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ASSOLO TE-22

Heat recovery for single room installation

Product informations

ASSOLO TE-22 aerator with ceramic-type heat recuperator with efficiency of up to 90%, designed to be installed in single domestic rooms such as the dining room, living room or bedroom. The closing damper prevents unwanted air from entering when the product is turned off.

Product features

- High efficiency heat exchanger (**up to 93%**) made of ceramic material
- ABS front cover
- Closing shutter to prevent unwanted air from entering when the product is off
- External grille in ABS designed to minimize noise from outside
- Standard tube length **500 mm** (available as a **700 mm tube accessory**)
- Minimum depth of the wall 200 mm for both the Ø 160 and the Ø 100 - maximum depth 3 m (2.5 if there is a 90° elbow)
- DC motor fan, brushless with control electronics, on ball bearings
- Simplicity of maintenance and cleaning
- Double dust filter washable and easily accessible for maintenance
- LED visual indicators for command reception and filter cleaning
- The last function set is memorized and automatically restored if the power is cut off
- Does not require condensate drainage
- *IPX4 degree of protection (protected against splashing water from any direction)*
- Operating temperature: -30°C to + 50°C
- Option to replace the standard filter with **ISO COARSE (model 160 only)**



Technical characteristics of the product

Heat recovery unit equipped with DC (brushless) motor fan with control electronics on ball bearings and separate inlet and outlet dust filters. Possibility to regulate the air flow via remote control.

Functioning

For 70 seconds, the *ASSOLO TE-22* extracts the hot and stale air present in the room towards the outside. During the passage through the duct the air releases its thermal energy which is accumulated by the ceramic exchanger; at the end of this phase the fan reverses the direction of rotation and starts the intake phase for another 70 seconds. The cold external air, passing through the hot exchanger, recovers the thermal energy that is then released into the room at a more comfortable temperature. This translates into significant energy savings.

Accessories available for ASSOLO TE-22

Both versions of *ASSOLO TE-22* are equipped with a remote control thanks to which it is possible to adjust the speed of the air flow.

For the **BASE 1.0** version, the remote control has a button for turning the machine on and off and two buttons for increasing or decreasing the flow speed.

The **ACTIVE 2.0** version includes a remote control with display thanks to which it is also possible to adjust the humidity level, insert the night function and manage up to 16 units in a Master/Slave system with a simple dip switch configuration.

It is also possible to purchase the remote-control panel with display separately which includes the same functions as the remote control and the version with CO₂ probe.

Modes and functions of the remote control with display

- **AUTOMATIC MODE:** the product runs in automatic mode as per factory settings
- **SURVEILLANCE MODE:** the unit remains in sleep mode but keeps the sensors activated; in case of parameters like humidity change, it will automatic start running
- **AIR FLOW DIRECTION:** this function is available if the products are at least two: it allows to only intake



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- or only extract air simultaneously for a desired time
- **MANUAL FUNCTION:** Running mode with heat recovery at the manually set speed (the sensors excluded)
- **SPEED:** 3 adjustable speed levels
- **HUMIDITY LIMIT SELECTION:** humidity sensor with 3 set levels: min 40%, medium 55%, max 70%
- **BOOST FUNCTION:** it allows the air extraction at the maximum speed for a certain time
- **FILTER:** after 3000 hours operations the unit requires ordinary maintenance. Pushing this button, after maintenance, the normal operation can be restored
- **NIGHT FUNCTION:** it allows to minimize the flow rate and noise during night

Optional filters

ISO COARSE filters, compared to the standard dust filter, allow more efficient filtration of particles larger than 10um in diameter (such as hair, hair, pollen, sand, dust in general). The filters are only available for 160 mm diameter and with different degrees of filtration:

- **ISO COARSE 30%:** reduces the nominal flow rate by about 5%.
- **ISO COARSE 45%:** reduces the nominal flow rate by about 15%.
- **ISO COARSE 60%:** reduces the nominal flow rate by about 25%.

Acoustic damper

The acoustic damper makes it possible to reduce noise from outside when the product is turned off and is only available for the **160 mm** diameter version.



