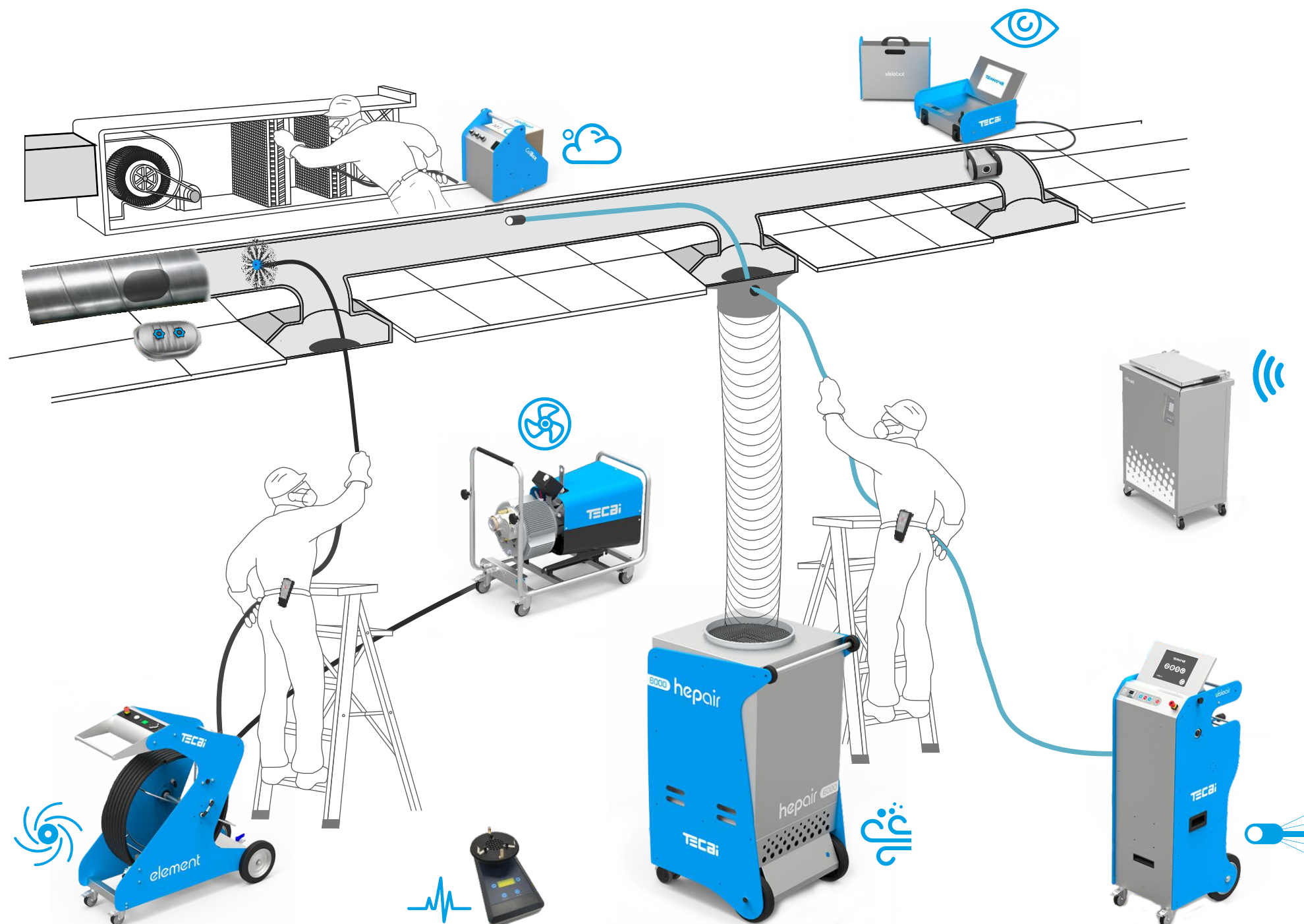
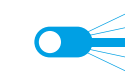


360°

for your cleaning
business in
air-conditioning
systems



01 INSPECTION SYSTEMS
FOR DUCTS Pages. 4-8



02 PRESSURIZED AIR DUCT
CLEANING. Pages. 7-8



03 BRUSHING ROBOTS FOR
DUCT CLEANINGS. Pages 9-18



04 VACUUM SYSTEMS FOR
DUCT CLEANING. Pages 19-21



05 AIR-CONDITIONING COILS
CLEANING SYSTEMS. Page 23



06 CHIMNEY CLEANING EQUIPMENT AND
HEAT EXCHANGER TUBES. Pages 24-25



07 ULTRASOUND CLEANING SYSTEMS
FOR GRILLES AND DIFFUSERS. Page 26



08 INDOOR AIR QUALITY MEASURING
EQUIPMENT. Pages 27-28



09 TOOLS AND RELATED
PRODUCTS. Page 29-36



10 AIR COMPRESSORS. Pages. 37-41



11 TRAINING PLANS. Page 42



YOU CAN BE A HEALTHY INDOOR SUPPLIER

The ducts for ventilation and air-conditioning can accumulate large quantities of dirt, and are ideal places for aerobic organisms and mold to grow, leading to more than 38% of absences due to sickness and illnesses caused by respiratory conditions. The sanitation of these systems offers great advantages to your clients, such as:

- ✓ Guaranteeing the health of your on-site personnel.
- ✓ Savings in maintenance and energy costs.
- ✓ Compliance with the law.

REASONS FOR STARTING THIS BUSINESS



THE MARKET

How many office buildings, official centers, hospitals, schools, public and private companies in your country?

According to the census of the National Institute of Statistics there are more than two million non-residential residential buildings in Spain. This enormous market demands services related to services related to CAI [Indoor Air Quality] Indoor Air Quality] for compliance with existing regulations, with respect to the improvement performance of their facilities, and concern for the health concern for the health of building occupants. With only 1% of this market in Spain, its customer base would amount to some 20,000 buildings.



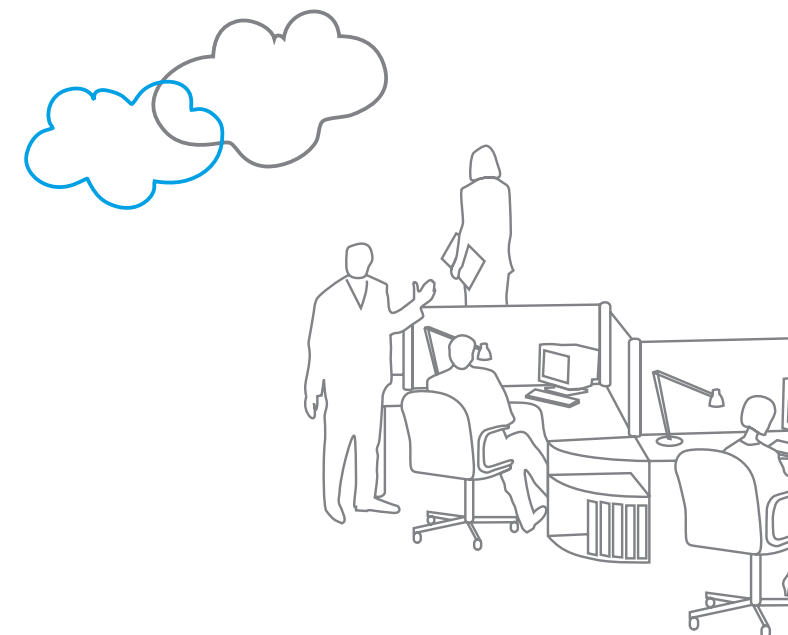
THE LAW

More and more countries are implementing regulations governing the cleaning and periodic maintenance of air conditioning systems. In Spain, RD 238 /2013, which amends the Regulation of Thermal Installations [RITE], requires, in its maintenance plans for buildings of over 70 kW, to perform an analysis of the entire air conditioning system based on the **UNE 100 012** standard, which establishes the parameters for sanitization and disinfection.



THE BUSINESS

After studying this data, we can clearly state that the business of cleaning air-conditioning systems is in a phase of full expansion. This represents an opportunity for both entrepreneurs and cleaning or maintenance companies who want to expand or diversify their business activities. These services can be approached with different configurations of equipment adapted to the nature and scale of the installations, and which can incorporate the latest technical innovations.



visiobot

Cleaning and inspecting air duct robot

As indicated by the various regulations, inspection before and after air duct cleaning work is mandatory. This is why Visiobot is your ideal complement. Its stainless steel structure makes it resistant to shocks and falls. It has a Non-Stop technology, because thanks to its integrated battery, it will allow you to work autonomously for more than 2 hours in the video inspection of air ducts. It also has a practical battery charge indicator to know its level at all times.



APPLICATIONS ▼



visiopro



The latest technology in visualization and recording of the images collected by Visiobot. It has High resolution Easy Touch screen, captures video and HD images, with text insertion, date and time of recording, playback of the recordings on the spot. Easy to use interface, large internal memory

OPTIONAL ACCESSORIES ▼



LITHIUM IRON BATTERY
VISIOBOT 5,5 Ah

COD. AC3303405



Transport system with trolley integrated in the control box, attached suitcase for housing the traction and cables.

TECHNICAL FEATURES

Power supply	230V - 50Hz 110V - 60Hz
Integrated battery	12 V - 5.5 Ah
Lighting	1 LED ring in front and 2 rear LED banks with variable brightness
Camera and lighting	High resolution HD color
Material	Stainless steel and HDPE
Dimensions [L x W x H]	745 x 415 x 175 mm 29.3 x 16.3 x 6.9 inch
Robot weight	2,4 kg 5.2 lb
Total weight	18 kg 39,6

visionmax

Portable video inspection system for extraction ducts

It is the video inspection tool prior to any cleaning intervention of fume extraction ducts, to convince your customers of the need to clean their ducts. It is a compact and portable system.



APPLICATIONS ▼



Scratch-resistant, waterproof, sapphire crystal LCD camera



TECHNICAL CHARACTERISTICS

Power supply	Rechargeable LI-ION type 9-12 V
Camera features	1/3" Sony CCD Ø22mm with sapphire crystal lens
Viewing range	1000 meters
Camera angle of vision	140 °
Image resolution	800 x 480 RGB
Monitor	7" TFT-LCD Color
Sealing [Camera]	Submersible to 20 m in water
Illumination	12 white LEDs of adjustable brightness
Charging time	8 hours
Battery duration	7 - 9 hours
Camera cable length	30 meters
Dimensions [L x W x H]	517 x 434 x 200 mm 20.3 x 17 x 7.9 inch
Weight	14 kg 31 lb

STANDARD EQUIPMENT ▼



ELECTRIC CHARGERS



RECHARGEABLE LI-ION BATTERY



CENTRATOR



WIRELESS REMOTE CONTROL

visionano

Ultra-portable video inspection system

VISIONANO is an ultra portable and ultra light system. It weighs only 530 g!, to be used as a commercial tool, for carrying out punctual, short-range inspections of ventilation system ducts. Often what is not seen or can not be demonstrated, is the barrier that postpones a work always necessary, when we talk about cleaning ducts in air conditioning systems. It has a maximum range of 4 meters.



Camera resolution
704 x 576 (PAL)



Includes case for transportation



OPTIONAL ACCESSORIES



EXTENSION FOR
CAMARA OF 1m
COD. AC3303404

TERCHNICAL FEATURES

Camera resolution	704 x 576 (PAL)
Screen resolution	640 x 480
Powered	4 batteries AA
Sealing (camera only)	IP-67
LCD screen	3,5" TFT-LCD
External power supply	5 V
Charging time	3 h
Battery life	2 h
Length of flexible shaft	1 m (extendable up to 4 m)
Dimensions	256 x 95 x 153 mm (without flexible shaft)
Weight	530 g

visionair

Duct Cleaning equipment with pressurized air

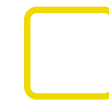
By means of the air injection system, it drags the dirt adhered to the ducts at the same time that displays, records and verifies the cleaning, through a micro camera on the intelligent head. With its perimeter cleaning technology, it goes through everything the duct, disincrusting all the dust particles and dirt. No matter what size, shape or material of the duct, the intelligent nozzles adapt to all situations.



