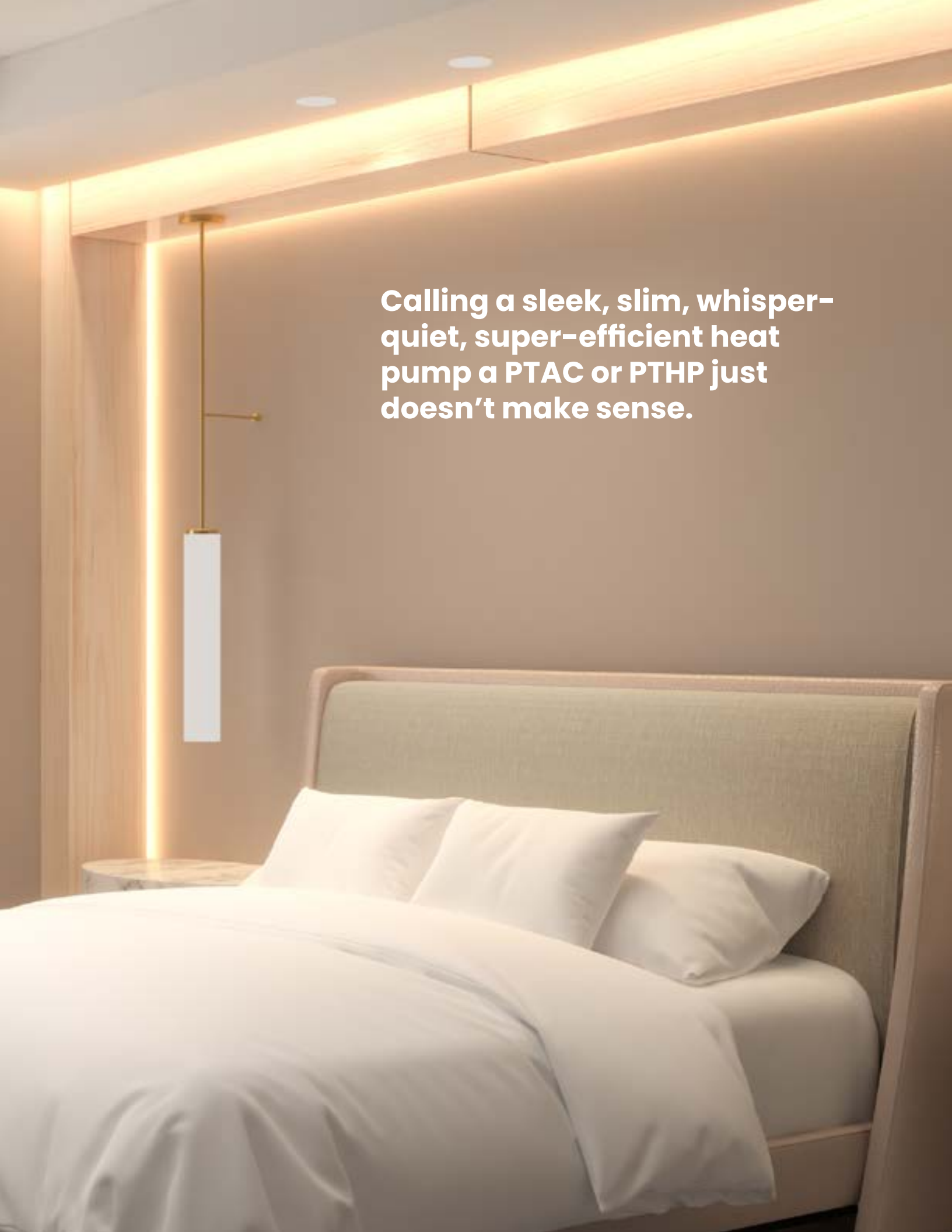


nextac

Next Gen PTAC and VTAC




Calling a sleek, slim, whisper-quiet, super-efficient heat pump a PTAC or PTHP just doesn’t make sense.

Introducing Nextac, an award-winning line of sleek, cutting-edge, whisper-quiet inverter packaged heat pumps with integrated Energy Recovery Ventilators (ERVs)—engineered to replace PTACs, PTHPs, and VTACs.

The next evolution in PTAC and VTAC technology has arrived with Nextac.

Completely re-envisioned and re-engineered, Nextac addresses the shortcomings of traditional PTACs and VTACs by introducing over 61 patent-pending innovations and incorporating state-of-the-art technology. This transformation turns previously unpopular and inefficient PTACs and VTACs into a tour-de-force of total comfort control.

Nextac's heat pumps feature a twin-rotary Brushless Direct Current motor (BLDC) inverter compressor; R-32 refrigerant; heat-pump operation down to -13ºF; a condensate evaporator; integrated ERV; MERV 13 filtration; self-cleaning coils; and ultra-quiet performance as low as 29 dBA.



nextac

MODEL V

MODEL P





AHR 2024 INNOVATION AWARDS WINNER

Model P

The Nextac Model P is designed for a standard PTAC sleeve, making it an ideal replacement for existing PTAC units and new construction projects equipped with PTAC sleeves. Although it shares a foundational structure with traditional PTAC/PTHP units, its distinctive design, technological advancements, and enhanced user experience set it apart.

In contrast to outdated, bulky and unsightly PTAC units, Model P features a sleek and slim profile. While PTAC units are known for their excessive noise, Model P delivers whisper-quiet efficiency. Additionally, it resolves issues such as air leakage and thermal bridge that plague PTACs. Unlike PTACs that consume high amounts of power, especially during electric heating and outdoor air utilization, Nextac is remarkably energy-efficient, due to its twin-rotary BLDC inverter compressor and integrated ERV that recovers lost heat from outdoor air.

The comprehensive list of distinctions between Model P and traditional PTAC/PTHP units can be found in detail within the brochure. Nextac's Model P represents the future of PTAC and PTHP units, combining innovation, efficiency, and improved user experience.



Model P Unique Features

- Optional integrated ERV
- High-Performance independent Electronically Commutated Motor (ECM) fans for outside-air supply and room air exhaust
- Programmable amount of outside-air
- Recovery+ uses exhaust air to warm and cool the condenser, boosting performance
- Easy-access MERV 13 filters for outside-air
- AirSync for balanced airflow
- Connection for bathroom exhaust
- Twin-rotary BLDC inverter compressor
- R-32 low GWP refrigerant
- Cold-climate heat pump operational
  - Heat Pump Only - Down to -5°F
  - Heat Pump + Electric Heat - Down to -13°F
- High-Performance, extra large C and V shaped heat exchangers
- Unique high-efficiency, high-performance backward-curved ECM centrifugal fan
- High-Performance ECM fans for room supply-air
- Optional ThermaSleeve sleeve insulator
- Sound and thermal barrier
- No drain required in heat mode
- Whisper quiet 29 dBA operation
- Sleek, slim design
- All metal paintable case
- Wide range of capacity in a single unit
- No air leakage
- Optional self-cleaning coils
- MERV 3/Optional MERV 13 for room air
- Uniform, consistent temperatures
- Onboard touch controller
- 10-year limited warranty

Model V

Nextac Model V is engineered for standard VTAC closets and louvers, making it an ideal replacement for existing VTAC units and a top choice for new construction projects. While it shares core architecture with traditional VTAC units, Model V stands out with its distinctive design and technological advancements.

Featuring extraordinarily flexible ducting, Model V allows for room supply from the top or sides, room return-air from the sides or front, and condenser intake/exhaust from the rear, left, and right sides. In contrast to noisy VTAC operation, Model V operates with whisper-quiet efficiency. Its energy efficiency, driven by a twin-rotary BLDC inverter compressor and integrated ERV, surpasses traditional VTACs, especially during electric heating and outdoor air utilization.

Unlike traditional VTACs that require placement on an external wall, Model V can be installed anywhere in the room and ducted to the outside. Additionally, it offers the ability to duct air into two rooms, each with its own supply and return-air.

For an in-depth exploration of the differences, refer to the brochure. Nextac Model V represents the future of VTAC units, blending innovation, energy efficiency, and enhanced user experience.



Model V Unique Features

- Integrated ERV
- High-Performance independent ECM fans for outside-air supply and room air exhaust
- Programmable amount of outside-air
- Recovery+ uses exhaust air to warm and cool the condenser, boosting performance
- Easy-access MERV 13 filters for outside-air
- AirSync for balanced airflow
- Connection for bathroom exhaust
- Twin-rotary BLDC inverter compressor
- R-32 low GWP refrigerant
- Cold-climate heat pump operational
  - Heat Pump Only - Down to -5°F
  - Heat Pump + Electric Heat - Down to -13°F
- High-Performance extra large V shaped heat exchangers
- Unique high-efficiency, high-performance backward-curved ECM centrifugal fan
- High-Performance ECM fans for room supply-air
- Sound and thermal barrier
- No drain required in heat mode
- Extraordinary flexible ducting options for both room air and condenser air
- Whisper quiet 27 dBA operation
- Sleek, compact design
- Wide range of capacity in a single unit
- Optional self-cleaning coils
- MERV 13 filters for cleaner room air
- Uniform, consistent temperatures
- Onboard touch controller for programming and diagnostics
- 10-year limited warranty

Nextac Combines a Stunning Aesthetic with Exceptional Performance

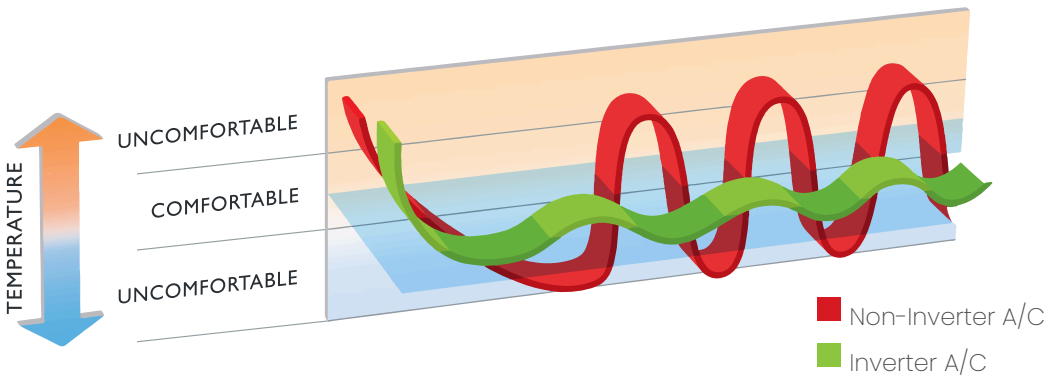


		PTAC/VTAC	Nextac	Difference
PTAC & VTAC Efficiency	Heating	Inefficient, expensive electric resistance heat, with most PTAC heat pumps switching to electric heat below 40°F (approximately)	High-efficiency twin-rotary BLDC inverter-driven heat pump	**73% less power used compared to electric resistance heat**
	Fresh air supply	Fresh air is supplied only when the PTAC/VTAC is cooling or heating on high fan speed and the bathroom fan is running	Total control of the fresh air CFM based on preset options including occupancy, level of CO_2 and time of day. Conditions are based on intended design instead of random events	**100% more efficient, reliable, and compliant**
	Fresh air treatment	Heated by expensive and inefficient electric heat	The advanced ERV core recovers up to 80% of the heat from the exhaust air to pre-heat the incoming outside-air, with the heat pump providing the remaining required heating	**95% less power used compared to electric resistance heating**
	Coil efficiency	Coils become dirty and clogged which is expensive to clean	Nextac automatically cleans dirty coils, with no outside intervention required	**25% better efficiency saves the cost of cleaning coils**
PTAC Efficiency	Thermal bridge	672 sq in. of uninsulated area of the PTAC sleeve	A patent-pending R-10 insulating barrier nearly nearly eliminates the thermal bridge	**90% less loss, saving approximately 42 watts of heating or cooling load**
	Infiltration	6 sq in. average infiltration from sleeve and unit	A patent-pending R-10 insulating barrier sleeve together with a surrounding 1" perimeter seal reduces infiltration to almost zero	**99% less leakage** **Saves 900 watts an hour!**
PTAC & VTAC Comfort	Temperature uniformity	Constantly fluctuates	The patent-pending inverter driver controller works with the ERV to match the required load, especially when the bathroom fan operates	**99% better comfort**
	Wi-Fi App	Usually unavailable	Android and iOS app available	**100% more connected**
	Sound	50 dBA	27 dBA	**46% quieter**
PTAC Aesthetic	In-room depth	8"+	Nextac reduces room protrusion to just 6.8"	**At least 15% thinner**
	Aesthetics	Bulky cheap plastic yellows with age	Sleek, clean, all-steel-cabinet with white finish	**100% sleeker**
	Paintable	Plastic - no	Metal - yes	**100% less noticeable**

Perfect Comfort

Nextac's state-of-the-art twin-rotary BLDC variable-speed inverter compressor modulates its output to match the room's actual demand, improving comfort, reducing noise, and lowering energy consumption.

The compressor can also ramp up capacity to assist the ERV recovery core in treating outdoor air in extreme temperatures, ensuring comfort and humidity regulation in all circumstances.





PTAC/VTACs' Inconsistent Temperatures

Outdated PTACs and VTACs exhibit inconsistent temperature control due to the conventional on/off compressor design. The room's temperature fluctuates between cold and warm as the compressor cycles on and off to maintain the setpoint. Consequently, achieving the ideal room temperature is challenging, and the continuous operation of the compressor introduces noise disturbances. Furthermore, this issue can be amplified when the system is tasked with conditioning fresh air, potentially exceeding its capacity.



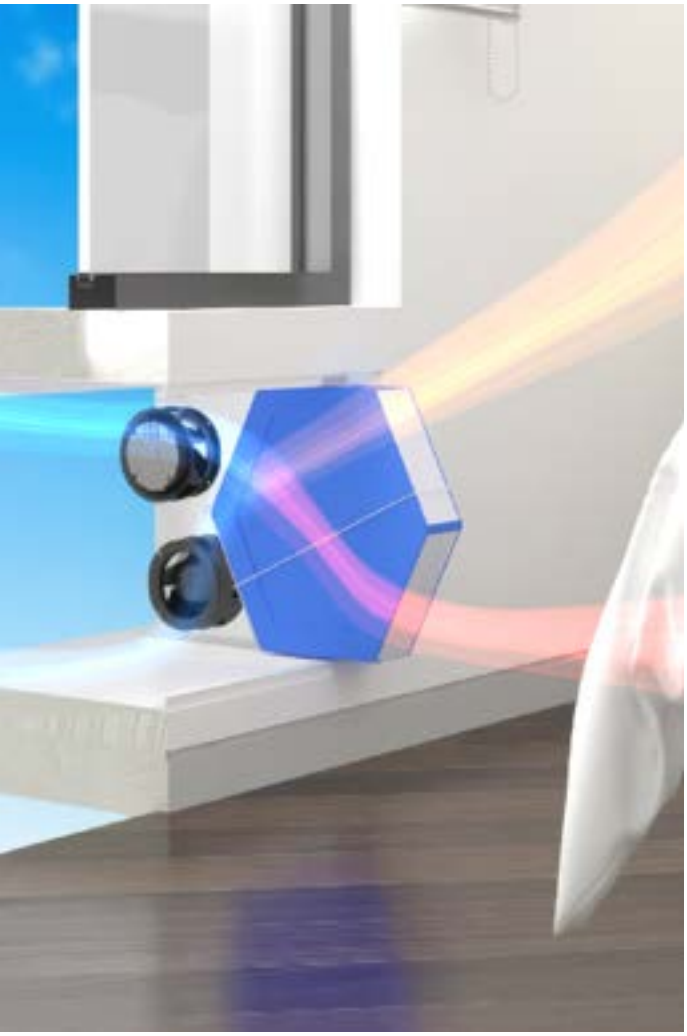
Whisper-Quiet

Nextac functions quietly, thanks to its low noise level attributed to the twin-rotary BLDC inverter compressor, ECM centrifugal and tangential fan, and an innovative barrier. This patented barrier serves a dual purpose of insulating against heat loss and effectively blocking sound, creating a comprehensive sound-insulated separation between the indoor and outdoor components. As a result, the barrier prevents exterior and condenser noise from entering indoor spaces, ensuring operational decibel levels as low as 27 dBA.



PTACs Are Extremely Loud

The poor design and insulation of most PTACs let outside noise and condenser noise into the room. It's not unusual for a PTAC to have an inside noise rating of 50-60 dBA.



Integrated ERV

Nextac's advanced fresh air system introduces up to 50 CFM (fully programmable) of outside-air while incorporating a sophisticated ERV that recuperates up to 80% of the heat from the exhaust air.

This reclaimed heat is then transferred to the incoming cold, fresh air with the remaining 20% efficiently heated by the heat pump. Compared to a PTAC/VTAC with electric heat, this advanced system boasts a remarkable 95% reduction in power consumption.

In addition, Nextac's Recovery+™ utilizes the residual heat or cold present in the air post-recovery to adjust the temperature of the condenser, boosting the performance and efficiency.

