - TP4A

SERIES: PERFETTO TP
MOD: TP1 - TP2 - TP3 - TP4

SERIES: CLASSIC TC
MOD: TC1 - TC2 - TC3 - TC4

MANUFACTURER

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Fax +39 0547/631388
info@aertecnica.com
www.aertecnica.com

Technical service

The Technical Service Centre can be contacted for all technical problems and in order to request spare parts. For all communications concerning the central power unit, the user should always provide the following data: central power unit model
serial number
year of manufacturing
date of purchase and a detailed description of the discovered problems.

When replacing the central power unit's spare parts it is recommended to use original spare parts; Aerterna declines all liability concerning decreased performance or damage to the central power unit due to the use of non-original spare parts.

IDENTIFICATION PLATE

For these models, the identification plate is located on the body of the central power unit as shown in the figure.




The necessary identification data:

model

serial number

year of manufacturing.



TUBÒ		Aertercnica S.p.A. via Carchia di S. Egidio 769 47021 Cesena - FC ITALY	
Mod.	: TP2		
Serial n°	: T000108		
Year	: 2009		
Volt	: 220/240		
Hz	: 50-60		
~	: 1		
W	: 1260		
  			
T000108			

DESCRIPTION OF THE TUBÒ VACUUM SYSTEM

The purchased central power unit is the main component of TUBÒ, Aertercnica's advanced vacuum system.

The TUBÒ system consists of the central power unit, vacuum sockets installed in the building's walls, the hose that is inserted in the vacuum sockets based on the room to be cleaned and a set of cleaning accessories suitable for all residential needs.

A network of plastic pipes installed under the floor and in the walls of the building form the dust intake line that is connected to the central power unit.

The collected dust reaches the central power unit; the large dust particles fall into the collection container whereas a filter cartridge retains the suspended dust; the micro dust (invisible to the eye and not filtered by the cartridge) is discharged outside through the air exhaust line, guaranteeing home hygiene and preventing the dust from recirculating in homes.

The system must only be used by one operator.

The system must only be used with the hose and cleaning accessories connected to Aertercnica sockets installed in the building.

The system can reach all areas of the home, both inside as well as outside depending on the position of the vacuum sockets installed in the building. The recommended hose is 7 m long, which makes it possible to cover a circular area of approx. 30 m² (a reduction in the radius of the circumference is due to obstacles in the room (furniture) that make it necessary for the tube to follow a curved path).

The dust container must be emptied periodically (approx. 2-3 times a year; see paragraph CONTAINER EMPTYING).

The filter cartridge should be replaced with a new one every 2-3 years (based on its use; see paragraph FILTER CARTRIDGE REPLACEMENT).

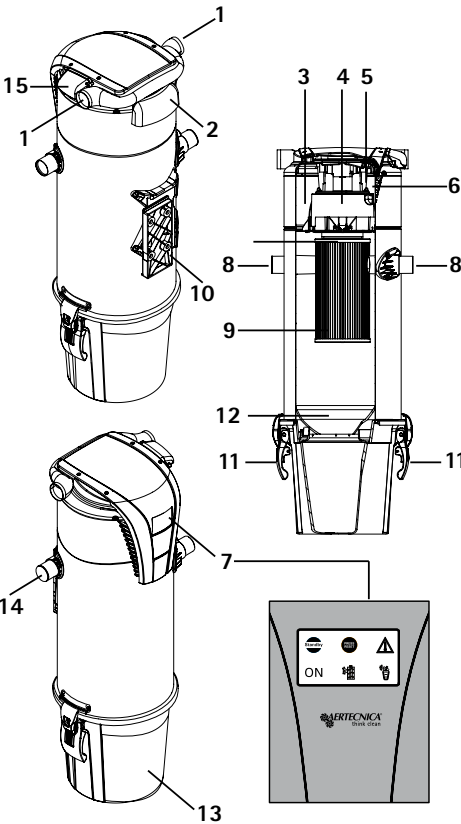
The filter cartridge can be regenerated by washing it periodically (based on its use; see paragraph FILTER CARTRIDGE REGENERATION).

These timescales are approximate for normal vacuum system use. In the case of intense use of the system and a large amount of vacuumed dust, the timescale will be shortened.



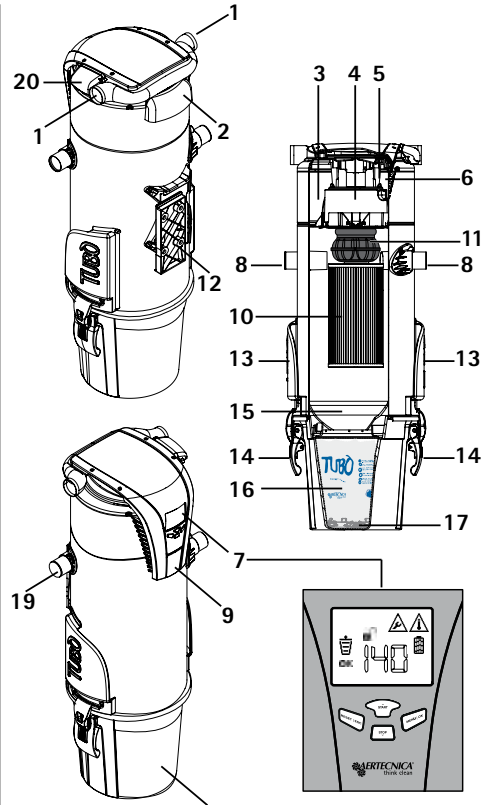
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PART DESCRIPTION



CLASSIC TC LINE

- 1 - Dual right/left air exhaust
- 2 - Motor air intake (mod. CLASSIC TC3, TC4)
- 3 - Sound-proofed motor chamber
- 4 - Electric motor
- 5 - Temperature sensor
- 6 - Power electronic board
- 7 - AVT panel
- 8 - Dual right/left dust inlet
- 9 - PRECISION filter cartridge
- 10 - QUICK FIX bracket
- 11 - Ergonomic handles
- 12 - Cone conveyor
- 13 - Dust container
- 14 - Dust inlet closing cap
- 15 - 12V socket line and power supply line casing



PERFETTO INOX TXA, TPA AND TP LINE

- 1 - Dual right/left air exhaust
- 2 - Motor air intake (excluding mod. PERFETTO TX1A, TP1A and TP1)
- 3 - Sound-proofed motor chamber
- 4 - Electric motor
- 5 - Temperature sensor
- 6 - Electronic card EVOLUTION 1.0
- 7 - AVI display and built-in keyboard
- 8 - Dual right/left dust inlet
- 9 - Built-in vacuum socket
- 10 - PRECISION filter cartridge
- 11 - Self-Cleaning filter APF system (mod. PERFETTO TXA and TPA)
- 12 - QUICK FIX bracket
- 13 - Side multifunction pockets (excluding mod. PERFETTO TX1A, TP1A and TP1)
- 14 - Ergonomic handles
- 15 - Cone conveyor
- 16 - CLEAN BAG dust bag
- 17 - CLEAN BAG blocking system
- 18 - Dust container
- 19 - Dust inlet closing cap
- 20 - 12V socket line and power supply line casing