APPLICATIONS ▼



Circular duct

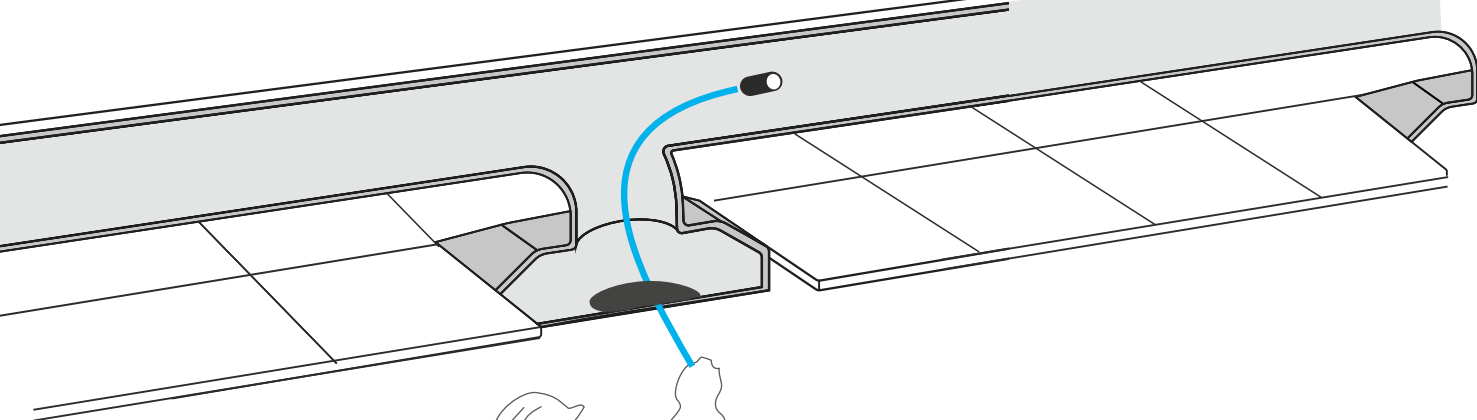


Fiber duct



Square duct



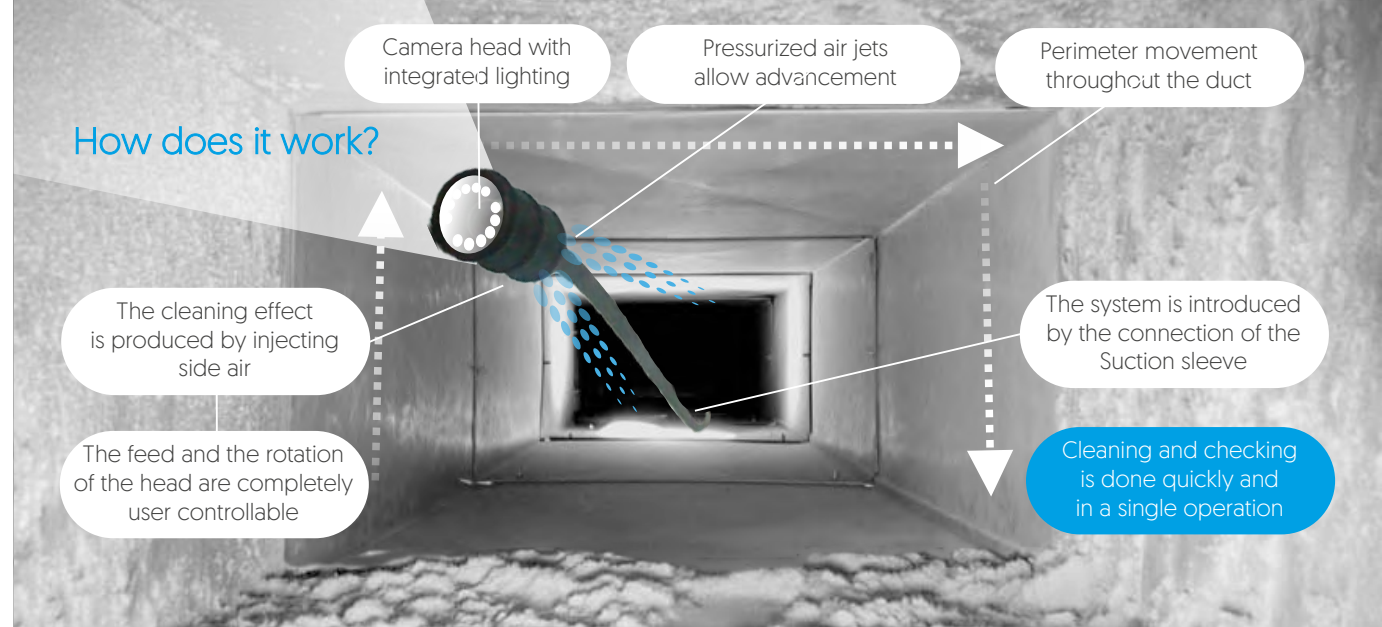


AIR COMPRESSOR AR100.
1300 l/m 13 bar

CO3330900: AR100 380V - 50/60Hz
CO3330800: AR100 220V - 50/60Hz

AIR COMPRESSOR AR100

- Visioair requires an air compressor for operation:
- ✓ All necessary air flow and pressure.
 - ✓ Low noise level for night work.
 - ✓ Being able to work continuously without heating.
 - ✓ High portability.



How does it work?

OPTIONAL ACCESSORIES



REMOTE CONTROL
ERGONOMIC RF
COD. AC3303122



AIR HOSE FLAT
OROFLEX. 30 meters.
COD. AC3101207

TECHNICAL FEATURES

Power supply	220 V - 50Hz 110 V - 60 Hz
Compressed air supply	800 litres/min (smart nozzle) 28.25 cfm
	800 litres/min (rotating nozzle) 28.25 cfm
Control	Manual electric-pneumatic with remote control
Sound level	< 70 dB
Hose length 8x2]	15 meters
Video inspection system	HD Camera
Body material	Stainless steel
Dimensions [L x W x H]	550 x 410 x 1190 mm 22 x 16,14 x 47 inches
Weight	45 kg 99 lb

THE FUTURE OF AIR DUCT CLEANING IS NOW

One robot for multiple tasks

This multitask robot will allow you to carry out multiple applications, coupling different modules for cleaning, disinfection and sealing inside the air ducts. It incorporates the latest technologies such as FullHD cameras, automatic module elevation system, HMI touch screen control panel, and HD recording system



multibot



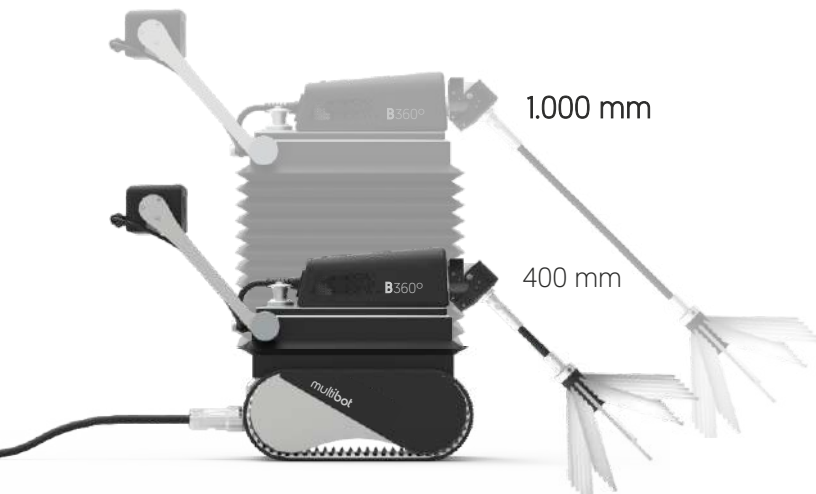
Modular design

Multibot makes use of robotised platforms where different modules can be connected, making it suitable for any air duct cleaning task, as well as modules with different cleaning, disinfection and sealing settings.



It reaches the top

Thanks to the automated elevation system offered by the robotised **Max** platform, it is possible to clean large air ducts of up to 1000mm. The height regulation adapts itself from the control unit as the robot moves.



Versatile

The Multibot's powerful traction crawler allows you to move over any surface and climb slopes of 30° inclination. The robot and the application modules are designed to clean any size of circular or square duct and for any size.



Robust and reliable

Built with the most resistant materials, such as stainless steel in the structure and the dense polyamide in the casing. The heart of Multibot are its powerful engines of last generation, which assures us a long duration and reliability.



Nicely-sharp images

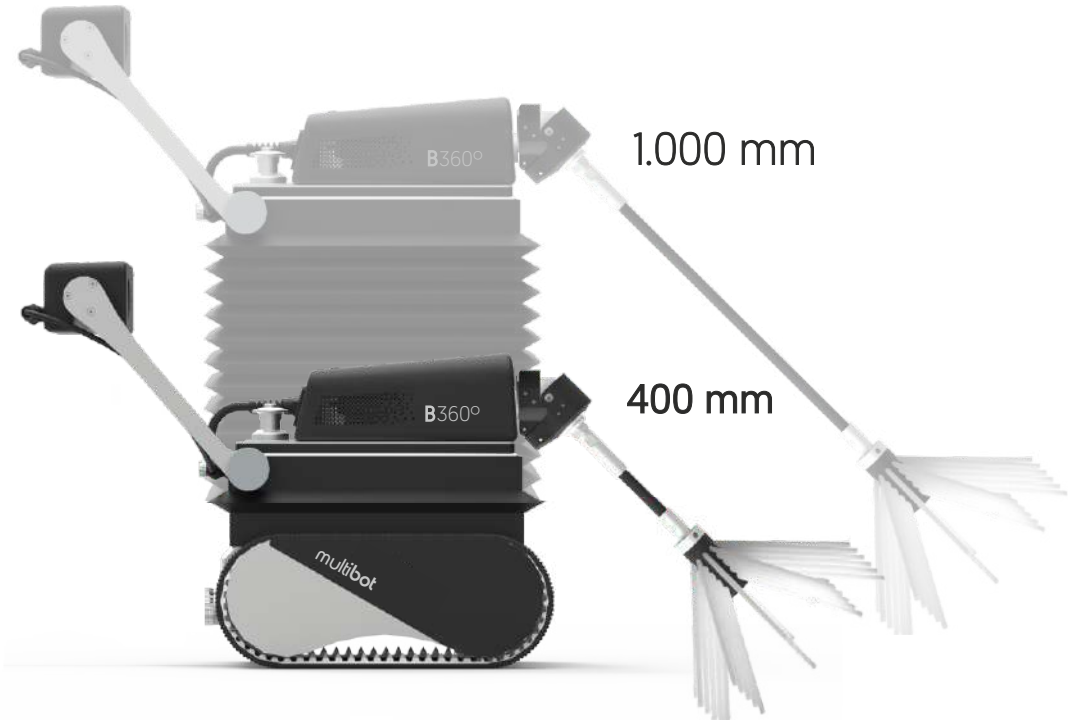
The last technology in visualization and recording of the images collected by Multibot in Full HD 1080P. It has a high resolution monitor for recording and storage of videos and photographs, with a touch screen resistant to dust and water.



Reach the furthest

With the robotised **MAX** platform, it is possible to clean, disinfect and seal air ducts between 400 mm and 1000 mm. This is because, thanks to the modules' automated elevation system, the height regulation adapts itself to the air ducts size from the control unit as the robot moves.

MAX ROBOT



TECHNICAL CHARACTERISTICS

Dimensions and weight (excluding modules)	L x A x Al : 320 x 200 x 250 mm / 11 kg L x W x H : 12.6 x 7.8 x 9.8 inch / 24.2 lb
Structural material	Stainless steel and polyamide (PA12)
Cameras (front and back)	Full Colour HD 1080P
Lighting	High intensity LED 4000 K 360°



MICRO ROBOT

Compact design

With the robotised **MICRO** platform, it is possible to clean, disinfect and seal the smallest air ducts between 250 mm and 500 mm, small outside and large inside. It integrates all the same advanced technology as it's big brother, the MAX robot, in order to carry out any task using the Multibot system's available modules.



