

Product
Data Sheet



Vertical Stack XL

List price \$10,391/ \$12,386 w/ERV

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AIO vertical stack is the ideal multi-room solution when a ceiling-mounted unit is not desired or feasible. The compact 12-inch by 25-inch compact footprint uses minimal floor space. This unit is perfect anywhere direct venting or ducting is required with up to 0.6" external static pressure. Use any grille and louvers for maximum design flexibility.

Ephoca is constantly innovating and improving its products and reserves the right to modify product design and specifications without notice and without incurring any obligations.

Ephoca is the US subsidiary of Innova SRL - Via 1° Maggio, 8 – 38089 Storo (TN) Italy.

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KEY FEATURES

- **No outdoor unit**
The single package design means no outdoor unit, freeing up space on rooftops and at ground level and enabling installations in buildings without space for an outdoor unit.
- **Twin rotary BLDC inverter compressor**
The state-of-the-art twin rotary BLDC inverter compressor operates efficiently, quietly, and with minimal vibration. AIO is ideal for any room or area that requires between 10,00 and 24,000 BTU.
- **Integrated ERV**
AIO's integrated ERV eliminates the requirement of installing an independent ERV system, ducting, electrical work, and engineering.
- **Recovery plus™**
With a patent pending innovation, AIO utilizes the heat or cold remaining in the air after passing through the recovery core to lower or raise the temperature of the condenser, enabling a boost in performance and efficiency.
- **Integrated bathroom exhaust system**
The integrated stale air exhaust can be used for bathrooms and kitchens, maintaining perfect air pressure and eliminating a dedicated exhaust system. Bathroom exhaust can be field swapped to left or right.
- **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/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 ECM fans enable efficient and quiet operation as the EC motor can ramp up or down depending on the need. Automatically adjusted external static pressure ensures correct airflow.
- **Cold climate heat pump**
The heat pump operates efficiently down to 5°F outdoors with continued operation to -10F and below.
- **3,600 Watt electric heat**
The electric heat works in conjunction with the heat pump when the heat pump has insufficient power.
- **Intelligent defrosting**
AIO's intelligent defrosting system means more time heating and less time on reverse cycle defrost.
- **Quiet**
With whisper-quiet operation as low as 27 decibels, the occupant will barely notice AIO is operating.
- **No outside noise infiltration**
AIO has the lowest STC and OITC rating among comparable units. This means less outside noise intruding into the room day and night.
- **Versatile on/off options**
AIO's low voltage connection enables connection to any occupancy system, key-card, window sensors, fire alarms, etc.; as long as it can send a signal to AIO via low voltage, the unit can be easily turned on or off.
- **Corrosion protection**
AIO comes standard with corrosion protection, assuring many years of trouble-free performance.
- **Minimal clearances and compact footprint**
AIO's compact form with no line sets means there is no need to access the sides of the unit. Mount units with as little as 1/3 inch clearance on all sides. Compact footprints take up minimum space.
- **Leak protection**
A drain alarm will activate if the drain becomes clogged, and the system will be shut off, preventing water damage.
- **Easy to service**
AIO can be easily maintained and repaired from the front of the unit without having to remove the unit.
- **Versatile controls**
AIO includes an onboard touch controller and an optional iOS and android app. AIO can be used with optional wall-mounted controllers, including a TFT with 7 day program and third-party controllers from any company using the optional 3rd party kit. An optional BACnet and Modbus module enables interfacing with building management systems
- **10-Year limited warranty**
An industry-leading ten-year limited warranty provides peace of mind. Comprehensive onsite one-year parts and labor. Nine-year parts warranty on the compressor.

Available extended on-site comprehensive parts and labor warranty for five, ten and 15 years.

TECHNICAL REQUIREMENTS

Site Requirements

Note: Refer to the full specifications for detailed information about the list of specifications.

- An electrical supply with a grounded 3-prong receptacle.
- The power supply circuit is installed in accordance with the current edition of NEC (ANSI/NFPA 70) and local codes and ordinances. Note: Always consult local and national electric codes.
- Voltage rating of 60 Hz, 208V/230V single phase.
- Properly installed insulated condensate drain line with a minimum of 30% slope if an external drain. An internal drain is highly recommended. If using an external drain on a low floor, ensure that end of drain is above the maximum height of snow buildup. An internal drain is highly recommended. If using an externally run condensate line, note the following:
 - **Must be properly insulated**
 - **Minimum of 30% slope**
 - **If on a low floor, ensure that end of drain is above the maximum height of snow buildup.**
 - **Highly recommended to use a heat trace wire on the drain line - which can be connected to the a heat trace power connection on the bottom of the unit.**

- Interior clearances are only required to prevent vibrations. Leave at least 1/3" of clearance from any surface. All others clearances are only dependent on ducting.
- Approved louvers installed with best practices to ensure no water into the wall assembly.
- Correctly sized ductwork, installed properly and balanced.
- The unit must be perfectly level on the vertical and horizontal axis.
- The unit must be tight to ducts, with zero leakage between the external ducts and the unit.
- Properly affixed screws to wall studs or other supporting material.
- Unblocked vents on the exterior and with no obstacles within 36" of the air intake and discharge
- An access panel with adequate clearance to be able to access the entire front of the unit for

Louver Specifications

AIO Vertical Stack XL units can be vented through all kinds of custom and creative solutions. The possibilities are endless, from perforated panels to custom louvers.

