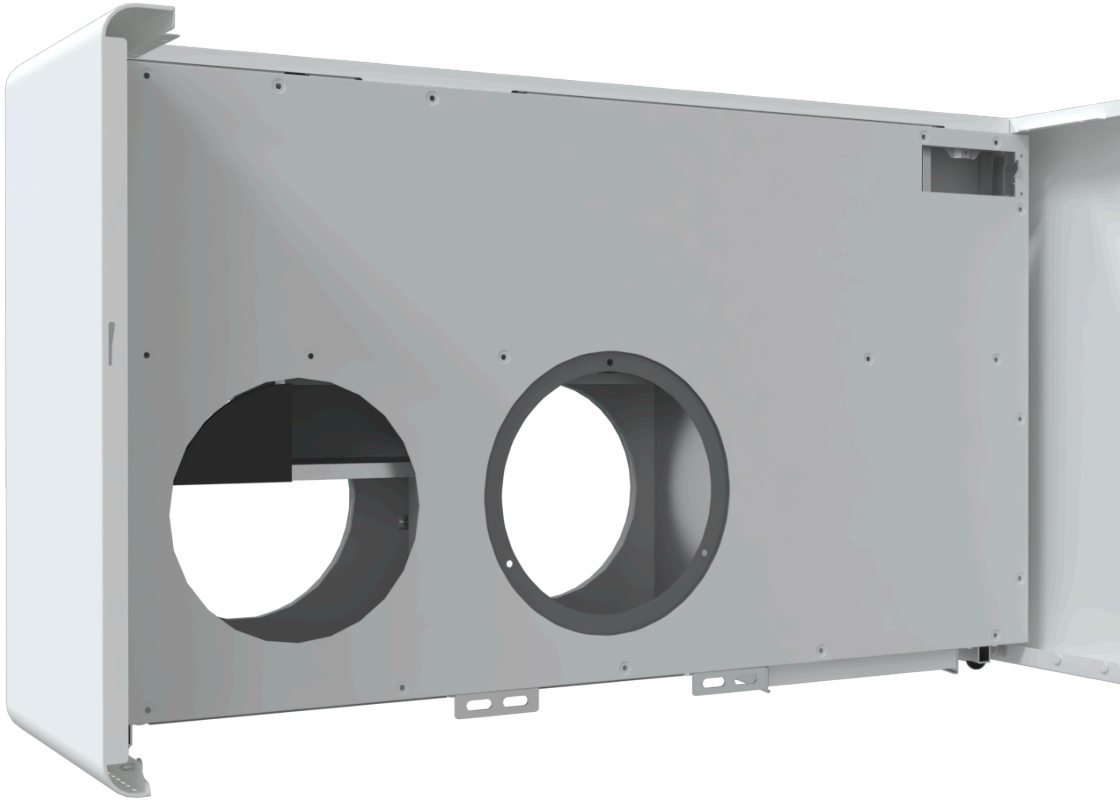
AIO® ERV Module (AWERV30-3) for Wall Mounted and Wall Mounted Pro (Gen 3)

Product Data Sheet



innova

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1. READING THIS DOCUMENTATION

Some symbols and language in this guide have specific meanings.

Unit orientation
All directions in this guide (left, right, top, bottom) are given from the perspective of facing the unit.

Note: Any reference to "the unit" is meant to refer to the AIO® Wall Mounted ERV unit.

1.1 Icons and symbols

Warnings and Attentions are included throughout this guide. It is essential to read each carefully and follow the instructions stated.

⚠ WARNING

Used to advise of a situation or potential situation which, if not avoided, may result in death, serious injury, and/or property damage.



Used to advise of a situation or potential situation which, if not avoided, may result in less than optimum performance of the unit.

2. OVERVIEW

The AIO® ERV for Wall Mounted is an integrated system that works with the AIO® Wall Mounted heat pump to combe the heat pump with an optional Energy Recovery Ventilator (ERV) attached together as a single unit. When equipped with an ERV, the unit provides both space conditioning and controlled ventilation air.