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TECHNICAL FEATURES

Line		Perfetto INOX TXA				Perfetto TPA TP				Classic TC			
		TX1A	TX2A	TX3A	TX4A	TP1A TP1	TP2A TP2	TP3A TP3	TP4A TP4	TC1	TC2	TC3	TC4
Power supply	Volt (Vac)	220/240	220/240	220/240	220/240	220/240	220/240	220/240	220/240	220/240	220/240	220/240	220/240
Motor power	Watts (W)	1.260	1.600	1.350	1.590	1.260	1.600	1.350	1.590	1.260	1.600	1.350	1.590
Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Electric protection	IP	IP55 ¹	IP55 ¹	IP45 ²	IP45 ²	IP55 ¹	IP55 ¹	IP45 ²	IP45 ²	IP55 ¹	IP55 ¹	IP45 ²	IP45 ²
Motor rpm	rpm (giri/min.)	43.507	46.480	29.892	31.672	43.507	46.480	29.892	31.672	43.507	46.480	29.892	31.672
Turbine stages	no.	1	1	3	3	1	1	3	3	1	1	3	3
Socket power supply	Volt (Vcc)	12	12	12	12	12	12	12	12	12	12	12	12
Vacuum power	Air Watts	504	653	526	566	504	653	526	566	504	653	526	566
Max. air flow rate	m ³ /h	207	195	174	168	207	195	174	168	207	195	174	168
Max. vacuum	mbar	270	313	374	413	270	313	374	413	270	313	374	413
Noise	dB	62,5	63	64	64,5	62,5	63	64	64,5	62,5	63	64	64,5
Filter cartridge surface	cm ²	4.000	8.200	12.300	12.300	4.000	8.200	12.300	12.300	4.000	8.200	12.300	12.300
Filter cartridge material		POLYESTER				POLYESTER				POLYESTER			
Dust container capacity	litres	13,5	13,5	22	22	13,5	13,5	22	22	13,5	13,5	22	22
Height	cm	60	90	115	115	60	90	115	115	60	90	115	115
Diameter	cm	30	30	34	34	30	30	34	34	30	30	34	34
Weight	kg	10,8	13,8	17,3	17,3	10,8 9,8	13,8 12,8	17,3 16,3	17,3 16,3	9,5	12,2	15,3	15,3
Dynamic Control Display compatibility (CMT800)		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Wireless system compatibility (CM187)		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
SOFT START starting		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Right and left dust inlet		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Right and left air exhaust		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
AVI display		YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO
AVT panel		NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES
ModBus communication system		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
QUICK FIX bracket		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
APF system		YES	YES NO	YES	YES	YES NO	YES NO	YES NO	YES NO	NO	NO	NO	NO
Built-in vacuum socket		YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO
CLEAN BAG		YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO
Multifunction Pockets		NO	YES	YES	YES	NO	YES	YES	YES	NO	NO	NO	NO
Silencer as standard equipment		NO	YES	YES	YES	NO	YES	YES	YES	NO	YES	YES	YES
1 IP55 exhaust conveyor with exhaust tubing IP43 direct exhaust from the central power unit, without exhaust piping						2 IP45 exhaust conveyor with exhaust tubing IP43 direct exhaust from the central power unit, without exhaust piping							

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FORESEEN USE

The central power unit was designed to be connected to tubing able to vacuum dust. The operator uses the hose and cleaning accessories connected to the Aertecnica 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 CLEAN BAG (in the PERFETTO TXA, TPA and TP series) must be replaced with a new one each time that it is filled.

The dust container (in the CLASSIC TC series) must be emptied each time that it is filled.

The filter cartridge must be regenerated periodically and must be replaced every 2-3 years or immediately if it breaks. When replacing spare parts, use original Aertecnica spare parts.

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Use personal protection garments before carrying out operations such as emptying the dust container or replacing/cleaning the filtering cartridge.



PROHIBITED USE

- Do not vacuum lighted cigarettes, hot embers or burning material: these materials may cause a fire to start that would damage the hoses and the central power unit.

- Do not vacuum cloths, rags, fabrics or textile material: these materials could obstruct the hoses or damage the central power unit.

- Do not allow children to play with the vacuum sockets, opening and closing them continuously or inserting toys or solid items of unsuitable dimensions.

- Do not use the system with the central power unit turned on without the filter cartridge inserted.

- Do not block the air exhaust line.

- Do not block the air sockets for electric motor cooling.

- Do not use the cleaning accessories to vacuum parts of the body.

- Do not install the central power unit in an environment classified as ATEX as per European Union standards.

UNAUTHORISED USE

- Do not vacuum liquids, materials saturated with liquids or very moist materials: these materials could cause the electric system to short circuit, prevent the proper passage of the dust or damage the sockets and the central power unit.

Liquid can be vacuumed using a special accessory (art. AP372; art. 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 be over the age of 14 years.

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.

TURNING ON/OFF

The standard hose comes in two types:

TYPE 1 : hose with an activator union: the central power unit turns on when the union (B) is inserted in the vacuum socket (A).

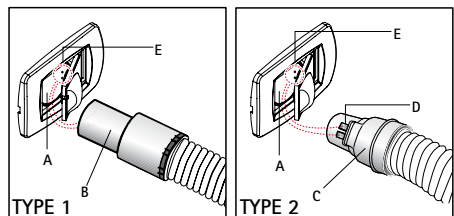
TYPE 2: hose with a switch: the central power unit is turned on using the switch on the hose itself.

Insert the hose-socket union with the special plates (D) in correspondence of the contacts (E) inside the socket.

To turn off the central power unit:

with the TYPE 1 hose, remove the hose from the vacuum socket (A);

with the TYPE 2 hose, move the switch to the OFF position



NOTE

With socket models Air Active, Open and the NEW AIR sockets with a microswitch (NA699) the central power unit turns on when the socket door is opened.

BUILT-IN VACUUM SOCKET

The models in the PERFETTO TXA, TPA and TP line have a built-in vacuum socket (1).

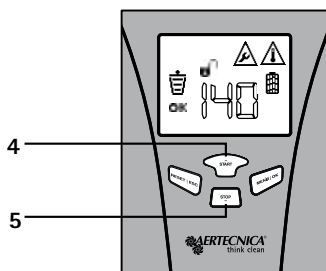
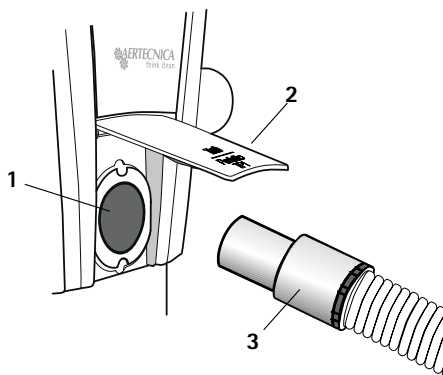
Turning on the central power unit

After inserting the union (3) in the socket (1), start the central power unit by pressing the START button on the control panel (4).

Turning off the central power unit

The central power unit turns off by pressing the STOP button on the control panel (5) for one second or 15 seconds after closing the door (2).

The built-in vacuum socket can be used for cleaning the central power unit's equipment room.



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THE WIRELESS KIT (CM187)

The Wireless hose is the solution for situations in which the system does not have the electrical preparation or to add a new socket to an already existing system without installing the 12V socket line.

It can be used with all types of vacuum sockets.

The kit includes a wireless hose (1) and a receiver (2).

The 12V socket line cable that is supplied with the central power unit must be connected directly to the wireless input on the central power unit's electronic card.

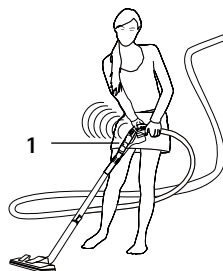
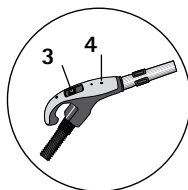
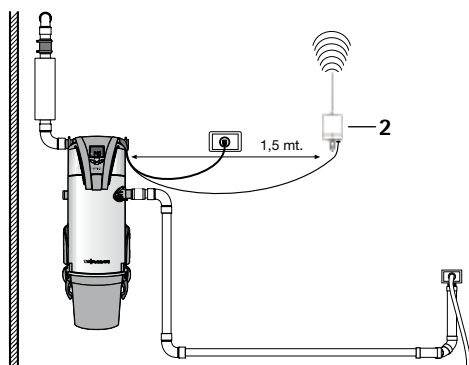
Receiver transmission power

Inside a building, the transmission range between the wireless hose and the receiver is 15 m, which makes it possible to go up or down 2 floors.

Starting/stopping the central power unit

The central power starts when the START/STOP button is pressed (3). The LED (4) turns green.

The central power unit stops when the START/STOP button is pressed again or 15 seconds after the vacuum socket door is closed.



OPENING THE PACKAGING

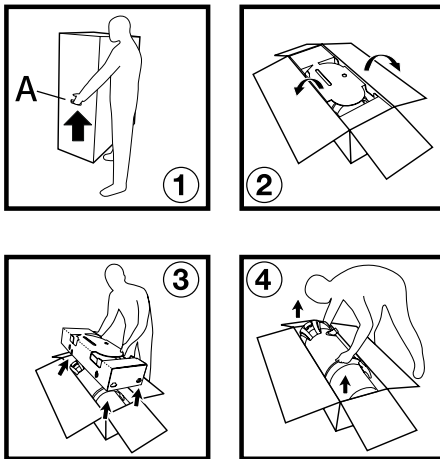
The central power unit is delivered inside cardboard packaging to make it easier to transport.

It is recommended to not remove the packaging until installation to prevent damaging it.

When opening the central power unit packaging, follow the instructions indicated on the sides of the cardboard box.

Check that the product is not damaged and that the box contains the warranty voucher with the coupon to be filled out completely and resent to Aertecnica (see WARRANTY paragraph).

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HANDLING THE PACKAGING

To lift and transport the central power unit, use the handles positioned on the sides of the packaging (A).

NOTE



The packaging elements that accompany the central power unit upon delivery are inert solid waste that must be disposed of according to current applicable regulations.