There are two critical factors in selecting and sizing a solution that will work with AIO Vertical Stack XL units.

- **Free area:** This area on a louver/grille is open for the air to flow through. The louver, perforated panel, or other solution must have at least the amount of free area as required in the specifications below in the plenum from the unit so that ample air can enter and exit the condenser chamber. A more restrictive solution with a smaller free area can be utilized by enlarging the louver and plenum until the required free area is achieved.

The minimum free area required is .68 sq feet for the intake vent and .68 sq feet for the exhaust vent.

- **Pressure drop:** Pressure drop is the resistance the louver/grille creates against the airflow. This resistance can create heat build-up inside the condenser portion, causing the compressor to overheat and shut down. A solution with a higher pressure drop than specified can be utilized by enlarging the louver and plenum until the pressure

drop is within specification.

The maximum total pressure for the intake and exhaust ducting (if any) and intake and exhaust louvers combined must be under 0.7" WC.

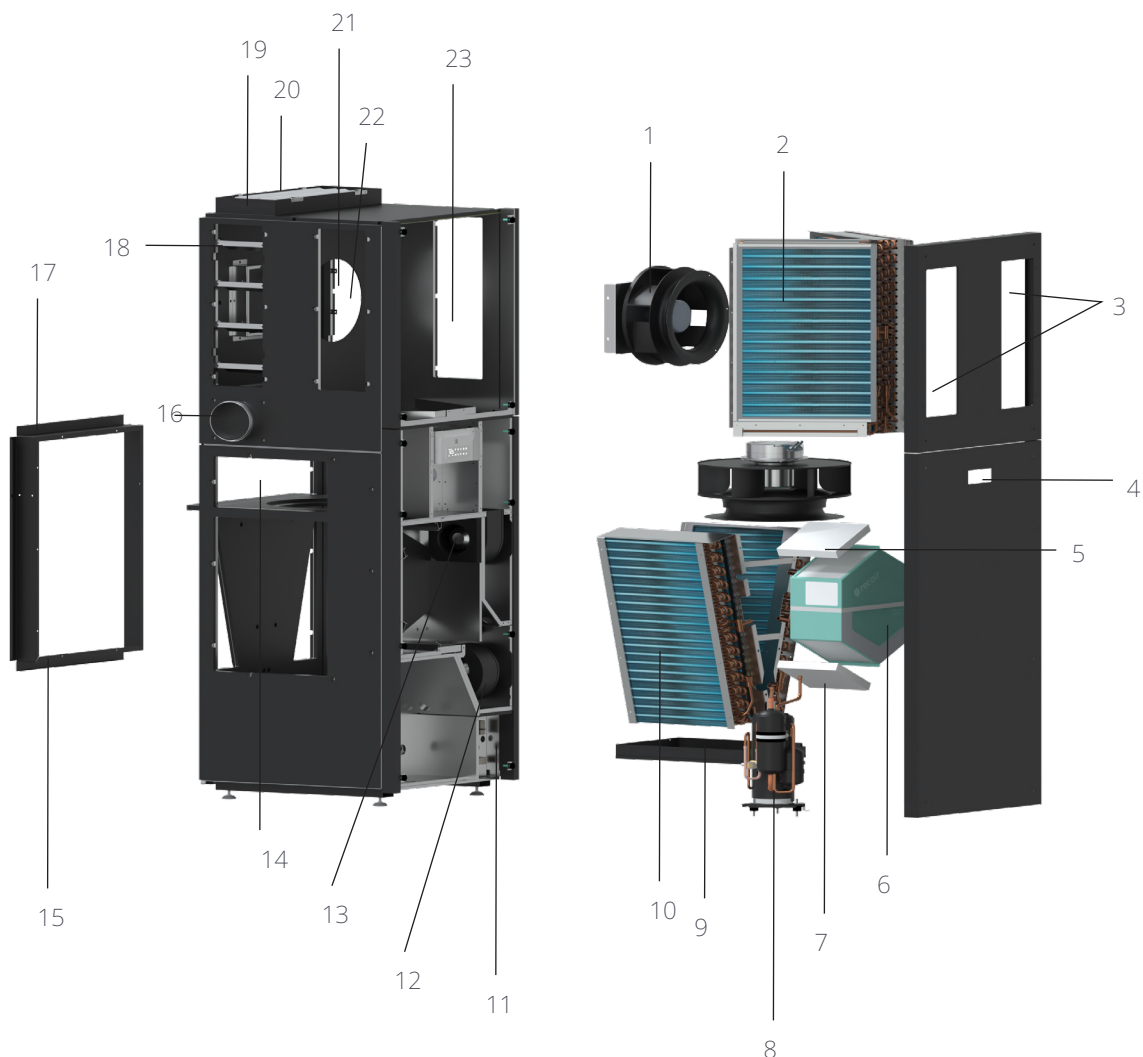
To be clear, the entire assembly of ductwork, plenums, and louvers for the complete air circuit, in and out of the system may not exceed 0.7" WC.