The ERV preconditions outdoor air by transferring energy from the exhaust air stream. While the ERV significantly reduces the outdoor air load, it does not fully condition the air to room temperature. As a result, a portion of the heat pump's heating or cooling capacity is used to further condition the ventilation air before it is supplied to the space.

When the ERV option is enabled, published heating and cooling capacities must be considered as serving both space load and ventilation load. ERV capacity offsets only the outdoor air load and does not contribute to space conditioning of recirculated indoor air.

If the unit is configured without the ERV option, the full heat pump capacity is available exclusively for space conditioning.

⚠ WARNING

Only qualified professionals should install this equipment. Improper modifications by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the guide and on labels attached to the equipment.

3. KEY FEATURES

Integrated ERV
The ERV integrates with the AIO® Wall Mounted and AIO® Wall Mounted Pro and eliminates the requirement of installing an independent ERV system, ducting, electrical work, and engineering.

Recovery plus™
With a patent-pending innovation, the ERV sends the stale air through the AIO® Wall Mounted's condenser, utilizing the hot or cold air after passing through the recovery core to lower or raise the temperature of the condenser, providing a boost in performance and efficiency.

MERV 13 clean air
Clean outdoor air is essential to well-being and safety. The MERV 13 filter ensures that all air entering the room or home is clean and safe. Additionally, stale air is passed through a second MERV 13 filter, keeping the core clean.

High-efficiency ECM fans with auto ESP
High-efficiency electronically commutated motor (ECM) fans enable efficient and quiet operation because the EC motor can ramp up or down depending on the need. Automatically adjusted external static pressure ensures correct airflow.

Programmable independent fan speeds
Each of the ECM fans can be independently programmed for unbalanced airflow. This can be useful to increase the flow of fresh air and reduce the flow of stale air or vice versa. This can be useful to balance bathroom fans, etc.

Quiet
With whisper-quiet operation as low as 27 decibels, the occupant will barely notice that the ERV is operating.

Versatile on/off options
The AIO® ERV's low-voltage connection enables connection to any Building Management system (BMS), key-card system, window sensors, fire alarms, etc. As long as a system can send a signal to the AIO® unit via low voltage, the unit can be easily turned on or off.

Easy to service
The ERV can be easily maintained and repaired from the front or bottom of the unit without removing it from the wall. An AIO® unit can also be quickly swapped with a replacement, reducing downtime.

Versatile controls
The ERV unit includes an onboard touch controller and an optional iOS and Android app. AIO® can be used with optional wall-mounted controllers, including a Thin Film Transistor (TFT) with a 7-day program, and third-party controllers from any company, using the optional third-party kit. An optional BACnet and Modbus module enables interfacing with building management systems.

4. TECHNICAL REQUIREMENTS

4.1 ERV Specifications

Refer to the Installation manual for complete installation requirements and specifications. This ERV is designed to be used together with the AIO® Wall Mounted standard and Pro versions. It is not designed to be used with any other system.

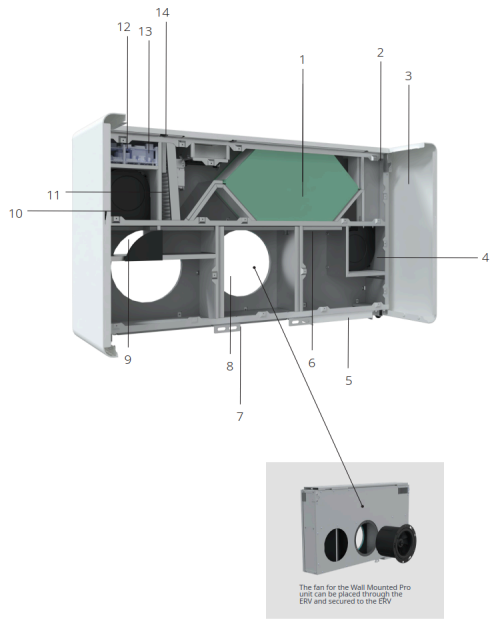
- The power supply is dual-voltage and connects to the AIO® Wall Mounted standard and Pro versions via a quick-connect wiring harness using either 115V or 230V.
- Interior clearances are as follows:
  - Sides of unit to wall: 1" (25 mm)
  - Bottom of unit to floor 3" (76 mm) - if nebulizer is included: 6" (152 mm)
  - Top of unit to any obstruction: 3.5" (89 mm)
- Unblocked vents on the exterior and no obstacles within 36" (914 mm).
- The condensate drain for the ERV can be combined with the condensate drain of the Wall Mounted standard and Pro versions.
- Approved louvers must be installed with best practices to ensure that no water enters the wall assembly.
- The vents on the ERV are 8" (203 mm) diameter ducts. This enables the ERV to be compatible with Wall Mounted standard units using 6" (152 mm) vents and Wall Mounted Pro versions using 8" (203 mm) vents. When ducting the ERV, it is advised to use a sleeve and louver size compatible with the unit. The openings in the ERV allow the correct-sized sleeve to pass through.
- The ERV must be perfectly level on the horizontal axis and perfectly plumb on the vertical axis.
- The venting sleeves pass through the ERV to the outside. It is not required that the ERV be tight to the wall. However, it is critical that the sleeves are tight to the back of the Wall Mounted standard and Pro version unit and to the louvers.