PTAC/VTACs' Inefficient Conditioning of Fresh Air

PTAC/VTAC systems rely on inefficient electric heat to condition outside-air. The use of electric heat or a heat pump for heating or cooling outside-air is wasteful and it significantly adds to operating costs. Even PTHP/VTHP systems equipped with a heat pump typically resort to electric heat when temperatures fall below 30°F or 40°F, increasing the expense of heating the outside-air.

Programmable and Reliable Fresh Air

ASHRAE 62.1-2013 & ASHRAE 62.2 -2013

Two independent, electronically controlled variable-speed, high-efficiency fans manage the supply of outside-air and exhaust of stale-air.

The advanced control system offers users comprehensive programmability to regulate the volume of outside-air in specific scenarios, even when the heat pump is inactive.

For example, users have the flexibility to configure settings such as 15 CFM when the room is unoccupied, 50 CFM when occupied with poor CO_2 levels, and 25 CFM when occupied with lower CO_2 levels. This ensures precise control and heightened efficiency.

Additionally, each ECM fan can be individually programmed with varying speeds, proving advantageous in situations where other fans are extracting air from the room. Adjusting the supply fan for increased airflow while dialing back the exhaust fan allows for balanced air circulation, while maintaining optimal make-up air flow.



PTAC/VTAC Fresh Air is Inconsistent and Unreliable

PTACs depend on the supply-air fan for introducing fresh air and the bathroom fan for expelling stale-air.

Without a PTAC fan, there is no influx of fresh air. When the fan operates on low, the introduction of fresh air is minimal. Only when the fan operates at high speed is there a supply of 50 CFM of fresh air.

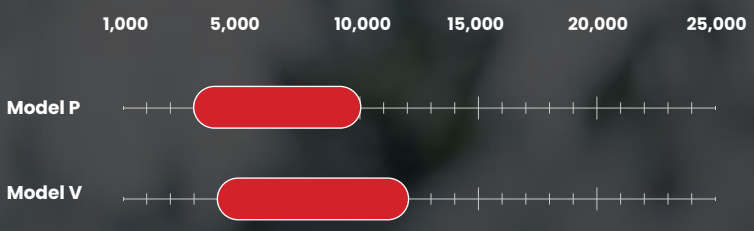
Furthermore, even when the PTAC fan operates at high speed, proper functioning of the fresh air is hindered if the bathroom fan is inactive.

While some "advanced" PTACs incorporate an independent fan to bring in 50 CFM of outside-air, even these advanced models lack an exhaust fan to eliminate stale-air. Instead, they rely on the bathroom fan to perform the exhaust function.

Extreme Performance

Nextac's robust heat pump is engineered to operate in the most frigid conditions, withstanding temperatures as low as -5°F Heat Pump only, and -13°F with electric heaters and effectively cooling in environments as hot as 122°F.

Heating Capacity 5°F

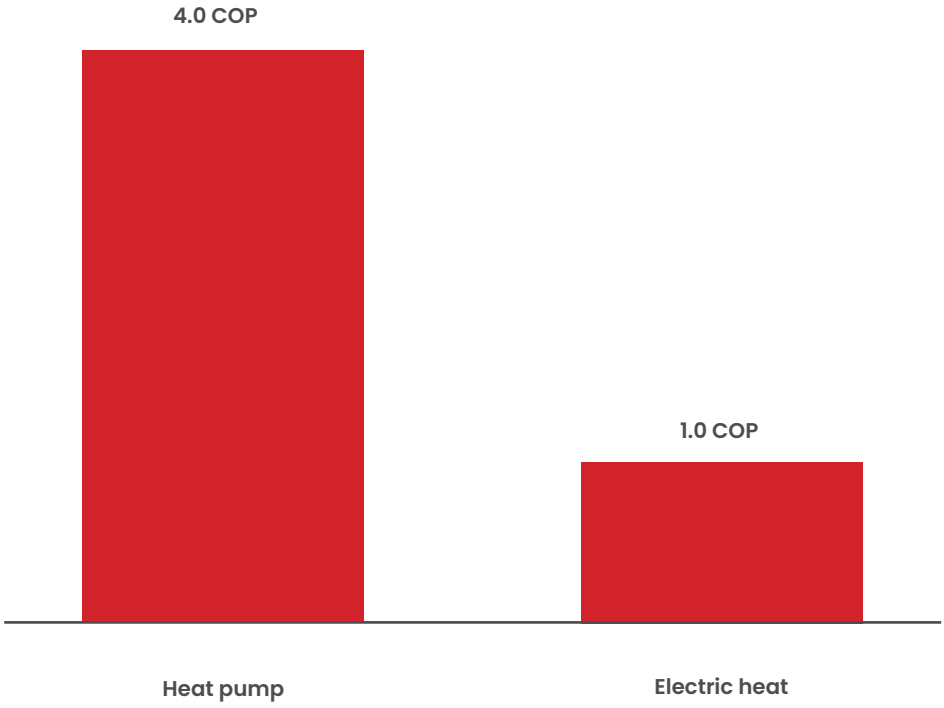


PTHPs' Inefficient Electric Heat

The majority of PTHPs rely on inefficient electric heat when temperatures drop between 30°F and 40°F.

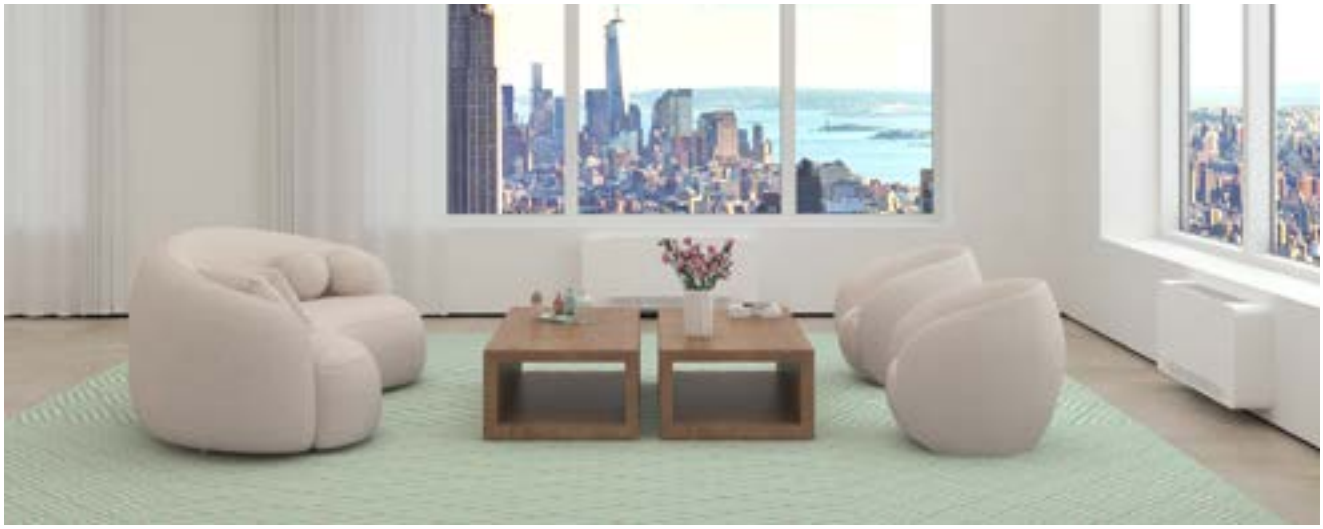
Efficient Heat Pump Heating

With Nextac's twin-rotary BLDC inverter compressor, the super efficient, cold-climate heat pump can heat down to -10°F without electric heat. With intelligent defrosting algorithms, the system spends more time heating and less on reverse-cycle defrost.



PTAC/VTACs' Inefficient Electric Heat

PTACs and VTACs utilize electric heating, which costs approximately 3–4× more than operating a heat pump. While PTHPs (PTACs with heat pumps) do provide heat pump heating, most systems transition to electric heat when temperatures fall within 30°F–40°F.



Peak Efficiency

Nextac is the top choice for PTAC/PTHP/VTAC systems, featuring a modern design with advanced technologies for better efficiency and performance.

It uses a twin-rotary BLDC inverter compressor with R-32 low GWP refrigerant, reducing power consumption by 40% compared to traditional compressors. ECM centrifugal fans allow precise power modulation, optimizing energy usage.

The optional ERV lowers the cost of cooling and heating make-up air, offering efficiency gains of up to 95%. The ERV's Recovery+ feature utilizes heat from stale-air to enhance year-round performance.

The condensate disbursement mechanism uses collected moisture to lower the condenser temperature, contributing to overall energy efficiency. Insulated barriers mitigate the thermal bridge effect, ensuring optimal temperature control. A designed frame blocks infiltration, reducing leakage, and a thermal sleeve protects against cold, heat, and condensate infiltration.

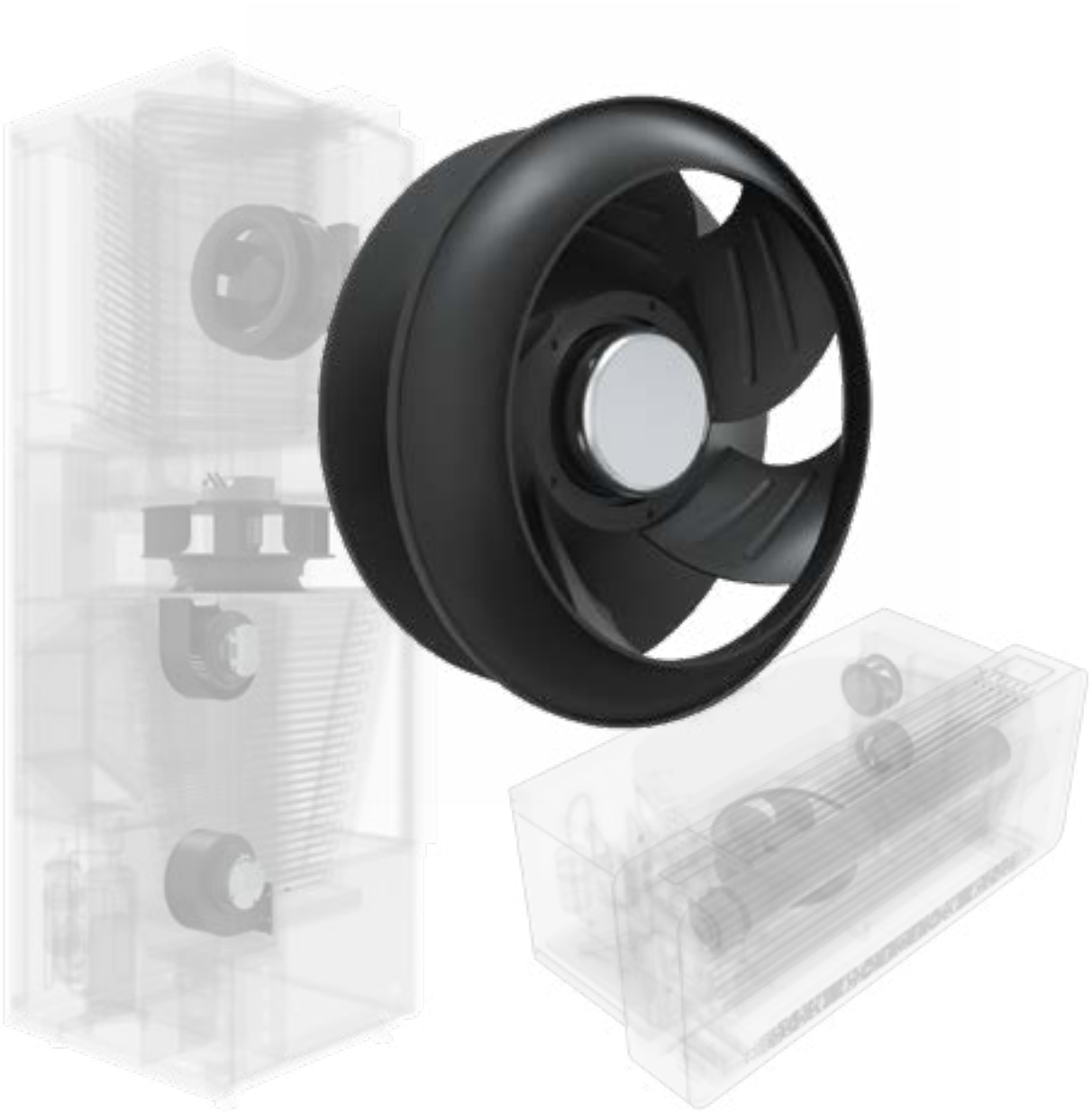
Nextac includes optional self-cleaning coils for longevity and peak efficiency, reducing strain on the system. Nextac is the future in cooling for PTAC/VTAC applications.

PTAC/VTACs are Inefficient

Standard PTACs are inefficient, due to their reliance on on/off compressors, the use of electric heat for heating both rooms and outside-air, and the common issues of leaking approximately 6 square inches of unconditioned outside-air, along with the presence of significant thermal bridges.

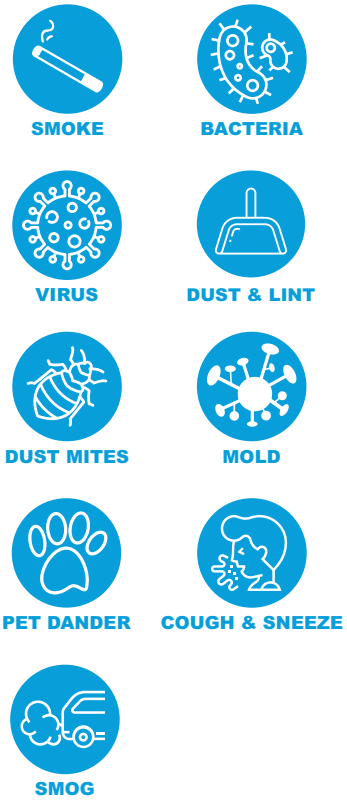
Super Powerful, Quiet Fans

Nextac incorporates a patent-pending centrifugal backward-curved fan blade design, engineered to move the maximum amount of air with minimal effort. This reduces power consumption, enhances capacity, and improves efficiency. Furthermore, the fan is powered by an electronically controlled motor, enabling precise fan speed modulation to align with the requirements of the heat pump's output.



Safe, Clean, Healthy Air

Nextac's high-performance ECM fans facilitate the use of MERV 3/MERV 13 filters in various airflows, including fresh air intake, stale-air exhaust, and recirculated air. This ensures the highest standard of clean air. The filters are easily accessible for both indoor and outdoor air, providing exceptional protection against pet dander, mold spores, car fumes, smoke, bacteria, and other micro-allergens.



PTAC/VTACs' Poor Air Quality

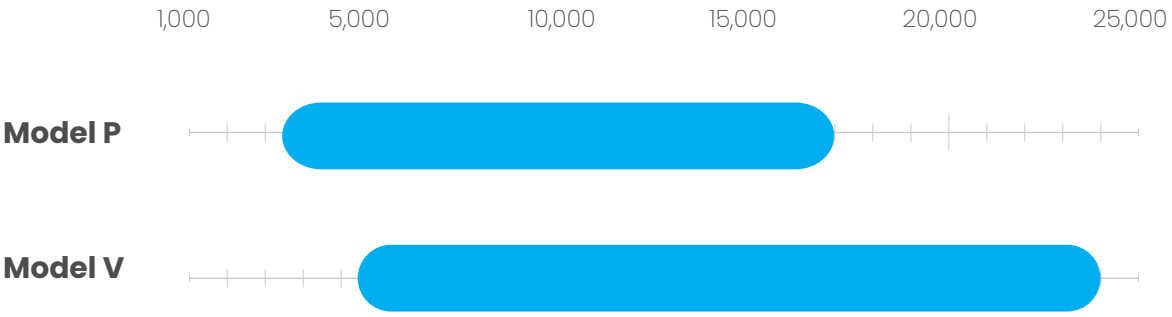
In PTAC/VTAC systems, indoor air is typically filtered using a MERV 2 or lower washable filter, enabling various contaminants, harmful mold, and dust to remain in the air. This minimal level of filtration permits dirt and dust to infiltrate, leading to clogged coils and inefficiency.

Fresh air is commonly filtered with a MERV 8 or lower, allowing indoor particles like mold spores, car fumes, smoke, bacteria, and other micro-allergens to enter the space.