Any louver or louver or assembly must meet these requirements, as exceeding these limits can cause the unit to over-heat and fail and void the warranty.

WHAT'S INSIDE

- 1. Indoor air ECM centrifugal supply fan
- 2. Indoor heat exchanger
- 3. Front return air option
- 4. Touch controller and display
- 5. MERV 13 filter for outside air
- 6. Recovery core
- 7. MERV 13 filter for stale air exhaust
- 8. BLDC Inverter compressor
- 9. Condensate tray with Disbursement system
- 10. Advanced outdoor heat exchanger
- 11. Electronics
- 12. ECM Stale air exhaust fan
- 13. ECM outside air supply fan

- 14. Rear condenser intake and exhaust option
- 15. Left side condenser intake and exhaust option
- 16. Bathroom exhaust
- 17. Intake/exhaust flange - can be placed on rear, left or right sides.
- 18. Right supply air option
- 19. Optional 3 Kw electric heat strip
- 20. Top supply air option
- 21. Left return air option
- 22. Right supply air option
- 23. Right return air option

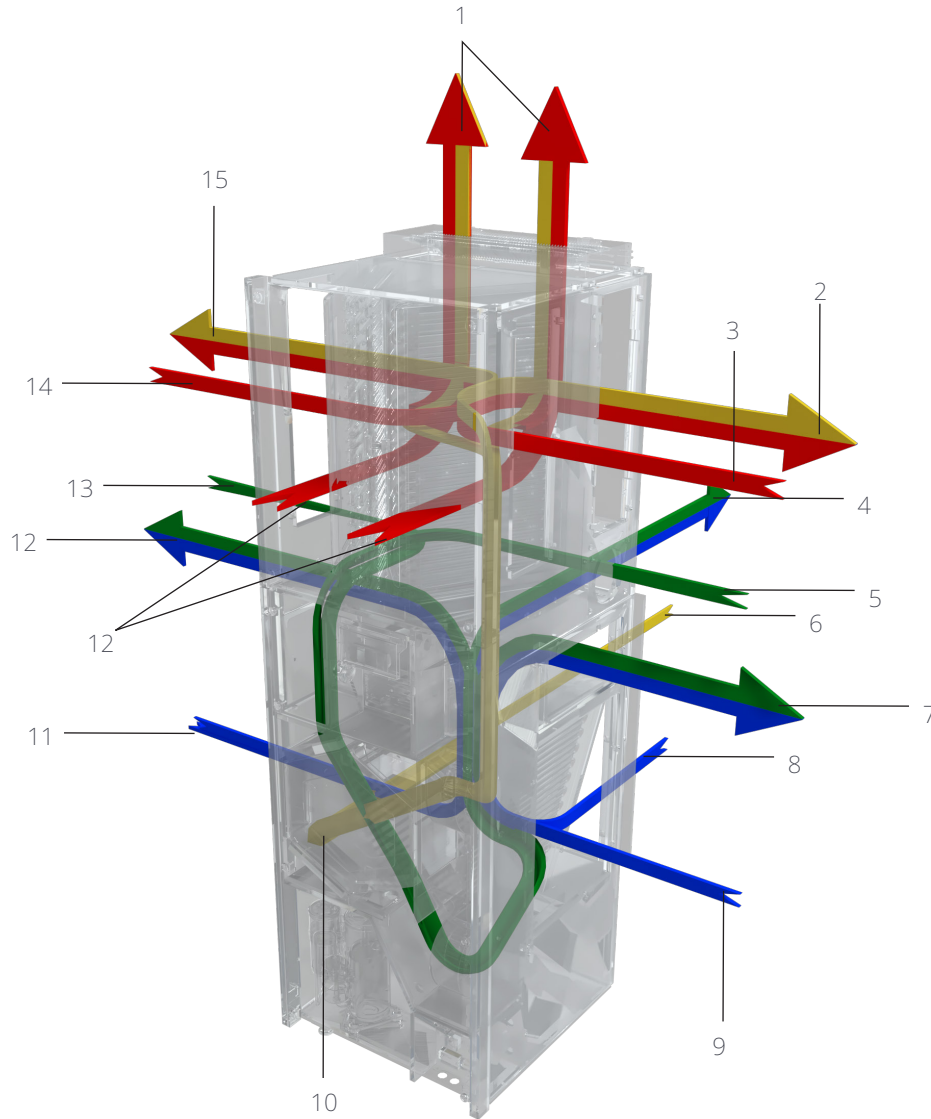


AIRFLOW

AIO Vertical Stack XL's powerful backward centrifugal ECM fan facilitates efficient condenser air movement through ductwork, enabling flexible placement within a room or apartment. Unlike traditional VTACs, it doesn't require an outside wall. The design allows air supply from the top or both sides, with flexible condenser intake options (left, right, or rear). Flexible ducting choices with 0.7 in. W.C. make Model V versatile for installation without restrictions in any dwelling area.