4.2 Louver Specifications

The ERV follows the same louver specifications as the Wall Mounted standard and Pro versions. Refer to the specifications of the Wall Mounted standard or Pro version with which the ERV is being paired.

5. WHAT'S INSIDE

Figure 1. What's Inside

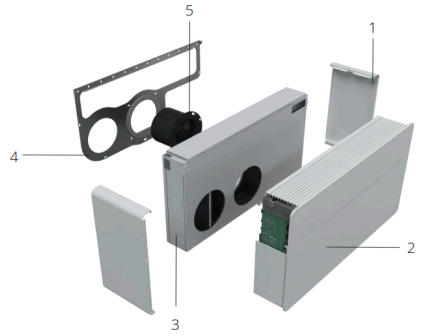


1	ERV core	**8**	Stale air exhaust
2	Hook to secure the Wall Mounted Pro	**9**	Fresh air intake
3	Side panel	**10**	ECM fresh air supply fan
4	ECM stale air exhaust fan	**11**	MERV 13 filter for outside air
5	MERV 13 filter for stale air	**12**	Hook to secure the Wall Mounted Pro
6	ERV Drain	**13**	ERV controllers
7	Anti-lift bracket to secure the Wall Mounted Pro	**14**	Access panel for MERV filter

6. IN COMBINATION WITH WALL MOUNTED PRO

6.1 Fan in wall option

Figure 2:



1	Extended side panel
2	AIO® Wall Mounted Pro
3	ERV
4	Mounting bracket
5	External Fan

6.2 Fan in ERV option

Figure 3:

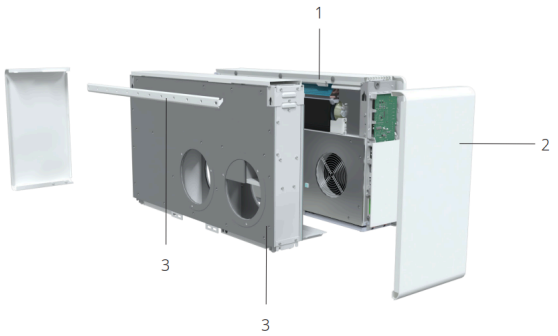


1	AIO® Wall Mounted Pro
2	External fan
3	ERV
4	Extended side panel
5	Fasten the fan to ERV

7. IN COMBINATION WITH WALL MOUNTED

7.1 Rear View

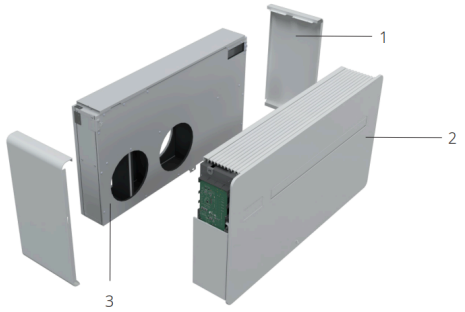
Figure 4.