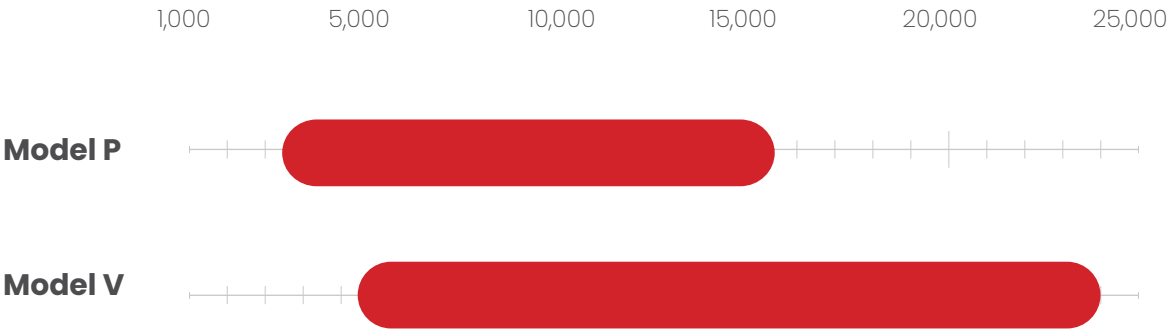
Two Models Cover All Sizes

With Nextac's advanced BLDC twin-rotary variable-speed inverter compressor, each unit can cater to a broad spectrum of room sizes by modulating its output according to demand. This simplifies planning and maintenance processes while ensuring precise heating and cooling tailored to each room's needs. Model P is designed for areas requiring between 3,500 BTU and 15,000 BTU, while Model V is suitable for spaces needing between 4,500 and 24,000 BTU.

Cooling Capacity



Heating Capacity



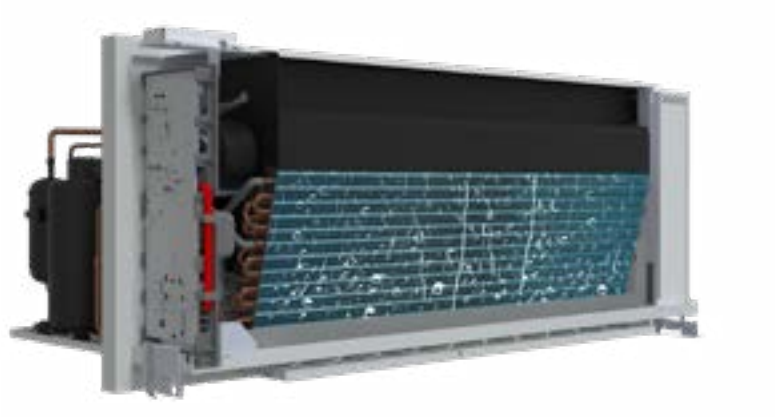
PTAC/VTAC Inefficiency and Short Cycling

The majority of PTACs and VTACs employ an on-off compressor, necessitating the use of a unit that precisely fits each room's requirements — which is often impractical. In practice, PTAC units are commonly oversized to counteract air leakage, resulting in short cycling, which leads to elevated energy costs and contributes to higher levels of indoor humidity in affected spaces.

Self-Cleaning Coils

Nextac's optional patent-pending self-cleaning coil system, has advanced coil sensors which trigger automatic cleaning. Self-cleaning is achieved by defrosting, frosting, and cold expansion of the coils, which strips off accumulated dirt. Cleaning can be set to only occur at certain times, and the cleaning process will not occur if the motion sensor detects occupancy. Please note that Nextac's self-cleaning coils are an optional paid feature, scheduled to be available starting in Q3 2026.



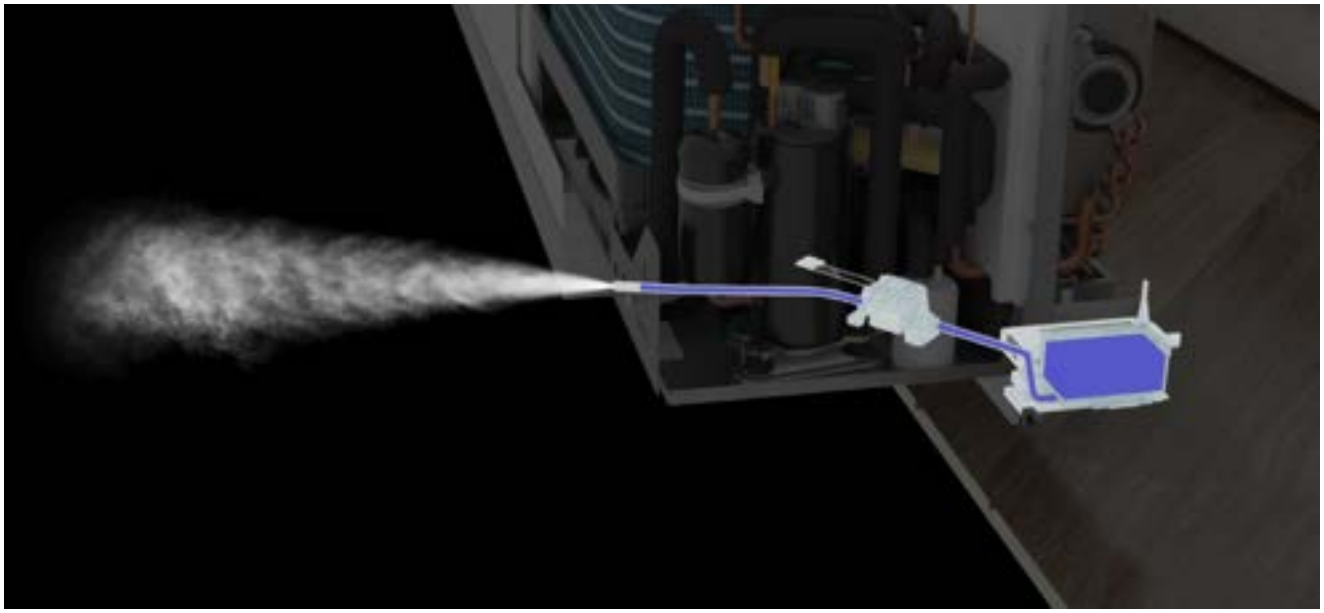


PTACs and Dirty Coils

When coils collect dust and debris, efficiency drops and operating costs can climb by 25% or more. Even standard, annual cleaning of coils will have coils return to an efficient state relatively quickly.

No Drain Required

Nextac's optional patent-pending condensate disbursement system efficiently manages condensate without a drain, making installation simpler and reducing maintenance needs. In cooling mode, Nextac quietly pumps condensate to the top of the outdoor coil, where it's drizzled over the condenser-coil surface, cooling them slightly as it evaporates. In heating mode, the system uses a vibratory pump to nebulize water into a fine-mist for outside dispersal. This method is energy-efficient, requiring only 30 W compared to the 1 kW that traditional systems use, saving power and operational costs. Please note that Nextac's condensate disbursement system is an optional paid feature.



PTACs' Noisy Sloshing Sounds

All air conditioners generate condensate in the summer and heat pumps generate condensate in the winter. For cooling, PTACs use a "slinger ring" to remove condensate - this fan-mounted ring picks up condensate from the bottom of the PTAC sleeve and tosses it against the condenser coil to evaporate it. This slinger ring produces sloshing and pinging sounds and leaves water sitting in the PTAC's pan. Another issue is that slinger rings can't always handle peak condensate levels. As a result, they need an external drain to prevent overflow. A drain is always required when using the heat pump in heating mode.

Easy-Access Outside-Air Filters

Unlike traditional PTACs, Nextac's easy-access filters are designed for convenience. They enable a single person to change them without removing the unit from the sleeve. This encourages more frequent filter changes, resulting in cleaner air and a more efficient system. For monthly maintenance, the MERV 13 fresh and stale-air filters can be cleaned without removing the cover. For annual cleaning, remove the cover to slide out the ERV core cartridge for easy cleaning or replacement, enhancing performance and air quality year-round.



Standard PTACs/VTACs Have Difficult-to-Access Outside-Air Filters

Filtering is essential to preventing the entry of dust, dirt, and contaminants into the room and coils. Whether the PTAC/VTAC employs a low-grade washable filter or a MERV 8 filter, the PTAC needs to be taken out of the sleeve every few months to clean or replace the filters.

This time-consuming process is often neglected, significantly compromising efficiency. This oversight allows dirt to accumulate on coils, reducing the intake of fresh air and further impacting the system's performance.



10-Year Limited Warranty

When investing in an HVAC system, the expectation is for it to endure for at least a decade without encountering major breakdowns. We construct our heat pumps with longevity in mind, and to underscore our commitment, we provide a 10-year limited warranty.

This warranty covers parts and labor for the initial 3 years, followed by 7 years of coverage for both parts and labor on the compressor, and 7 years on all other parts.

Additionally, each Nextac unit comes equipped with a connected interface that monitors the system's health for any abnormalities. This data can be transmitted to the service center, facilitating prompt and efficient resolution of potential issues.



Perfectly Balanced Airflow

Balanced airflow is essential for optimal functioning of any heating and cooling system. When a bathroom fan is operating, fresh air must be introduced to counteract the air being extracted. Negative air pressure can lead to mold, mildew, and increased pollutants. Nextac provides two innovative solutions to maintain balanced room air while using a bathroom fan.

Integrated Bathroom Exhaust

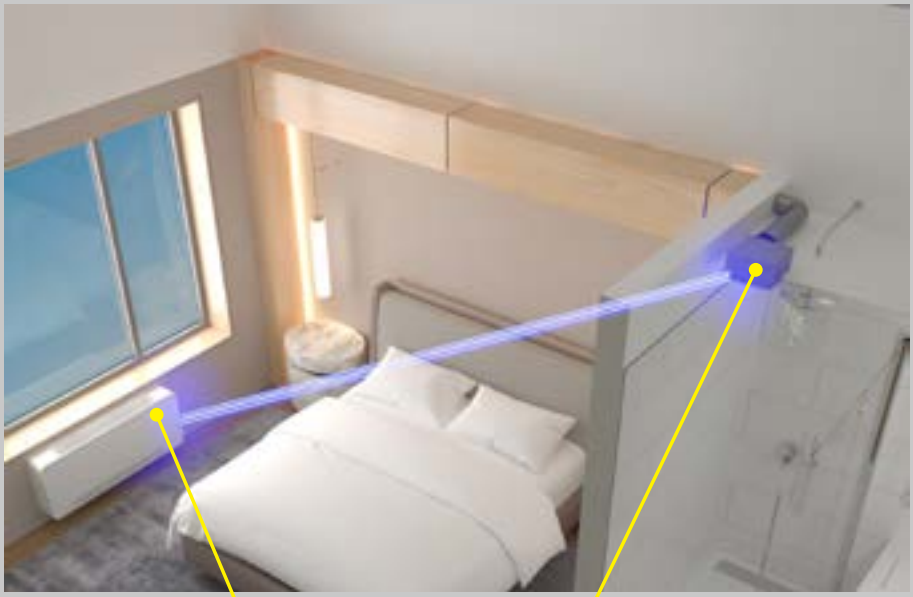
To achieve optimal efficiency, well-balanced air circulation, reduced construction costs, and a streamlined building facade, it is recommended to connect the bathroom exhaust fan to the stale-air exhaust of the ERV. This connection not only enables the total recovery of heat from the bathroom and maintains balanced airflow but also contributes to a reduction in the number of external vents on the building facade. Please note that connecting the bathroom exhaust to Nextac is an optional paid feature, scheduled to be available starting in Q3 2026.



AirSync™

AirSync™, a pioneering patent-pending solution, ensures optimal air balance by synchronizing the bathroom exhaust fan with the ERV fresh air supply fan and the stale-air exhaust fan.

Upon activation of the bathroom fan, a signal is transmitted to the ERV outside-air supply fan, to increase its speed to align with the bathroom fan. Simultaneously, the signal instructs the stale-air exhaust fan to reduce its speed, ensuring that the total air intake matches the total air outflow, including from the bathroom fan. When the bathroom fan is deactivated—either by the occupant, motion sensor, or humidity sensor—the signal prompts the ERV outside-air supply fan and the stale-air exhaust fan to return to their normal speeds. This coordination enhances overall air circulation and efficiency within the system.



The ERV intake fan speeds up to match active bathroom fan

The bathroom fan sends a signal to Nextac when activated

PTACs Create Negative Air Pressure

Even "advanced" PTACs with independent fresh air fans do not have an exhaust fan to remove stale-air. All PTACs rely on bathroom fans to exhaust stale-air.

This creates negative pressure as the bathroom fan pulls 80 CFM, and the PTAC only brings in 50 CFM, forcing another 30 CFM through the PTAC sleeve's leakage and other openings. This also assumes that the PTAC is actually bringing in 50 CFM of outside-air - which only occurs in most models when the PTAC is set to high fan and the filters are clean.

Additionally, removing 50 CFM of conditioned air without recovering the heating or cooling-energy wastes energy and money.

Sleek Intuitive Controllers

Nextac ensures convenient control through its versatile and user-friendly interfaces. Users can easily select their desired temperature, fan speed, and operating mode (cool, heat, dehumidification, ventilation, or automatic) with comprehensive and intuitive controllers. For added flexibility, advanced features, including comprehensive scheduling and a range of wall-mounted controllers, are available.

Nextac easily integrates with popular smart thermostats such as Nest, Ecobee, and Honeywell, as well as standard thermostats. Additionally, it supports Modbus and BACnet connections for larger applications.









Wi-Fi App

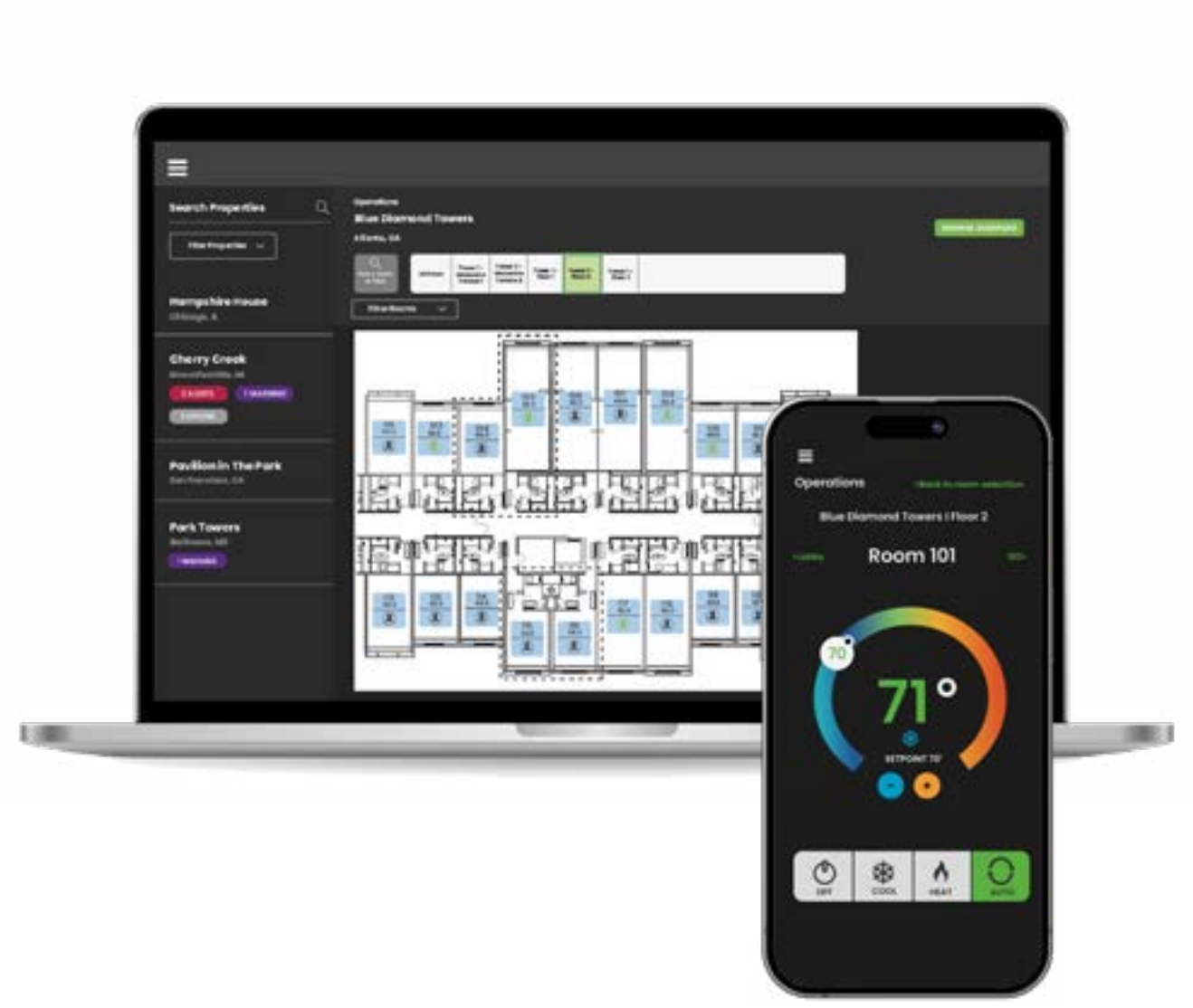
The Nextac app for Android, iOS, and PC devices enables full functionality of all modes, fan speed, temperature setting, and a comprehensive 7-day programmable timer when connected to the Internet. The app also allows groups to control multiple Nextac units as a single unit, simplifying operations. Multiple users can be connected to each Nextac unit.