1.	Top Supply
2.	Right Supply
3.	Right Return
4.	Rear condenser exhaust
5.	Right intake of stale air/bathroom exhaust
6.	Outside air intake
7.	Right condenser exhaust
8.	Rear intake

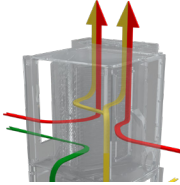
9.	Left intake
10.	ERV Core
11.	Right side intake
12.	Front return
13.	Left condenser exhaust
14.	Left intake of stale air/bathroom exhaust
15.	Left return



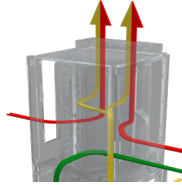
- Outside air
- Fresh air
- Recirculated air
- Stale air exhaust

Fan Coil Part

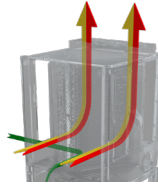
Supply: **Top**
Return: **Left & Right**
Stale Air: **Left**



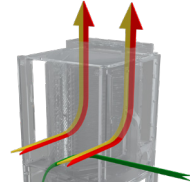
Supply: **Top**
Return: **Left & Right**
Stale Air: **Right**



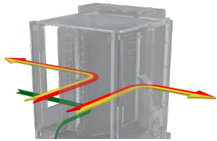
Supply: **Top**
Return: **Front**
Stale Air: **Left**



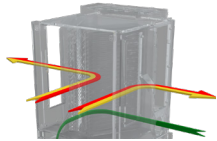
Supply: **Top**
Return: **Front**
Stale Air: **Right**



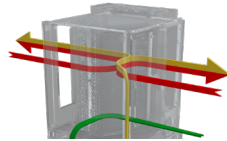
Supply: **Left & Right**
Return: **Front**
Stale Air: **Left**



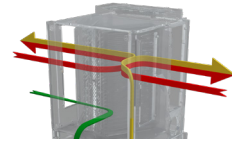
Supply: **Left & Right**
Return: **Front**
Stale Air: **Right**



Supply: **Left & Right**
Return: **Left & Right**
Stale Air: **Right**



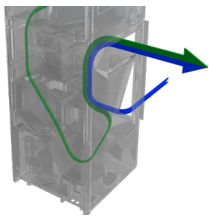
Supply: **Left & Right**
Return: **Left & Right**
Stale Air: **Left**



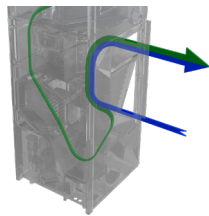
■ Recirculate air ■ Stale air exhaust ■ Fresh air supply

Condenser Part

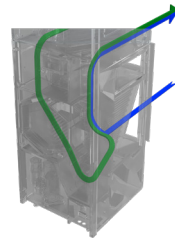
Intake: **Rear**
Exhaust: **Right**



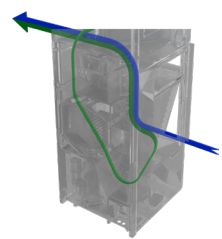
Intake: **Right**
Exhaust: **Right**



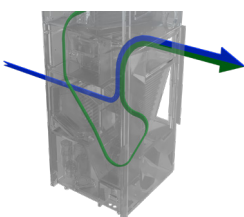
Intake: **Rear**
Exhaust: **Rear**



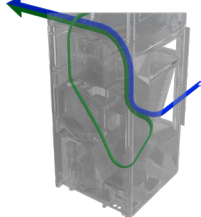
Intake: **Right**
Exhaust: **Left**



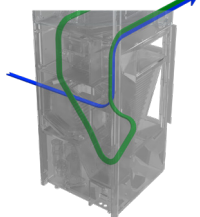
Intake: **Right**
Exhaust: **Left**



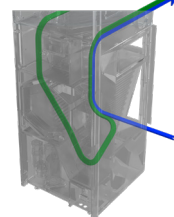
Intake: **Rear**
Exhaust: **Left**



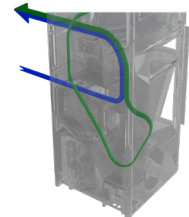
Intake: **Left**
Exhaust: **Rear**



Intake: **Right**
Exhaust: **Rear**



Intake: **Left**
Exhaust: **Left**



■ Outside air ■ Stale air exhaust

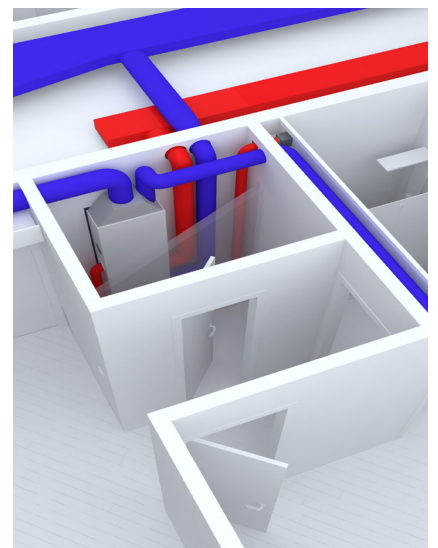
INSTALLATION



Supply upper wall - return lower on both sides of the unit



Shown with plenum adapter for simplified ducting



Shared supply and exhaust vents

TECHNICAL SPECIFICATIONS

Cooling		95°F¹	105°F²	115°F³
Heat Pump				
Maximum		24,000	22,000	21,000
Nominal	Btu/h	20,300	18,300	17,500
Minimum		4,500	3,100	3,100
Input Power	W	1,743	1,956	2,147
Efficiency		13.91 SEER2	9.36 EER2	8.15 EER2
Moisture Removal	Pts/h	1.9	-	