Platform for connecting modules

Caterpillar traction system

Front HD camera and LED spotlights



TECHNICAL CHARACTERISTICS

Dimensions and weight without module	L x A x Al : 283 x 198 x 112 mm / 5,5 kg L x W x H : 11 x 7.8 x 4.4 inch / 12.1 lb
Structural material	Stainless steel and polyamide (PA12)
Cameras (front and back)	Color Full HD 1080P
Lighting (front and back)	High intensity LED 4000 K 360°

MICRO COD. AC3120629



Module communication connection

Rear view camera

Connecting communication cable and control unit

CONTROL UNIT



360°

Rotation on the robot shaft

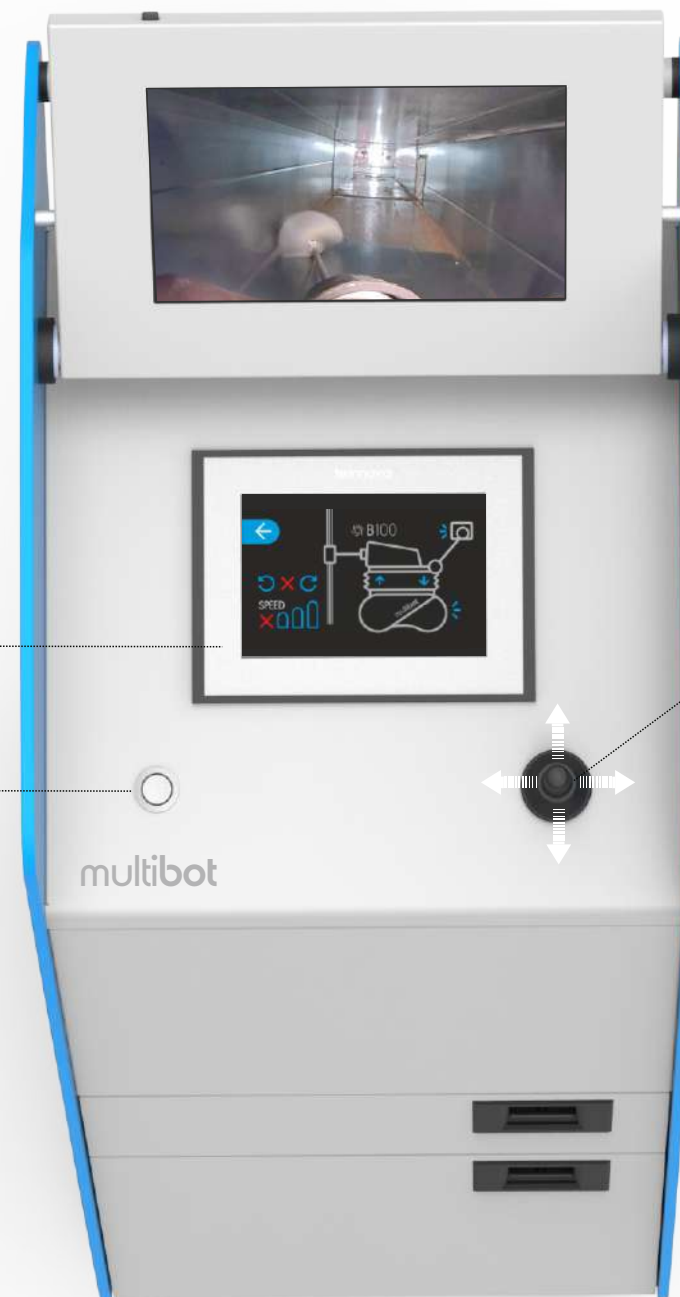
Speed-adjustable rotation, forward and reverse functions using joystick control

MMI touch screen monitor for control all robot functions and application modules

Activation switch of the control unit



Touch screen display and HD video recording



Removable box for storage the application modules

Removable box to store the robotised platform



Joystick for control the direction and speed of the tractor unit

Reel for storing 20 m of cable from the communication cable between robot and control panel



TECHNICAL CHARACTERISTICS

Display monitor	10" 2048 x 1546 screen, Intel X7, 8GB RAM
Control screen	7" 800 x 480 px HDMI - Touch control
Structural material	Oven-painted steel and HDPE
Power supply	230V - 50 Hz // 110V - 60 Hz
Empty weight and dimensions	L x A x Al : 486 x 416 x 1070 mm / 53 kg L x W x H : 19 x 16.3 x 42 inch/ 116.8 lb

APPS MODULES

Quick Connect

Easy and fast connection between the robot's modules without the need for tools, fast connection between cable and plug.



The Multibot's modular concept is made up of different modules which carry out different tasks inside air ducts, and all are compatible with the MAX and MICRO robotised platforms, with fast and easy connection.



Hose protector

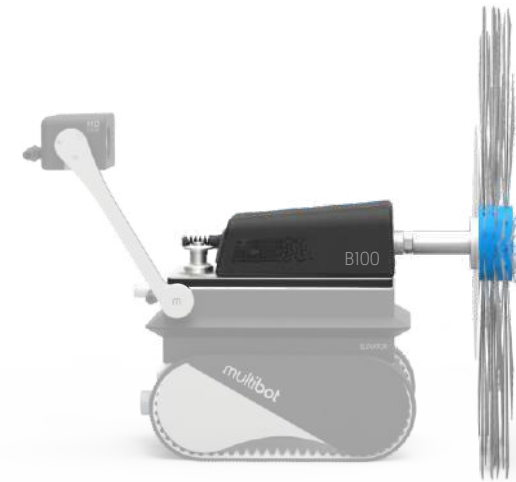
Protect the robot hose when accessing the duct [Accessory included].

CLEANING MODULES



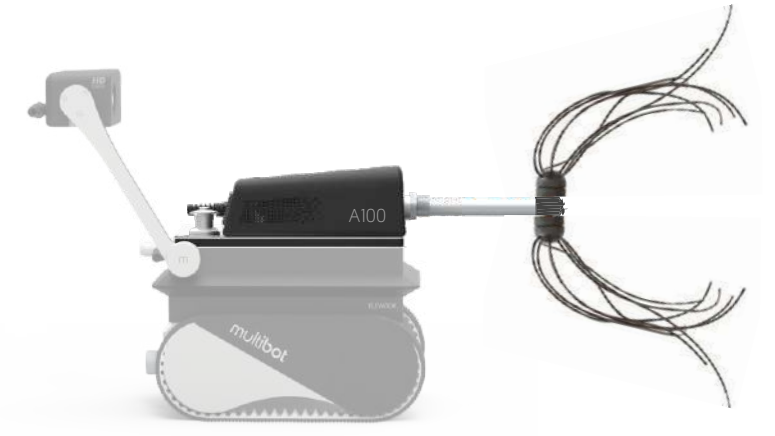
B360° 

360° ADAPTIVE BRUSH MODULE



B100 

FIXED BRUSH MODULE



A100 

AIR INJECTION MODULE

SEALING MODULE



S360° 

360° SEALANT MODULE

DISINFECTION MODULE



D360° 

360° DISINFECTION MODULE



MICRO

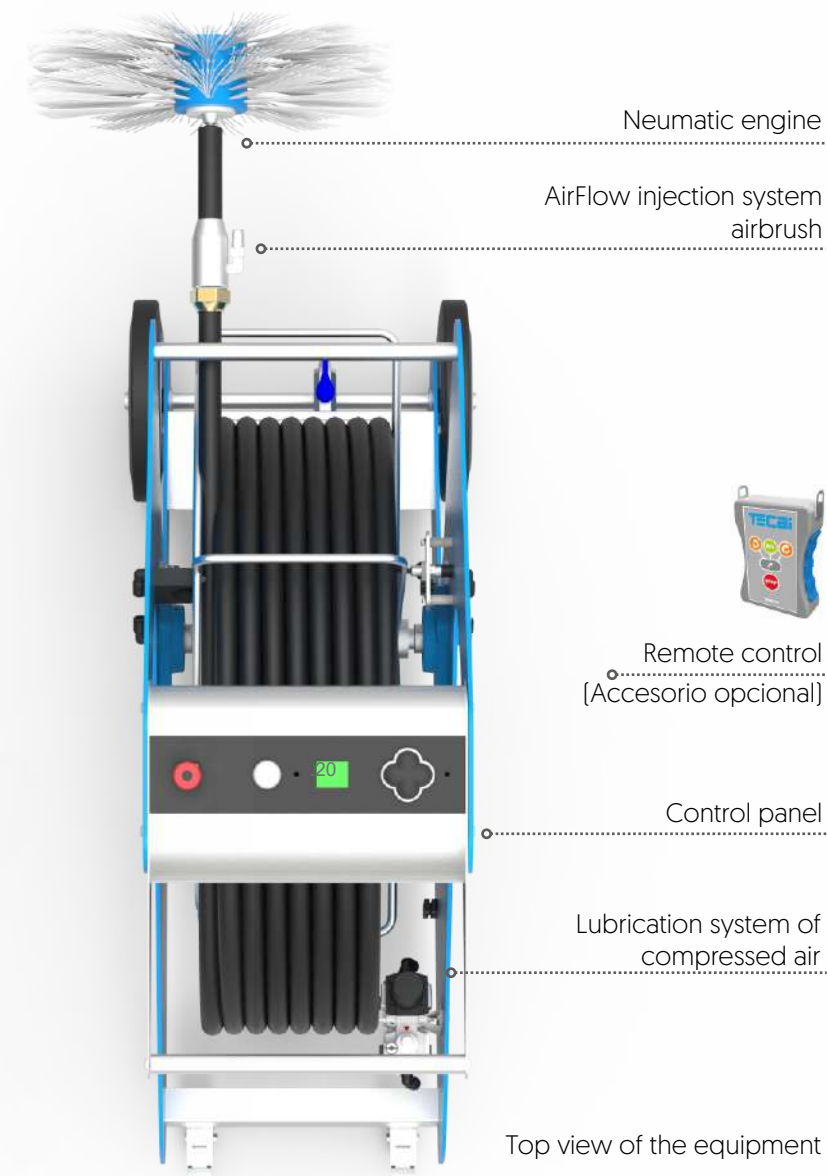
ROBOTISED PLATFORM

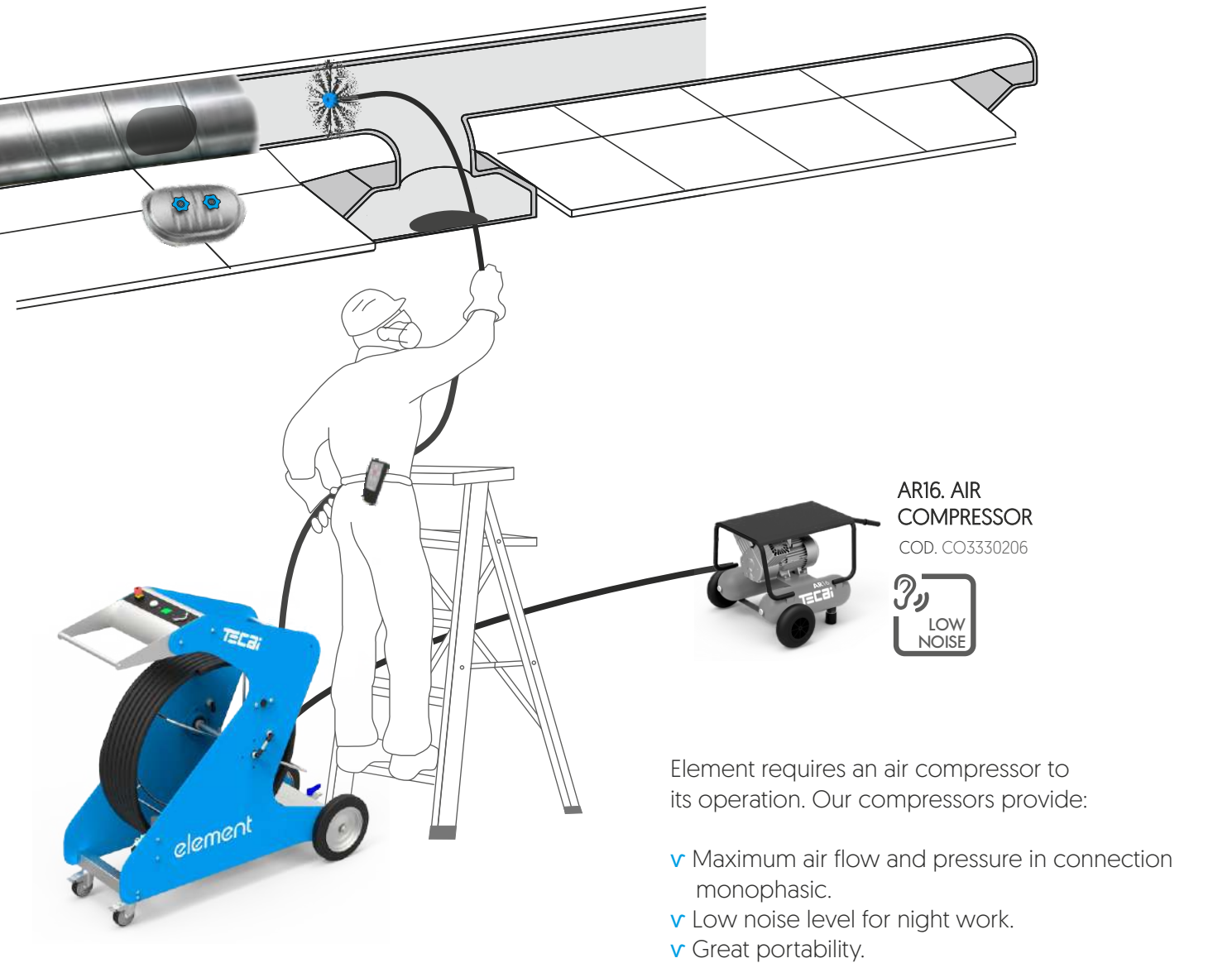
element

Electropneumatic brushing robot for duct cleaning

The system uses compressed air to power a motor housed in the tip of a 20 meter long flexible hose. It is the most **reliable and robust** tool for the cleaning of air ducts.