Monitor, Optimize, and Control from Anywhere

Nextac Energy Optimization Service (EOS) is a cloud-based dashboard and smartphone app to monitor properties in real-time and change unoccupied settings on the fly.

Nextac EOS's proprietary communication protocol leverages low frequency radio waves that easily penetrate thick walls and cover long distances. This eliminates the need for additional networking equipment and keeps your Wi-Fi network free of interference.

For pricing, please request a quote.



Reduce HVAC Runtime By Up To 40%

Nextac EOS Plus, is a subscription-based service, dedicated to optimizing energy savings through ongoing monitoring of your energy management. It equips building owners and property staff with the tools to stay informed and satisfied with their property's performance.

Frequent turnover in the commercial property industry poses an ongoing challenge of training new staff on existing systems. Nextac EOS Plus addresses this by offering remote management, enabling property owners to sustain consistent savings and return on investment.

Nextac EOS Plus goes beyond mere energy management; it enables you to master it.



Savings Dashboard

Login to your portal and monitor your real-time or historical savings data. If you manage various properties, segment your savings by property, brand, size, etc.

Room Occupancy

Enables your maintenance staff to identify any room requiring attention. It also gives your housekeeping staff real-time occupancy status eliminating guest disruptions while cleaning rooms.



Temperature

See each thermostat laid out on your floor plan and check current room temperatures. Instantaneously adjust each room's setpoint when rooms are unoccupied and monitor humidity to prevent guest complaints.

User Management

Easily add & remove staff access and adjust user permissions for each of your properties.

nextac

Model P





Model P

Nextac Model P is a sleek unit featuring a twin-rotary BLDC inverter compressor and optional ERV for fresh air circulation. Recovery+ technology transfers energy from exhaust air to improve condenser efficiency and reduce load.

Built with thermal and acoustic barriers, it maintains comfort while operating quietly to 27 dBA, and uses high-efficiency ECM fans, large C- and V-shaped coils, and R-32 refrigerant for strong heating and cooling up to 15,000 BTU/h.

With cooling, heating, dehumidification, auto, and night modes, it delivers up to 50 CFM of filtered fresh air, selectable fan speeds, and programmable outside-air intake. Multi-stage filtration includes a washable return-air filter (optional higher-efficiency upgrade) plus ERV filters for incoming and exhaust air, that are easy to remove.

The unit fits any standard PTAC sleeve and features a compact, paintable all-metal case, efficient condensate management, touch or wall controllers with thermostat/BACnet options, auto-restart after power loss, and a 10-year limited warranty.



	Nextac	PTAC	PTHP
Comfort	★★★★★	★★★☆☆	★★★☆☆
Cooling Efficiency	★★★★★	★★★☆☆	★★★☆☆
Heating Efficiency	★★★★★	★☆☆☆☆	★★★☆☆
Infiltration	★★★★★	★☆☆☆☆	★☆☆☆☆
Quiet	★★★★★	★☆☆☆☆	★☆☆☆☆
Aesthetics	★★★★★	★☆☆☆☆	★☆☆☆☆
Fresh Air	★★★★★	★☆☆☆☆	★☆☆☆☆

Key Features

User Experience

- Silent operation at 27 dBA
- Compact, sleek, and slim design
- Durable all-metal paintable case
- Option for washable filters or MERV 13 rated filters for room air
- Accessible MERV 13 filters for outside-air
- Auto-restart feature
- Maintains uniform and consistent temperatures
- Backed by a 10-year limited warranty

Operations

- Offers cooling, heating, dehumidification, and auto modes
- Provides up to 50 CFM of fresh air
- **Selectable fan speeds**: low, medium, high, and auto
- Programmable outside-air intake
- Includes a connection for bathroom exhaust
- Efficient condensate disbursement system for cooling
- Features sound and thermal barriers
- Easy installation—compatible with any standard PTAC sleeve
- Wide range of capacity in a single unit

Options

- 1,800W electric heating capability staged as 900W + 900W
- Features an optional condensate disbursement system for heating
- Optional sleeve includes a ThermaSleeve insulator for enhanced insulation
- AirSync technology for balanced airflow
- Compatible with both 115V and 230V power sources
- Offers hardwire or LCDI cord options
- **Choice of refrigerants**: R-32

Efficiency

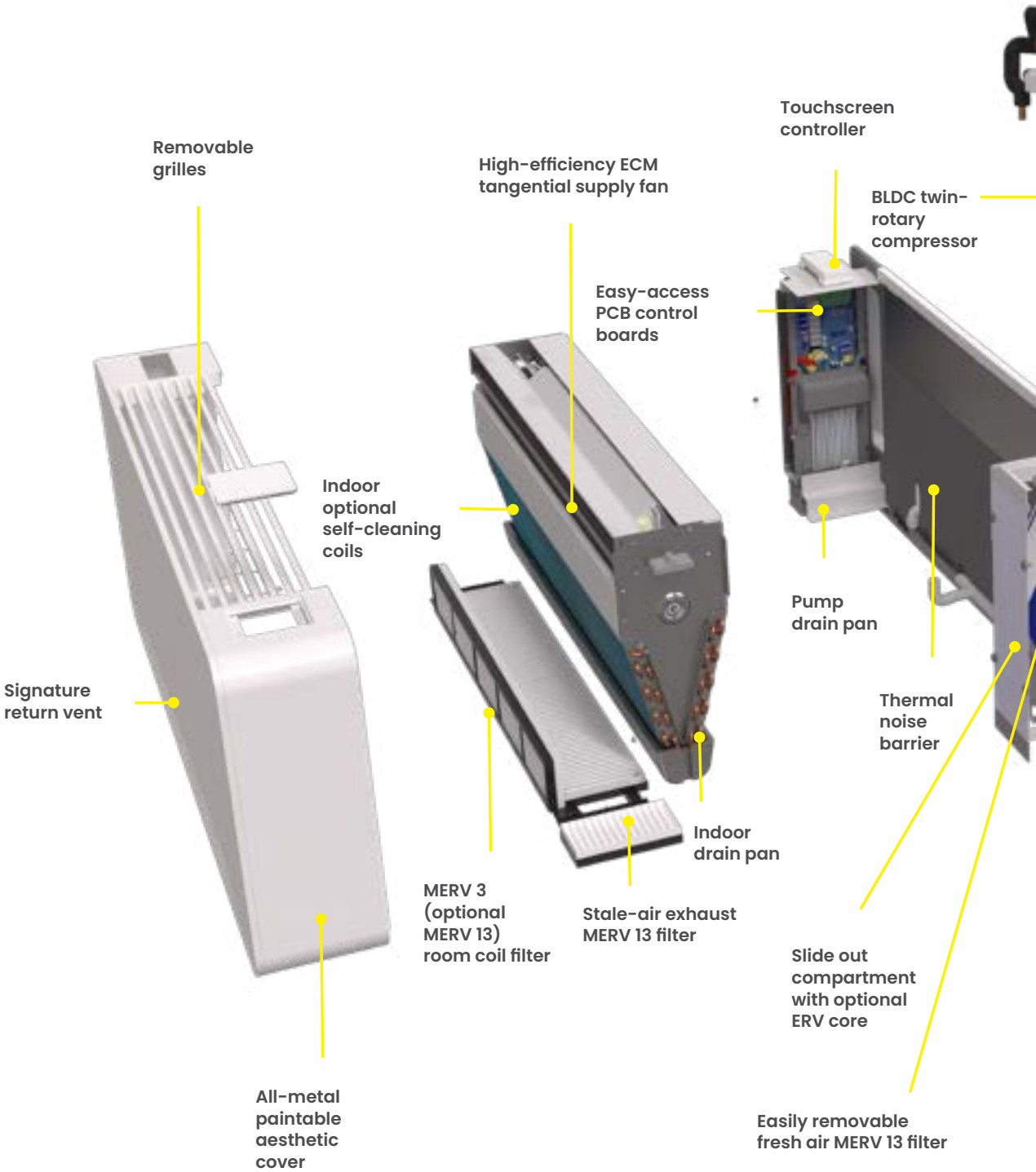
- Features a twin-rotary BLDC inverter compressor
- Integrated ERV for fresh air circulation
- Utilizes Recovery+ technology, leveraging exhaust air to enhance condenser performance for heating and cooling
- Equipped with high-performance independent ECM fans for outside-air supply and room air exhaust
- Utilizes high-performance, extra-large C and V shaped heat exchangers
- Incorporates a unique high-efficiency, high-performance backward ECM centrifugal condenser fan
- Includes a high-performance ECM tangential fan for room supply-air
- Designed with a sound and thermal barrier for enhanced comfort
- Optional self-cleaning coils for minimal maintenance.

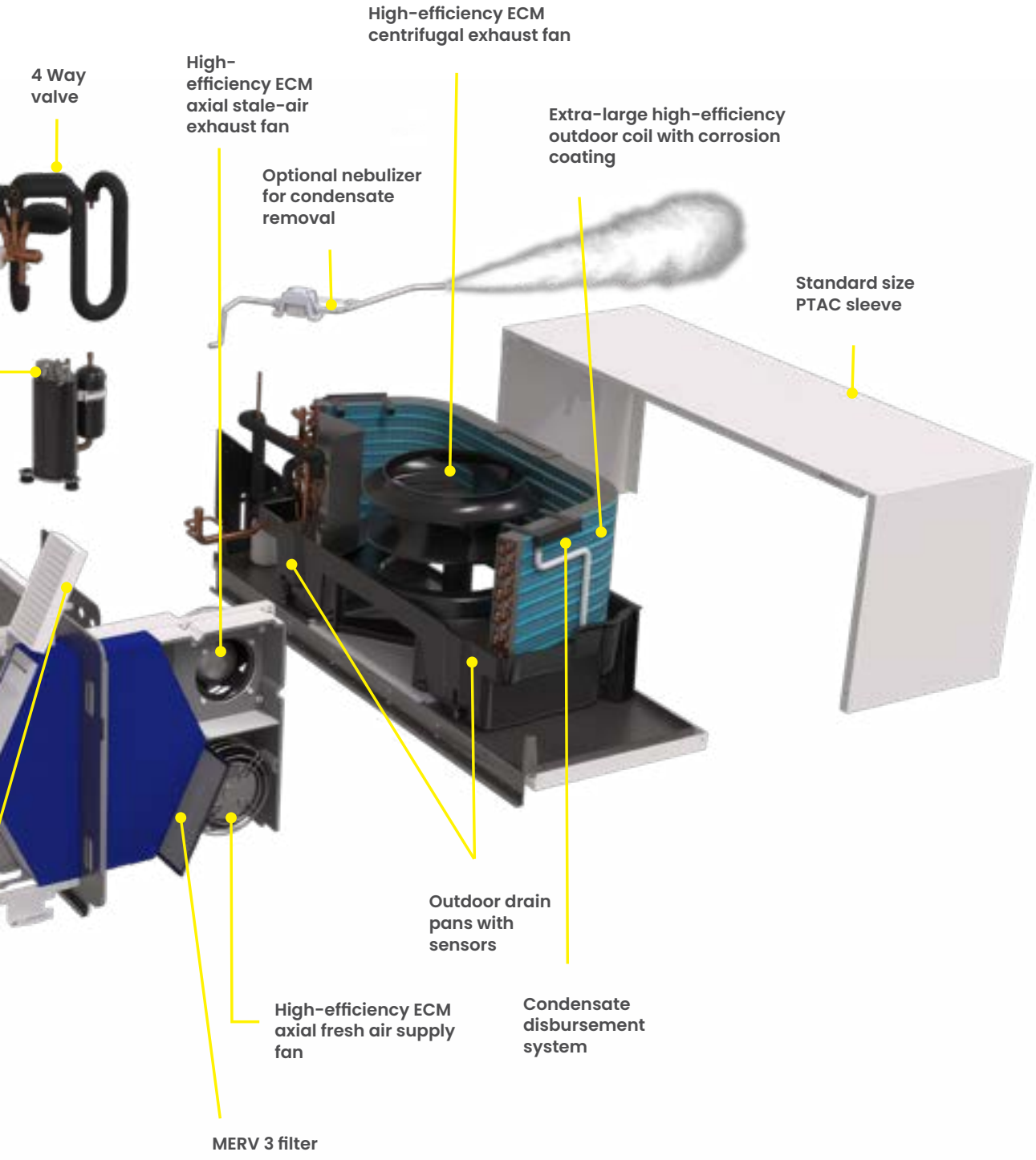
Controllers

- Onboard touch controller dims after 15 seconds of inactivity

Optional Controllers:

- Wall Mounted Advanced touchscreen with a 7-day program
- Wall Mounted Basic touch controller
- Third-Party thermostat interface
- BACnet/Modbus interface
- Wi-Fi App
- Central control system


Removable grilles
High-efficiency ECM tangential supply fan
Touchscreen controller
BLDC twin-rotary compressor
Easy-access PCB control boards
Indoor optional self-cleaning coils
Signature return vent
Pump drain pan
Thermal noise barrier
Indoor drain pan
MERV 3 (optional MERV 13) room coil filter
Stale-air exhaust MERV 13 filter
Slide out compartment with optional ERV core
All-metal paintable aesthetic cover
Easily removable fresh air MERV 13 filter


4 Way valve
High-efficiency ECM axial stale-air exhaust fan
High-efficiency ECM centrifugal exhaust fan
Optional nebulizer for condensate removal
Extra-large high-efficiency outdoor coil with corrosion coating
Standard size PTAC sleeve
Outdoor drain pans with sensors
Condensate disbursement system
High-efficiency ECM axial fresh air supply fan
MERV 3 filter

Sleek, Clean Italian Design

Nextac's sleek, Italian-designed, white, all-metal, paintable cabinet only protrudes approximately 6.8 inches into the room.

Additionally, the cover extends an inch beyond the PTAC sleeve and around the perimeter, hiding imperfections and removing the need for molding.





PTACs Are Ugly and Take-Up Space

Standard PTACs have clunky, plastic beige colored cases that turn yellow with age. In addition, they usually protrude 12 inches or more into the room, taking up space.

Often, molding is added around the PTAC frame to hide caulking and other imperfections, which furthers the eyesore.

Works with Any Decor

Nextac's all-metal case can be painted any color, finish, or texture to match the decor, without affecting performance.





PTACs Are an Eyesore

PTACs typically have clunky, plastic cases, which yellow over time — making them more unsightly.



No Thermal Bridge

Nextac's patent-pending thermal barrier seals the PTAC sleeve opening from the indoors using advanced insulation and an insulated perimeter flange. This creates an airtight, insulated interface with the wall, eliminating the need for molding by covering one inch of the surrounding surface.



PTACs Create a Large Thermal Bridge

The 42 inch by 16 inch dimensions of standard PTAC sleeves create a large thermal bridge. Effectively, this 672 square inch area is uninsulated, which leads to the loss of heat in winter and cool air in summer.

Tightly Insulated

Nextac's specially designed, patent-pending insulation panel extends beyond the PTAC sleeve and wraps to the wall with a rubber gasket, creating a tight, continuous seal.
With Nextac's insulation, infiltration is eliminated.



A 1 inch insulated flange seals the room to the outdoors.

PTACs Leak Air

PTACs leak air from the sleeve, around the sleeve, and inside the unit. A study by Steven Winter Associates: *There Are Holes in Our Walls,* revealed that the average PTAC used in the sample exhibited 6 square inches of leakage. This infiltration adds substantial operating costs - to heat and cool the infiltrated outdoor air and increased humidity. These openings pull in wind-driven rain, putting rooms and building materials at risk.

https://www.urbangreencouncil.org/wp-content/uploads/2022/11/2011.04.14-Holes-in-Our-Walls.pdf

Fully Insulated Sleeve

For applications where the sleeve protrudes into the room, Nextac offers ThermaSleeve™, an insulated 1 inch thick sleeve cover that provides thermal and acoustic insulation.

ThermaSleeve fits snugly over the sleeve and seals to the wall and the Nextac model, providing an aesthetically pleasing solution that removes the need for molding.







PTAC - Uninsulated Sleeve

Standard PTAC sleeves are often deeper than the wall assembly. In such instances, the sleeve protrudes into the room. It looks unsightly and is poorly insulated for thermal and acoustics.

Furthermore, the area where the sleeve meets the wall is often a mess of caulk, mold, and chipped paint or covered with molding.

