



Making your home Green & Smart



Ecoer Smart Residential Inverter Ducted Heat Pump System (ESi Decades Extreme)

- Smart Connected Heat Pump
- Full DC Inverter with Smart 4G IoT connectivity technology
- Ultimate Comfort and Quietness
- High Efficiency up to 20 SEER2 / 9.2 HSPF2
- 10-Year Limited Parts Warranty
- 10-Year Labor Warranty*
- 3-Year Ecoer Smart Service"

*Full system with IoT Gateway is required

Smart Connected Heat Pump (*)

- 15% Faster start-up
- Heating capacity increased by 10% to 20% at 15°F compared to ESi Decades
- Wider cooling operation range from 20°F (previous units operated within the range of 40°F to 122°F)
- Our IoT technology guarantees worry-free installation.
- Maintenance and service is easier with our IoT technology.
It assists in identifying any system issues and offers possible solutions
- Feel comfortable knowing that our IoT technology will send alerts if a problem arises.

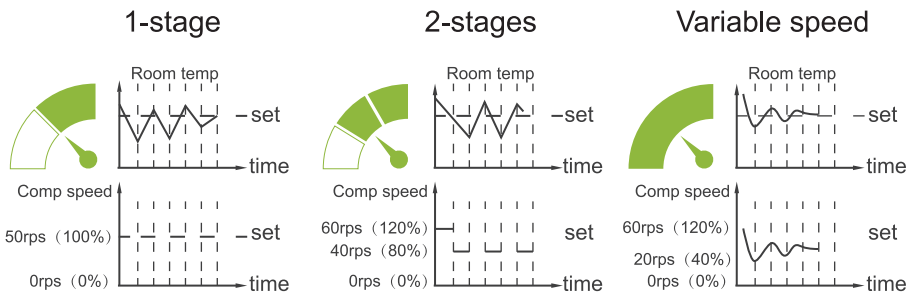
*ESS service required

Ultimate Comfort



Consistent Comfort

Compared with fixed speed systems, Ecoer inverters have a much wider capacity range which helps to achieve faster heating and cooling. With more than 30 stage settings in our compressor, Ecoer inverters provide more accurate and efficient temperature control while using less energy.









Appropriate Humidity

Imbalanced air moisture can lead to mildew and unhealthy airflow. With the appropriate settings and use of Ecoer's Wi-Fi Thermostat, Ecoer systems can automatically remove moisture without over-cooling and maintain the appropriate temperature.

As Low As 56dB

Quiet Mode for Night Time Use

	Washing hands	■■■■■	45dB
	Keyboard	■■■■■■	50dB
	Inverter Ducted Split	■■■■■■■	56dB
	Sea Sound	■■■■■■■■	60dB
	Bird Sound	■■■■■■■■■	75dB
	Hair Dryer	■■■■■■■■■■	85dB

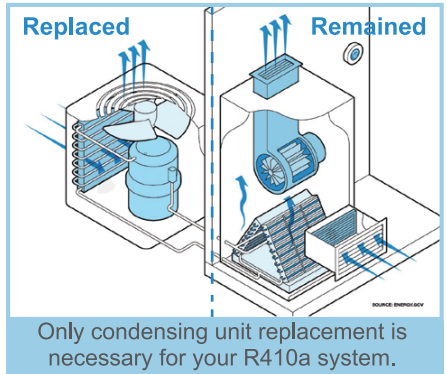
The lowest average sound rating is 56dB for the Ecoer Inverter unit. This is based on a weighted average dB, according to AHRI-260:2001 (100Hz-10KHz). Actual sound rating may vary depending on system settings, equipment maintenance, and other factors.

High Efficiency and Minimum Cost

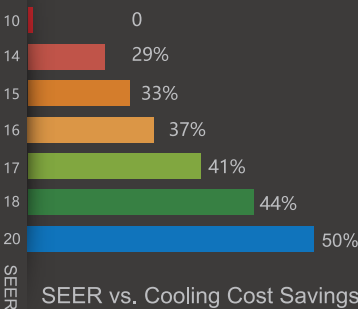
Lowest Cost Replacement Solution

Thanks to Ecoer's innovative non-communicating inverter technology, our inverter outdoor condenser units are compatible with the traditional 1-stage and 2-stage indoor air handlers or furnaces and 24V controlled thermostats.