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.

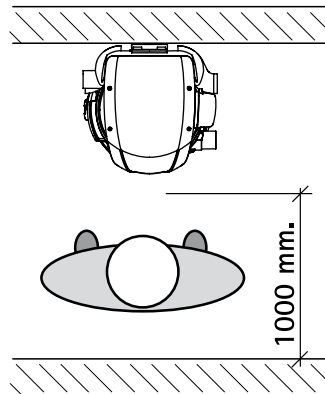
The high level of electrical protection and resistance to the elements allows for the extension of installation of the central power unit to outdoor environments, on balconies, loggias and verandahs.

The 220/240 power supply and the socket activation line must be near to the central power unit in order to activate the vacuum cleaning system.

The installation location must have adequate dimensions (a minimum of 1,000 mm in front of the central power unit) to allow for filter cartridge, dust bag or dust container replacement operations.

The installation location must be sufficiently illuminated (minimum of 300 lumen) to allow for maintenance operations and operations on the central power unit control panel.

The central power unit must not be placed in an environment classified as ATEX.



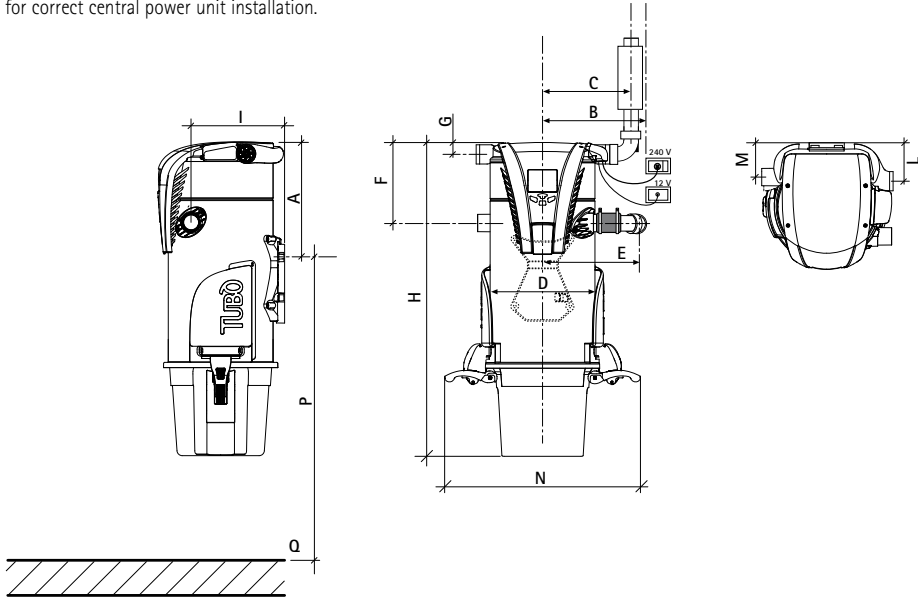
NOTE



External central power unit
When installing the central power unit externally ensure that a junction box with an adequate degree of electrical protection is used.

CENTRAL POWER UNIT INSTALLATION ALLOWANCES

The following table specifies the main reference allowances for correct central power unit installation.



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	PERFETTO TXA				PERFETTO TP - PERFETTO TPA				CLASSIC TC			
	TX1A	TX2A	TX3A	TX4A	TP1/TP1A	TP2/TP2A	TP3/TP3A	TP4/TP4A	TC1	TC2	TC3	TC4
A	138	328	418	418	138	328	418	418	138	328	418	418
B	350	350	350	350	350	350	350	350	350	350	350	350
C	257	257	257	257	257	257	257	257	257	257	257	257
D	300	300	340	340	300	300	340	340	300	300	340	340
E	286	286	304	304	286	286	304	304	286	286	304	304
F	230	230	340	340	230	230	340	340	230	230	340	340
G	34	34	34	34	34	34	34	34	34	34	34	34
H	600	900	1115	1115	600	900	1115	1115	600	900	1115	1115
I	273	273	308	308	273	273	308	308	273	273	308	308
L	115	115	137	137	115	115	137	137	115	115	137	137
M	103	103	112	112	103	103	112	112	103	103	112	112
N	560	560	600	600	560	560	600	600	560	560	600	600
P**	1500	1400	1400	1400	1500	1400	1400	1400	1500	1400	1400	1400

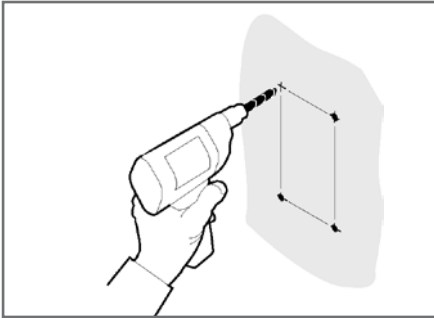
P** recommended allowance

Q floor level

The indicates measurements are in mm.

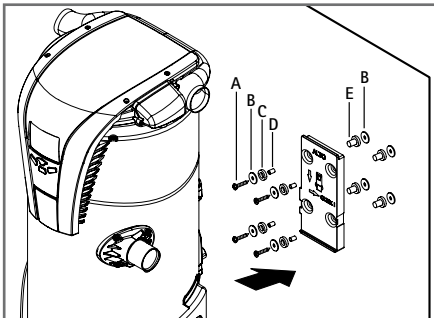
BRACKET FASTENING

1 - Make the holes in the wall

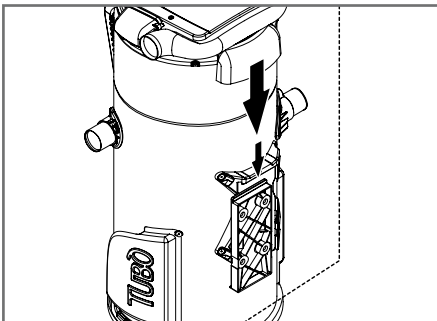


2 - Fasten the bracket to the wall following the described assembly order:

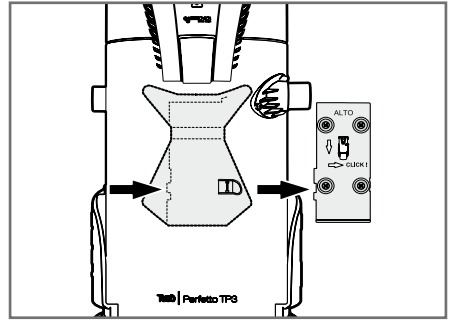
- A - Screw 6x70
- B - Flat washer 6x24
- C - Rubber washer
- D - End stop
- E - Rubber antivibration pad



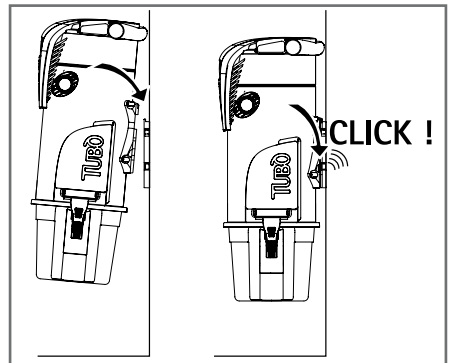
3 - Stand with the central power unit in front of the bracket and use a downward movement to hook the central power unit support to the bracket slide.



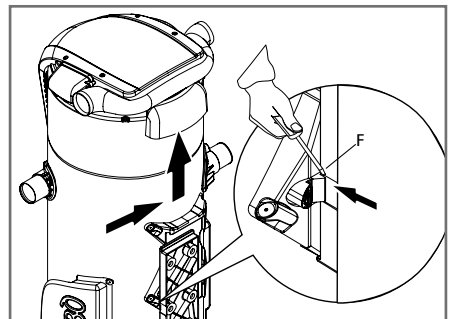
4 - With a simple left to right movement, slide the central power unit support to the end stop.



5 - The lock hook must release with a CLICK; use a screwdriver for leverage if necessary (see figure 6, letter F).



Unhooking the central power unit



6 - To unhook the central power unit from the support, press the lock hook with the help of a screw driver (F). Slide the central power unit to the left and lift it.

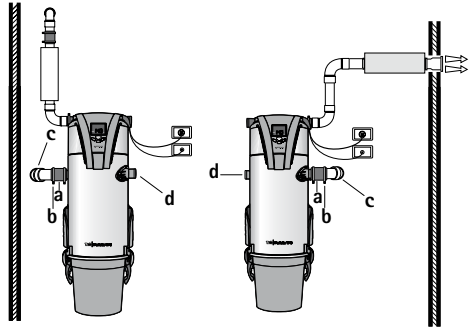
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CONNECTION DUST INLET LINE

Dust inlet line connection

All of the central power units have a dual dust inlet to permit the connection of the socket line hose on both sides of the central power unit, making installation easier.

