



The Most Innovative Residential Ducted Heat Pump and AC System Available

- Ultimate Comfort & Quiet
- High-Efficient up to 20 SEER/10 HSPF
- Full DC Inverter with Smart 4G IoT connectivity technology
- 10-Years Limited Parts Warranty
- Easier and quicker Installation and Maintenance than a Fixed Speed System



Homeowners

Ecoer is dedicated to offering affordable, high-efficient air conditioning and heating systems to homeowners.

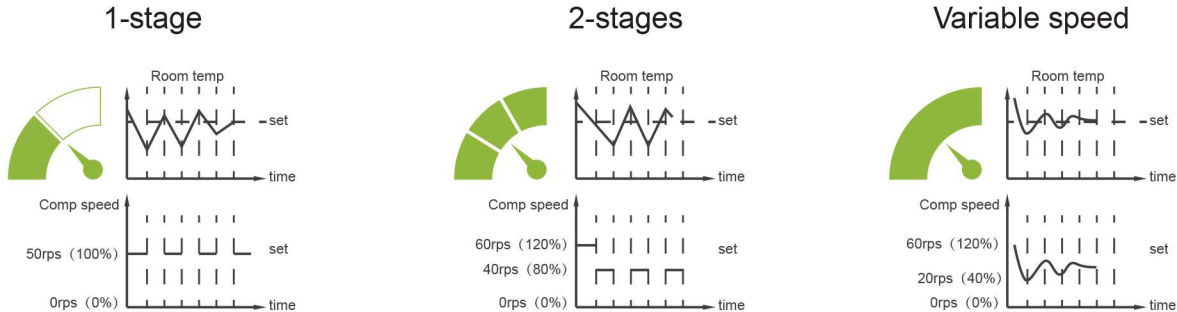
Every Ecoer Heat Pump and AC system comes with a 10-Years limited parts warranty. Our warranty is one of the best in the industry.

All you need to do is replace your old inefficient system with an Ecoer high-efficient up to 20 SEER system to enjoy great comfort and quiet both in the summer and winter time, while saving up to 50% on your energy bills. Installing an Ecoer system in your home not only benefits you, but the environment as well.

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 overcooling and maintain the appropriate temperature.

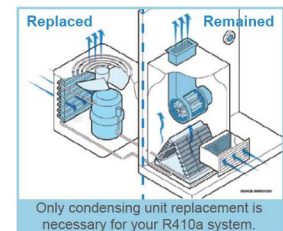
Health and Safety

Gas furnaces burn fuel which may be unhealthy, as well as, potentially dangerous. The advantage of heat pumps is they require no fuel combustion making it cleaner and safer for you and the environment than gas. With an Ecoer heat pump system, there are no fuel emissions or risks of carbon monoxide poisoning.

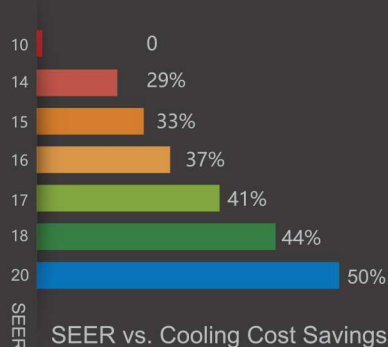
High Efficiency and Minimum Cost

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



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.

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

As Low As 56dB

Quiet Mode for Nighttime 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.

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 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 Programable Touchscreen Thermostat

- Set your temperature remotely from your smart phone.
- Wi-Fi connectivity through the App
- Compatible with most 24V controlled system
- Able to control indoor fan speed for better dehumidification control
- Modern design & simple to use
- Makes it even easier for remote diagnostic and trouble shooting



Smart Connected Air Conditioner (*)

- Worry-free installation is guaranteed because of our IoT technology.
- Easier maintenance and service from now on, the IoT technology will assist you in catching any system issues and help by offering possible solutions.
- Feel comfortable knowing that the IoT technology will send Alerts if a problem arises.

*ESS service required

10-Years Limited Warranty on Parts ⁽¹⁾

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 industry standards.



Up to 10-Years Labor Warranty

- All Ecoer Systems come with the first 3 years of IoT monitoring and the first 3 years of Premiere Comfort Labor Warranty.
- An additional 7 years of monitoring + Premiere Comfort Labor warranty package is available from your preferred Ecoer Contractor.
- Ask your local Ecoer contractor for details.



Professionals

Worry Free Service

Smart service available for full life cycle of Ecoer products

1 Purchase

2 Condensing units covering 1.5 - 5.0 Ton
Multiple operation modes
(Silent mode, Dehumidification mode)
Self-learning technology

2 Install

The same as fixed system (24V control)
Keep the old indoor unit or replace it (TXV required)
Keep the old thermostat or replace it
Keep the old refrigerant line set or replace it

3 Commissioning

Quick commissioning function
Live SC/SH data monitoring
Self-diagnostic commissioning
(Refrigerant volume diagnosis etc.)

4 Operating and Service

Alert on system or parts malfunction
Fault prediction

5 Trouble Shooting

Automatic self-diagnostic service from ESS App
Remote trouble shooting service from ESS App

6 Replacement

The same as fixed system
Refrigerant quick recycle function

Value added service reminder

- Filter replacement Reminder/Alert, Coil cleaning service
- Recharge service
- Condenser cleaning service

360° Services

Five Star Service

Easy to Inventory

Ecoer's universal design is based on True Inverter Technology combined with IoT Connective Technology.