Element has a built-in electrical pre-installation to allow the use of the **remote control** designed specifically for this equipment. With the remote control, the operator using the equipment can control the direction of the brush rotations, as well as the starting and stopping of the motor from the working point next to the duct.





AR16. AIR COMPRESSOR
COD. CO3330206

LOW NOISE

Element requires an air compressor to its operation. Our compressors provide:

- ✓ Maximum air flow and pressure in connection monophasic.
- ✓ Low noise level for night work.
- ✓ Great portability.

AIR COMPRESSOR 220V - 50Hz



AR16. AIR COMPRESSOR
COD. CO3330206

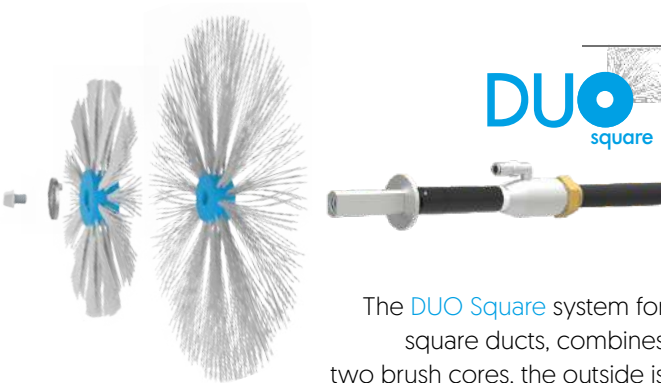


AR20. AIR COMPRESSOR
COD. CO3330202

AIR COMPRESSOR 110V - 60Hz



AR18. AIR COMPRESSOR
COD. CO3330202



DUO square

The DUO Square system for square ducts, combines two brush cores, the outside is dimensioned to the height of the duct and the interior with the appropriate size for to achieve effective brushing in the corners.

OPTIONAL EXTRAS



REMOTE CONTROL ERGONOMIC RF
COD. AC3101205



ANTI-PROTECTIVE ROTURA
COD. AC3303112

CONSUMABLES




PACK 5 NYLON BRUSHES
Suitable for heavy-duty cleaning with residues embedded by moisture or other reasons. **Measures:** Ø 200/300/400/500/600 mm
COD. CP2201015




PACK 5 FINE NYLON BRUSHES.
For cleaning maintenance and delicate ducts. **Measures:** Ø200/300/ 400/500/600 mm
COD. CP2110505


APPLICATIONS




Circular duct



Fiber duct



Square duct



Section of 200 to 1000 mm

TECHNICAL SPECIFICATIONS

Motor power supply [Full power]	Compressed air 220 l/min 8 bar 7,77 cfm – 8 bar
Rotation speed when empty	762 r.p.m.
Rotation Speed at full power	379,2 r.p.m.
Torque at full power	2,5 Nm 22,13 lbf.in
Minimum start torque	3,1 Nm 27,44 lbf.in
Stall torque	5 Nm 44,25 lbf.in
Noise level	< 70 dB
Direction of rotation	Right Left Auto
Control system	Electropneumatic
Length of hose	20 m 65,62 ft
Structure material	Aluminium
Dimensions [L x W x H]	1091,5 x 436 x 1078,5 mm 43 x 17,17 x 42,46 inches
Weight	64 kg 141,1 lb

rotair

Compact electric brush system

Rotair is the ideal solution for cleaning air ducts up to 600 mm in diameter. An electric brushing solution, which incorporates in its last version the only existing system in the shaft breakage prevention market,

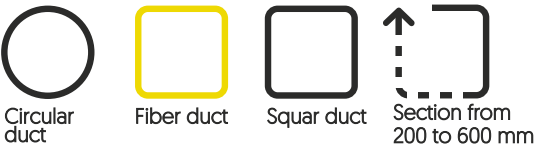
Full control with one finger

It incorporates the **EasyTouch** system. Touch screen from where, in addition to controlling the equipment, we can display various parameters such as:

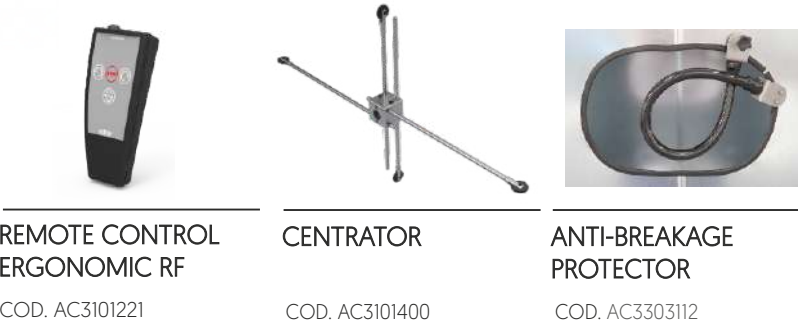
- Revolutions per minute.
- Visual graph of the speed.
- Display of the machine manual.
- Control of left and right turning times.



APPLICATIONS



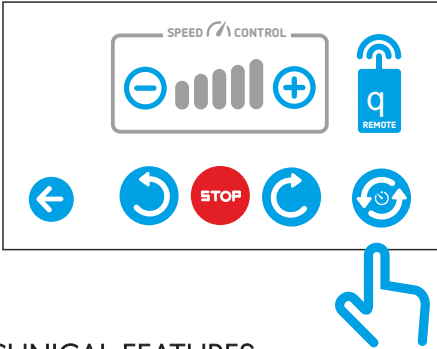
OPTIONAL EXTRAS



CONSUMABLES







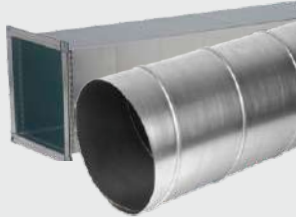











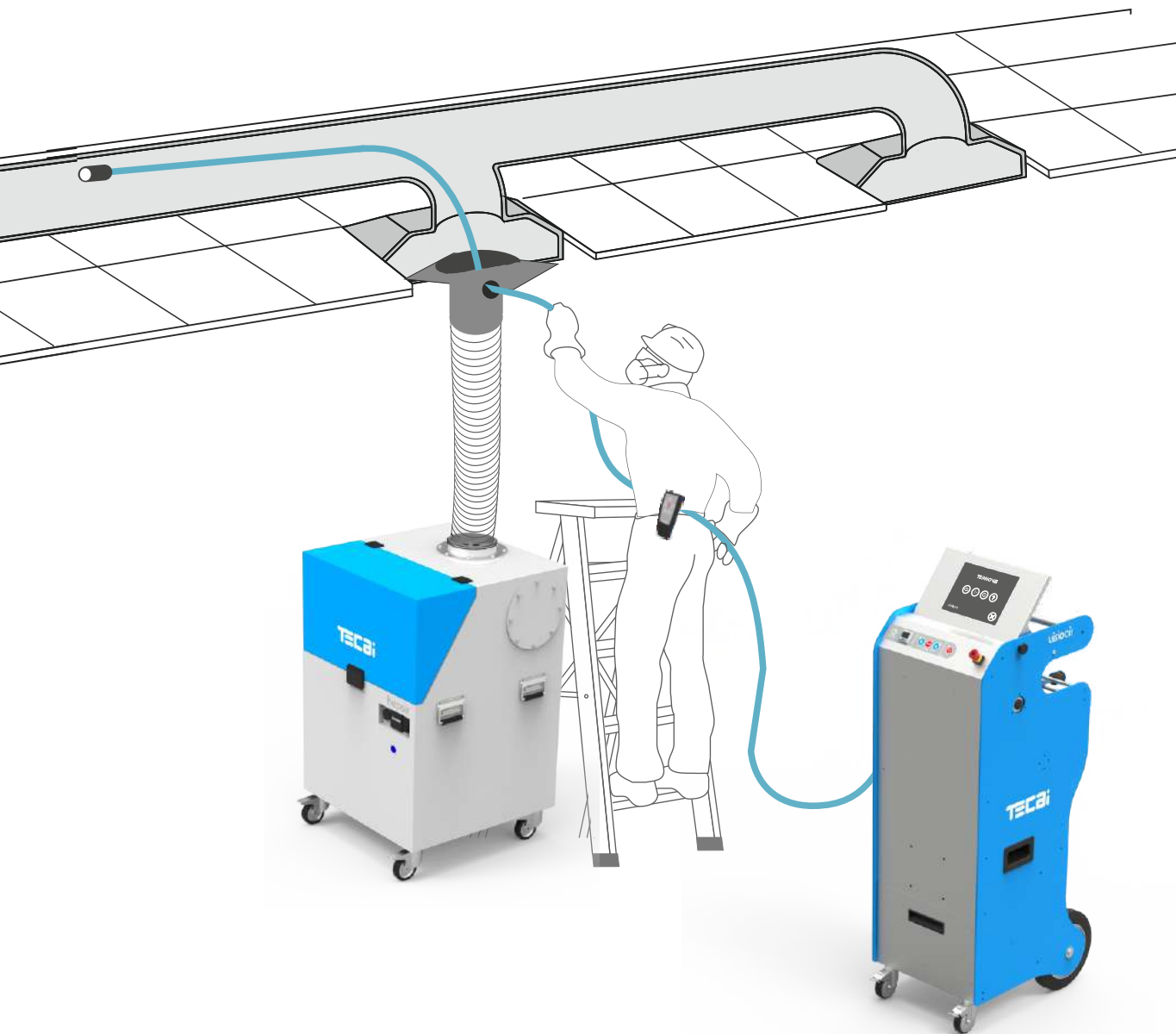
All control with one finger



TECHNICAL FEATURES

Power supply	220 V - 50Hz 110 V - 60 Hz
Maximum motor power	470 W
Rotation speed	0 - 1.500 r.p.m.
Working speed	0 - 560 r.p.m.
Noise level	< 70 dB
Direction of rotation	Right Left
Control system	Electric
Length of hose	20 m 65,62 ft
Structure material	Stainless steel and aluminium
Dimensions [L x W x H]	891 x 413 x 888 mm 35 x 16,3 x 35 inches
Weight	58 kg 128 lb

TECAi concept								
COMPARATIVE AIR DUCT CLEANING EQUIPMENT		CLEANING SYSTEM BRUSHED AIR INJECTION	HOSE LENGTH	REMOTE CONTROL Allows a single operator to control the equipment.	SPEED OF CLEANING	DISPLAY Video inspection system integrated in the equipment.	POWER SUPPLY SYSTEM	DUCT CLEANING:
 rotair	BRUSHING	20 m	 OPTIONAL	 - +	×	ELECTRIC	Ø200 to 600 mm ✓ Squares ✓ Circular x Coated fiber	
 element	BRUSHING	20 m	 OPTIONAL	 - +	×	NEUMATIC [air compressor required].	Ø200 to 1200 mm ✓ Squares ✓ Circular x Coated fiber	
 visioair	AIR INJECTION: AIRFLOW	15 m	 OPTIONAL	 - +	Cleans, displays and records at the same time.	NEUMATIC [air compressor required].	Ø300 to 800 mm ✓ Squares ✓ Circular ✓ Coated fiber	



hepair2000



Suction and triple filtration system for ducts from 200 mm to 800 mm.

hepair6000



High power vacuum cleaner for ductwork from 300 mm to 1200 mm.