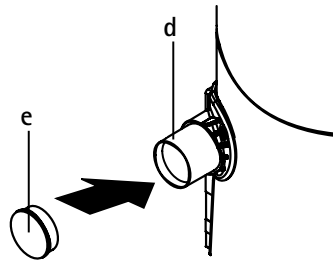
Select the most convenient central power unit dust inlet to connect the dust inlet line. Assemble the rubber sleeve (a) on the dust inlet using the two provided clamps (b) and connect it to the inlet hose (c).



NOTE

Close the dust inlet not in use

The dust inlet not in use (d) must be closed by pressing on the relevant closing cap (e) provided.



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CONNECTION EXHAUST CONVEYOR LINE

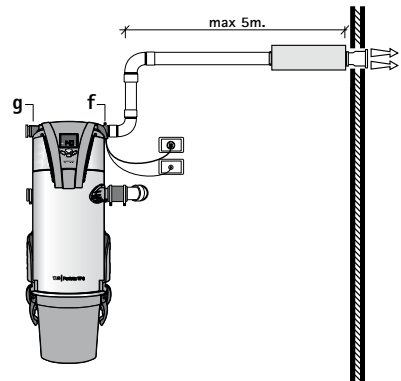
All of the central power units have a dual air exhaust outlet to permit the installation of the air exhaust line on both sides of the central power unit, making installation easier.

Select the most convenient air exhaust outlet to connect the central power unit. Connect the exhaust conveyor line hose with the provided clamp (f).

It is recommended to install an exhaust hose that is no longer than 5 metres.

If the exhaust line is longer, use a hose with a diameter of $\varnothing 63$ or larger and install a silencer of a suitable diameter.

Always position the silencer near the exhaust grille.

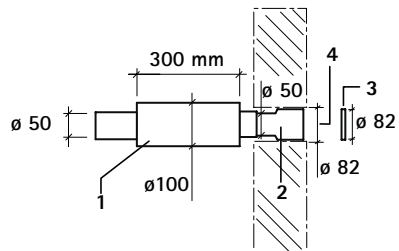


Air exhaust line components

- 1 - silencer $\varnothing 100$
- 2 - conical increase $\varnothing 50F - \varnothing 82F$
- 3 - exhaust grille $\varnothing 82$
- 4 - outlet hole $\varnothing 82$

Use an exhaust grille code TR310 or similar grille without the presence of insect protection netting.

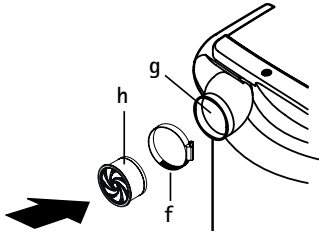
In the instance of a $\varnothing 50$ terminal, use an exhaust grille code TR316.



NOTE

Close the air discharge union not in use

The air discharge union not in use (g) must be closed using cap (h) and fixed using the clamp (f) provided.

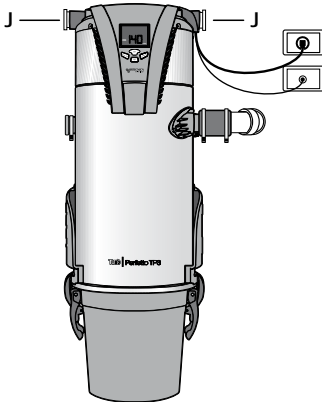


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DIRECT EXTERNAL AIR EXHAUST LINE

If the central power unit is installed outside (on a terrace, balcony or loggia) the air exhaust conveyor is not needed as it uses the air exhaust openings (J) on the central power unit itself.

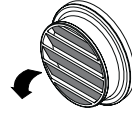
It is necessary to assemble, on both openings (J) the relevant discharge grilles, provided with the central power unit, according to the description provided in the following paragraph.



AIR DISCHARGE GRILLE

Fit the 2 grilles in both air exhaust openings following the instructions indicated below.

The **inner side** is the one with the grille; the grille blades must be rotated downward.



The **external side** is the one with a helicoidal section drawing.

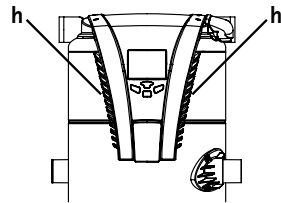


NOTE

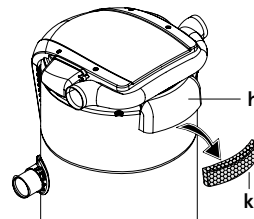
This solution is indicated only for central power units installed externally.

ELECTRIC MOTOR AIR INTAKES

The PERFETTO TX3A and TX4A, TP3A and TP4A, TP3 and TP4, TC3 and TC4 power units have air intakes (h) that must not be blocked to guarantee electric motor cooling.



Remove the internal protective sponge (k) and wash it once a year to ensure air passage.



ELECTRICAL CONNECTION OF THE TUBÒ SYSTEM



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.



The central power unit electric power supply system must be installed by qualified personnel in compliance with current applicable regulations.

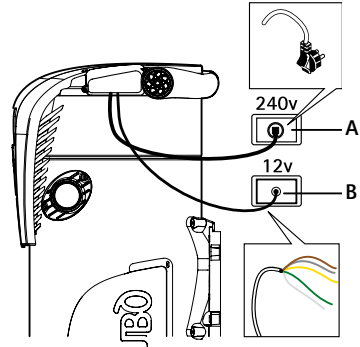
The manufacturer declines all liability for poor operation or damage to people and/or property due to connection to a non-compliant electric system

Connection of the central power unit to the power supply line

The power supply cable with Schuko plug (A) for the central power unit is supplied as standard equipment with the central power unit.

Connection of the central power unit to the socket line

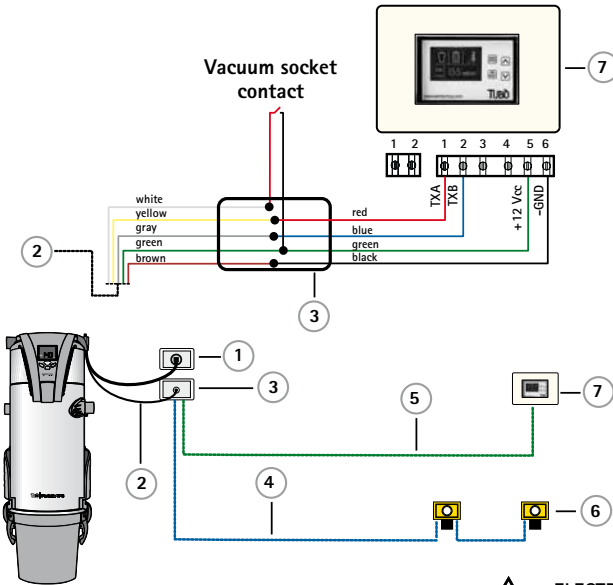
A socket cable connection is supplied with the socket activation line and remote data transmission (B) as standard equipment.



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ELECTRICAL CONNECTION DIAGRAM

To make the socket line connection, wire the central power unit connection cable as shown in the figure



DISCONNECT THE POWER SUPPLY TO THE CENTRAL POWER UNIT

To fully disconnect the central power unit from the electric line, remove the Schuko plug (A) from the power point.



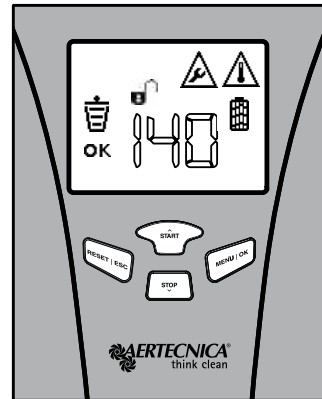
ELECTRICAL DANGER

If the power supply cable is damaged, it must be replaced by the manufacturer or its Technical Service Centre or in any case by a specialised technician in order to prevent all electrical hazards.

CONTROL PANEL WITH AVI DISPLAY AND KEYBOARD

(for PERFETTO TXA, TPA and TP central power units)

The central power unit has a control panel that includes an AVI display (immediate display) and a built-in keyboard to navigate and control the various central power unit operating parameters.



AVI DISPLAY

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The alpha-numeric display is controlled by the EVOLUTION 1.0 electronic card and is used to control the following parameters:

CLEAN BAG FILLING

This detects the filling level of the dust container and displays 4 different levels.

FILTER CARTRIDGE SATURATION

This detects the saturation level of the filter cartridge and displays 5 different levels.