Users will not have to replace the indoor units⁽²⁾, thermostats or electrical wire in R410A replacement applications. This will greatly increase savings on the replacement costs. Ecoer also provides full system change outs with indoor air handlers and Wi-Fi thermostats when desired.



Make a smart and greener choice- Saving more and costing less



*Percentage based on national average at 10 SEER; may vary according to efficiency of current unit and installation.



Ecoer Inverter systems deliver the precise amount of heating and cooling needed to achieve the desired temperature, no more/no less. Thanks to a SEER rating up to 20, a HSPF rating up to 10 and a self-learning load programming, the inverter system can reduce annual utility bills up to 50% compared to older 10 SEER systems. Ecoer systems provide the greatest indoor comfort at the most affordable price to our customers.

Robust and Reliable Quality

The Ecoer Inverter ducted split systems are certified by AHRI and ETL. These robust and durable units, both indoor air handlers and outdoor condensers, are produced to exact standards and strict quality control. Ecoer products are assembled by a professional manufacturing facility with annual revenue of \$15 billion.



The innovative Backup-Running Technology can keep the system running safely in case of failure for up to 2 sensors. This feature reduces inconvenient system outages and will allow the system to continue to operate while awaiting system maintenance.

The Ecoer Smart IoT Gateway monitors the operation of your system 24 hours a day. It diagnoses the operation data, predicts possible faults and sends alerts to your service provider automatically when a failure event occurs. The condenser can be upgraded remotely with the newest software to provide the best product experience.



Ecoer's Wi-Fi Programmable Touchscreen Thermostat

- Remotely adjust your thermostat from your smartphone.
- The App provides WiFi connectivity both 2.4GHz&5GHz
- Compatible with most 24V controlled systems.
- Automatic control of indoor fan speed for improved dehumidification.
- A sleek and user-friendly design.
- Enjoy peace of mind with a three-year limited warranty.
- Set a customized schedule with seven-day programmable settings.
- Ensure proper installation by a professional.
- Support Dual fuel system.



10-Years Limited Warranty on Parts

Note:

- (1) For full details on the warranty terms and conditions visit www.ecoer.com
- (2) Required to be qualified for local regulations and HVAC standards.



Up to 10-Year Labor Warranty

Starting on September 1st of 2022, Ecoer included 10 years of labor and 3 years of monitoring with the IoT gateway.

To add 7 years of monitoring, please visit <https://www.ecoer.com/product/extended-services/> and purchase 10x10 COMFORT DEFENSE PLUS service online.





Ecoer, Inc. is a finalist in AHR Expo's Innovation award

Ecoer, Inc. received recognition as a finalist in the Heating category of the AHR Expo's Innovation awards for 2021 for our inventive Home Comfort Systems with IoT Technology!

This annual competition by the International Air-Conditioning, Heating, Refrigerating Exposition recognizes "the most inventive and original products, systems and technologies" from HVACR companies. Companies can enter into the following categories: building automation; cooling; green building; heating; indoor air quality; plumbing; refrigeration; software; tools & instruments; and ventilation. A panel of third-party ASHRAE member judges selects the winners after analyzing each entry for innovative design, creativity, application, value and market impact.

Ecoer, Inc. Wins in 2020 Dealer Design Awards by ACHR

July 27, 2020 - Ecoer, Inc was recognized for excellence in product design in the 17th annual Dealer Design Awards Program sponsored by The Air Conditioning Heating & Refrigeration News magazine. An independent panel of contractors acted as judges in the contest that had 93 entries. The company's Smart Home Comfort Line with IoT was the "Bronze Medal" winner in the "HVAC High Efficiency Residential Equipment" category. The ACHR News is the leading trade magazine in the heating, ventilating, air conditioning, and refrigeration industries.

Publisher Mike Murphy stated, "These awards give us a unique opportunity to recognize the outstanding research and development efforts that go into many of the products serving the HVACR industry and the awards issue gives our readers an opportunity to read about innovative installation and service solutions."

Winning entries in the Dealer Design Awards were featured in the July 27, 2020 issue of The ACHR News, which is distributed nationally to over 32,000 HVACR contractors, wholesalers, and other industry professionals.