Key Specifications

High Performance & High Efficiency

			High-Performance			Energy Star Compliant		
			95°F (35°C)[1]	105°F (41°C)[2]	115°F (46°C)[3]	95°F (35°C)[1]	105°F (41°C)[2]	115°F (46°C)[3]
Cooling - Heat Pump Only								
Capacity	Maximum	kBtu/h (kW)	17.0 (5.0)	15.5 (4.5)	14.0 (4.1)	15.0 (4.4)	13.0 (3.8)	11.5 (3.4)
	Recommended*		12.5 (3.7)	10.4 (3.1)	10.0 (2.9)	11.5 (3.4)	9.5 (2.8)	8.5 (2.5)
	Rated		11.5 (3.4)	11.5 (3.4)	11.5 (3.4)	8.5 (2.5)	8.5 (2.5)	8.5 (2.5)
	Minimum		4.5 (1.3)	4.0 (1.2)	4.0 (1.2)	4.5 (1.3)	4.0 (1.2)	4.0 (1.2)
Power input	Maximum	kW	2.00	1.9	2.0	1.72	1.57	1.35
	Recommended*		1.06	1.06	1.16	0.96	0.94	0.97
	Rated		0.96	1.21	1.35	0.64	0.81	0.97
	Minimum		0.33	0.41	0.48	0.33	0.41	0.48
Efficiency	Maximum		8.5	8.1	6.6	8.8	8.2	7.7
	Recommended		11.5	9.8	8.2	12	10.1	8.4
	AHRI Rated EER2		12	9.5	7.7	-	-	-
	AHRI (310/380) EER2		12	-	-	-	-	-
	Energy Star EER2		-	-	-	13	10.5	8.4
	SEER2†		16	-	-	-	-	-
Moisture removal		Pts/h (L/h)	2.4 (1.1)	2.9 (1.4)	3.4 (1.6)	1.9 (0.9)	2.4 (1.4)	2.9 (1.4)

			High-Performance					Energy Star Compliant				
			47°F (8°C)[4]	17°F (-8°C)[5]	5°F (-15°C)[6]	0°F (-17°C)[7]	-5°F (-20°C)[8]	47°F (8°C)[4]	17°F (-8°C)[5]	5°F (-15°C)[6]	0°F (-17°C)[7]	-5°F (-20°C)[8]
Heating - Heat Pump Only**												
Capacity	Maximum	kBtu/h (kW)	15.5 (4.5)	13.0 (3.8)	10.0 (2.9)	9.0 (2.6)	8.5 (2.5)	12.5 (3.7)	11.0 (3.2)	9.0 (2.64)	9.0 (2.6)	8.5 (2.5)
	Recommended*		12.5 (3.7)	11.5 (3.4)	9.0 (2.6)	8.5 (2.5)	8.5 (2.5)	10.0 (2.9)	8.5 (2.5)	8.0 (2.34)	7.5 (2.2)	8.5 (2.5)
	Rated		11.5 (3.4)	11.5 (3.4)	6.5 (1.9)	6.5 (1.9)	6.5 (1.91)	8.5 (2.5)	8.5 (2.5)	6.5 (1.91)	6.5 (1.9)	6.5 (1.9)
	Minimum		4.0 (1.2)	3.0 (0.9)	2.7 (0.8)	2.4 (0.7)	2.0 (0.6)	4.0 (1.2)	3.0 (0.9)	2.7 (0.79)	2.4 (0.7)	2.0 (0.6)
Power input	Maximum	kW	1.42	1.65	1.32	1.29	1.31	1.04	1.21	1.24	1.29	1.31
	Recommended*		1.04	1.28	1.24	1.23	1.31	0.7	0.87	1.19	1.12	1.31
	Rated		0.9	1.28	1.0	1.04	1.03	0.61	0.87	1.0	1.04	1.03
	Minimum		0.3	0.38	0.37	0.35	0.35	0.3	0.38	0.37	0.35	0.35
Efficiency	Maximum		3.2	2.3	2.1	2	1.9	3.6	2.6	2.12	2	1.9
	Recommended		3.6	2.5	2.12	2	1.9	3.9	2.7	2.15	2.04	1.9
	Rated		3.8	2.5	2.2	2.06	1.95	-	-	-	-	-
	AHRI (310/380) COP2		3.8	-	-	-	-	-	-	-	-	-
	Energy Star		-	-	-	-	-	4	2.7	2.2	2.06	1.95
	Minimum		4.14	2.3	2.3	2	1.8	4.14	2.3	2.3	2	1.8
	HSPF2†		8	-	-	-	-	9.2	-	-	-	-

1 **95°F (35°C)** ID: 80°F(26.7°C), W.B. 67°F(19.4°C); OD: 95°F(35°C), W.B. 75°F(23.9°C)
2 **105°F (41°C)** ID: 80°F(26.7°C), W.B. 67°F(19.4°C); OD: 105°F(40.6°C), W.B. 75°F(23.9°C)
3 **115°F (46°C)** ID: 80°F(26.7°C), W.B. 67°F(19.4°C); OD: 115°F(46.1°C), W.B. 75°F(23.9°C)
4 **47°F (8°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: 47°F(8.3°C), W.B. 43°F(6.1°C)
5 **17°F (-8°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: 17°F(-8.3°C), W.B. 13°F(-10.6°C)
6 **5°F (-15°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: 5°F(-15°C), W.B. 3°F(-16.1°C)
7 **0°F (-17°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: 0°F(-17.8°C)
8 **-5°F (-20°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: -5°F (-20.6°C)

* This is the recommended capacity for sizing the unit to the space.

** The tables show Heat Pump performance only. An electric heating element can be added to provide an additional output of 6.1 kBtu/h (1.8 kW).

† SEER2 does not apply to PTHP-type units and is shown solely to enable comparison with similar heat pump systems. Values are for reference and comparison purposes only.

Technical Specifications

Airflow		
Indoor	Type	ECM Centrifugal
	CFM (m³/h)	160 - 400 (272 - 680)
	Fan Modes:	Low, med, high, boost, auto
	Level 1 - Low	160 (272)
	Level 2 - Medium	310 (527)
	Level 3 - High	400 (680)
	Boost (Temporary)	630
	Available ESP	N/A
	Supply connection	Integrated
	Return connection	Integrated
	Filter	MERV 3
Outdoor	Type	ECM Centrifugal
	CFM Range (m³/h)	210 - 850 (357 - 1,444)
General		
Indoor	Type	BLDC twin rotary inverter
	Oil Type	Fv50s
Controls	Basic Functionality	Dependent on the controller
	WiFi	Optional module available
	Dry Contact	Yes
Modes	Operation	Cool, heat, dehumidify, auto, ERV
	Restricted Modes	Heat only, cool only, temperature limiting
	Timers	Dependent on the controller
Condensate	Pipe size	3/4" (19 mm) outside diameter
	Pipe Material	Rubber
Sound		
Indoor	DB range: dB(A)	29-49
	STC	40
	OITC	35
Outdoor	dB(A)	28-55

ERV				
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		**20 CFM (34 m³/h)**	**30 CFM (51 m³/h)**	**50 CFM (85 m³/h)**
Sensible	%	81.7	78.3	72.8
Latent	%	58.1	55.5	48.5
Efficiency of Core in Summer				
Sensible	%	68.1	64.3	59.1
Latent	%	57.5	53.4	47.3
Filter				
Indoor-air	MERV	MERV 3 / optional MERV 13		
Outside-air	MERV	MERV 13		
Leakage				
Internal	in. WC (Pa)	2.6% at 0.40" (100)	2.4% at 0.40" (100)	2.2% at 0.40" (100)
External	in. WC (Pa)	2.8% at 1.0" (249)	2.7% at 1.0" (249)	2.5% at 1.0" (249)

Unit Dimensions and Mechanical Details		
Dimensions (visible part)		45.1" W x 5.7" D x 17.5" H
		1,145.5 mm W x 144.78 mm D x 444.5 mm H
Dimensions (in-sleeve)		42.0" W x 14.6" D x 16.0" H
		1066.8 mm W x 370.84 mm D x 406.4 mm H
Net weight	lb (kg)	145 (65.8)
Weight with wall sleeve	lb (kg)	155 (70.3)
Cabinet finish		RAL 9003 signal white
Cabinet material		Steel

		High-Performance			Energy Star Compliant		
Electrical Data: Heat Pump Only*		**208V**	**230V**	**265V**	**208V**	**230V**	**265V**
Power Supply	Ph/Hz	1/60			1/60		
Power Factor		0.96			0.96		
Input Power - standby	W	10.8			10.8		
Input Power - off mode	W	1.5			1.5		
Running Amps Cooling	A	4.6	4.2	3.6	3.1	2.8	2.4
Max. Amps Cooling	A	9.6	8.7	7.5	8.3	7.5	6.5
Running Amps Heating	A	4.3	3.9	3.4	2.9	2.7	2.3
Max. Amps Heating	A	6.8	6.2	5.4	5.0	4.5	3.9
MCA	A	12	11	9	10	9	8
MOCP	A	20	20	15	15	15	15
Rec. Breaker Size		15	15	15	15	15	15

Post Heater Output and Current

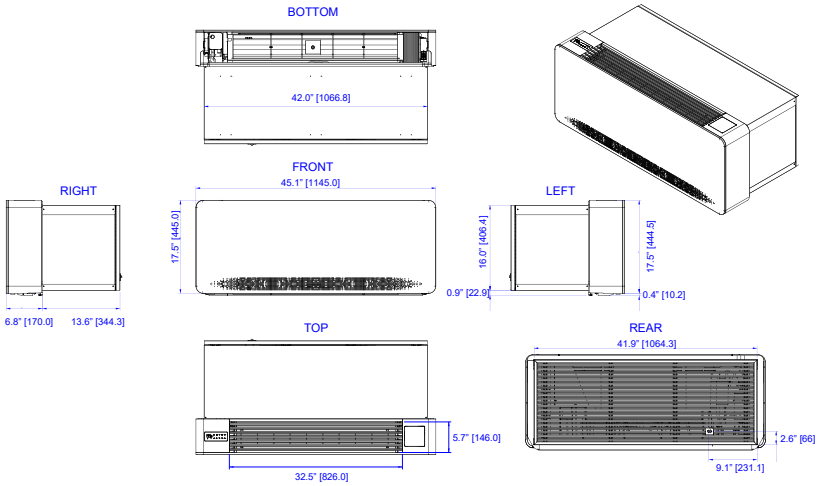
	1,800 W
208 V	1,472 W / 7.1 A
230 V	1,800 W / 7.8 A
265 V	2,390 W / 9 A

Electrical Connection			
LCDI cord*	Standard length	in (mm)	89 (2,261)
		SKU	-
	Extra short	in (mm)	12 (305)
	Amps	A	15
	Plug	NEMA	6-15
Standard power cord*	Length	in (mm)	60 (1,524)
	Amps	A	15
	Plug	NEMA	7-15
Quick-connect whip	Length	in (mm)	40 (1,016)

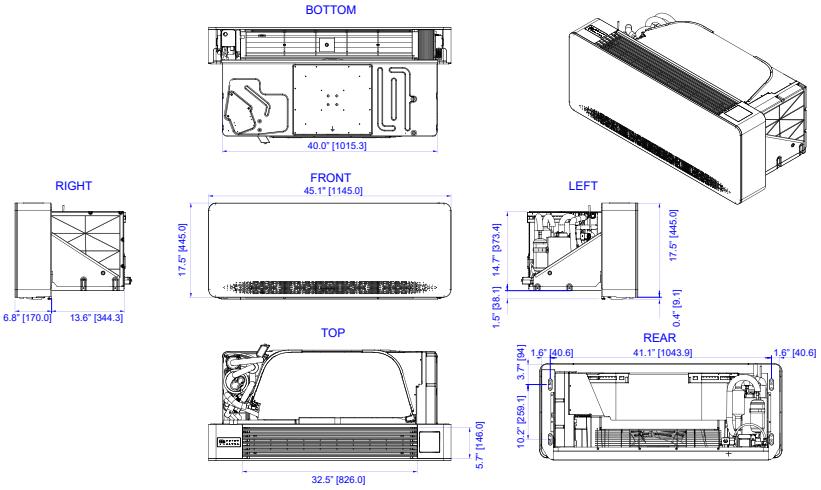
Electrical (General) - Motors			
Indoor ECM fan motor	Max Watts	W	65
	FLA	A	0.4
	Power	HP	0.07
Outdoor ECM fan motor	Max Watts	W	150
	FLA	A	1.3
	Power	HP	0.2
Fresh Air ERV fan motor	Max Watts	W	150
	FLA	A	0.8
	Power	HP	0.20
Stale Air ERV fan motor	Max Watts	W	190
	FLA	A	0.8
	Power	HP	0.26

Dimensions

With Sleeve



Without Sleeve



* for 208/230V units

** for 265/277V units



nextac

Model V





Nextac Model V

Nextac Model V is designed to fit standard VTAC closets and louvers, serving as an ideal replacement for existing VTAC units and a premier choice for new construction projects. While it maintains a similar structure to traditional VTAC units, Model V distinguishes itself through its unique design and technological advancements.

Featuring exceptionally flexible ducting, Model V allows for room supply from the top or sides, room return-air from the sides or front, and condenser intake/exhaust from the rear, left, and right sides. In contrast to noisy VTAC operation, Model V operates with whisper-quiet efficiency. Its efficiency is powered by a twin-rotary BLDC inverter compressor and integrated ERV, surpassing traditional VTACs, especially during electric heating and outdoor air utilization.

Unlike traditional VTACs that require placement on an external wall, Model V can be installed anywhere in the room and ducted to the outside. Moreover, it provides the capability to duct into two rooms, each with its own supply and return.



	Nextac V	VTAC	VTHP
Comfort	★★★★★	★★★☆☆	★★★☆☆
Cooling Efficiency	★★★★★	★★★☆☆	★★★☆☆
Heating Efficiency	★★★★★	★☆☆☆☆	★★★☆☆
Infiltration	★★★★★	★★★☆☆	★★★☆☆
Quiet	★★★★★	★☆☆☆☆	★☆☆☆☆
Venting Flexibility	★★★★★	★★☆☆☆	★★☆☆☆
Fresh Air	★★★★★	★☆☆☆☆	★☆☆☆☆

Key Features

User Experience

- Silent operation at 27 dBA
- Compact format and flexible ducting save space
- Option for washable filters or MERV 8 to MERV 13 rated filters for room air
- Convenient access to MERV 13 filters for outside-air
- Auto-restart feature
- Maintains uniform and consistent temperatures
- Backed by a 10-year limited warranty

Operations

- Offers cooling, heating, dehumidification, and auto modes
- Provides up to 80 CFM of fresh air
- **Selectable fan speeds**: low, medium, high, and auto
- Programmable outside-air intake
- Includes a connection for bathroom exhaust
- Efficient condensate disbursement system for cooling
- Features sound and thermal barriers
- Easy installation—compatible with any standard VTAC closet and louver
- Extraordinarily flexible venting options allow for multiple room air and condenser air configurations
- Wide range of capacity in a single unit

Options

- 3,600W electric heating capability staged as 1,800W + 1,800W
- Features a condensate disbursement system for heating
- AirSync technology for balanced airflow
- Compatible with both 115V and 230V power sources
- Offers hardwire or LCDI cord options
- **Choice of refrigerants**: R-32

Efficiency

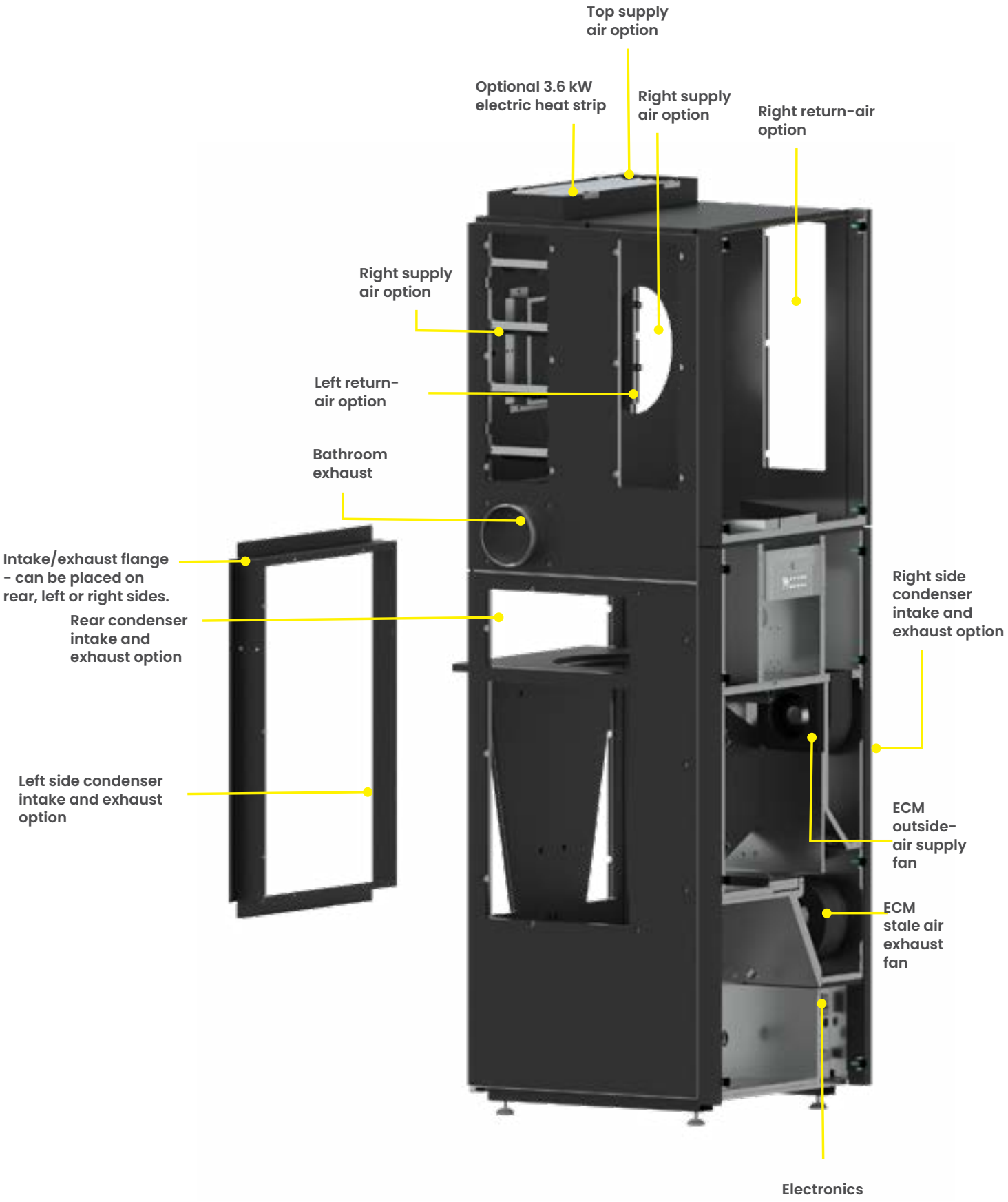
- Features a twin-rotary BLDC inverter compressor
- Integrated ERV for fresh air circulation
- Utilizes Recovery+ technology, leveraging exhaust air to enhance condenser performance for both heating and cooling
- Equipped with high-performance independent ECM fans for outside-air supply and room air exhaust
- Utilizes high-performance, extra-large V shaped heat exchangers
- Incorporates a unique high-efficiency, high-performance backward ECM centrifugal condenser fan
- Includes a high-performance ECM centrifugal fan for room supply air
- Designed with a sound and thermal barrier for enhanced comfort
- Coils are self-cleaning for minimal maintenance requirements