- 1 **95°F** Indoor: 80°F, W.B. 67°F; Outdoor: 95°F, W.B. 75°F
- 2 **105°F** Indoor: 80°F, W.B. 67°F; Outdoor: 105°F, W.B. 75°F
- 3 **115°F** Indoor: 80°F, W.B. 67°F; Outdoor: 115°F, W.B. 75°F

Heating		47°F⁴	17°F⁵	5°F⁶	0°F⁷	-5°F⁸
Heat Pump (+ Optional 3,000 /6,100 BTU/H elec heat)						
Maximum		24,000	12,500	10,100	8,900	8,200
Nominal	Btu/h	17,300	10,400	8,300	7,400	6,800
Minimum		5,000	4,150	3,850	3,850	3,850
Input	W	1,424	1,286	1,210	1,215	1,060
Efficiency		9.12 HSPF2	2.37 COP2	2.01 COP2	1.79 COP2	1.88 COP2

- 4 **47°F** Indoor: 70°F, W.B. 67°F; Outdoor: 47°F, W.B. 43°F
- 5 **17°F** Indoor: 70°F, W.B. 60°F; Outdoor: 17°F, W.B. 13°F
- 6 **5°F** Indoor: 70°F, W.B. 60°F; Outdoor: 5°F, W.B. 3°F
- 7 **0°F** Indoor: 70°F, W.B. 60°F; Outdoor: 0°F
- 8 **-5°F** Indoor: 70°F, W.B. 60°F; Outdoor: -5°F

Airflow

Fresh air volume		
Indoor	Type	ECM centrifugal
	CFM	226 - 400
	Available ESP	0.6" WC
	Supply connection	18" W x 6.7" H top or front
	Return connection	Two side 6" round
	Speeds	Low, med, high, auto
	Filter	MERV 3
Outdoor	Type	ECM centrifugal
	CFM	385 - 638
	Available ESP	0.7" WC
	Intake connection	8" round, left, right or rear, can mix and match
	Exhaust connection	
	Speeds	Low, med, high, auto

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

		40 CFM	60 CFM	80 CFM
Efficiency of core in winter				
Sensible	%	86.7	85.2	83.1
Latent		72.5	65.1	60.3
Efficiency of core in summer				
Sensible	%	71.1	69.4	68.1
Latent		56.2	54.5	51.2
Filter				
Indoor air	MERV	MERV 3 / optional MERV 13		
Outside air		MERV 13		
Leakage				
Internal	WC	2.6% at 0.40"	2.4% at 0.40"	2.2% at 0.40"
External		2.8% at 1.0"	2.7% at 1.0"	2.5% at 1.0"

General

Controls		
Basic functionality	Dependent on controller	
WiFi	Optional module available	
ADA compliant	Dependent on controller	
Dry contact	Yes	
Power outage restart	Auto-on based on last setting	
Modes		
Operation	Cool+ fresh air, cool only, heat+ fresh air, heat only, auto	
Restricted modes	Heat only, cool only, temperature limiting	
Timers	Dependent on controller	
Condensate		
Pipe	Size	3/4
	Material	Rubber

Sound

Sound		
Indoor	dB(A)	27-43
	STC	40
	OITC	35
Outdoor	dB(A)	28-55

Dimensions

Physical data		
Dimensions	Net	28.7" W x 81.9" H x 12.4" D
	Net	170 lb
Weight	Gross	190 lb
	Finish	Black covered with dark gray EPDM
Cabinet	Material	Steel

Electrical

		115V	230V
General			
Volt range		103-127	180-253
Hz/ phase		60 Hz single phase	
Power supply		LCDI power cord or hardwire	
Power factor (%)		0.96	
Input power (standby)	W	10.8	10.8
Input power (off mode)	W	1.7	1.7
Cooling (nominal)	A	6.6	3.3
Cooling (max)	A	15.7	7.8

Heat Pump Only

Heating - heat pump only (nom.)	A	6.5	3.2
Heating - heat pump only (max)	A	16.5	8.3

Heat Pump + 900 W Elec Heat

Heating - heat pump +900 W Elec Heat (nom.)	A	14.3	7.1
Heating - heat pump +900 W Elec Heat (max)	A	24.3	12.2

Heat Pump + 1,800 W Elec Heat

Heating - heat pump + 1,800 W Elec Heat (nom.)	A	-	10.7
Heating - heat pump + 1,800 W Elec Heat (max)	A	-	16.1