1	AIO® Wall Mounted
2	Extended side panel
3	ERV
4	Mounting bracket

7.2 Front View

Figure 5.



1	*Extended side panel*
2	AIO® Wall Mounted
3	ERV

8. TECHNICAL SPECIFICATIONS

8.1 ERV

General	
Flow type	Counterflow enthalpy exchanger
Material	Mold and bacteria-resistant, washable polymer membrane
ASHRAE compliance	62.1 and 62.2 when used with the ERV module

		15 CFM (25.5 m^3/hr)	20 CFM (34.0 m^3/hr)	25 CFM (42.5 m^3/hr)
Efficiency of core in winter	Sensible	81.4%	79.4%	77.5%
	Latent	68.5%	65.4%	62.3%
Efficiency of core in summer	Sensible	70.2%	67.6%	65.1%
	Latent	52.4%	52.9%	53.5%
Filter	Indoor air	MERV 3 / optional MERV 13	MERV 3 / optional MERV 13	MERV 3 / optional MERV 13
	Outside air	MERV 13	MERV 13	MERV 13
Leakage	Internal	2.6% at 0.40" WC (99.6 Pa)	2.4% at 0.40" WC (99.6 Pa)	2.2% at 0.40" WC (99.6 Pa)
	External	2.8% at 1.0" WC (249.1 Pa)	2.7% at 1.0" WC (249.1 Pa)	2.5% at 1.0" WC (249.1 Pa)

8.2 Airflow

General		
Fresh air intake		
Type		ECM centrifugal
Flow	CFM	10-30
	m^3/hr	17.0 - 51.0
Speeds		Based on CFM
Filter		MERV 3
Stale air exhaust		
Type		ECM centrifugal
Flow	CFM	10-30
	m^3/hr	17.0 - 51.0
Available ESP		N/A
Connection		Integrated
Speeds		Low, med, high, auto
Filter		Merv 13

8.3 Electrical

General	
Volt range	98 - 250
Hz/phase	60 Hz/single phase
Power supply	Connects to AIO® Wall Mounted via wiring harness
Input power (standby)	1.2 W
Input power (off mode)	0.5 W

Motors		
Fresh air intake ECM fan motor	W (max)	5.45
	FLA	0.5
	HP	0.04
Stale air exhaust ECM fan motor	W (max)	5.45
	FLA	0.3
	HP	0.04

General			
Sound			
Indoor			24 - 40 dB(A)
Controls	Basic functionality		Dependent on the controller
	Wifi		Included
	Dry contact		Yes
	Power outage restart		Auto-on based on last setting
Modes	Operation		Fresh Air on/ Fresh Air off
	Amount of Fresh Air		Field configured
	Timers		Dependent on the controller
Condensate	Pipe size		1/2" (12 mm) Outside diameter
	Pipe material		Rubber
Dimensions of ERV			
Dimensions			39.7" W x 21.9" H x 5.5" D
			1008 mm W x 556 mm H x 139 mm D
Dimensions with AIO® Wall Mounted			
Physical Data	Dimensions		39.9" W x 21.7" H x 11.5" D
			1014 mm W x 551 mm H x 292 mm D
	Weight	Net	135 lb (61.2 kg)
		Gross	140 lb (63.5 kg)
	Cabinet finish		RAL 9003 signal white
	Cabinet material		Steel

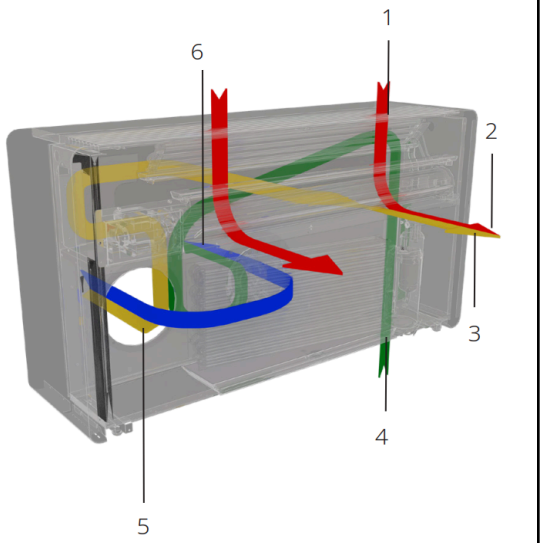
9. AIRFLOW

The AIO® ERV Module is extraordinarily flexible in how it can vent externally, because it uses the same vents and adapters as the AIO® Wall Mounted and Wall Mounted Pro.