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VERSIONS AVAILABLE	
ASSOLO TE-22 1.0	ASSOLO TE-22 2.0
ON-BOARD OR WALL-MOUNTED CONTROLS (NOT SUPPLIED - OPTIONAL)	CABLE COMMUNICATION BETWEEN THE UNITS
POWER ON/OFF	REMOTE CONTROL WITH DISPLAY (INCLUDED)
3 SPEED PRE-SET SELECTION VIA REMOTE CONTROL (INCLUDED)	BUILT-IN HUMIDITY SENSOR AND TWILIGHT SENSOR
	ABILITY TO MANAGE UP TO 16 UNITS WITHIN A SYSTEM IN MASTER/SLAVE MODE
	3 SETTABLE SPEEDS + NIGHT FUNCTION

Technical Features

TECHNICAL DATA									
SKU	MODEL	HOLE	VOLTAGE (V)	FREQUENCY (HZ)	IN/OUT FLOW RATE (M ³ /H)	P (PA)	POWER	NOISE	WALL DEPTH
14386	TE-22 1.0	Ø 100 MM	220 - 240	50	30	72	6.9	37	MIN. 200 MM - MAX 3 M*
14387	TE-22 2.0	Ø 100 MM	220 - 240	50	30	72	6.9	37	MIN. 200 MM - MAX 3 M*
14391	TE-22 1.0	Ø 160 MM	220 - 240	50	60	54	6.7	29	MIN. 150 MM - MAX 3 M*
14394	TE-22 2.0	Ø 160 MM	220 - 240	50	60	54	6.7	29	MIN. 150 MM - MAX 3 M*

***2.5 m if a 90° bend is present**

PERFORMANCE DATA												
SKU	NIGHT SPEED			SPEED 1			SPEED 2			SPEED 3		
	FLOW RATE M ³ /H	POWER W	NOISE DB(A) _{3M}	FLOW RATE M ³ /H	POWER W	NOISE DB(A) _{3M}	FLOW RATE M ³ /H	POWER W	NOISE DB(A) _{3M}	FLOW RATE M ³ /H	POWER W	NOISE DB(A) _{3M}
14386	-	-	-	10	4.7	18	20	5.6	28	30	6.9	37
14387	5	4.0	13	10	4.7	18	20	5.6	28	30	6.9	37
14391	-	-	-	20	4.2	10	40	5.5	22	60	6.7	29
14394	10	3.9	4	20	4.2	10	40	5.5	22	60	6.7	29

For version 1.0 refer to speeds 1, 2 and 3 only.

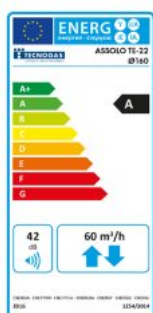
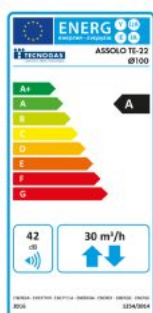


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DIMENSIONS (REFER TO THE TECHNICAL DRAWING IN THE IMAGES)

A	B	C	D	E	F	G	H	I
220 MM	220 MM	80 MM	500 MM	80 MM	210 MM	Ø 100/160 MM	210 MM	210 MM

SKU	MODEL	PRICE
00000014386	ASSOLO TE-22 1.0 - Ø 100 MM	€415.8 VAT EXCLUDED
00000014387	ASSOLO TE-22 2.0 - Ø 100 MM - MASTER	€533.4 VAT EXCLUDED
00000014389	ASSOLO TE-22 2.0 - Ø 100 MM - SLAVE	€491.4 VAT EXCLUDED
00000014391	ASSOLO TE-22 1.0 - Ø 160 MM	€436.8 VAT EXCLUDED
00000014394	ASSOLO TE-22 2.0 - Ø 160 MM - MASTER	€554.4 VAT EXCLUDED
00000014395	ASSOLO TE-22 2.0 - Ø 160 MM - SLAVE	€512.4 VAT EXCLUDED
00000014416	CONTROL PANEL	€420.0 VAT EXCLUDED





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