OPERATING VACUUM RANGE

This displays the vacuum level at which the central power unit is operating: LO (low) - OK (correct) - HI (high)

OPERATING VACUUM

This displays the operating vacuum level of the central power unit

MOTOR POWER PERCENTAGE

This displays the motor power percentage that is adjusted on the hose with the speed variator.

TOTAL MOTOR HOURS

This displays the total hours of use of the central power unit.

MOTOR TEMPERATURE

Displays the motor temperature.

STARTING ANOMALY/LOCK

Displays an anomaly/lock due to an excessive number of starts within a 1 minute period.

MOTOR TEMPERATURE ANOMALY/LOCK

Displays an anomaly/lock due to the engine temperature exceeding 80°C.

MAXIMUM USE TIME ANOMALY/LOCK

Displays an anomaly/lock due to continuous use of the central power unit for 30 minutes.

KEYBOARD

The keyboard has 4 buttons that are used to perform the following functions:

START BUTTON / Δ

The START button is used to start the central power unit after inserting the hose in the built-in vacuum socket.

The Δ arrow is used to navigate the upper menu in the programme.

STOP BUTTON / ∇

The STOP button is used to turn off the central power unit. The unit also turns off 15 seconds after the built-in vacuum socket door is closed. The ∇ arrow is used to navigate the lower menu in the programme.

RESET/ESC BUTTON

Pressing the button, the central power unit is reset after a lock or anomaly (see ANOMALY OR LOCK paragraph).

MENU/OK BUTTON

By pressing the button, it displays the central power unit's maintenance cycles.

CONTROL PANEL OPERATION

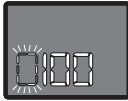
ALPHA - NUMERIC DISPLAY

With the central power unit ON, it displays the following operating parameters:



OPERATING VACUUM

In standard operating conditions, it displays the operating vacuum level of the central power unit



MOTOR POWER PERCENTAGE

by pressing the MENU key once, it displays the motor power percentage that is adjusted on the hose with the speed variator.



TOTAL MOTOR HOURS

pressing the MENU key twice, it displays the total hours of central power unit use



MOTOR TEMPERATURE

pressing the MENU key three times, it displays the temperature of the motor chamber

Once the vacuuming phase is completed with the central power unit in STAND BY, this displays the following operating parameters:



TOTAL MOTOR HOURS

this displays the total hours of use of the central power unit



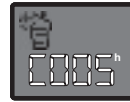
FILTER SATURATION

by pressing the MENU key once, it displays the saturation degree of the filter cartridge, expressed in mbar according to this reference scale:

0 mbar = filter clean

10 mbar = filter saturated 50%

20 mbar = filter saturated 100%



BAG FILLING

pressing the MENU key twice, it displays the amount of time that passed, in hours, since the last CLEAN BAG maintenance was performed



STAND BY

If 30 seconds pass without pressing any key, 3 continuously flashing LED appear in the display.

By pressing any key, the central power unit exits STAND BY status and displays the total hours of central power unit use.

CONTAINER/CLEAN BAG

FILLING LEVEL

This calculates the presumed filling level of the dust container or CLEAN BAG, using 4 progressive stages.



filling level 25-49 %



filling level 50-74 %



filling level 75-99 %



filling level 100 % - the bag is completely full and must be replaced
(see ANOMALY AND LOCK TABLE)

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FILTER CARTRIDGE SATURATION LEVEL

The filter cartridge saturation level is displayed with 5 progressive stages.



saturation 20 - 39 %



saturation 40 - 59 %



saturation 60 - 79 %



saturation 80 - 99 %



saturation 100 % - the central control unit stops due to filter saturation lock.
(see ANOMALY AND LOCK TABLE)

OPERATING VACUUM RANGE

Indicates the vacuuming power at which the system is operating. 3 different vacuum levels are shown on the display

LO

vacuum low
(0 - 89) mbar)

OK

vacuum correct
(90 - 170) mbar)

HI

vacuum high
(171 - 240) mbar)

HI

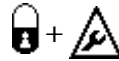
If the system operates at a vacuum level greater than 240 mbar, the wording will flash and the central power unit will be locked after 15 seconds due to excessive operating vacuum.
(see ANOMALY AND LOCK TABLE)

STARTING ANOMALY/LOCK

Displays an anomaly/lock due to an excessive number of starts/stops within a 1 minute period.



After 5 consecutive starts during a one minute period, the warning light signals that the central power unit will be locked if started again within one minute. (see ANOMALY AND LOCK TABLE)



After 6 consecutive starts during a one minute period, the central power unit is locked.
(see ANOMALY AND LOCK TABLE)

MOTOR TEMPERATURE ANOMALY/LOCK

Displays an anomaly/lock due to the motor chamber temperature exceeding 80°C.



the temperature warning light appears, which flashes together with the fixed maintenance warning light that indicates a central power unit lock due to motor chamber overheating.
(see ANOMALY AND LOCK TABLE)

MAXIMUM USE TIME ANOMALY/LOCK

Displays an anomaly/lock due to continuous use of the system for 30 minutes.



After 29 minutes of continuous system use, a flashing clock appears that indicates the maximum use time.
(see ANOMALY AND LOCK TABLE)



The central power unit is locked due to continuous system use for 30 minutes.
(see ANOMALY AND LOCK TABLE)

AVT CONTROL PANEL

(on CLASSIC TC central power units)

AVT PANEL

The central power unit is equipped with an AVT panel (timed display) that makes it possible to display the central power unit's main maintenance operations.

CONTROL PANEL OPERATION

DUST CONTAINER FILLING LED

Indicates the presumed maximum filling of the dust container.

When the LED turns on, the dust container is full and must be emptied.

Perform the maintenance and turn off the signal by pressing the PRESS RESET button.



FILTER CARTRIDGE SATURATION LED

Indicates the presumed maximum saturation of the filter cartridge.

When the warning light turns on, the filter cartridge is saturated and must be regenerated or replaced.

Perform the maintenance and turn off the signal by pressing the PRESS RESET button.



MOTOR TEMPERATURE LED

This indicates a central power unit lock due to a motor chamber temperature that exceeds 80°C.

To reset central power unit use, the temperature must go below 55°C.

After the temperature has gone below 55°C, press the PRESS RESET button to remove the signal



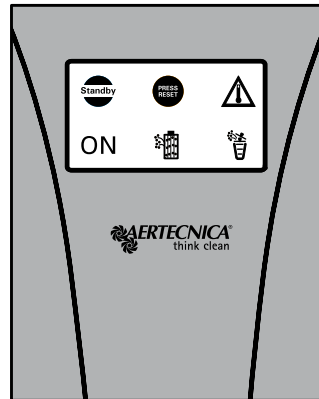
LED ON

This indicates normal central power unit operation.



LED ON BLINKING

Indicates that the operating vacuum exceeds the value of 240 mbar. The central power unit will be locked after 15 seconds.



LED STAND BY

This indicates that the central power unit is powered but not being used.



PRESS RESET BUTTON

This is used to reset central power unit anomalies



HIGH OPERATING VACUUM LOCK

The central power unit is locked because the operating vacuum exceeded the 240 mbar limit for more than 15 seconds;

The ON and PRESS RESET lights blink (see LOCK TABLE of the TC central power units)

Switch off the signal by pressing the PRESS RESET button.



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CENTRAL POWER UNIT INSPECTION

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

PERFETTO TXA, TPA AND TP CENTRAL POWER UNITS

Check 1

Activate the central power unit with all sockets closed by pressing the START button on the control panel. The display will show the maximum vacuum level reached by the central power unit, which will stop automatically after 15 seconds. Note the value that was reached (value 1).

Disconnect the tubing from the central power unit and place a cap on the central power unit inlet.

Reactivate the central power unit and note the value that was reached (value 2) indicated on the display.

Check that the difference between values 2 and 1 does not exceed 15 mbar.

If the value is higher, this means that there are leaks that must be found and repaired.

Check 2

Compare value 2 with the vacuum value indicated in the technical features table for the central power unit model that was purchased.

Check that the difference between the two values does not exceed 10% of the table value.

If the value is higher, contact the Aertecnica Service Centre.

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Note

The values indicated in the table refer to a power supply voltage of 240 V at 50 Hz. If the mains voltage is less, use the following formula:

every 10 volt = 10 mbar (example with the TP1 central power unit: 270 mbar at 240 V = 250 mbar at 220 V).

CLASSIC TC CENTRAL POWER UNITS

Check 1

Activate the central power unit with all sockets closed, jumpering the 12V socket line.