Outside air intake
The 6" (152 mm) or 8" (203 mm) round outside air intake connection uses the same vents and adapters as the AIO® Wall Mounted and Wall Mounted Pro.

Outside air exhaust
The 6" (152 mm) or 8" (203 mm) round exhaust connection uses the same vents and adapters as the AIO® Wall Mounted and Wall Mounted Pro.

Figure 6:



1	Room return air
2	Room supply air
3	Fresh air
4	Stale air exhaust
5	Outside air intake
6	Exhaust air

10. ERV PERFORMANCE CHARACTERISTICS

Ventilation Capacity
ERV capacity is based on the outdoor airflow rate (CFM). Higher airflow rates increase energy recovery but also increase the remaining load that must be handled by the heat pump. ERV capacity is applied only to the ventilation air stream and cannot be used for space heating or cooling.

Input Power
ERV input power reflects the combined power consumption of the supply and exhaust ECM fans. Input power increases with higher ventilation airflow rates. Outdoor airflow is field-adjustable within the specified CFM range.

Energy Recovery Efficiency
Sensible and latent recovery efficiencies vary with airflow rate and operating conditions. ERV efficiency reflects energy recovery from the exhaust air stream and does not represent delivered heating or cooling capacity.

11. ERV OPERATION AND COMPATIBILITY

The ERV is designed to operate only in conjunction with the wall-mounted unit and is not a standalone ventilation device. Ventilation air is introduced into the unit's supply airflow and distributed by the indoor blower. As a result, the ERV operates only when the indoor blower is running.

Operating Behavior

- Fan Mode: Indoor blower runs continuously; ERV operates continuously.
- Cooling Mode: Indoor blower runs continuously during active cooling; ERV operates continuously.
- Heating Mode: ERV operates during normal heating. During defrost, the indoor blower is temporarily stopped to prevent cold air discharge; during this period, the ERV also shuts off. This is normal operation.
  Continuous ventilation requires Fan or Auto mode (where available).

ERV Generations and Control
All ERV generations are directly tied to indoor blower operation and do not operate independently.

- Gen 1 ERV:
  Fixed-speed, on/off operation; compatible with Gen 1, Gen 2, and Gen 3 wall-mounted units.
- Gen 3 ERV hardware:
  Multi-speed capable; variable airflow is enabled only when paired with compatible wall-mounted units.

Wall-Mounted Unit Compatibility
Gen 3 wall-mounted units (serial numbers after IN2504830, released February 2025) support communication of indoor fan speed to the ERV. When paired with these units, ventilation airflow modulates to match the selected indoor fan speed.

Note: As an inverter system, the indoor fan may continue operating at reduced capacity after the setpoint is reached.

12. DIMENSIONS

To view the dimensions as a high-resolution PDF, click the link below:

AIO ERV for Wall Mounted (AWERV30-3) Dimensio...

Figure 7.

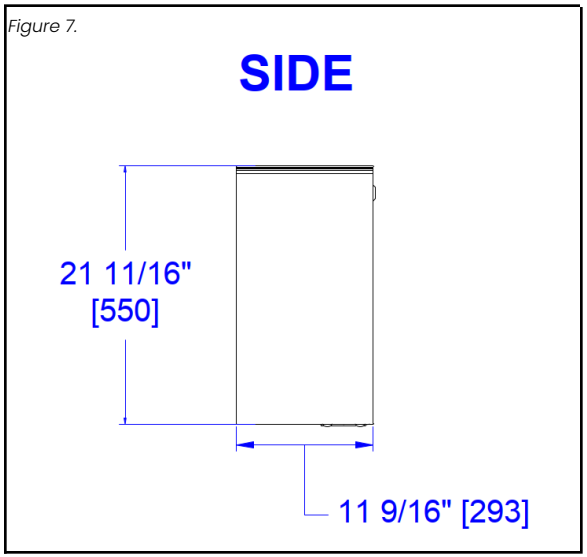


Figure 8.