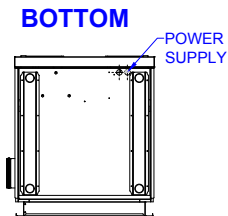
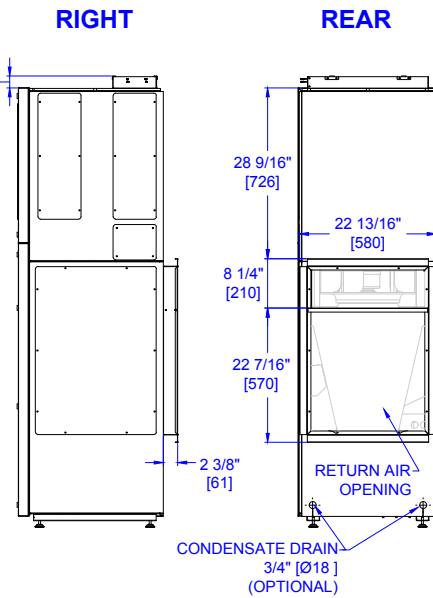
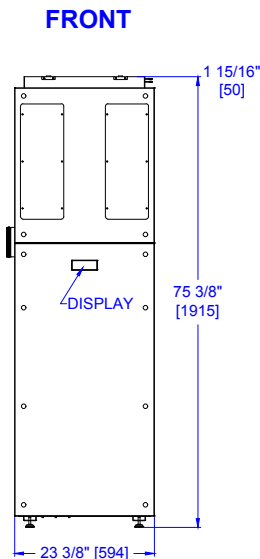
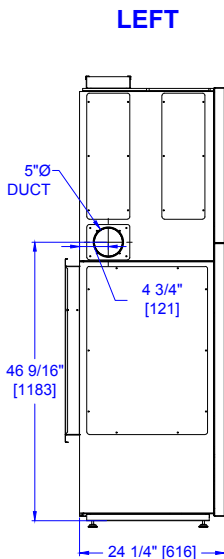
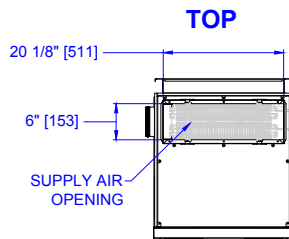
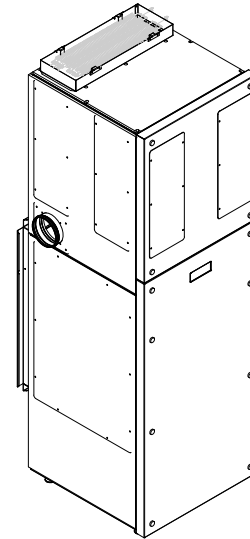
		115V	230V
Motors			
Compressor	RLA	9.5	4.7
	LRA	9.5	4.7
	W (max)	180	180
Indoor ECM fan motor	F.L.A.	1.6	0.8
	HP	0.24	0.24
	W (max)	41	41
Fresh air intake ECM fan motor	F.L.A.	0.5	0.3
	HP	0.05	0.05
	W (max)	41	41
Stale air exhaust ECM fan motor	F.L.A.	0.4	0.2
	HP	0.05	0.05
	W (max)	190	190
Outdoor ECM fan motor	F.L.A.	1.7	0.8
	HP	0.25	0.25

			115V	230V
Circuit breakers				
Heat Pump Only	MCA		20	10
	Recommended breaker size	A	20	15
	MOCP		35	20
Heat Pump + 900 W Elec Heat	MCA		30	15
	Recommended breaker size	A	30	20
	MOCP		40	25
Heat Pump + 1,800 W Elec Heat	MCA		N/A	20
	Recommended breaker size	A	N/A	25
	MOCP		N/A	30

DIMENSIONS

CAD Files

For CAD and DWG files please scan or click the QR code below.



WARRANTY TERMS AND CONDITIONS

Ten Year Limited Warranty

This limited warranty is valid in the Continental United States only and only for the AIO series heat pump which was purchased and installed in its original installation location. This warranty is only valid when the AIO series heat pump air conditioner meets all the conditions below:

- Purchased from an Ephoca authorized distributor.
- Installed by an Ephoca certified technician.
- The installation was certified by an Ephoca technician before the AIO series heat pump was used.
- AIO is operated and maintained in accordance with the printed instructions in the user guide and in compliance with applicable local installation and building codes and good trade practices.
- The site must have a minimum of ten (10) units and there must be spare units on site equal to a minimum of three (3) units or 2.5% of installed units, whichever is greater.

These spare units must be used to replace a unit with a service issue until an Ephoca technician can be on site.

- A maintenance contract with a professional service provider must be in place to ensure the units are maintained and filters kept clean. You must submit documented filter cleaning every two months. You must submit documented annual unit cleaning.
- For any jobs sold with less than 10 units the distributor/ dealer is responsible for all labor costs and responsible for having attic stock for replacements.
- Every job must be inspected before turning on the units, and pictures of at least 10% of the units must be sent to our office. There are no exceptions. The warranty is not valid without a written letter from Ephoca after the installation pictures are reviewed per the self-certification process guide.

What This On-site Warranty Covers

Ephoca, Inc. ("Ephoca") warrants your AIO series heat pump air conditioner ("AIO") against failure due to defects in materials or workmanship under normal use, beginning on date

of certification by the Ephoca technician for the following periods:

Full One-Year Warranty

For the period of one year from the date of certification by the Ephoca technician, Ephoca will replace any part of the AIO which fails due to a defect in materials or workmanship. During this full one-year warranty, Ephoca will provide, on-site, free of charge, all labor and related service costs to

replace the defective part. If you are located in an area where we do not have Ephoca certified technician, we will ship you a replacement unit at our cost and arrange to pick up the defective unit at our cost.