Inserting the vacuum gauge in the dust inlet that is not used or in any vacuum socket, check the vacuum value obtained by the central power unit, which will stop automatically after 15 seconds. Note the value that was reached (value 1).

Disconnect the tubing from the central power unit and insert a vacuum gauge (AT010) in its place. Activate the central power unit jumpering the 12V socket cable line; check the vacuum value obtained by the central power unit, which will stop automatically after 15 seconds. Note the value that was reached (value 2).

Check that the difference between values 2 and 1 does not exceed 15 mbar.

If the value is higher, this means that there are leaks that must be found and repaired.

Check 2

Compare value 2 with the vacuum value indicated in the technical features table for the central power unit model that was purchased.

Check that the difference between the two values does not exceed 10% of the table value.

If the value is higher, contact the Aertecnica Service Centre.

Note

the values indicated in the table refer to a power supply voltage of 240 V at 50 Hz. If the mains voltage is less, use the following formula:

every 10 volt = 10 mbar (example with the TP1 central power unit: 270 mbar at 240 V = 250 mbar at 220 V).

VACUUM TEST – FOR ALL CENTRAL POWER UNITS

Insert the hose in the furthest socket and activate the central power unit.

For PERFETTO TXA, TPA and TP central power units: the vacuum value will appear on the display; if the value is correct (RANGE between 90 and 170 mbar) OK will be displayed. In this case, the test is positive.

Otherwise, contact the Aertecnica Service Centre.

For CLASSIC TC central power units: insert the vacuum gauge (AT010) in the socket adjacent to the one occupied by the hose; if the vacuum value is correct (RANGE between 100 and 150 mbar) the hand will point to the green zone. In this case, the test is positive. Otherwise, contact the Aertecnica Service Centre.

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.



The central power unit must not be operated without the filter cartridge inserted. Failure to observe this rule could cause damage to the motor that is not covered by the warranty.

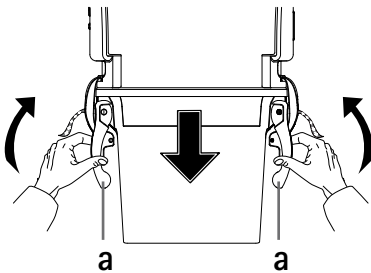
ORDINARY MAINTENANCE FOR PERFETTO TXA, TPA AND TP CENTRAL POWER UNITS

CONTAINER EMPTYING

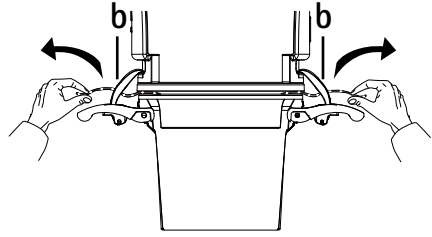
These central power units indicate the **CLEAN BAG** filling level on the display.

It is recommended to replace the **CLEAN BAG** before it reaches its maximum capacity limit.

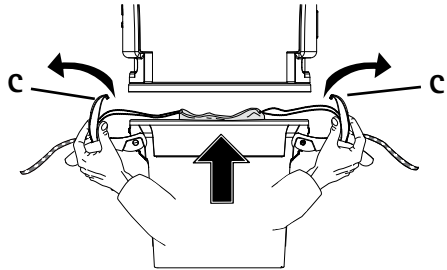
1 - Rotate both handles (a) upwards simultaneously. The dust container will lower.



2 - Close the **CLEAN BAG** by pulling the strips (b) all the way, without unhooking the dust container.

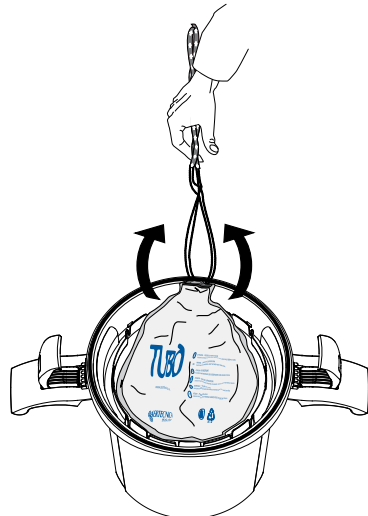


3 - Unhook the container from the support by opening the levers (c) sideways and put it on the ground.



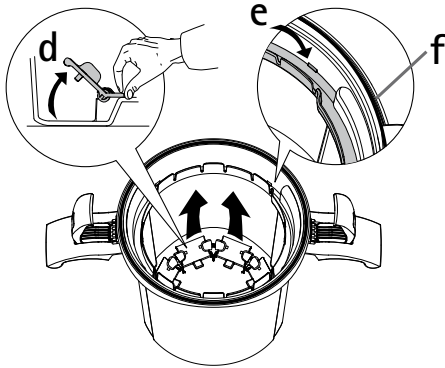
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4 - Remove the full bag and dispose of it (in compliance with the environmental regulations valid in the country of use)



CLEAN BAG INSERTION

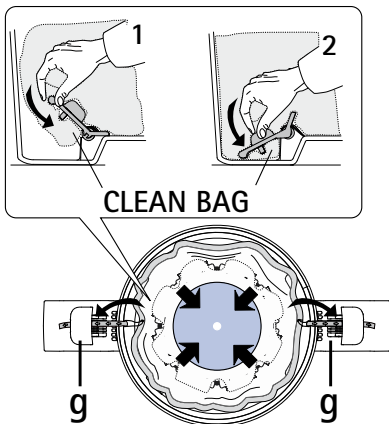
1 - Open the CLEANBAG blocking system clamps that are on the bottom of the dust container (d). Check that the bag tensioner ring is fixed to the dust container under the appropriate joints (e). Check that the dust container gasket (f) is in the correct position.



2 - Insert the CLEAN BAG in the dust container ensuring that the blue disc (printed on the bottom of the bag) is placed at the centre of the container. The strips must be levelled with the handles.

NOTE

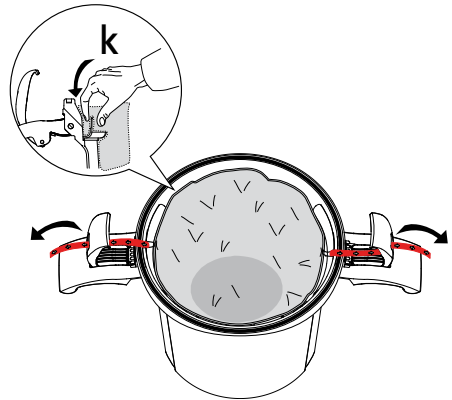
The dust bag must be inserted so that the strips enter the slots (g) of the dust container handles. Fold the CLEANBAG under each clamp pair (1-2) and close them one at the time ensuring that the bottom of the bag is completely fitted inside the blocking system.



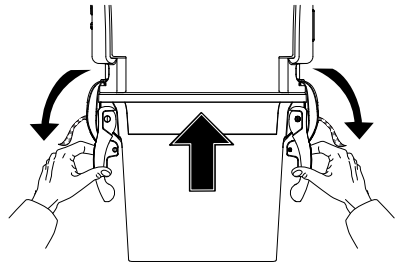
3 - Fold the upper part of the bag inside the bag tensioner ring (k). The CLEANBAG must adhere to the internal walls of the dust container. Insert the strips into the handle slots (g) allowing them to come out of the container.

NOTE

Only the strips of the dust container must come out: any overhanging parts of the bag can create anomalous noises and loss of air.



4 - Rehook the dust container and close the handles.



FILTER CARTRIDGE REPLACEMENT



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

It is recommended to replace the filter cartridge every 2-3 years.

This period may change depending on the degree of system use.



ATTENTION



When carrying out this operation, it is easy to come into contact with the dust collected on the cartridge walls.



Before removing the filter cartridge, it is recommended to wear suitable personal protective garments.

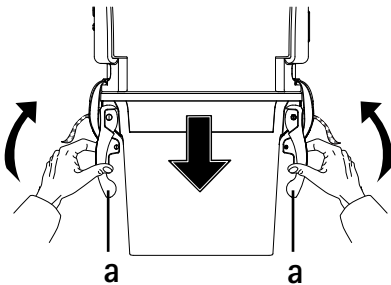
These central power units display the filter cartridge clogging level.

The filter cartridge maintenance signal will appear on the central power unit AVI display

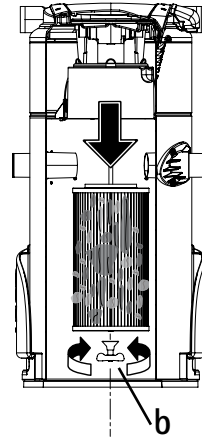
NOTE

It is recommended to replace the cartridge when the clogging level indicated on the display exceeds 80%.