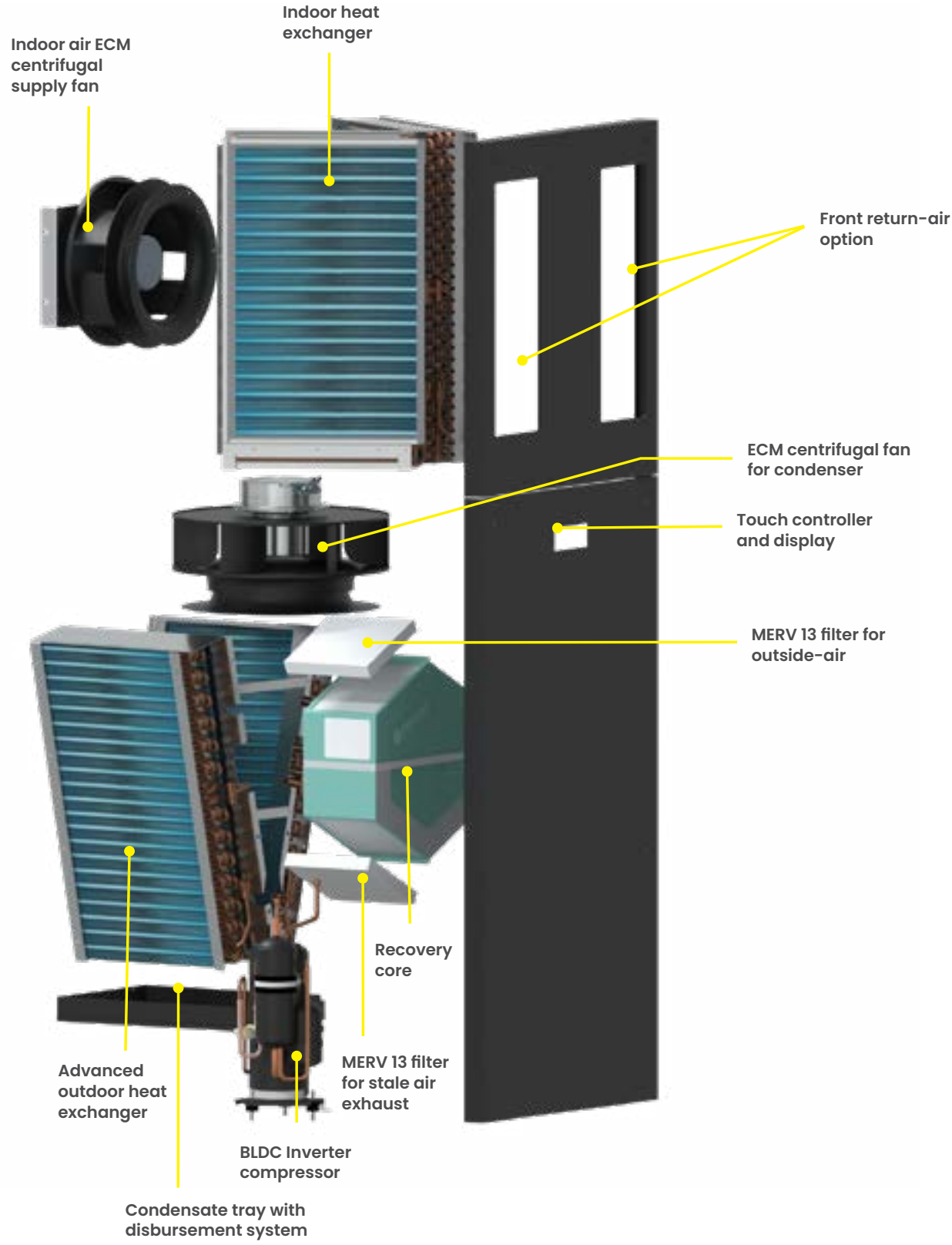
Controls

- Onboard touch controller for programming and diagnostics

Optional Controllers:

- Wall Mounted Advanced touchscreen with a 7-day program
- Wall Mounted Basic touch controller
- Third-party thermostat interface
- BACnet/Modbus interface
- Wi-Fi App
- Central control system


Top supply air option
Optional 3.6 kW electric heat strip
Right supply air option
Right return-air option
Right supply air option
Left return-air option
Bathroom exhaust
Intake/exhaust flange - can be placed on rear, left or right sides.
Rear condenser intake and exhaust option
Left side condenser intake and exhaust option
Right side condenser intake and exhaust option
ECM outside-air supply fan
ECM stale air exhaust fan
Electronics

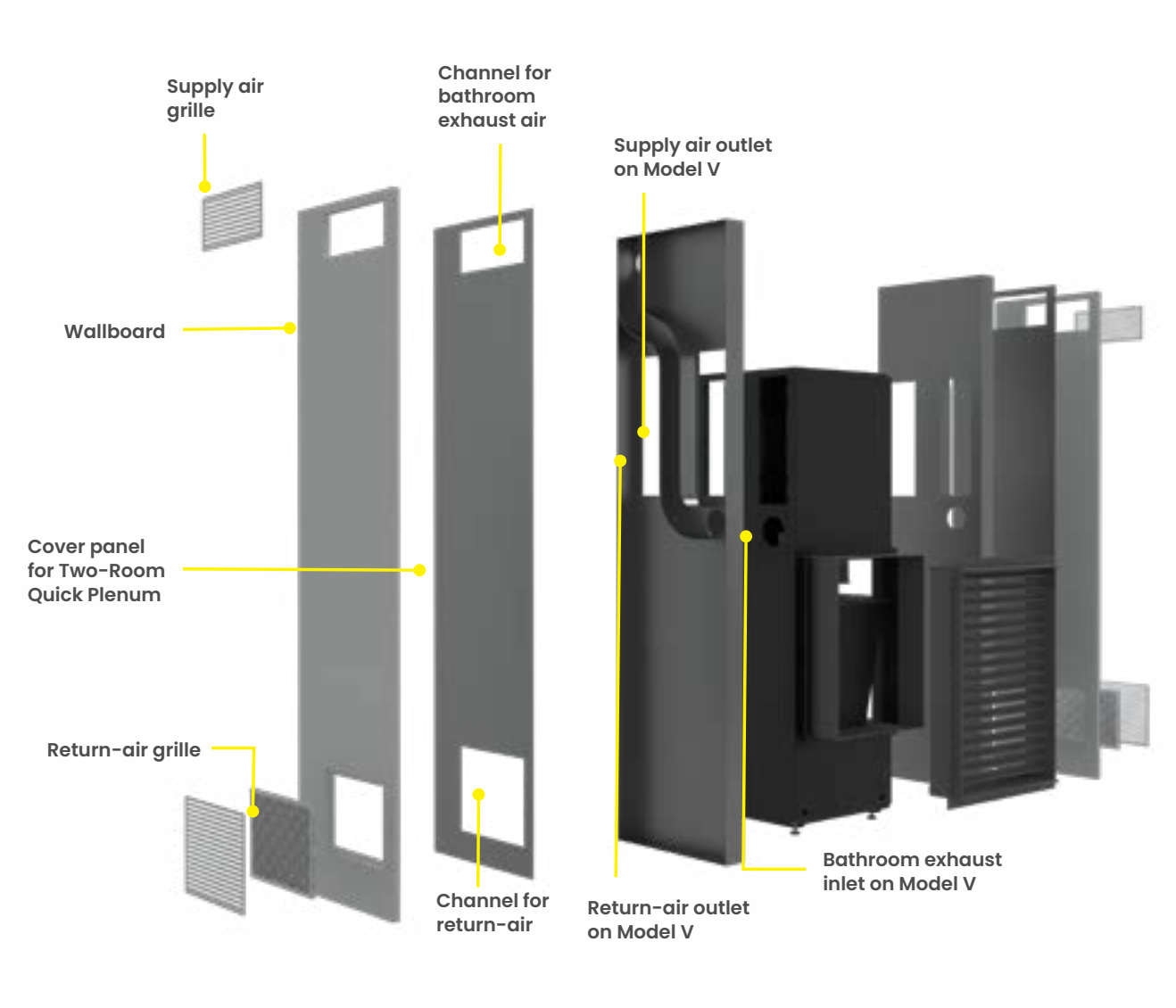

Indoor heat exchanger
Indoor air ECM centrifugal supply fan
Front return-air option
ECM centrifugal fan for condenser
Touch controller and display
MERV 13 filter for outside-air
Recovery core
Advanced outdoor heat exchanger
MERV 13 filter for stale air exhaust
BLDC Inverter compressor
Condensate tray with disbursement system

Two-Room Quick Plenum

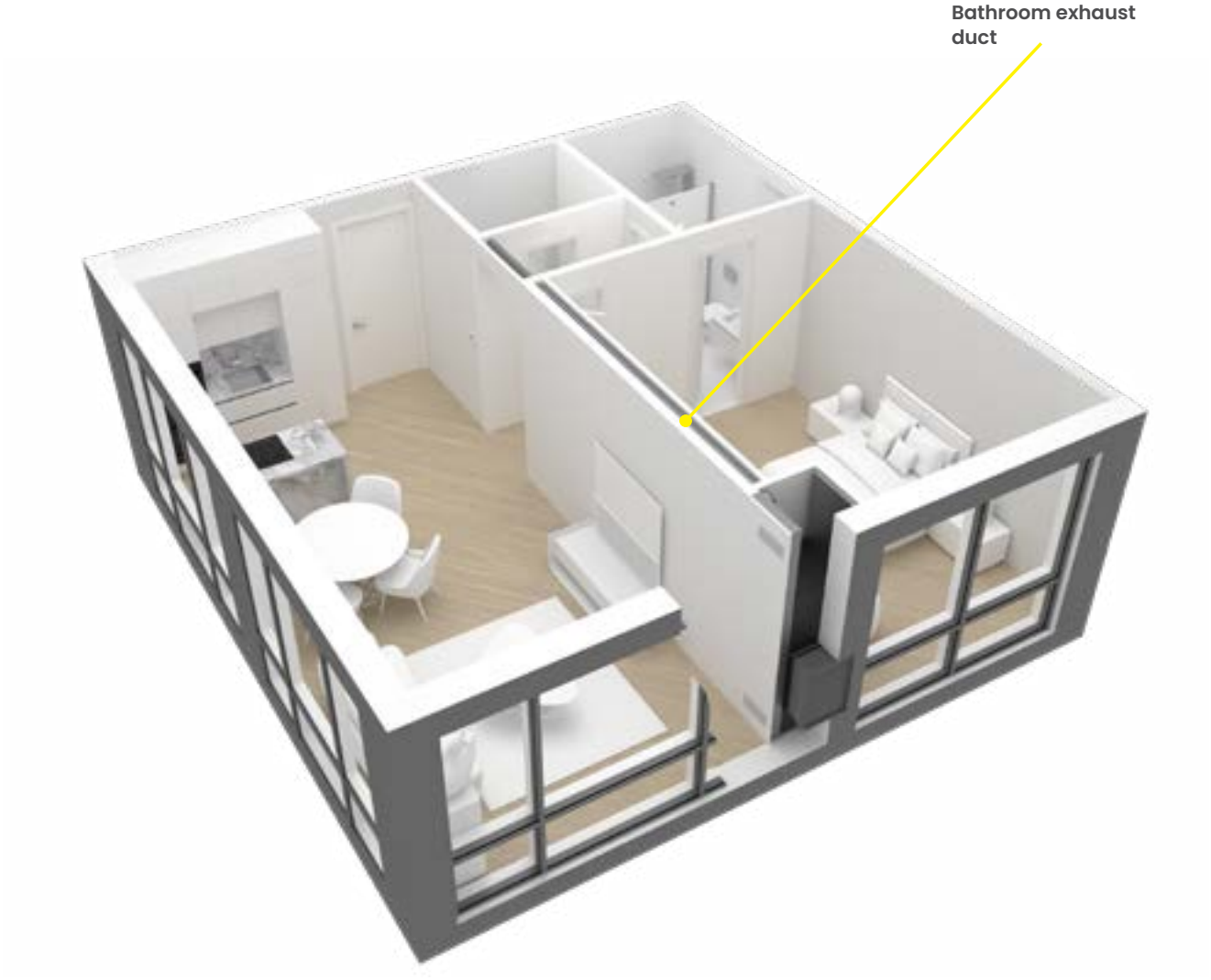
Introducing the Two-Room Quick Plenum - a unique 3.5 inches deep plenum designed to fit inside a standard depth wall. It offers swift, uncomplicated ducting for individual rooms flanking the Nextac Model V.

With supply vents located at the top, and return vents at the bottom of each room, this innovative design ensures optimal room configuration.





Installation

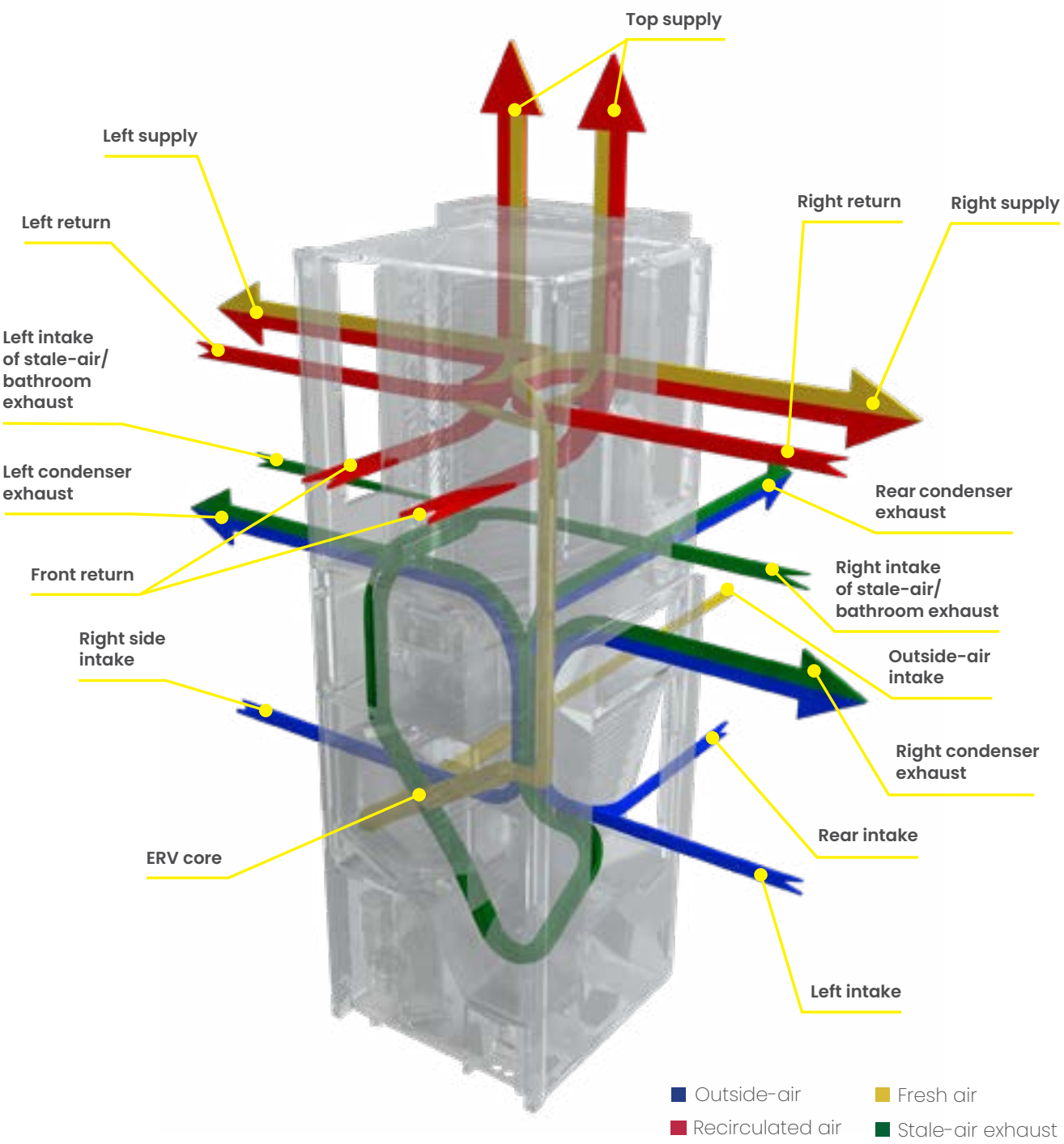






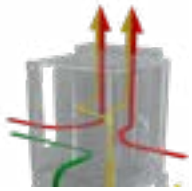
Extraordinarily Flexible Ducting

Model V's powerful 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. in available ESP make Model V versatile for installation without restrictions in any dwelling area.