Series	ESi Decades Extreme*				
	36K	48K	60K	24K Ultra**	36K Ultra**
AHRI Reference NO.	207861757	207861759	207861760	207861756	207861758
Capacity					
Cooling Capacity (BTU)	34200	45000	54000	24000	35200
Heating Capacity (BTU)	36000	47000	55000	24000	36000
Load	25%-110%			50%-170%	
SEER2	18.0	18.0	17.0	20.0	19.0
EER2	11.2	11.7	10	13	12
HSPF2	9.0	9.0	9.0	9.19	9.19
COP at 5°F	2.0	2.1	1.9	2.1	2.1
HCR at 5°F/47°F	70%	73%	70%	82%	81%
Cold Climate Designation	Yes	Both	Yes	Both	Both
Component					
Compressor	Variable Speed				
Fan Motor	Multi-speed				
Outdoor Metering Device	Electronic Expansion Valve				
Indoor Metering Device	Non-bleed R410A TXV				
High Pressure Sensor	•	•	•	•	•
Low Pressure Sensor	•	•	•	•	•
Compressor Noise Canceling Jacket	•	•	•	•	•
Refrigerant Accumulator	•	•	•	•	•
Field Setting					
Dehumidification Mode	•	•	•	•	•
High Capacity Mode	•	•	•	•	•
Silent Mode	•	•	•	•	•
Special Functions					
Auto Charge	•	•	•	•	•
Remote Alert*	•	•	•	•	•
History Data Review*	•	•	•	•	•
Quick Registration*	•	•	•	•	•

*ESi Decades Extreme

ESi Decades Extreme marked system has better heating performance on low ambient temperature by meeting below requirements:

HSPF2 (AHRI Climate Region Zone IV) ≥ 9 ;

COP of ≥ 2 at -15°C (5°F) (at maximum capacity operation);

Capacity Maintenance (Max -15°C (5°F)/Rated 8.3°C (47°F)) $\geq 80\%$


Ultra means a better heating performance at 5°F , HCR at $5^{\circ}\text{F}/47^{\circ}\text{F} \geq 80\%$

For each installed Ecoer system with IoT Gateway, Ecoer will provide a 10-year labor warranty and a complimentary 3-year subscription to Ecoer Smart Service (ESS). Registration on www.ecoer.com or Ecoer Smart Service (ESS) App is required. It is required that only registered contractors and homeowners can enjoy this service from Ecoer Smart Service (ESS). This is a limited offering, policy may be subject to change. All rights reserved by Ecoer Inc.




Technical Information

Condensing Section Model Sizes			
Models	Height	Width	Depth
2436	24-15/16	29-1/8	29-1/8
4860	33-3/16	29-1/8	29-1/8



- Higher efficiency of up to 20 SEER2
- Fully modulating inverter drive
- Quicker start-up time, improved by 15%
- Wider cooling operation range from 20°F (old units run from 40°F to 122°F)
- The heating capacity has increased by 10% to 20% at a temperature of 15°F.
- The compressor is equipped with a noise-canceling jacket.
- Dehumidification mode is specifically designed for high humidity areas.
- The refrigeration system includes an auto charge feature for the refrigerant.
- Backup running technology keeps the system operating with anti-malfunctioning sensors

Air Handler Section Model Size			
Models	Height	Weight	Depth
24/36	46-1/2" (1180)	21" (533)	21" (533)
48/60	56" (1422)	24-1/2" (622)	21" (533)



- Multi-speed ECM blower motor
- Anti-cold air feature
- Factory installed TXV
- Multi-position installation
- Multiple electrical entry locations
- Field installed heater kits 5, 10, 15, 20KW
- Two front panels (upper and lower) for easy service
- The slide rail design for the motor and coil makes installation and maintenance easy.
- Pre-installed with both horizontal and vertical drain pans.
- Plastic primary drain pan
- When used with an Ecoer thermostat, Ecoer air handlers can automatically switch to low speed for improved dehumidification control.

About Ecoer

Since 2016, we've used our proprietary and patented Inverter and "Smart" IoT Technology to create the best ducted Residential Air Conditioning and Heat Pump Systems available.

Our passion and commitment to excellence has bolstered our tremendous growth into multiple locations in four countries; from our US base, to Canada, Japan, and China.

Ecoer is meant for everyone. Our clearly-defined corporate goals of providing the best high-efficiency product at an affordable price, simplifying the inverter installation process, and connecting the contractor to homeowners and their systems.

By staying true to our original mission, we see our inverter technology used more often in the US residential market. We have a boundless determination toward making the process easier and faster for the contractor; all while saving the homeowner significant money on their power bills and making the world just a bit greener!

It matters who you choose for your air conditioner and heat pump systems. We're here, and we're ready to help!

Ecoer's Mission Statement is:
Making your home Green and Smart.

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