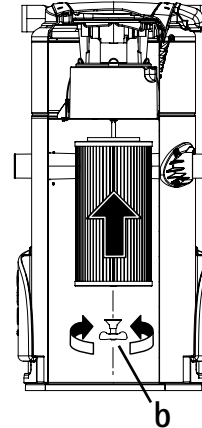
1 - Open the dust container rotating the handles (a)



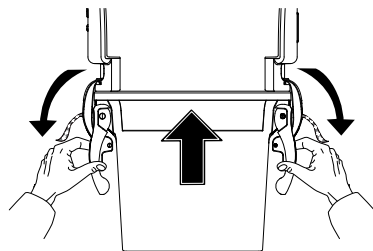
2 - Unscrew the knob (b) that fastens the cartridge and remove it from its housing



3 - Insert a new cartridge and tighten the knob completely (b). The alignment system guarantees perfect filter cartridge fastening.



4 - Rehook the dust container and close the handles.



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ORDINARY MAINTENANCE ON CLASSIC TC CENTRAL POWER UNITS

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.

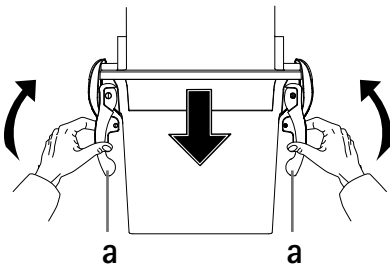


The central power unit must not be operated without the filter cartridge inserted. Failure to observe this rule could cause damage to the motor that is not covered by the warranty.

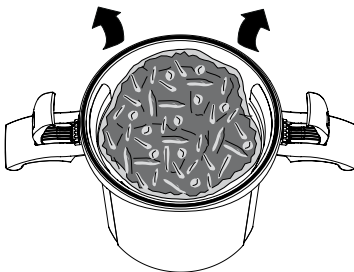
english CONTAINER EMPTYING

This operation is necessary when the full container warning light lights up on the AVT panel.

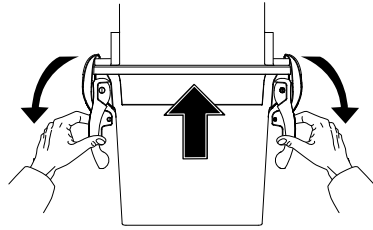
1 - Rotate both handles (a) upwards simultaneously. The dust container will lower.



2 - Empty the dust container in a suitable collection bag or container and dispose of it correctly (in accordance with current environmental standards in the country of use).



3 - Rehook the dust container and close the handles.



FILTER CARTRIDGE REPLACEMENT



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

It is recommended to replace the filter cartridge every 2-3 years.

This period may change depending on the degree of system use.



ATTENTION

When carrying out this operation, it is easy to come into contact with the dust collected on the cartridge walls.

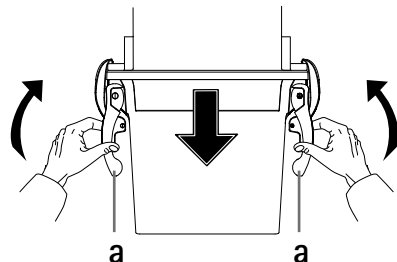


Before removing the filter cartridge, it is recommended to wear suitable personal protective garments.

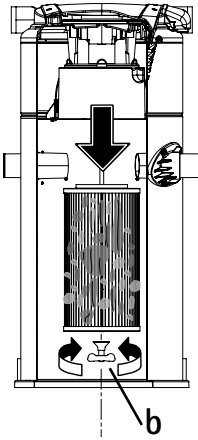


This operation is necessary when the saturated filter cartridge warning light lights up on the AVT panel.

1 - Open the dust container rotating the handles (a)

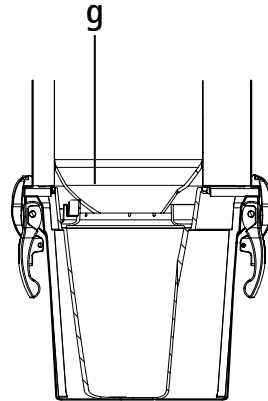


2 - Unscrew the knob (b) that fastens the cartridge and remove it from its housing

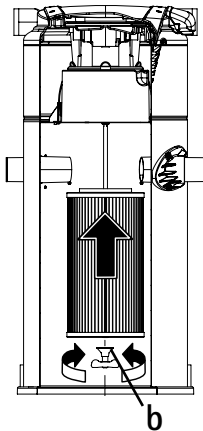


NOTE

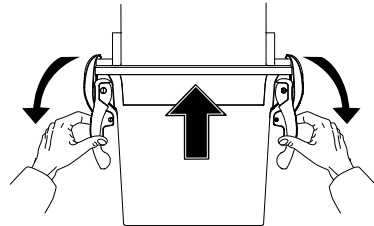
Check that the dust container gasket (g) is in good condition and placed correctly.
In case of anomaly call a Technical Service Center.



3 - Insert a new cartridge and tighten the knob (b). The alignment system guarantees perfect filter cartridge fastening.



4 - Rehook the dust container and close the handles.



USE ONLY ORIGINAL
AERTECNICA SPARE PARTS

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FILTER CARTRIDGE REGENERATION (for all central power unit models)

NOTE

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.

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

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The AVI display for the PERFETTO TXA, TPA and TP series shows the filter cartridge saturation level. It is recommended to regenerate the cartridge in any case when the clogging level indicated on the display exceeds 80%.

The AVT panel for the CLASSIC TC series shows the saturated filter cartridge indication.



ATTENTION

When carrying out this operation, it is easy to come into contact with the dust collected on the cartridge walls.



Before removing the filter cartridge, it is recommended to wear suitable personal protective garments.



CARTRIDGE GASKET CHECK

Check the gasket condition (g) of the filter cartridge. Replace if damaged.



USE ONLY ORIGINAL
AERTECNICA SPARE PARTS

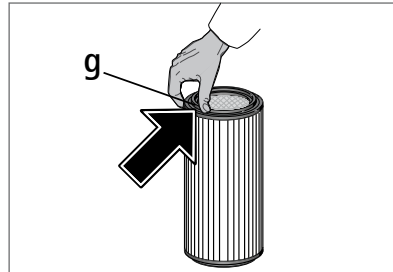
1 - Vacuum the dust collected on the saturated cartridge walls using the system itself.



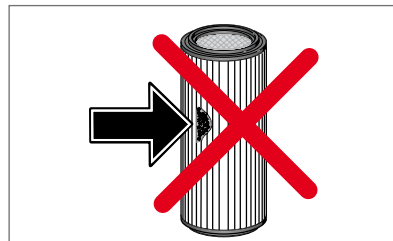
2 - After an initial brief cleaning, wash the filter cartridge with a jet of water that is not too strong and remove the dust that penetrated between the walls.



3 - Allow the cartridge to dry completely and check the gasket condition (g)



4 - Make sure that there are not any tears or cuts on the cartridge walls. In this case the damaged cartridge must be replaced with a new one.



CENTRAL POWER UNIT DISPOSAL

(for all central power unit models)

At the end of its life cycle, the machine must be disposed of in compliance with current applicable regulations.

The following table specifies the material with which the central power unit is built.



IMPORTANT
















The material listed below must be divided and stored to be recycled or disposed of in compliance with the environmental regulations valid in the country of use.