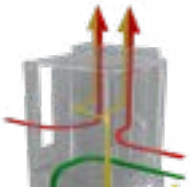


Fan Coil Part

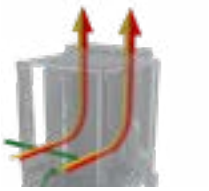
Supply: **Top**
Return: **Left & Right**
Stale-air **Left**



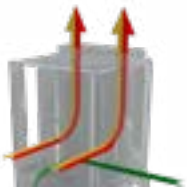
Supply: **Top**
Return: **Left & Right**
Stale-air: **Right**



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**



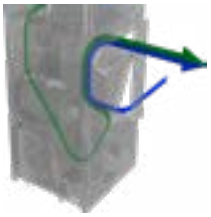
Supply: **Left & Right**
Return: **Left & Right**
Stale-air: **Left**



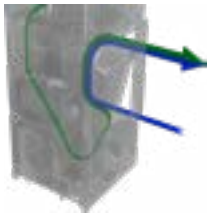
Recirculate air Stale-air exhaust Fresh air supply

Condenser Part

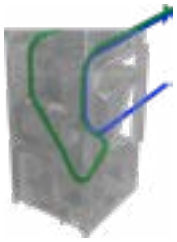
Intake: **Rear**
Exhaust: **Right**



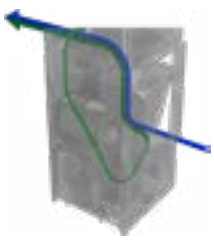
Intake: **Right**
Exhaust: **Right**



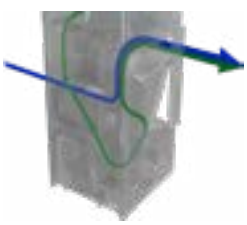
Intake: **Rear**
Exhaust: **Rear**



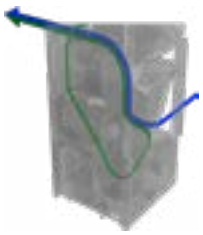
Intake: **Right**
Exhaust: **Left**



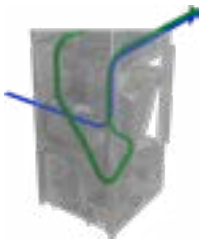
Intake: **Right**
Exhaust: **Left**



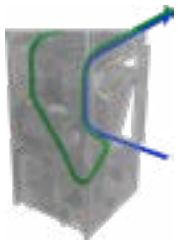
Intake: **Rear**
Exhaust: **Left**



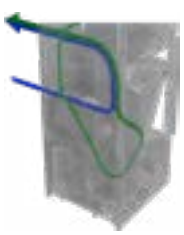
Intake: **Left**
Exhaust: **Rear**



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



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



Outside-air Stale-air exhaust

Key Specifications

High Performance & High Efficiency

			AHRI			Energy Star Certified		
			95°F (35°C)[1]	105°F (41°C)[2]	115°F (46°C)[3]	95°F (35°C)[1]	105°F (41°C)[2]	115°F (46°C)[3]
Cooling - Heat Pump Only								
Capacity	Maximum	kBtu/h (kW)	14.4 (4.2)	13.1 (3.8)	11.8 (3.5)	14.4 (4.2)	13.1 (3.8)	11.8 (3.5)
	Recommended*		9.8 (2.9)	8.5 (2.5)	7.8 (2.3)	9.8 (2.9)	8.5 (2.5)	7.8 (2.3)
	Nominal		8.9 (2.6)	7.6 (2.2)	6.9 (2.0)	7.5 (2.2)	7.6 (2.2)	6.9 (2.0)
	Minimum		3.6 (1.1)	3.6 (1.1)	3.4 (1.0)	3.6 (1.1)	3.6 (1.1)	3.4 (1.0)
Power input	Maximum	kW	1.75	1.68	1.75	1.75	1.68	1.75
	Recommended*		0.96	0.97	1.06	0.96	0.97	1.06
	Nominal		0.81	0.85	0.93	0.65	0.85	0.93
	Minimum		0.25	0.28	0.30	0.25	0.28	0.30
Efficiency	Maximum		8.23	7.8	6.74	8.23	7.8	6.74
	Recommended		10.27	8.8	7.4	10.27	8.8	7.4
	Nominal		10.95	9.0	7.47	11.6	9.0	7.47
	SEER2		14.35	-	-	15.35	-	-
Moisture removal		Pts/h (L/h)	1.8 (0.9)	2 (1.0)	2.2 (1.0)	1.8 (0.9)	2 (1.0)	2.2 (1.0)

			AHRI					Energy Star Certified				
			47°F (8°C)[4]	17°F (-8°C)[5]	5°F (-15°C)[6]	0°F (-17°C)[7]	-5°F (-20°C)[8]	47°F (8°C)[4]	17°F (-8°C)[5]	5°F (-15°C)[6]	0°F (-17°C)[7]	-5°F (-20°C)[8]
Heating - Heat Pump Only**												
Capacity	Maximum	kBtu/h (kW)	13.8 (4.0)	9.4 (2.8)	6.7 (2.0)	6.4 (1.9)	6.0 (1.8)	13.8 (4.0)	9.4 (2.8)	6.7 (2.0)	6.4 (1.9)	6.0 (1.8)
	Recommended*		10.0 (2.9)	9.0 (2.6)	6.5 (1.9)	6.1 (1.8)	5.8 (1.7)	10.0 (2.9)	9.0 (2.6)	6.5 (1.9)	6.1 (1.8)	5.8 (1.7)
	Nominal		8.9 (2.6)	9.0 (2.6)	6.5 (1.9)	6.1 (1.8)	5.8 (1.7)	8.2 (2.4)	8.9 (2.6)	6.4 (1.9)	6.1 (1.8)	5.8 (1.7)
	Minimum		3.9 (1.1)	3.3 (1.0)	2.8 (0.8)	2.7 (0.8)	2.7 (0.8)	3.9 (1.1)	3.3 (1.0)	2.8 (0.8)	2.7 (0.8)	2.7 (0.8)
Power input	Maximum	kW	1.75	1.75	1.75	1.65	1.45	1.75	1.75	1.75	1.65	1.45
	Recommended*		0.82	1.15	1.11	1.08	1.04	0.82	1.15	1.11	1.08	1.04
	Nominal		0.71	1.15	1.11	1.08	1.04	0.66	1.13	1.07	1.08	1.04
	Minimum		0.42	0.44	0.46	0.48	0.50	0.42	0.44	0.46	0.48	0.50
Efficiency	Maximum		2.31	1.57	1.12	1.14	1.21	2.31	1.57	1.12	1.14	1.21
	Recommended		3.6	2.3	1.72	1.67	1.64	3.6	2.3	1.72	1.67	1.64
	Nominal		3.7	2.30	1.72	1.67	1.64	3.7	2.30	1.75	1.67	1.64
	Minimum		2.72	2.2	1.78	1.65	1.58	2.72	2.2	1.78	1.65	1.58
	HSPF2		9.8	-	-	-	-	9.8	-	-	-	-

1 **95°F (35°C)** ID: 80°F(26.7°C), W.B. 67°F(19.4°C); OD: 95°F(35°C), W.B. 75°F(23.9°C)
2 **105°F (41°C)** ID: 80°F(26.7°C), W.B. 67°F(19.4°C); OD: 105°F(40.6°C), W.B. 75°F(23.9°C)
3 **115°F (46°C)** ID: 80°F(26.7°C), W.B. 67°F(19.4°C); OD: 115°F(46.1°C), W.B. 75°F(23.9°C)
4 **47°F (8°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: 47°F(8.3°C), W.B. 43°F(6.1°C)
5 **17°F (-8°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: 17°F(-8.3°C), W.B. 13°F(-10.6°C)
6 **5°F (-15°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: 5°F(-15°C), W.B. 3°F(-16.1°C)
7 **0°F (-17°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: 0°F(-17.8°C)
8 **-5°F (-20°C)** ID: 70°F(21.1°C), W.B. 60°F(15.6°C); OD: -5°F (-20.6°C)

* This is the recommended capacity for sizing the unit to the space.

** The tables show Heat Pump performance only. An electric heating element can be added to provide an additional output of 3.1 or 6.1 kBtu/h (0.9 or 1.8 kW).

Technical Specifications

Airflow		
Indoor	Type	ECM centrifugal
	CFM (m³/h)	226 - 400 (384 - 680)
	Fan Modes	Low, med, high, boost, auto
	Available ESP	N/A
	Supply connection	Integrated front
	Return connection	Integrated bottom
	Filter	MERV 3, Optional MERV 13
Outdoor	Type	ECM centrifugal
	CFM (m³/h)	385 - 638 (654 - 1,084)
	Available ESP	0.45" WC (112 Pa)
	Available External Static Pressure	0.7" WC (174 Pa)
	Intake connection	8" (203 mm) round
	Exhaust connection	8" (203 mm) round
	Speeds	Low, med, high, auto
General		
Indoor	Type	BLDC twin rotary inverter
	Oil Type	Fv50s
Controls	Basic Functionality	Dependent on controller
	WiFi	Optional module available
	Power Outage Restart	Auto-on based on last setting
	Dry Contact	Yes
Modes	Operation	Cool+ fresh air, cool only, heat+ fresh air, heat only, auto
	Restricted Modes	Heat only, cool only, temperature limiting
	Timers	Dependent on the controller
Condensate	Pipe size	3/4" (19 mm) outside diameter
	Pipe Material	Rubber

ERV				
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 (68 m³/h)**	**60 CFM (102 m³/h)**	**80 CFM (140 m³/h)**
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	in. WC (Pa)	2.6% at 0.40" (100)	2.4% at 0.40" (100)	2.2% at 0.40" (100)
External		2.8% at 1.0" (249)	2.7% at 1.0" (249)	2.5% at 1.0" (249)

			AHRI		Energy Star Certified	
Electrical Data: Heat Pump Only*			**115V**	**230V**	**115V**	**230V**
Power Supply	Ph/Hz		1/60		1/60	
Power Factor			0.96		0.96	
Input Power - standby	W		10.8		10.8	
Input Power - off mode			1.5		1.5	
Running Amps Cooling	A		15.9	7.9	15.9	7.9
Max. Amps Cooling			22.0	10.5	22.0	10.5
Running Amps Heating			15.9	7.9	15.9	7.9
Max. Amps Heating			22.0	10.5	22.0	10.5
MCA			26	12	26	12
MOCP			35	15	35	15
Rec. Breaker Size			30	15	30	15

* See the Post and Pre Heater table.

Electrical Connection			115V	230V
LCDI Power Cord	Amps	A	N/A	15
	Plug	NEMA	N/A	6-15P
Quick-connect whip	Length	in (mm)	40 (1,016)	40 (1,016)

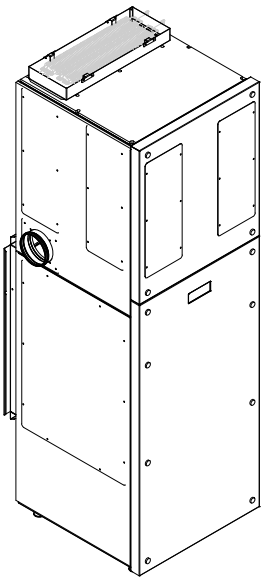
Electrical (General) - Motors				
Compressor	RLA	A	13	6
	LRA		13	6
Indoor ECM fan motor	Max Watts	W	200	200
	F.L.A.	A	2.4	1.2
	Power	HP	1/10	1/10
Outdoor ECM fan motor	Max Watts	W	320	425
	F.L.A.	A	3	2
	Power	HP	1/10	1/8

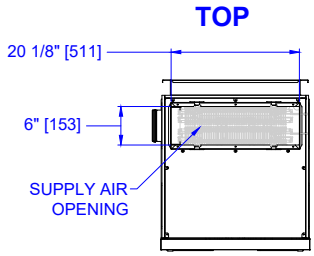
	Pre Heater		Post Heater		
	500 W	**1,000 W**	**900 W**	**1,800 W**	**2,700 W**
115 V	500 W / 7.8 A	N/A	900 W / 7.8 A	N/A	N/A
208 V	N/A	818 W / 3.9 A	736 W / 3.5 A	1,472 W / 7.1 A	2200 W / 10.6 A
230 V	N/A	1,000 W / 4.3 A	900 W / 3.9 A	1,800 W / 7.8 A	2,700 W / 11.7 A
240 V	N/A	1,089 W / 4.5 A	980 W / 3.8 A	1,960 W / 7.5 A	3,000 W / 11.3 A

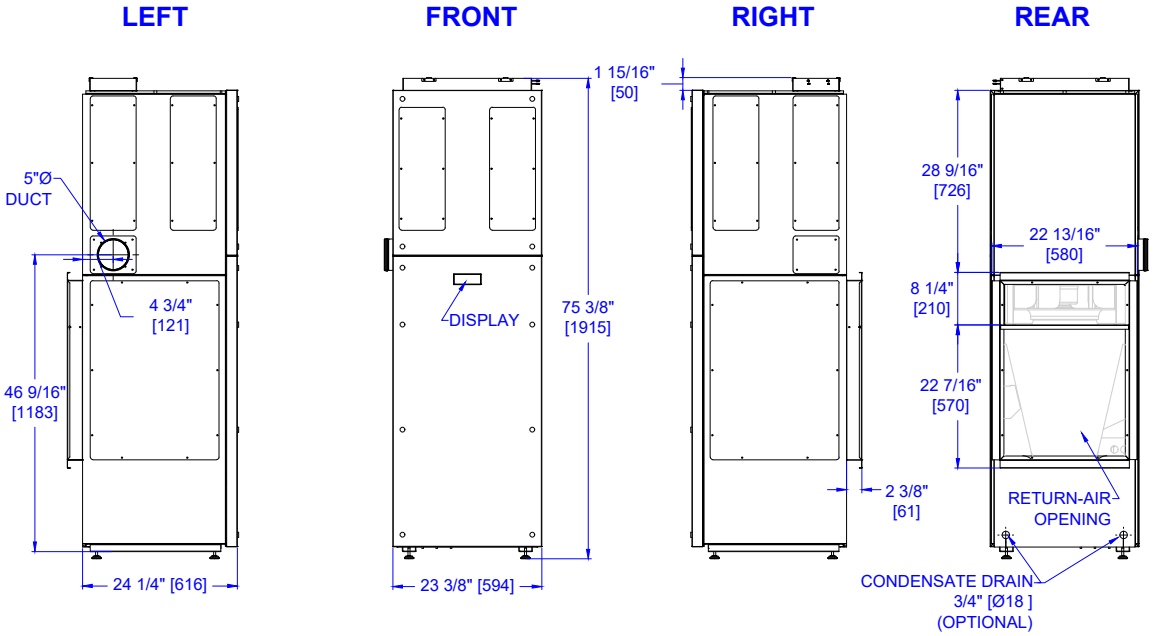
Sound		
Indoor	DB range: dB(A)	27 - 43
	STC	40
	OITC	35
Outdoor	dB(A)	28 - 55

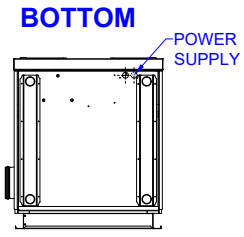
Unit Dimensions and Mechanical Details		
Dimensions		39.9" W x 21.6" H x 6.9" + 6" fan depth
		1,014 mm W x 547 mm H x 175 mm + 152 mm fan depth
Net weight	lb (kg)	100 (45.4)
Gross weight		105 (47.6)
Cabinet finish		RAL 9003 signal white
Cabinet material		Steel

Dimensions




TOP
20 1/8" [511]
6" [153]
SUPPLY AIR
OPENING


LEFT
FRONT
RIGHT
REAR
5"Ø
DUCT
4 3/4"
[121]
46 9/16"
[1183]
24 1/4" [616]
1 15/16"
[50]
DISPLAY
75 3/8"
[1915]
23 3/8" [594]
2 3/8"
[61]
28 9/16"
[726]
22 13/16"
[580]
8 1/4"
[210]
22 7/16"
[570]
RETURN-AIR
OPENING
CONDENSATE DRAIN
3/4" [Ø18]
(OPTIONAL)


BOTTOM
POWER
SUPPLY



nextac

Controllers





Android / iOS / PC App

The Innova app for Android, iOS, and PC devices enables full functionality of all modes, fan speed, temperature setting, and a comprehensive 7-day programmable timer when connected to the Internet. The app also allows groups to control multiple units as a single unit, simplifying operations. Multiple users can be connected to each Nextac unit.