Limited Ten-Year Warranty On Compressor

For the period of ten-years from the date of certification by the Ephoca technician, Ephoca will replace the compressor part should it fail due to a defect in materials or workman-

ship. During this limited ten-year compressor warranty, Ephoca will provide a replacement compressor, however, you will be responsible for all labor costs and related service costs.

Optional Extended Five, Ten and Fifteen Year Comprehensive Warranty

A comprehensive extended warranty is available for five, ten, and fifteen years from the date of certification by the Ephoca technician. During this extended warranty, Ephoca will replace any part of the AIO which fails due to a defect in materials or workmanship.

purchased directly from Ephoca within 90 days of installation. Controllers carry a two-year warranty; extended warranties exclude labor for wall controllers.

During this extended warranty period, Ephoca will provide, onsite, free of charge, all labor and related service costs to replace the defective part. If you are located in an area where we do not have Ephoca certified technicians, we will ship you a replacement unit at our cost and arrange to pick up the defective unit at our cost. Extended warranties must be



Exclusions and Limitations

The warranty shall not cover:

- Any AIO purchased from a non-authorized or out-of-state dealer.
- The extended warranty does not cover wall controllers.
- Any service, part or repair if AIO has not been certified Ephoca technician prior to use.
- Any failure due to or following unauthorized repairs, or repairs performed by unauthorized personnel.
- Installation of AIO, setup of user controls or adjustments to user controls.
- Instruction on user operation.
- Labor costs after the first year, or service trips to deliver or pick up parts not covered by the warranty.
- Replacement of fuses or circuit breakers, wiring or plumbing connections.
- Damage to AIO where there is a corrosive atmosphere containing any damaging chemical such as chlorine or fluorine (other than that normally occurring in a residential environment).
- Cleaning or replacing air filters.
- Removing AIO from inaccessible locations.
- Correcting improper installations.
- Any AIO not installed pursuant to applicable regional efficiency standards issued by the Department of Energy or other local rules and ordinances.
- Failure of AIO due to acts of God, natural disasters, power failures, interruptions, brownouts or power spikes, or due to incorrect inadequate electrical service or failure of Internet Services or Home Networks.
- Any AIO with altered, missing or defaced serial number.
- Damages or personal injury caused directly or indirectly by failure or malfunction of AIO as a result of any cause including natural disasters, accidents, misuse, improper wiring or installation.
- Any cost of supplemental (replacement) Cooling or heat during equipment failure.
- Any cost to replace, refill or dispose of refrigerant, including the cost of refrigerant.
- Any unit if a documented maintenance plan is not in place prior to installation.

Failure to meet any of these conditions will void the warranty:

- The unit must be in alignment with the intended room's design specification
- Submit documented filter cleaning every two months.
- Submit documented annual unit cleaning.
- Maintain attic stock of at least 3%, with a minimum of 5 units.

- Labor warranty applies only to orders of 10 units or more.
- Submit self-certification photos must be submitted to Ephoca at selfcertify@ephoca.com. Warranty activation requires review, approval, and issuance of a certification.
- Splicing low-voltage thermostat wires will void the warranty.
- Using any other wire (e.g. multi-strand) besides a solid copper C-Wire will void the warranty.
- Customer's account balance must be paid.

The warranty will be void if any of the following terms are not met:

- Self-certification photos must be submitted to Ephoca at selfcertify@ephoca.com. Warranty activation requires review, approval, and issuance of a certification.
- The unit must be used in alignment with the intended room's design specifications.
- Warranty is void if the customer's account balance remains unpaid.

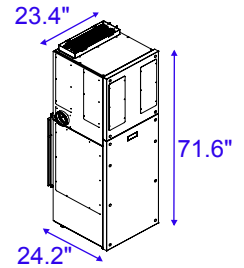
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Some states do not allow the exclusion or limitation of incidental/ consequential damages or limitations on how long an implied warranty lasts, so the above exclusion or limitation may not apply to you. This warranty gives you, the original purchaser, specific legal rights; you may also have other rights that vary from state to state. This warranty does not cover any additional responsibilities or obligations not expressly stated herein nor does it apply to any accessory that is not a part of the AIO as included in the package by Ephoca.

AIO VERTICAL STACK XL - 230V -NO ELECTRIC HEAT - R32 -SUBMITTAL (AX-P10N3H2)

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



General Features

- BLDC inverter compressor
- ECM fans
- R32 Refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Condensate disbursement systems
- Onboard touch controller
- Integrated ERV
- Washable filter
- Electronically controlled air louver
- Compact, slim design
- 3 selectable fan speeds + Auto
- 10 Year limited warranty includes 1 year parts and labor and Additional 9
- Made in Italy

Performance Specifications

Cooling Capacity (Btu/h)	24,000
SEER2	13.91
Rev. Cycle Max Heating Capacity (Btu/h)	24,000
Electric heat (Btu/h)	N/A
Total Heat Capacity w/ Elec (Btu/h)	24,000
HSPF2	9.12
Circulation (CFM)	287 -710
Dehumidification (Pts/h)	1.9

1. EER2 and SEER2 are based on nominal capacity of 8,500 Btu/H
 2. COP/ HSPF2 are based on nominal capacity of 9,000 Btu/h. COP/HSPF2 only take into consideration the heat pump and not electric heat