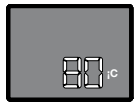
TYPE OF MATERIAL	CENTRAL POWER UNIT	PRESENCE IN THE SPECIFIC	DISPOSAL
Plastic and rubber	dust container, bag tensioner ring	30% talc filled polypropylene	The regulations that govern the disposal and demolition of the central power unit, its components and the possible polluting material and substances change depending on the country of final use.
	cover, cup, tangential openings, AVT panel, cone, document holder	polypropylene	
	under motor gasket	thermoplastic rubber	
	PRECISION filter cartridge	polyester + ABS	
	fastening bracket	30% glass filled nylon	
	antivibration bracket	rubber	
	rubber sleeves	SBR/NR rubber	
	wiring clamps, air exhaust grilles and caps	nylon	
	adhesives, Clean Bag	PVC	
	hooks, handles	PP +nylon	
	gaskets	mousse and pivilene	
	silencer	polystyrene	
Galvanised components	screws and rivets	galvanized steel	It is recommended to contact authorised organisations and agencies and to respect the current applicable legal regulations
Windings	electric motor and wiring	copper	
Electrical components	electronic card	misc material	
	turbine motor	misc material	
	AVI display	misc material	
	AVT panel	misc material	
	electric wires	copper	
	socket cable line	copper	
Metal components	schuko plug	copper	
	upper body	painted steel, stainless steel	
Packaging	clamps and pivots	galvanized steel	
	box	cardboard	
	interpads	cardboard	
	bags	polyethylene	

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ANOMALY AND LOCK TABLE - (for PERFETTO TXA, TPA and TP central power units)

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MAINTENANCE	LEVEL OF USE	ANOMALY	LOCK	INTERVENTION
CLEAN BAG FILLING	<p>these symbols appear</p> <p> 1 - filling 25-49%</p> <p> 2 - filling 50-74%</p> <p> 3 - filling 75-99%</p> <p>system operates normally</p>	<p>these symbols appear</p> <p> + </p> <p>4 - filling 100%</p>	--	<p>∅ necessary replace the bag.</p> <p>After replacing the bag: press MEN three times in a row.</p> <p>"C" will appear with the number of hours of bag use.</p> <p>Press RESET to reset use.</p> <p>Press OK to exit the procedure</p>
FILTER CARTRIDGE SATURATION	<p>these symbols appear</p> <p> 1 - saturation 20 - 39 %</p> <p> 2 - saturation 40 - 59 %</p> <p> 3 - saturation 60 - 79 %</p> <p>system operates normally</p>	<p>this symbol flashes</p> <p></p> <p>4 - saturation 80 - 99 %</p>	<p>these symbols appear</p> <p> + </p> <p>appears</p> <p>PRESS RESET</p> <p>appears</p> <p></p> <p>5 - saturation 100%</p>	<p>If cartridge replacement/regeneration occurs before the lock, the warning light will reset automatically the next time the central power unit is turned on.</p> <p>If the central power unit is locked, replace or regenerate the filter cartridge.</p> <p>Press RESET to reset use.</p>
TOO MANY STARTS	--	<p>this symbol flashes</p> <p></p> <p>5 consecutive starts of the central power unit in 1 minute</p>	<p>these symbols appear</p> <p> + </p> <p>appears</p> <p>PRESS RESET</p> <p>appears with 6 consecutive starts of the central power unit in 1 minute</p>	<p>If the central power unit has an anomaly, proceed with normal cleaning without turning off the system yet. After 1 minute of system use, the warning light will turn off on its own.</p> <p>If the central power unit is locked, press RESET to reset use.</p>

MAINTENANCE	LEVEL OF USE	ANOMALY	LOCK	INTERVENTION
<p>MAXIMUM TIME OF CONTINUOUS USE</p>	<p>--</p>	<p>this symbol flashes</p>  <p>29 consecutive minutes of continuous use</p>	<p>this symbol flashes</p>  <p>appears</p>  <p>appears</p> <p>PRESS RESET</p>	<p>If the central power unit has an anomaly, turn off the system to prevent it from locking. The central control unit will reset itself for use.</p> <p>If the central control unit is locked, press RESET or remove and reinsert the hose or turn the system off and on using the switch on the hose.</p>
<p>MAXIMUM VACUUM</p>	<p>--</p>	<p>this symbol flashes</p> <p>HI</p> <p>the operating vacuum exceeded 240 mbar</p>	<p>this symbol flashes</p> <p>HI</p> <p>appears</p>  <p>appears</p> <p>PRESS RESET</p>	<p>If the central control unit has an anomaly, reduce the intake within 15 seconds to prevent it from locking.</p> <p>If the central control unit is locked, press RESET to reset use or remove and reinsert the hose or turn the system off and on using the switch on the hose.</p>
<p>EXCESSIVE TEMPERATURE IN THE MOTOR CHAMBER</p>		<p>this symbol appears</p>  <p>motor temperature has exceeded 80°C</p>	<p>these symbols appear</p>  <p>appears</p> 	<p>If the central control unit has an anomaly, reduce the intake within 15 seconds to prevent it from locking.</p> <p>If the central control unit has locked, wait for the motor temperature to cool down to 55°C. After the motor has cooled down, press RESET to reset use.</p>

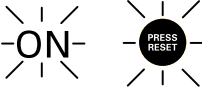

TROUBLESHOOTING - (for PERFETTO TXA, TPA and TP central power units)

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PROBLEM	CAUSE	SOLUTION	
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 number of consecutive central power unit starts within a period of 1 minute was exceeded		Check the electric connection on each socket. Press RESET to reset operation
			The electric contacts in the hose are dirty. Clean them as indicated in the accessory instructions. Press RESET to reset operation
	The maximum amount of time of continuous central power use has been exceeded		The microswitch in a vacuum socket is damaged. Call a specialised technician.
			The system remained on inadvertently for 30 consecutive minutes. Press RESET or turn the system off and on to reset operation
			Check the electric connection of the 12V socket cable line. Call a specialised technician.
	The motor overheated. The motor temperature exceeded 80 °C.		Check if the air exhaust line is free or if the two air exhaust openings are blocked. Wait for the motor to cool down. Press RESET to reset operation
		Make sure the filter cartridge is not saturated. In this case, perform maintenance. Wait for the motor to cool down. Press RESET to reset operation	
The vacuum exceeded 240 mbar for more than 15 seconds		The hose inlet is obstructed. Free the hose, turn the system on and off and press RESET	
The dust container is not correctly hooked		Rehook the container correctly.	
There is no air intake from a socket	The microswitch or the electric contacts in a vacuum socket are damaged.	Call a specialised technician.	

PROBLEM	CAUSE	SOLUTION
Low amount of air intake	There is clogging in the system	Call a specialised technician.
	The filter cartridge is saturated	Perform cartridge maintenance. Press RESET to reset operation.
	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 container gasket is damaged or out of position	Check the position of the dust container gasket.
	The air exhaust line is clogged	Check if the air exhaust line is free or if two air exhaust openings are blocked.
	The hose is partially obstructed.	Free the obstruction from the hose.
	The cap was not inserted correctly into the dust inlet not being used in the central power unit	Check that the dust inlet that is not being used is closed with the special cap.
	The built-in vacuum socket is damaged	Call a specialised technician.
The central power unit always remains activated even with the sockets closed	The microswitch or the electric contacts in a vacuum socket are damaged.	Call a specialised technician.
The AVT panel remains off	The central power unit power supply cable is disconnected	Connect the power supply cable.
	The protective fuse burnt out.	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		

ANOMALY AND LOCK TABLE - (for CLASSIC TC central power units)

MAINTENANCE	SIGNAL	LOCK	INTERVENTION
MAXIMUM VACUUM	<p>The symbols blink</p> 	The central power unit is locked because the operating vacuum exceeded 240 mbar.	<p>The central power unit is locked because the airflow is not sufficient.</p> <p>After the maintenance press the PRESS RESET button to switch off the lock signal and reset to normal use.</p>
EXCEEDING TEMPERATURE IN THE MOTOR CHAMBER	<p>The symbols blink</p> 	The central power unit is locked because the temperature of the motor chamber exceeded 80 °C.	Wait until the temperature of the motor lowers below 55°C. When this value is reached the PRESS RESET light lights up and the motor can be restarted.

TROUBLESHOOTING - (for CLASSIC TC central power units)

PROBLEM	CAUSE	SOLUTION
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 the two air exhaust openings are blocked. Wait for the motor to cool down. Press RESET to reset operation
		Make sure the filter cartridge is not saturated. In this case, perform maintenance. Wait for the motor to cool down. Press RESET to reset operation
The dust container is not correctly hooked	Rehook the container correctly.	
There is no air intake from a socket	The microswitch or the electric contacts in a vacuum socket are 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. Press RESET to reset operation.
	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 container gasket is damaged or out of position	Check the position of the dust container gasket.
	The air exhaust line is clogged	Check if the air exhaust line is free or if two air exhaust openings are blocked.
	The hose is partially obstructed.	Free the obstruction from the hose.
	The cap was not inserted correctly into the dust inlet not being used in the central power unit	Check that the dust inlet that is not being used is closed with the special cap.
The central power unit always remains activated even with the sockets closed	The microswitch or the electric contacts in a vacuum socket are damaged.	Call a specialised technician.
The AVT panel remains off	The central power unit power supply cable is disconnected	Connect the power supply cable.
	The protective fuse burnt out.	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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It is prohibited to use the central power unit for uses other than those described in this manual.

The descriptions and technical illustrations may change. Aertecnica S.p.A. reserves the right to modify the product and the related technical documentation without incurring any obligation to third parties.

This version of the user instruction and maintenance manual describes the features relative to the central power unit in standard production on the date on which this publication was licensed for printing.

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