Key Features

- Easy and intuitive to use
- Secure

Operation

- 7-day program with multiple independent schedules per day
- **Fan controls include**: Low, Medium, High, and Auto
- **Modes include**: Cool, Heat, Dehumidify, and Fan Only
- Fresh air on/off
- Fahrenheit or celsius in single degree increments
- Louver control
- Sleep mode
- Control units or as a group
- View all units at one time

Properties

- Compatible with Android, iOS, and PC
- Internet connection required for timer and remote control

Advanced Touchscreen Controller

The Wall Mounted, full-color, Advanced Touchscreen Controller is the best choice for the system's easiest and most comprehensive control. It can be mounted right next to a light switch, since it is approximately the same size as a standard light plate. Extensive programming capability enables you to set-up multiple schedules for each day. Commands are intuitive and straightforward. For more details, scan or click the QR code.

Note: This controller requires a gateway board which must be field installed and connected inside the unit by an electrician or technician. It takes approximately 15 minutes to install.



Key Features

- Full-color TFT touchscreen
- 4.3" TFT, with 480 x 272 pixel resolution

Operation

- 7-day program with multiple schedules per day
- **Fan controls include:** Low, Medium, High, and Auto
- Louver control
- Fahrenheit or celsius in single degree increments
- **Modes include**: Cool, Heat, Dehumidify, and Fan Only
- Fresh air on/off
- Sleep mode

Properties

- **Material**: White matte plastic frame
- **Weight**: 0.5 lb
- **Dimensions**: W: 3.12" x H: 4.76" x D: 0.5" (0.75"D inside j-box)
- **Connection**: Uses shielded 4-conductor 18-gauge wiring, with runs up to 40 feet
- **Mounting**: Mounts to a single gang, standard depth junction box
- **Included parts**: Touchscreen Controller and interface to unit
- 3-year limited warranty

Basic Touch Controller

The Wall Mounted Basic Touch Controller is simple and easy to use, with icons and text for each button. The sleek design and low profile easily blend with any decor. The LED display dims after 15 seconds, making it ideal for any room, especially a bedroom. For more information, scan or click the QR code.

This controller requires a gateway board which must be field installed and connected inside the unit by an electrician or technician. It takes approximately 15 minutes to install.



Key Features

- Surface Wall Mounted
- Sleek glass touch controller
- Always-on back-lit LED dims after 15 seconds of inactivity
- Icons and text for each button

Operation

- **Modes include**: Cool, Heat, Dehumidify, and Fan Only
- **Fan controls include**: Low, Medium, High, and Auto
- Fresh air on/off
- Keypad lock
- Fahrenheit or celsius in single degree increments
- Louver control
- Sleep mode

Properties

- **Mounting**: Surface mounted
- **Materials**: White matte plastic frame, glass front
- **Dimensions**: W: 3.41" x H: 3.35" x D: 0.31"
- **Weight**: 0.5 lb
- **Connection**: Uses shielded 4-conductor 18-gauge wiring, with runs up to 40 feet
- **Included parts**: Basic Touch Controller and interface to unit
- 3-year limited warranty

Recessed Touch Controller

Elegant and easy to use, the Recessed Touch Controller easily blends into any decor. The LED display dims after 15 seconds, making it ideal for bedrooms.

Note: This controller requires a gateway board which must be field installed and connected to the unit by a technician, using a quick connect cable. It takes approximately 10 minutes to install.



Key Features

- Recessed into the wall
- Sleek appearance
- Always-on back-lit LED dims after 15 seconds of inactivity

Operation

- **Modes include**: Cool, Heat, Dehumidify, and Fan Only
- **Fan controls include**: Low, Medium, High, and Auto
- Fresh air on/off
- Fahrenheit or celsius in single degree increments
- Louver control
- Sleep mode

Properties

- **Mounting**: Junction box
- **Materials**: White matte plastic frame, plastic front
- **Dimensions**: W: 4.41" x H: 2.35" x D: 0.15"
- **Weight**: 0.5 lb
- **Connection**: Uses shielded 4-conductor 18-gauge wiring, with runs up to 40 feet
- **Included parts**: Recessed Touch Controller and interface to unit
- 3-year limited warranty

Wireless Wall Mounted Thermostat LCDH

With a fully programmable 7-day scheduling feature, the Wireless Wall Mounted Thermostat LCDH transmits commands to the air conditioning unit via infrared (IR) signals. It is battery-powered, ensuring reliable operation without the need for direct wiring.



- **Type**: Low voltage thermostat
- **Material**: Flame retardant ABS plastic, rated UL94-V0
- **Temperature Range**: 61°F to 88°F
- **Temperature Accuracy**: ±2°F
- **Temperature Differential**: 2°F
- **Relative Humidity**: 10% to 90% RH
- **Operating Environment**: 50°F to 110°F, with 5% to 95% relative humidity, non-condensing
- **Storage Environment**: 0°F to 140°F, with 5% to 95% relative humidity, non-condensing
- **Physical Dimensions**: 4.72" width x 3.22" height x 0.87" depth
- **Mounting**: Direct wall mounting
- **Power Source**: Operates with 2 x AAA alkaline batteries

Wireless Energy Management Thermostat with Built-in Occupancy Sensor

The Wireless Energy Management Thermostat has an integrated occupancy sensor that combines motion and thermal sensing technologies for accurate occupancy detection. This technology delivers energy savings when rooms are unoccupied. In addition, fully configurable energy saving settings enable you to customize the thermostat to your needs. Built-in wireless mesh-networking enables online management.



Key Features

- Fingerprint-resistant glass ensures a spotless appearance, even with daily use
- Adjust temperature settings and access features with a simple tap
- User-friendly interface, designed for intuitive navigation and personalized comfort
- Ensure energy efficiency by setting personalized temperature schedules for each day of the week

Operation

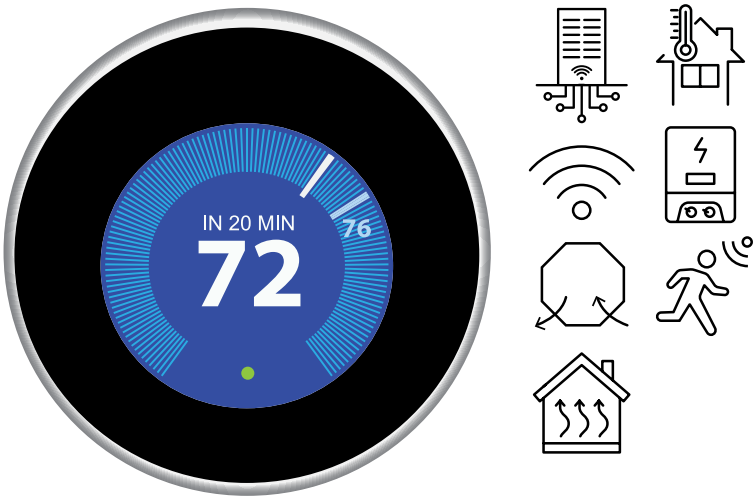
- **Modes include**: Cool, Heat, Dehumidify, and Fan Only
- **Fan controls include**: Low, Medium, High, and Auto
- Humidity control
- Fahrenheit or celsius in single degree increments

Properties

- **Mounting**: Surface mounted
- **Materials**: Black matte plastic frame
- **Dimensions**: W: 5.60" x 3.46" x 0.91"
- Wireless 902-928MHz. 2 x 1.5VDC AA alkaline non-rechargeable batteries - not supplied 24VAC or 12VDC
- **Included parts**: Controller and interface to unit
- 3-year limited warranty

Advanced Third-Party Gateway

The Advanced Third-Party Gateway Control Board is a versatile and feature-rich solution designed to seamlessly integrate and optimize the operations of the unit's Heat Pumps. This advanced controller ensures smooth communication with building management systems, thermostats, and additional accessories, making it ideal for diverse projects with both standard and specialized requirements.



Key Features

- **Thermostats**: Supports third-party thermostats and Innova-specific LTCH20 and TFTH20 models
- **Building Management System (BMS)**: Facilitates seamless remote communication via Modbus and BACnet protocols
- **Wi-Fi Connectivity**: Allows control through a dedicated App for smartphones, tablets, and computers
- **Electric Heater and Baseboard Control**: Supports operation and integration with electric heaters and baseboards
- **Fresh Air Unit**: Integrates control for fresh air intake systems
- **External Temperature Sensor**: Operates the electric heater based on external temperature conditions
- **Motion Detector**: Activates energy-saving modes based on room occupancy
- **Power Line Selector**: Operates with either 120V or 230V AC power sources

Operation

- on/off
- **Set-point modes including**: Cool, Heat, Dehumidify, and Fan Only
- **Fan speed including**: Low, Medium, High, and Auto

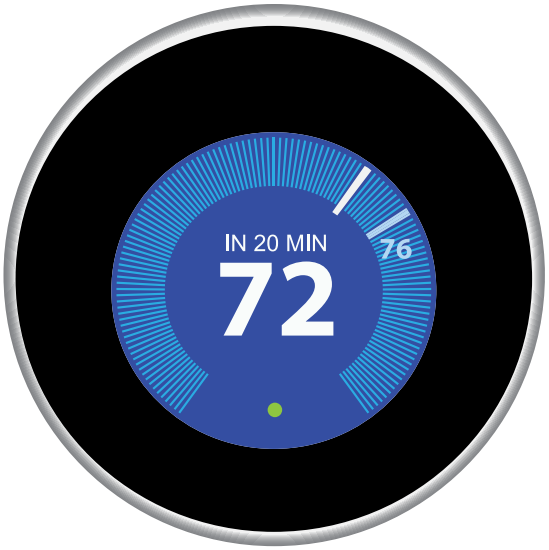
Properties

- **Power Supply**: Operates on either 120V or 230V AC, 50/60 Hz
- **Power Consumption**: 7 VA
- **Operating Environment**: Functional between 40°F (5.3°C) and 158°F (70°C)
- **Storage Environment**: Stable between 0°F (-18°C) and 158°F (70°C) at 90% relative humidity (non-condensing)
- **Relay Rating**: Dry contact relay rated at 1 Amp
- **Communication Protocols**: Modbus and BACnet over RS485 for BMS integration
- **Thermostat Connections**:
  - **Innova LTCH20/TFTH20 Thermostats**: Connected via 4 screw terminals
  - **Third-Party Thermostats**: Connected via 7 screw terminals
- **Control Settings**: DIP switches configure mode of operation and bus address
- **Fuse Protection**: 0.3 Amp fuse
- **Dimensions**: 6" x 2.7" x 1"

Third-Party Gateway (TPG)

The TPG allows the unit to be controlled by any standard or smart thermostat, because the unit's BLDC inverter compressor cannot operate from a simple on/off signal. The TPG translates the thermostat's commands and sends the appropriate signals to the unit's processor to control the inverter compressor.

Note: This controller requires a gateway board which must be field installed and connected to the unit by a technician, using a quick connect cable. It takes approximately 10 minutes to install.



Key Features

- Enables all the benefits of a smart thermostat such as Nest™, Ecobee™ etc for timers, controls, etc.
- Included 24V power supply

Operation

- on/off
- **Set-point modes including**: Cool, Heat, Dehumidify, and Fan Only
- **Fan speed including**: Low, Medium, High, and Auto

Properties

- **Connections to thermostats include**: R, C, Y, W, G1, G2, G3 and 24V power terminals
- **Dimensions**: W: 2.65' x L: 3.54" x D: 1.5"
- **Weight**: 0.5 lb
- Gateway mounts inside the unit
- **Included parts**: Third-party Gateway and interface to the unit
- 3-year limited warranty

BACnet and Modbus Gateway

This gateway enables building management systems (BMS) to control and monitor the unit's functionality. For more information, scan or click the QR code.

Note: This requires a gateway board which must be field installed and connected to the unit by a technician, using a quick connect cable. It takes approximately 10 minutes to install.



Key Features

- Enables full control, status and reporting of unit systems to BACnet and Modbus systems
- View error messages

Operation

- on/off
- Setpoint
- **Modes including**: Cool, Heat, Dehumidify, and Fan Only
- Fahrenheit or celsius in single degree increments
- **Fan speed including**: Low, Medium, High, and Auto
- Fresh air on/off

Properties

- **Connection**: IP/MSTP gateway
- **Dimensions**: W: 3.12" x L: 4.76" x H: 1.25"
- Interface mounts inside unit
- **Included parts**: BACnet/Modbus interface and interface to the unit
- 3-year limited warranty


VISUAL HARMONY

Timeline



2004

The beginnings
Founded by Oreste Bottaro, a visionary creator of patented innovations, the company has always focused on designing and implementing advanced systems dedicated to climate comfort in every season.

2012

The turning point
With the arrival of Gianandrea Masserdotti (GAM), the company decided to build its commercial network in Italy and abroad, proposing its solutions both to distribution and industrial partners for international brand collaborations.

2014

Major growth
Foreign collaborations led to the company's expansion into over 30 countries with a growth path fueled by the continuous generation of new ideas and projects. The adoption of DC inverter technology for fan coils and the launch of HPAC 2.0, the air conditioner without an outdoor unit, drove much of the growth.

2015



Canada
Took its first major step into the North American market through Canada. In a remarkably short time, our innovative all-in-one heat pump solutions gained strong traction, quickly building brand recognition among engineers, developers, and HVAC professionals. This early success laid the foundation for Innova's continued expansion across North America and established the brand as a fresh alternative in the market.

2016

The big leap forward
Sensing the potential of the Controlled Mechanical Ventilation space, we developed our first ERV system. We moved into a new 200,000 ft² facility in Storo, Italy, and built a Research and Development Pavilion, where our team works on future innovations.

2018

The vision of the future
With the invaluable contribution of ideas from Hakira Nishikawa, a complete vision of the future took shape. We invested in the world of ERV with the acquisition of a company specializing in ERV and an artificial intelligence systems company.

2019



USA
After many years of planning, we opened our USA subsidiary, Ephoca, with plans to open a manufacturing plant and build systems in the United States.



■ **Another revolution**
Not satisfied with linear growth, the company decided to step on the accelerator by deeply renewing all the product lines. The award-winning STØNE was introduced with great fanfare and accolades.

■ **New product launches**
Recognizing the unique US market, we started to develop products specifically for the US. This includes a PTAC replacement called Nextac.

■ **Product of the year winner**
Our Nextac, next gen PTAC, won the prestigious AHR product of the year award. Nextac aims to disrupt this status quo with this new high-efficiency and quality PTAC.

2020 **2021** **2022** **2023** **2024** **2026**

■ **Preparing for tomorrow**
The poor global economic situation in 2020 did not diminish our determination and ambition. At the end of 2020, we acquired a neighboring industrial complex, allowing for future expansion. We experienced explosive growth throughout 2021, doubling our staff and production. It was a fantastic year. We moved a manufacturing line into the new annex and tripled our warehouse space.

■ **Panasonic partnership**
After years of manufacturing systems for Panasonic and collaborating closely with their team, they acquired a minority share in our company. This partnership prioritizes energy-efficient solutions and innovation, vital for our growth as we access Panasonic's global support.

■ **Major milestone**
Reached a major milestone in validating the performance and credibility of our AIO product line by securing a range of industry-leading certifications across multiple models, including AHRI, Energy Star, NEEP, and Passive House. These recognitions reflect our commitment to delivering highly efficient, all-in-one heat pump solutions that meet the rigorous standards required by engineers, developers, and sustainability programs across North America.

innova

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. For more information, visit innova-usa.com

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

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