COMPARATIVE TABLE
OF DUCT SUCTION SYSTEMS

	hepair2000	hepair6000
Power supply	220 V / 50 Hz 110 V / 60 Hz	220 V / 50-60 Hz 110 V / 50-60 Hz
Maximum flow rate	2000 m³/h 1177,2 cfm	6200 m³/h 3650 cfm
Maximum depression	2500 Pa 0,36 psi	1300 Pa 0,2 psi
Filtration	Prefilter G4 Bag filter M5 Hepa H13	Filtrer F7 Hepa H13
Power	880 W	1250 W
Noise level	72 dB	80 dB
Dimensions [L x W x H]	611 x 590 x 943 mm 24 x 23 x 37 in	670 x 750 x 1300 mm 26,4 x 29,5 x 51 in
Weight	80 kg 176 lb	100 kg 220 lb

hepair⁶⁰⁰⁰

The ultimate solution in negative suction for duct cleaning

This negative pressure vacuum cleaner offers a power of suction of 6200 m³/h of maximum flow, which allows face all jobs no matter how demanding they are. It has an integrated variator to adapt the suction of air at the consumption of the outlet, optimizing thus the power of the equipment. Hepar 6000 is a single phase vacuum cleaner that allows connect to any power outlet. Fast, versatility and power in a single unit. Its design is compact to facilitate its total watertightness. It can be transported both horizontally and vertically, and can be used for ducts from 300 mm to 1200 mm. It includes an acoustic filter clogging indicator to know when a change is needed. Last but not least, this equipment works with a turbine that does not need maintenance, given that does not work with brushes as usual conventional engines work.



APPLICATIONS



Easy to transport,
both horizontally
and vertically.



OPTIONAL ACCESSORIES



VACUUM HOSE
Ø300 mm - 5 m long

COD. AC3101314



VACUUM HOSE
Ø400 mm - 5 m long

COD. AC3101315

CONSUMABLES



BAG FILTER F7

COD. AC3101316



ABSOLUTE FILTER
HEPA 13

COD. AC3101317



EXPANSION STRUT
For suction sleeve.
Extendable from
160 to 290 cm
COD. AC3101303

TECHNICAL FEATURES

Supply voltage	220 V - 50/60 Hz (5,6 A)
Electric consumption	110 V - 50/60 Hz (11,2 A)
Max. flow rate	6200 m ³ /h 3650 cfm
Flow rate with filter F7	5350 m ³ /h 3150 cfm
Flow rate with filter H13	4800 m ³ /h 2825 cfm
Max Depression	1300 Pa 0,2 psi
Filtration level 1	F7
Filtration level 2	H13
Degree of separation	>99%
Engine power	1250 W
Sound level	80 dB
Dimensions [L x W x H]	670 x 750 x 1300 mm 26,4 x 29,5 x 51,2 inch
Weight [without filters] weight [with filters]	80 kg 176 lb 100 kg 220 lb



hepair₂₀₀₀

Dust aspiration and filtration system

Hepair 2000 offers a triple stage of filtering [G4 + M5 + HEPA H13], which will retain all the particles, choosing them by their thickness with the different modules.

Its compact and robust design with wheels and lateral handles, facilitates a better portability and maneuverability within the facilities.



APPLICATIONS



Triple filtration:
pre-filter G4 + M5 bag
filter + H13 absolute filter



OPTIONAL ACCESSORIES



ASPIRATION HOSE
Ø160 mm - 3 m of length

COD. AC3101308



EXTENSIBLE STICK
For suction hose. Extendable
from 160 to 290 cm. 2 units.

COD. AC3101303

CONSUMABLES



THICK PREFILTER
G4

10 units. COD. AC3101305



BAG FILTER M5

COD. AC3101306



HEPA13 FILTER

COD. AC3101309

TECHNICAL FEATURES

Supply voltage	220 V - 50 Hz [4 A] 110 V - 60 Hz [8 A]
Maximum vacuum volume	2000 m³/h 1177,2 cfm
Maximum depression	2500 Pa - 0,36 psi
Triple filtration 3 F	Prefilter G4 Bag filter M5 HEPA H13 Absolute filter
Separation degree	>99%
Engine power	880 W
Noise level	72 dB
Dimensions	611 x 590 x 943 mm 24 x 23 x 37 inches
Weight	80 kg 176,37 lb



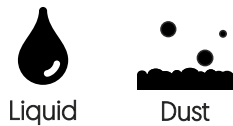
Industrial vacuum cleaner for dust and liquids

The liquid and dust collector is a tool essential in the cleaning of air conditioning systems, extraction and air conditioning systems. Thanks to its aspiration power you will be able to maintain clean and safe working space.

This powerful vacuum cleaner for dust and liquids allows to do the job with great comfort thanks to the long range of your hose and its potability.



APPLICATIONS



OPTIONAL ACCESSORIES



HEPA FILTER

COD. AC3101151

STANDARD EQUIPMENT



TECHNICAL SPECIFICATIONS

Power supply	220-240V 50-60 Hz
Power	1200 W
Maximum power	1400 W
Airflow	215 [m³/h]
Depression	2400 mm H ₂ O
Sound level	60 dB
Total tank capacity	37 liters
Hose	2,5 m Ø40
Engine stages	Double
Dimensions [L x W x H]	400 x 400 x 740 mm 15.7 x 15.7 x 29 inch
Weight	12,6 kg 27.7 lb

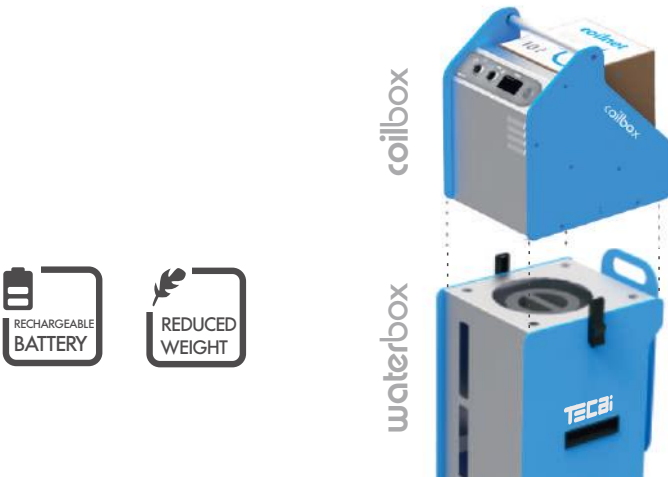
coilbox

Coil cleaning system through active foam injection and rinsing

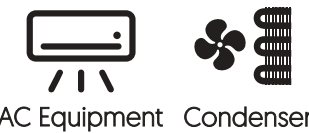
For effective cleaning in the delicate coils of air conditioning, both in the "condensing" outdoor units, as in "evaporator" interiors [splits, fancoils].

This innovative system has two modules complementary, the main one is the "coilbox" module, where all the technology for foam injection is integrated activated and rinsed with water, supplied by the water network.

The other "waterbox" module is a 30 l tank of water, to be used when no connection is available to the network. The set of the two modules makes it a fully autonomous equipment, both water supply and electricity, thanks to its rechargeable battery.



APPLICATIONS ▼



AC Equipment Condenser

OPTIONAL ACCESSORIES ▼



COILBOX LITHIUM BATTERY 5,5 Ah

COD. AC3303405

Split cassette sleeve. Easily clean a split cassette with this cleaning sleeve. AC3303330

Split wall sleeve. Easily clean a wall split with this cleaning sleeve. AC3303329

CONSUMABLES ▼



COILFOAM. High effectiveness alkaline degreaser for serpentine with no coating treatment.

Bag in box 10 kg - COD. PQ8400100

COILNET. High effectiveness alkaline degreaser for serpentine.

Bag in box 10 kg - COD. PQ8400101



TECHNICAL FEATURES

Power supply	220 V / 110 V Using rechargeable battery
Output pressure	7 bares - 2 l / min
Rechargeable chemical product	Bag in box 10 kg
"Waterbox" water tank	30 l Modular
Structure material	Stainless Steel Aluminium
Approximate consumption	5m ² / liters of product (Coilnet AF)
Dimensions L x W x H	436 x 422 x 1130 mm 17,16 x 16,61 x 44,48 inch
Total weight of equipment when empty	27,5 kg / 60,6 lb [without Bag-in-box and empty Waterbox]



CLEANING EQUIPMENT FOR AIR CONDITIONING COILS

protub

Chimney sweeping cleaning system, and tube cleaning in heat exchange equipment

It is the ideal tool for chimney sweeps, for efficient and effortless disposal, soot and solid particles, which are produced during the combustion of pellets, wood or coal, thus avoiding fire or contamination by carbon monoxide. This brushing equipment mechanical by means of a flexible rotating axis, it has brush rotation speed control, it is very portable and lightweight, small size for carry in one hand.



VOLTAGE
110V - 220V

RANGE
15 m

REMOTE
CONTROL

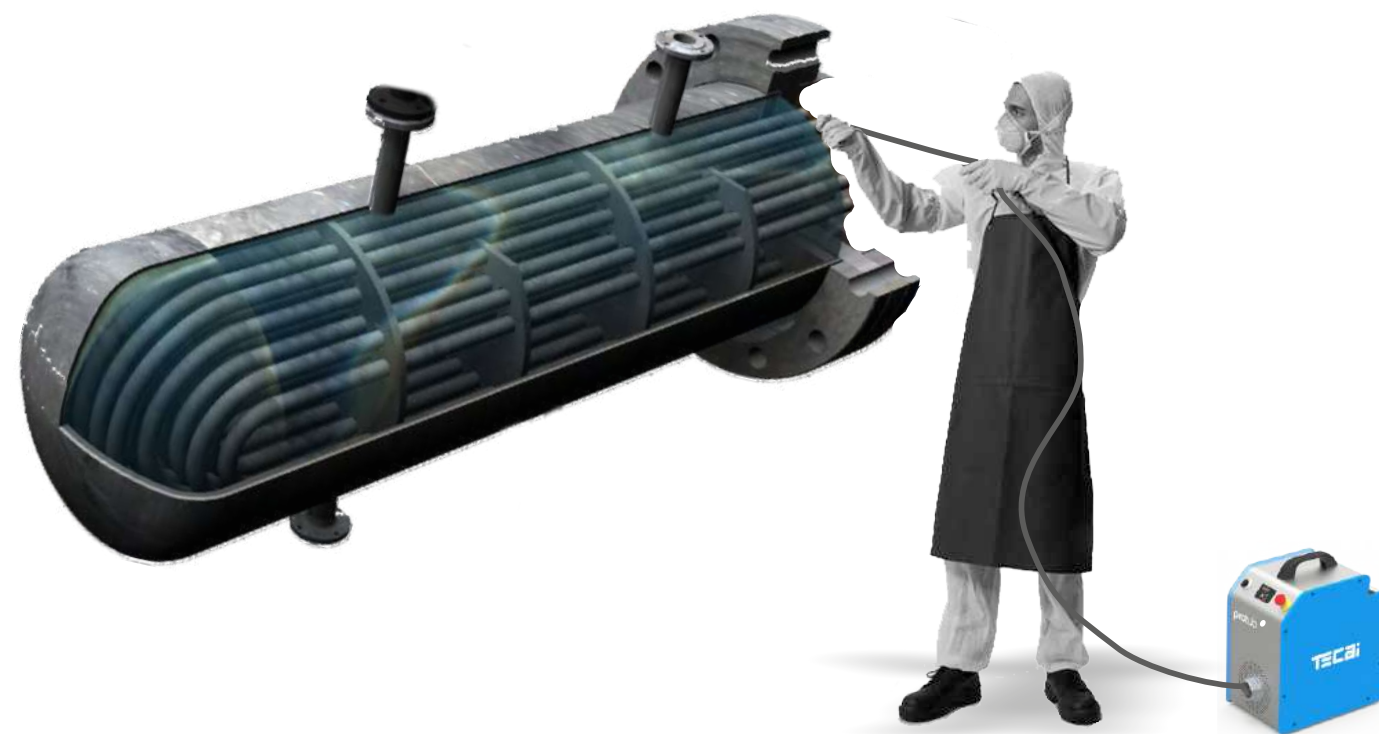
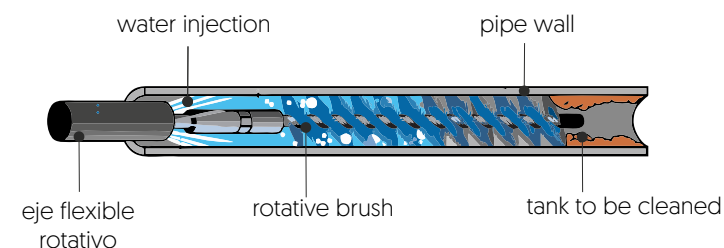
ADJUSTABLE
SPEED

ROTATION
2 DIRECTIONS

SECTION
200 to
400 mm

EXCHANGER TUBE CLEANING

A heat exchanger is designed to transfer heat between two tubular media, through which fluids pass, leaving behind incrustations of dirt. It is essential to keep the interior of these tubes clean for optimum performance and to avoid economic losses.