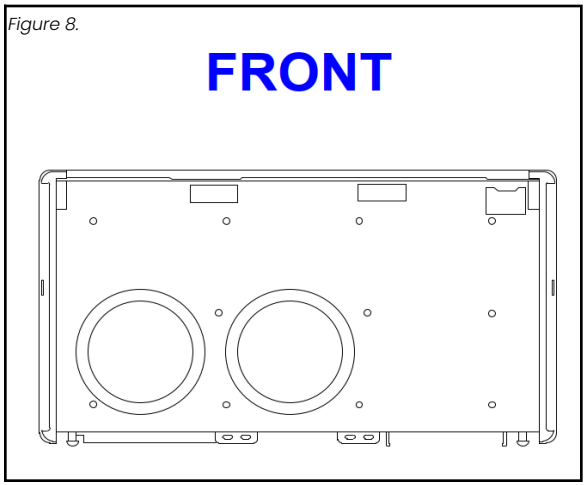


Figure 9.

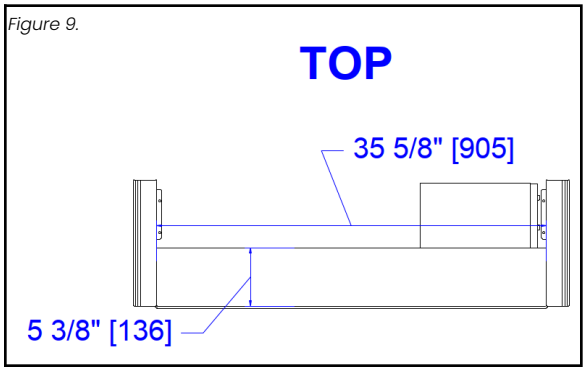
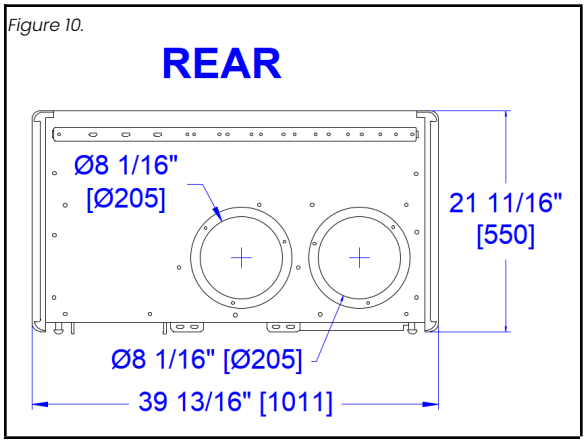


Figure 10.



13. WARRANTY INFORMATION

13.1 Basic Coverage

- **Parts:** 5 years from delivery.
- **Compressor:** 10 years from delivery.
- **Labor:** 2 years from certification (only if at least 10 units are installed, the site is certified by INNOVA or self-certified, and spare stock equal to 3% of total units is maintained)
- **Controllers:** Covered under a 2-year warranty.

13.2 Optional Extended Coverage

- **Additional 2-Year Parts & Labor Warranty:** Extends the basic coverage to 4 years labor and 7 years parts.
- **Extended 10-Year Parts Warranty:** Extends parts coverage to 10 years total.
- **Extended 5-Year Full Warranty:** Extends full parts and labor coverage to 5 years total.
- **Extended 10-Year Full Warranty:** Provides a 10-year full warranty on parts, labor, and compressor.
- **Extended 15-Year Full Warranty:** Provides a 15-year full warranty on parts, labor, and compressor.

13.3 Validation Requirements

- Installation must be certified by an INNOVA technician or self-certified within 30 days.
- Installers must complete INNOVA training.
- The system must comply with local codes, use approved louvers, and be properly maintained (e.g., clean filters monthly, coils every 18 months).