Electric Specifications

Electric Heat

Power Supply (V Ph, Hz)	230/1/60
Voltage Range	180-253
Running Amps Cooling	12.9
Running Amps Heating	12.2
MCA	17
Maximum Overcurrent Protection (A)	30
Recommend breaker size	20
Max Power Input (watts) Cooling	1,800
Max Power Input (watts) Heating	1,800

Wall Controllers + Gateways

<input type="checkbox"/> Wireless Remote	WRCH20
<input type="checkbox"/> Basic Touch Controller	LTCH20
<input type="checkbox"/> Recessed Touch Controller	RTCH20
<input type="checkbox"/> Advanced TFT Controller with 7-Day program	TFTH20
<input type="checkbox"/> Wireless (AA Battery) Infrared Controller with 7-Day program	WIPT20
<input type="checkbox"/> Third Party Gateway	TPG015
<input type="checkbox"/> Modbus	MODH20
<input type="checkbox"/> WiFi App	WIFI30
<input type="checkbox"/> E-Paper EOS Controller	EEOS12
<input type="checkbox"/> Simple EOS Controller	SEOS12
<input type="checkbox"/> BACnet	BACH20

General Accessories

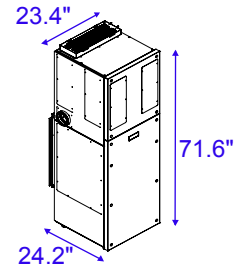
General

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

		40 CFM	60 CFM	80 CFM
Efficiency of core in winter				
Sensible	%	83	80	78
Latent		60	55	52
Efficiency of core in summer				
Sensible	%	68	64	61
Latent		56	53	50
Filter				
Indoor air	MERV	MERV 3 / optional MERV 13		
Outside air		MERV 13		
Leakage				
Internal		2.4% at 0.40"	2.1% at 0.40"	1.8% at 0.40"
External		2.5% at 1.0"	2.3% at 1.0"	2.0% at 1.0"

AIO VERTICAL STACK XL - 230V - 1,800W/3,600W ELECTRIC HEAT STRIP - R32 -SUBMITTAL (AXE10N3H2/AXK10N4H2)

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



General Features

- BLDC inverter compressor
- ECM fans
- R32 Refrigerant
- Field configured 1800W or 3,600W Electric heat supplement
- Auto restart
- Intelligent defrost
- No outdoor unit
- Condensate disbursement systems
- Onboard touch controller
- Integrated ERV
- Washable filter
- Compact, slim design
- 3 selectable fan speeds + Auto
- 10 Year limited warranty includes 1 year parts and labor and Additional 9
- Made in Italy

Performance Specifications

	1,800W	3,600W
Electric Heat		
Cooling Capacity (Btu/h)	24,000	24,000
SEER2	13.91	13.91
Rev. Cycle Max Heating Capacity (Btu/h)	24,000	24,000
Electric heat (BTU/h)	6,140	12,300
Total Heat Capacity w/ Elec (Btu/h)	30,140	36,300
HSPF2	9.12	9.12
Circulation (CFM)	287 -710	287 -710
Dehumidification (Pts/h)	1.9	1.9

1. EER2 and SEER2 are based on nominal capacity of 8,500 Btu/H
 2. COP/ HSPF2 are based on nominal capacity of 9,000 Btu/h. COP/HSPF2 only take into consideration the heat pump and not electric heat

Electric Specifications

	1,800W	3,600W
Power Supply (V Ph, Hz)	230/1/60	230/1/60
Voltage Range	180-253	180-253
Running Amps Cooling	12.9	12.9
Running Amps Heating	20.0	27.9
MCA	25	33
Maximum Overcurrent Protection (A)	35	40
Recommended breaker size	30	35
Max Power Input (watts) Cooling	1,800	1,800
Max Power Input (watts) Heating	3,600	5,400

Wall Controllers + Gateways

<input type="checkbox"/> Wireless Remote	WRCH20
<input type="checkbox"/> Basic Touch Controller	LTCH20
<input type="checkbox"/> Recessed Touch Controller	RTCH20
<input type="checkbox"/> Advanced TFT Controller with 7-Day program	TFTH20
<input type="checkbox"/> Wireless (AA Battery) Infrared Controller with 7-Day program	WIPT20
<input type="checkbox"/> Third Party Gateway	TPG015
<input type="checkbox"/> Modbus	MODH20
<input type="checkbox"/> WiFi App	WIFI30
<input type="checkbox"/> E-Paper EOS Controller	EEOS12
<input type="checkbox"/> Simple EOS Controller	SEOS12
<input type="checkbox"/> BACnet	BACH20

General Accessories

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

Efficiency of core in winter

		40 CFM	60 CFM	80 CFM
Sensible	%	83	80	78
Latent		60	55	52

Efficiency of core in summer

		40 CFM	60 CFM	80 CFM
Sensible	%	68	64	61
Latent		56	53	50

Filter

Indoor air	MERV	MERV 3 / optional MERV 13
Outside air		MERV 13

Leakage

Internal	2.4% at 0.40"	2.1% at 0.40"	1.8% at 0.40"
External	2.5% at 1.0"	2.3% at 1.0"	2.0% at 1.0"



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