CLEANING OF CHIMNEY SWEEPS AND HEAT EXCHANGE TUBES EQUIPMENT



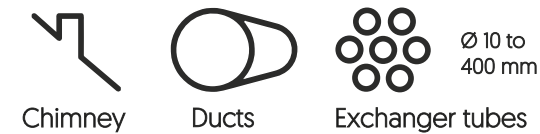
sweepvac ▲
Soot vacuum cleaner in combustion chimneys.



CHIMNEY SWEEPING

Soot and other solid particles, produced during combustion in stoves, boilers and fireplaces, are deposited on the walls of the flue pipes. These deposits reduce the chimney's draught, and increase consumption, since they cause a decrease in the performance of these equipments and increase fuel consumption. In addition, a dirty duct produces bad odors and increases the risk of fire.

APPLICATIONS ▼



STANDARD EQUIPMENT ▼



REMOTE CONTROL.
All functions in your hand.

COD. AC3101211



ROTARY AXIS of Ø 10 mm
For brushes from Ø 30 to 400 mm

COD. AC3101209



ROTARY AXIS of Ø 6 mm
For brushes from Ø 12 to 20 mm

COD. AC3101208

OPTIONAL ACCESSORIES ▼

CONSUMABLES ▼



EXCHANGERS ▼

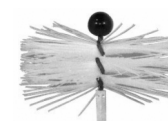
NYLON BRUSH PACK

Axis Ø 6 mm . Ø12, 14, 16, 18 and 20 mm COD. CP2080034
Axis Ø 10 mm: Ø30, 40, 50, 60, 70 and 80mm COD. CP2080037



STEEL BRUSH PACK

Axis Ø 6 mm: Ø12, 14, 16, 18 and 20 mm COD. CP2080036
Axis Ø 10 mm: Ø30, 40, 50, 60, 70 and 80mm COD. CP2080038



CHIMNEYS ▼

NYLON BRUSH PACK

Axis Ø 10 mm: Ø100, 150, 200, 250, 300 and 400 mm
COD. CP2080039



STEEL BRUSH PACK

Axis Ø 10 mm: Ø100, 150, 200, 250, 300 and 400 mm
COD. CP2080040

TECHNICAL FEATURES

protub

Power supply	220 V - 50 Hz 110 V - 60 Hz
Engine power supply	1 HP
Shaft rotation	Left right
Rotation speed of the shaft	0 to 900 r.p.m.
Control system	Electrical
Structure Material	Stainless steel and PEHD
Flexible rotor shaft length	10 and 15 meters
Dimensions [L x W x H]	215 x 357 x 393 mm 8,5 x 14 x 3.6 inch
Weight	14 kg 31 lb



CLEANING OF CHIMNEY SWEEPS AND HEAT EXCHANGE TUBES EQUIPMENT

dinet B100

ultrasonic

Portable ultrasonic cleaning equipment

Ultrasonic cleaning consists of energy that is initiated in the generator and distributed to the transducers or ultrasonic emitters. In this way, they implode the water molecule [cavitation], generating a micro brush in the piece to be cleaned. This process, together with the temperature offered by the equipment, makes the B100 ultrasonic the fastest and most effective system for cleaning and disinfecting air conditioning grilles and diffusers.



APPLICATIONS ▼



Filters



Grids

SPEED. In a matter of seconds the dirt is removed without the need for any kind of manual finishing, we achieve cleaning and disinfection in a single operation.

EFFECTIVENESS. The action of ultrasound penetrates all the cavities, providing extreme cleanliness.

SAVINGS. The amount of water and product is reduced cleaning. The water is reused for successive washings.

ECOLOGICAL. The cleaning liquid is composed of water and a small proportion of a specific detergent.

CONSUMABLES ▼



SONICLEAN

Detergent for cleaning metal parts.
Jerrycan 10 liters.

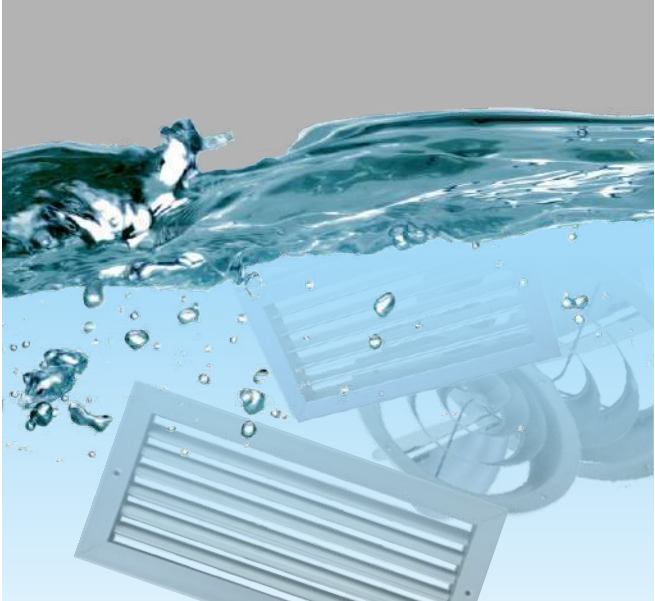
COD. PQ8100501



SONIPOWER

Cleaning power enhancer to be added to the detergent.
Jerrycan 10 liters.

COD. PQ8200200



TECHNICAL FEATURES

Power supply	220 V 50/60Hz	110 V 60 Hz
Ultrasonic power	1200 W	900 W
Heating power	2000 W	1000 W
Number of transducers	28 kHz	
Ultrasonic frequency	24 units	
External dimensions	800 x 530 x 1060 mm 31,5 x 20,8 x 41,7 inch	
Interior dimensions	530 x 290 x 550 mm 20,8 x 11,4 x 21,6 inch	
Interior volume	85 liters	
Weight	87 kg 192 lb	

Particulate matter sampling pump in ducts

TESTAIR is an equipment to carry out the sampling of surfaces for the verification of the cleanliness in ventilation and air conditioning system (HVAC) ducts.

Sampling is carried out by means of an air suction pump connected by means of a pipe. Flexible to a few filters contained in a cassette.

Highly portable and easy to use

The aspiration is done following a template that complies with the NADCA standard placed on the surface of the duct. Particulate material stays in the filters and then weighed to measure the quantity per unit area.



APPLICATIONS ▼



Ducts



AC Equipment



CASE CONTENTS

- Transport case.
- Surface sampler
- 10 mce microsamples ø37-0.8
- 10 Nadca sampling guides

TECHNICAL FEATURES

Power supply	230 V - 50 Hz 110 V - 60 Hz
Flow rate	30 l/min – 7,92gpm[US]
Dimensions L x W x H	470 x 350 x 190 mm 18,5 x 13,77 x 7,5 inch
Weight	6 kg / 13,23 lb
Weight of calibrated cassettes	10,61g [without labels]



microbio

Microbiological air measurement equipment

The standard UNE 100012 establishes a compulsory measurement of Colony Forming Units [CFU], both before and after cleaning, as well as before and after the disinfection of air ducts. Comparison with the standard will determine the disinfection requirements.



- CASE CONTENTS**
- Transport case.
 - 1 x PC Reporter software.
 - 4 x Rechargeable batteries.
 - 1 x Battery charger.
 - 1 x Microperforated head.
 - Instructions of use and software.



TECHNICAL FEATURES

Power supply	4 x AA NiMH batteries
Flow	100 l/min
Volume sample	10 to 2000 litres in varying steps
Sample volume capacity	60.000 litres before recharge*
d50 Particle size	1.7 m [220 x 1mm hole head] 1.35 m [400 x 0.7mm hole head]
Mean particle velocity	9.62 ms-1 [220 x 1mm hole head] 10.7 ms-1 [400 x 0.7mm hole head]
Other features	<ul style="list-style-type: none">- Auto switch off- Delayed start up to 60 min- 4-digit 7-seg LED display- Sample cancel feature- Padded carry bag supplied
Noise level	< 75dB
Dimensions [L x H x W]	196 x 100 x 110 mm 7.7 x 4 x 4 inch
Weight	650 g [inc. battery and petri dish]





PERSONAL PROTECTIVE EQUIPMENT

Disposable coverall.



Limited-use protective coverall [PE+PP] impervious to particles and splashes of limited intensity. **Antistatic, water vapor permeable, tear and abrasion resistant, lint free.** Protection against biological agents according to Standard EN 14126:2003.

Size L - EP5600100
Size XL - EP5600101

Disposable mask.

High filtration capacity. Low in- and exhalation resistance. Soft hypoallergenic inner filter.



EP5300100

PVC gloves.



Suitable for **industrial cleaning and chemical industry.** **Ergonomic** and flocked for comfort. Cotton flower for sweat absorption. Good grip in any situation. Exceptional **comfort** due to special PVC formulation.

The long glove with heat-sealed cuff also protects you from liquid splashes.



Short - EP5200100
Long - EP5200200

Silicone mask with two filters.



Made of silicone, which avoids allergic discomfort, provides a **comfortable fit and good resistance to the environment aggressive.** Special system of valve holder and filter holder in one piece, which gives the body and stiffness to the front of the mask.

EP5300200

Silicone mask filter.



Filter against particles, gases and vapors. Approved according to EN 14387:2004.

EP5300201 - 1 unit

Face shield + visor.



Face shield + polycarbonate acetate visor. Guarantees exclusive comfort thanks to its **innovative indirect ventilation that reduces CO₂ concentration.**

EP5100101

Replacement protective visor



EP5100200

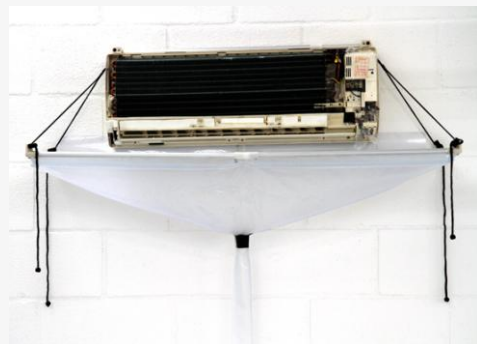


PROTECTION OF CLEANING AREAS

Wall splits cover.



Its quick assembly and light weight make it an indispensable element for cleaning splits. The frame is made of a special aluminum alloy for **light weight, acid resistance and high impact strength**. The downspout design makes it easy to collect liquids and dirt during cleaning. Water discharge pipe is one-piece to prevent liquid seepage. Dimensions: 1200 x 370 mm



AC3303329

Air conditioner cover.



The frame is made of aluminum alloy for light weight, acid resistance and high impact strength. The downward-flowing chute design facilitates the collection of liquids and dirt during cleaning. **Stainless steel anchors for adjusting the height of the splits cleaning cover.** You can use a magnetic hitch or stainless steel hitch to hang the cleaning cover easily on the appropriate parts of the split body. **The water discharge pipe is made in one piece to avoid liquid leaks.** Dimensions: 1200 x 1200 mm

AC3303330

Quick Cover adhesive film.

For covering gratings.

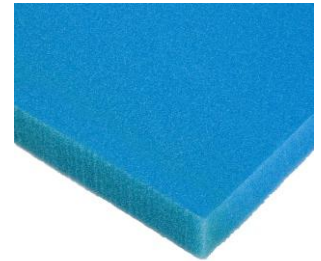


Adhesive film to cover grilles. **Allows a perfect suction of the air duct** when cleaning. It measures 500 mm wide.

AC3101150 - 1 unit
AC3101154 - 4 units
AC3101158 - 8 units

Foam board.

For duct section.



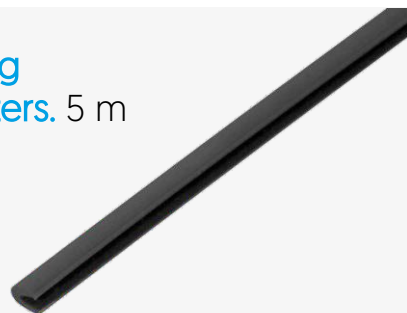
Foam sheet [1000 mm x 1000 mm x 60 mm] for duct section. **Isolates the air conditioning ducts by sections for optimal cleaning.**

HE7554100



PROTECTION OF CLEANING AREAS

Weatherstripping to protect registers. 5 m



Weatherstrip to protect the contour of the open manhole in the duct. Thanks to this protection the hose of your duct cleaning system will not be damaged.