For warranty service or claims, contact INNOVA Support at VIP@innova.co or (212) 204-2700.

For detailed terms and conditions, click the link below:

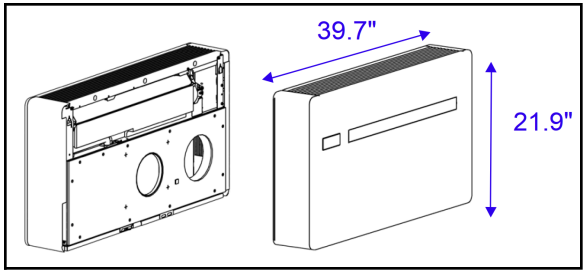
AIO Warranty Terms and Conditions - 2026 - Inn...

14. AIO® ERV SUBMITTAL (AWERV30)

Job	Reference	Construction
Location	Approval	Quote Number
Engineer	Date	Drawing Number
Submitted To	Submitted By:	P.O. Number:

General Features

- High Efficiency Enthalpy plate counter-flow heat recovery
- Two independently controlled ECM fans for supply and exhaust
- Dual voltage compatible with 115V and 230V AIO® Wall Mounted unit systems.
- Programmable amount of fresh air
- Auto restart
- MERV 13 filter
- Includes side panels to cover the ERV and AIO® Wall Mounted
- 10-Year limited warranty (after certification) includes 2-year parts and labor, and an additional 8-year limited parts warranty on the compressor
- Made in Italy



Core

		15 CFM (25.5 m^3/hr)	30 CFM (42.5 m^3/hr)
Efficiency of the core in winter	Sensible	81.4%	77.5%
	Latent	68.5%	62.3%
Efficiency of the core in summer	Sensible	70.2%	65.1%
	Latent	52.4%	53.5%
Filter	Indoor air	MERV 3 / optional MERV 13	MERV 3 / optional MERV 13
	Outside air	MERV 13	MERV 13
Leakage	Internal	2.6% at 0.40 " WC (99.6 Pa)	2.4% at 0.40" WC (99.6 Pa)
	External	2.8% at 1.0" WC (249.1 Pa)	2.7% at 1.0" WC (249.1 Pa)

Electrical

General		
Volt range		Dual voltage 98 - 250
Hz/phase		60 Hz single phase
Power supply		Connects to AIO® Wall Mounted via wiring harness
Input power (standby)		1.2 W
Input power (off mode)		0.5 W
Motors		
Fresh air intake ECM fan motor	W (max)	5.45
	FLA	0.5
	HP	0.04
Stale air exhaust ECM fan motor	W (max)	5.45
	FLA	0.3
	HP	0.04

Airflow

General		
Fresh air intake		
Type		ECM centrifugal
Flow	CFM	10-30
	m^3/hr	17.0 - 51.0
Speeds		Based on CFM
Filter		MERV 3
Stale air exhaust		
Type		ECM centrifugal
Flow	CFM	10-30
	m^3/hr	17.0 - 51.0
Available ESP		N/A
Connection		Integrated
Speeds		Based on CFM
Filter		MERV 13

General

Sound		
Indoor	24 - 40 dB(A)	
Condensate	Pipe size	1/2" (12 mm) Outside diameter
	Pipe material	Rubber
Physical Data	Dimensions	39.7" W x 21.9" H x 5.5" D
		1008 mm W x 556 mm H x 140 mm D
		Width AIO® wall Unit - 11" (279 mm)
	Panels finish	RAL 9003 signal white
	Panel material	Steel

With over 20 years of experience in the climate comfort sector, we have a clear goal: growth through innovation. Our team is laser-focused on the conception, development, and production of innovative heating, ventilation, and air conditioning solutions. This mission has developed through bringing together technical skills, creativity, technology, design, Italian passion, and a global vision to achieve the best energy efficiency and performance.

innova.co | **USA:** 216-710-1000 **Canada:** 416-739-1000

MADE IN ITALY

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Revised August 20, 2026

AIO® ERV Module (AWERV30-3) for Wall Mounted and Wall Mounted Pro (Gen 3) **Product Data Sheet**