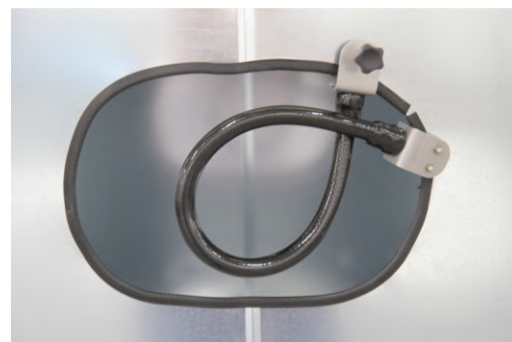


AC6134102

Anti-breakage protector.



Anti-breakage protector for the shaft and hose of the brushing equipment.



AC3303112

Holding clamp.



Clamping clamp to place the plastics on the **protection in the cleaning of air conditioning and extraction ducts.**

3,5 cm - HE7400200
5,5 cm - HE7400300

Quick seal.

Tape for sealing air conditioning ducts.



By sealing the air outlets, the negative suction in the air ducts can be made effective to extract all dust and residues.

50 mm x 15 m - AC5207450
75 mm x 15 m - AC5207475

Water hose extension.



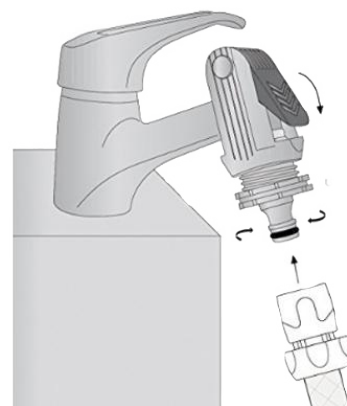
Allows water to reach your equipment no matter how far away the intake is. [15 meters].

HE7300200

Universal tap adapter.



Universal faucet adapter that allows the connection of your hose to all types of non-threaded faucets.



AC6200003

Soot collector for pipes.



Specific tool for professional chimney sweeps, when cleaning flues from below. The soot catcher is adapted directly to the smoke extraction duct to collect the soot and obtain an effective cleaning without the need to dirty the house.

Ø200 mm to Ø300 mm - AC3201311
Ø70 mm to Ø200 mm - AC3201312

Related equipment
PROTUB



Shaft bag protub.



AC3101210

Related equipment
PROTUB





Reversible pneumatic drill.



Reversible pneumatic drill for use in air conditioning ducts. The AR20 air generator has an additional output for tools such as a jigsaw or pneumatic drill.

HE7100100



Crown drain

HE7100101 Ø33 mm

Pneumatic reciprocating saw.



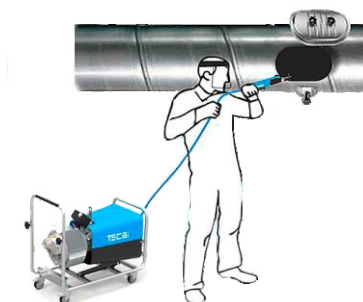
The ideal cutting tool for duct cleaning records. **Precise cutting and no risk of sparks that could cause fires inside the duct.** The AR20 air generator has an additional output for tools such as a jigsaw or pneumatic drill.

HE7100200



Pneumatic saw blades

Pack 10 units - HE7100201



Centering brush for rotair equipment.

Accessory for centering the rotair brush. Allows to center the brush in the duct and thus to exert equal pressure on the whole diameter of the duct, avoiding lipping. By having wheels allows a

AC3101400



better sliding and facilitates the handling of the hose by the operator. Valid for ducts from Ø200 to 600 mm.

Related equipment

ROTAIR page 17



Extensible sticks



Expansion sticks for suction hose.

2 units

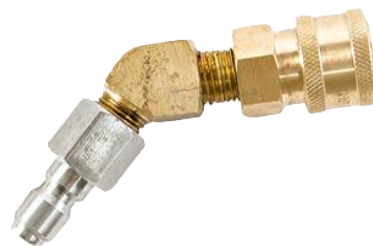
160 cm to 290 cm - AC3101303

Nozzle adapters.



90° adapter for directing the nozzle

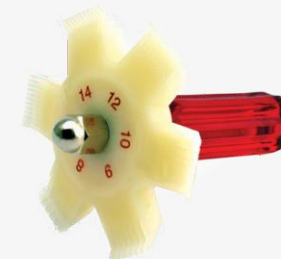
AC3303316



45° adapter for directing the nozzle

AC3303315

Coil comb.



The combs are used to clean and straighten the fins of evaporators and refrigeration condensers.

HE7300110

Folding aluminum ramps .



Protective coverall [PE+PP] with limited use. It is impervious to particles and splashes of limited intensity. **Antistatic, water vapor permeable, tear and abrasion resistant, lint free.**

Protection against biological agents according to Standard EN 14126:2003 .

2 units

150 x 20 cm - AC660R015 - 1500 x 400 x 200 mm

220 x 20 cm - AC660R020 - 2000 x 400 x 200 mm

250 x 20 cm - AC660R025 - 2500 x 400 x 200 mm

SoniPower.

Booster for grilles and diffusers.



Booster for **SoniClean** detergent **used in ultrasonic cleaning of filters and other kitchen utensils**. Dilute in water at a temperature of 80° - 90° in a proportion of 1 to 5 % depending on the type of dirt to be cleaned. for SoniClean detergent used in ultrasonic cleaning of filters and other kitchen utensils. It generates a more powerful and effective cleaning.

Jerrycan 10 liters - PQ8200200

Related equipment

B100 ULTRASONIC



SoniClean.

Detergent for grilles and diffusers of air conditioning systems.



Specific detergent for **cleaning with ultrasonic equipment on any type of metal part**. It can also be used for filters and kitchen utensils. Dilute in water with a temperature between 50° - 80° in a proportion of 3 to 5 %. Use **SoniPower** to enhance the effect of the detergent in the most demanding cleanings.

Jerrycan 10 liters - PQ8100501

Related equipment

B100 ULTRASONIC



CoilFoam.

Coil degreaser uncoated.



Special detergent for **cleaning coils without plastic coating** (water repellent and oleophobic). Its powerful foam creates a dirt extraction effect from the inside to the outside. Once applied, proceed with a quick rinse of the coil.

Bag in box 10 kg - PQ8400100

Related equipment

COILBOX



Coilnet.

Degreaser for air conditioning coils.



Special detergent for **cleaning coils with plastic coating**. It is highly recommended for cleaning ceiling and wall splits, and any coil. It is recommended to spray with the Coilbox equipment, leave for a few minutes and rinse with plenty of water.

Bag in box 10 kg - PQ8400101

Related equipment

COILBOX



NDP Air Total.

The Surface Disinfection by an Aerial way (DSVA) equipment and air-conditioning ducts.



Applications for hospitals, offices, dental clinics, operating rooms, bathrooms and toilets, hotels...

Effectiveness in Bacteria [EN13697, EN1276]: Staphylococcus aureus, Enterococcus hirae, Pseudomonas aeruginosa, Escherichia coli. Fungi [EN13697, EN1650]: Candida albicans, Aspergillus niger.

Jerrycan 5 liters - PQ8400104

Related equipment

FOGAIR



SANIT.

Surface disinfectant for critical areas. Bactericide and fungicide without formaldehyde.



Non corrosive. Aerial disinfection applicable by nebulization. **Powerful clinical disinfectant** to ensure a high level of decontamination on treated areas UNE-EN 1650, UNE-EN 1276 and AFNOR NF-T72-281. Suitable for all types of surfaces and materials

Jerrycan 5 liters - PQ8300100

Related equipment

DESINAIR



AK-Germa 100

Disinfectant superconcentrate for bacteria, fungi and viruses.



Bactericide-fungicide-virucide for environmental and food industry disinfection. AK-GERMA 100 is **biodegradable**. AK-GERMA 100 is a blend of alcohol, benzalkonium chloride and surfactants.

Box of 6 units of 1 liter - PQ8400113

Related equipment

MULTIBOT | Disinfection module D360°



FOGAIR



Elasbio

Sealant for fiber ducts.



Insulating **sealant for fiber ducts**. For use in industrial installations only.

Jerrycan 19 liters - PQ8400110

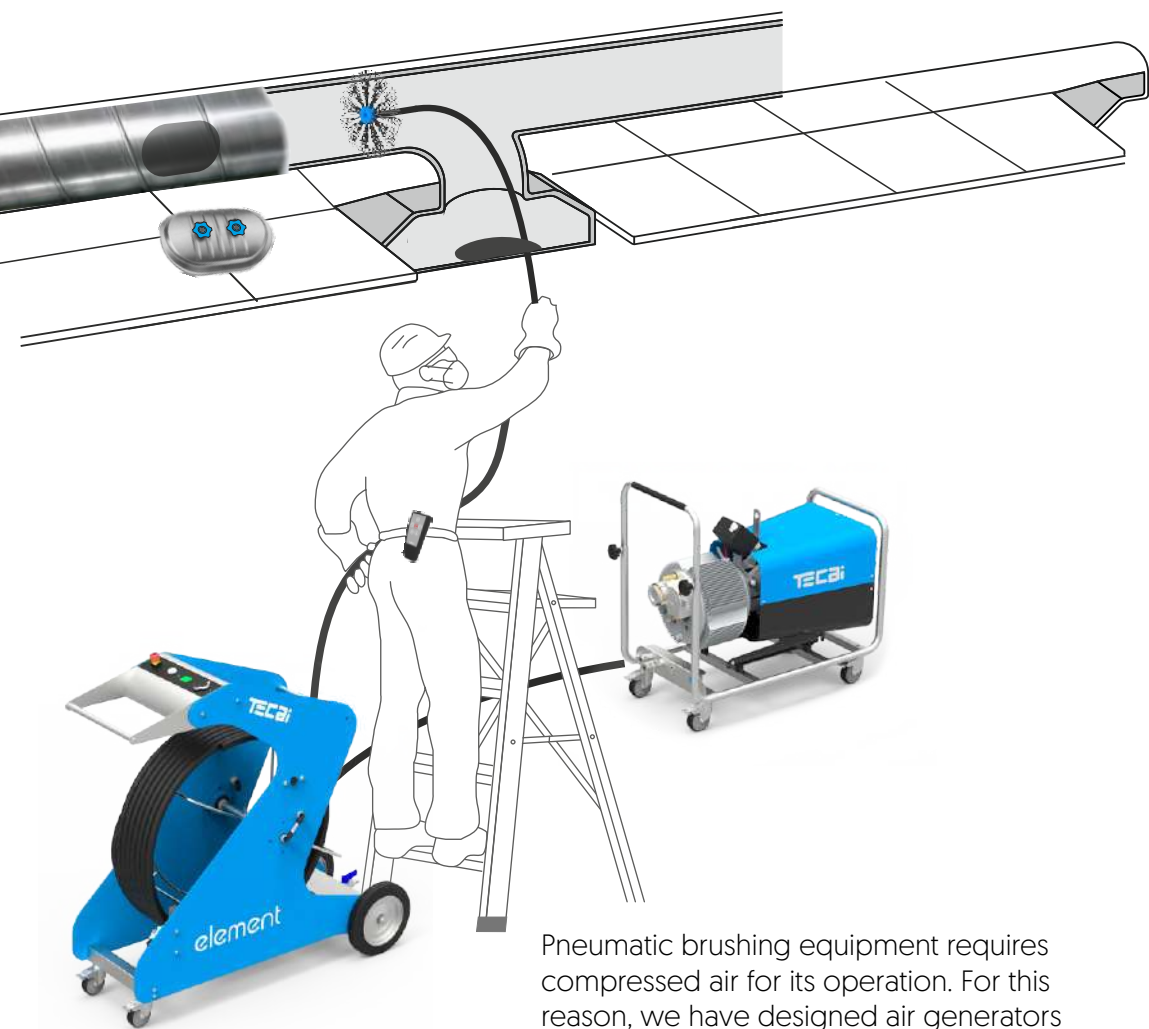
Related equipment

MULTIBOT | Sealing module S360°





COMPARATIVE OF AIR GENERATORS



Pneumatic brushing equipment requires compressed air for its operation. For this reason, we have designed air generators to suit the needs of each piece of equipment. Our generators offer the right balance between air flow, low noise level for night work, and great portability so that your work is carried out in the best conditions.

AR16



AR20



AR18



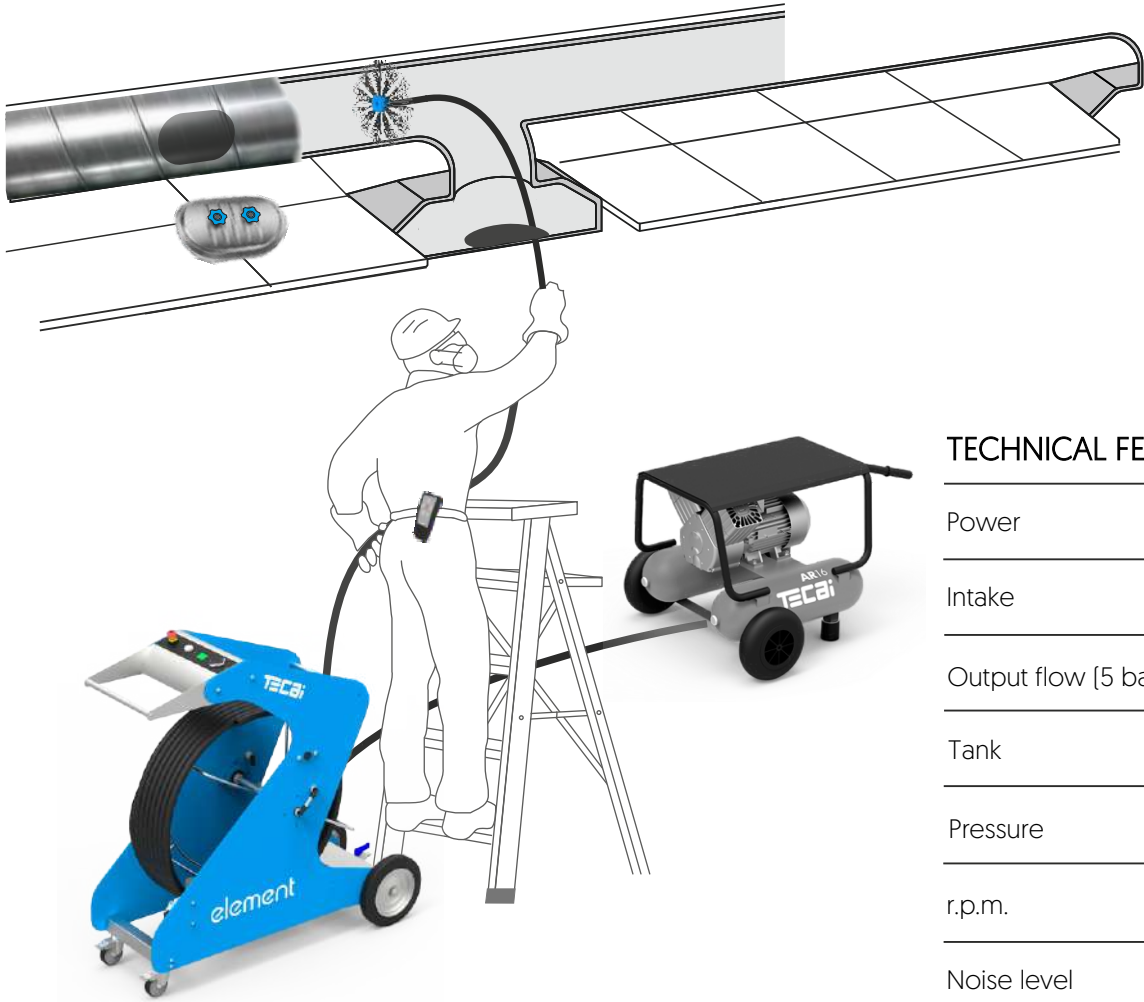
	AR16	AR20	AR18
Power supply	230 V - 50 Hz	400V / 3 / 50 Hz 220 V - 50 Hz 110 V - 60 Hz	110 V - 60 Hz
Suction flow rate	400 l/min	340 l/min	370 l/min
Output flow rate	280 l/min [5 bar]	240 l/min [5 bar]	260 l/min [5 bar]
Deposit	18 l / 4,7 gal	Continuous work	30 l / 8 gal
Pression	10 bar	10 bar	9 bar
Operating principle	Piston	Paletas	Piston
Noise level	82 dB	70 dB	79 dB
Weight	44 kg / 97 lb	50 kg / 110 lb	84 kg / 183 lb
Dimensions [L x H x W]	572 x 636 x 520 mm 22,5 x 25 x 20,4 inch	802 x 565 x 390 mm 31,5 x 22,3 x 15,35 in	1135 x 470 x 635 mm 44,5 x18,5 x 25 inch



AR16

Compressed air generator for brushing robots

Pneumatic brushing equipment requires compressed air for operation. For this reason, we have designed air generators that adapt to the requirements of work to be done with the best performance: Maximum air flow and pressure in single-phase connection, low noise level for night work, being able to work continuously without heating, and also a great portability.



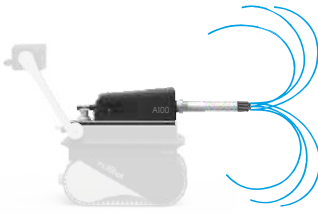
TECHNICAL FEATURES

Power	2,2 kW
Intake	400 l/min
Output flow [5 bar]	280 l/min
Tank	18 l
Pressure	10 bar
r.p.m.	2850 r/min
Noise level	82 dB
Number pistons	2
Voltage	230 V - 50 Hz
Phases	1
Weight	44 kg / 97 lb
Dimensiones [L x W x H]	572 x 636 x 520 mm 22.5 x 25 x 20.4 inch

COMPATIBLE EQUIPMENT



ELEMENT. Electropneumatic brushing robot for duct cleaning.



MULTIBOT. Air duct cleaning robot. Cleaning module A100.

AR18

Compressed air generator for brushing robots

Pneumatic brushing equipment requires compressed air for operation. For this reason, we have designed air generators that adapt to the requirements of work to be done with the best performance: Maximum air flow and pressure in single-phase connection, low noise level for night work, being able to work continuously without heating, and also a great portability. This compressor is indicated for those places where a voltage of 110V - 60 Hz is used.



TECHNICAL FEATURES

Power supply	110V - 60Hz
Nominal pressure	9 bar 125 psi
Flow rate [6,27 bar]	9,2 cfm
Motor power	2.0 HP - 120V - 18.8A
Sound level	79 dB
Operating principle	Piston
Tank size	30 litres 8 gal
Plug type	NEMA 5-20P
Dimensions [L x W x H]	1135 x 470 x 635 mm 44,5 x 18,5 x 25 inch
Weight	84 kg 183 lb

COMPATIBLE EQUIPMENT ▼



ELEMENT. Electropneumatic brushing robot for duct cleaning.
MULTIBOT. Air duct cleaning robot + Cleaning module A100.

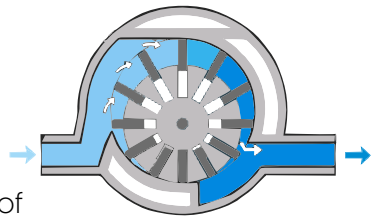
AR20

Compressed air generator for brushing robots

TECAI's pneumatic brushing robots require air compressed for its operation. Therefore, we have designed some air generators that adapt to the requirements of work to be carried out with the best performance as: Maximum air flow and pressure in single-phase connection, low noise level for work night, to be able to work continuously without heating and also, a great portability.



“Paddle” System



A patented system of sliding “paddles” which produce a large volume of air and high air pressure. Self-cooling, it can operate for 24 hours at a time.

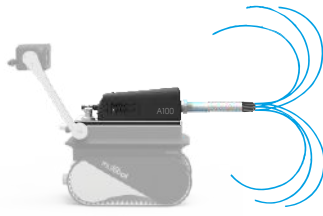
TECHNICAL FEATURES

Power supply	400V 3 50Hz	220V 50Hz	110V 60Hz
Min. power cable section	2,5 mm ² 3,88 x 10 ⁻³ in ²		
Nominal pressure	10 bar 145,04 psi		
Air delivery [5 bar 72,52 psi]	240 l/min 8,48 cfm		
Reception capacity	360 l/min 12,71 cfm		
Power	2,2 kW		
Sound level	70 dB		
Service temperature limit	5 - 40°C 41 - 104°F		
Exit temperature	> 75°C > 167°F		
Residual oil in compressed air	< 3 ppm		
Hydraulic circuit capacity	1,5 litres 0,4 gal		
External structure material	Stainless steel		
Weight	50 kg 110,23 lb		
Dimensions [L x W x H]	802 x 565 x 390 mm 31,5 x 22,3 x 15,35 inches		

COMPATIBLE EQUIPMENT ▼



ELEMENT. Electropneumatic brushing robot for duct cleaning.



MULTIBOT. Air duct cleaning robot + Cleaning module A100

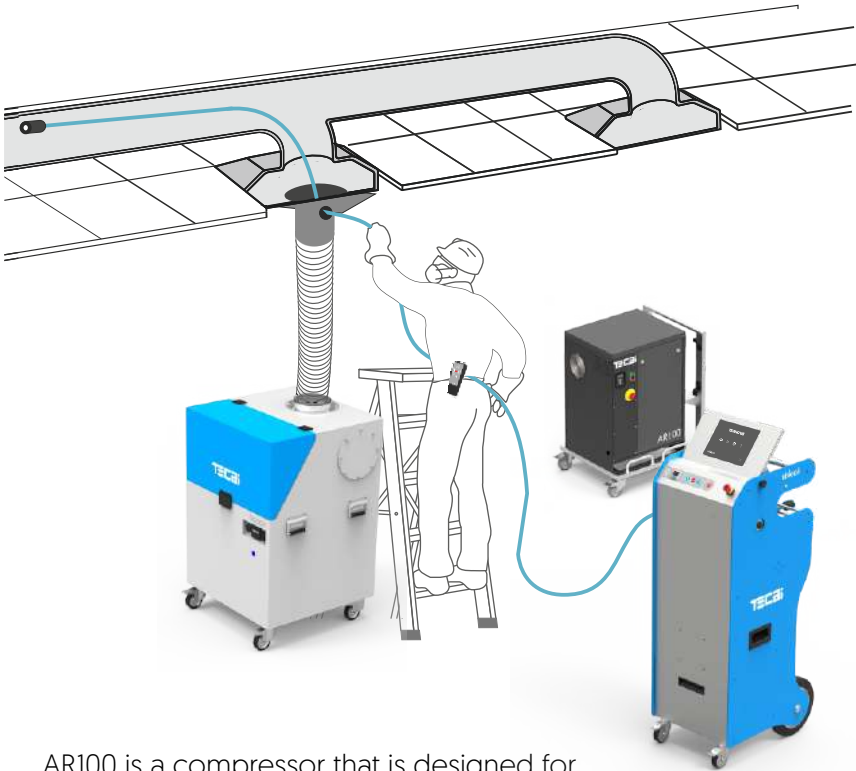


AR100

Compressed air generator for brushing robots

It is the only complement to your Visioair when it comes to provide large flows of compressed air. It is capable of providing a flow of up to 1300 l/min with reduced dimensions and weight that make it the ideal complement to the Visioair, being easy to use within the facilities.

Its sound level is only 64dB, which will allow working in noise-sensitive environments or at night.



AR100 is a compressor that is designed for effective working pressures of 8 bar, 10 bar and 13 bar.

It is air-cooled to provide optimum performance and energy savings. The drive that adapts to the demand of air consumption.

SUPPORTED EQUIPMENT ▼



VISIOAIR. Duct cleaning equipment with pressurized air.

TECHNICAL FEATURES

Power supply	380V / 50 - 60 Hz 220V / 50 - 60 Hz
Motor power	7 kW [continuous operation]
Maximum air flow	13 bar
Air flow [l/min]	1300 l/min
Sound level in dB [A] with soundproofing kit	64 dB
Amount of oil in compressor circuit	5 litres
Cooling system	Air
Control panel	Membrane keypad
Material of the structure	Stainless steel
Weight	126 kg / 278 lb
Dimensions [L x H x W]	580 x 480 x 800 mm 22.8 x 18.9 x 31.4 inch