2 series - ESI and ESI Ultra

- Regular Ambient series (ESI). All you need is a competitively priced 17-20 SEER series. Why waste more money on 100+ SKU inventory and match-ups from 14-20 SEER systems?
- Low Ambient series (ESI Ultra). Ecoer's Low Ambient series can generate 80% heating performance at -5F (-20C), 100% at +5F. (Tested and Rated in accordance with AHRI Standard 210/240.)

2 Condenser Models and 4 Air Handler Models

Don't get yourself confused, let us make it simple and effective. Ecoer smart inverter ducted split systems provide just 2 condensing units ranging from 2-5 Ton in capacity and 4 air handler units ranging from 2-5 Ton in capacity.

Easy to Upgrade Customer Satisfaction

- Ecoer's Smart Service (ESS) provides a cloud-based platform that technicians can manage every system they installed.
- Be proactive to your customer by knowing and fixing any issues before they complain. Be connected to your customer for the life of the system.
- Provide only necessary service to homeowners with data from Ecoer's smart IoT Gateway and App.
- Ecoer's smart IoT Technology makes a technician's job easier and faster.

*Provide fault prediction service, auto diagnostics and solution advice when you subscribe to Ecoer's (ESSS) monitoring service, which is a fee-based service.(Ecoer provides 1-3 years monitoring service included upon purchase of unit from the factory)

Easy to Service

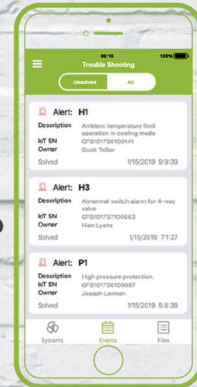
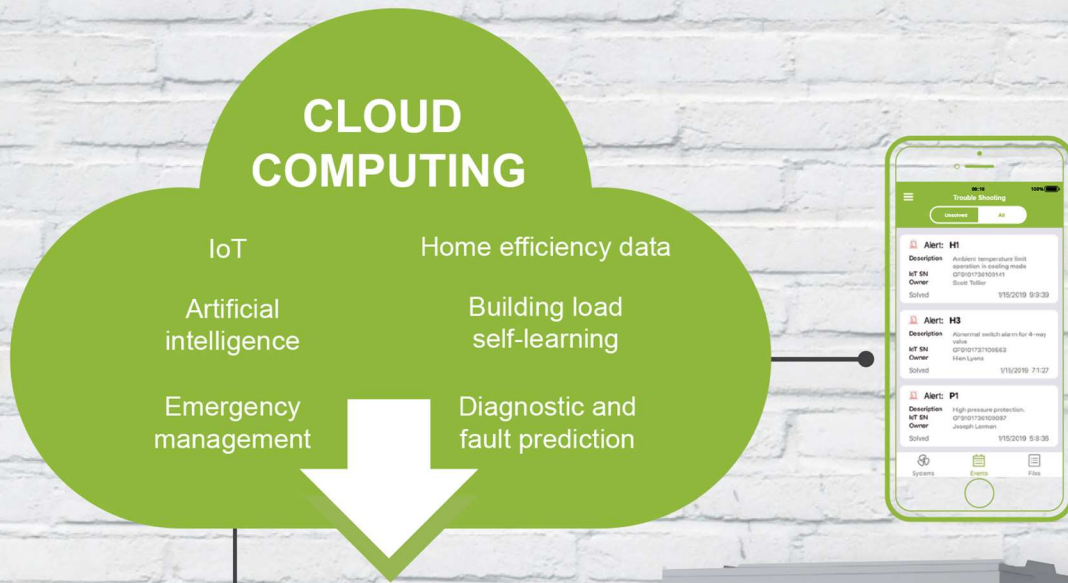
- Replace our PC Board within 10 minutes or less.
- Ecoer's Smart Service App provides information on diagnosis, fault history, system status, fault alert and lifetime run history.
- Ecoer's App will provide the technician advice on how to service the unit, before going out to jobsite.
- Easier for technician to know which part is needed to fix the system, leading to quicker repair and less parts handling.
- Provide a faster technical solution by being connect to customer's system 24/7, by using the IoT Gateway and App.
- Gain more business and access to customers by using Ecoer's smart monitoring service (ESSS)

Easy to Sell

- One of the best industry warranties. Limited 10 years parts warranty.
- Less Models, for easier match-up and offerings. Contractors will not be confused by what models to offer, making a happier customer.
- High-Efficient, saving money and energy. Ecoer's smart inverter 18 SEER series provides higher efficiency than similar priced 2 stage systems.
- Enhanced comfort and quiet using a True Inverter (30 plus stages).
- Affordable high-end system.
- Intelligent operation solutions using sensors, PC Board and IoT Gateway.
- Low operating sound, as low as 56dB.
- More flexibility in the installation than other brands.
- Ecoer's Smart IoT technology provides many benefits to the homeowner and contractor.
- Friendly condenser only replacement. Making retrofits easy and affordable. Ecoer condenser will work well with other brands R410A indoor units, while improving efficiency and quietness. (Must follow AHRI regulations)



Making your home Green & Smart



Ecoer Smart Service System (ESSS)

Smarter choice for easier service calls

ESSS provides automatic alerts on the following:

- Refrigerant level is over/under charged or leaking
- Filter requires cleaning or changing air flow restriction
- System or component failure

ESSS provides real time/historic data on

- Cooling/heating capacity
- System status (pressure, temperature)
- System fault

ESSS recommends solutions for

- Each potential fault encountered by the user
- Components preparation
- Customer's home efficiency improvement

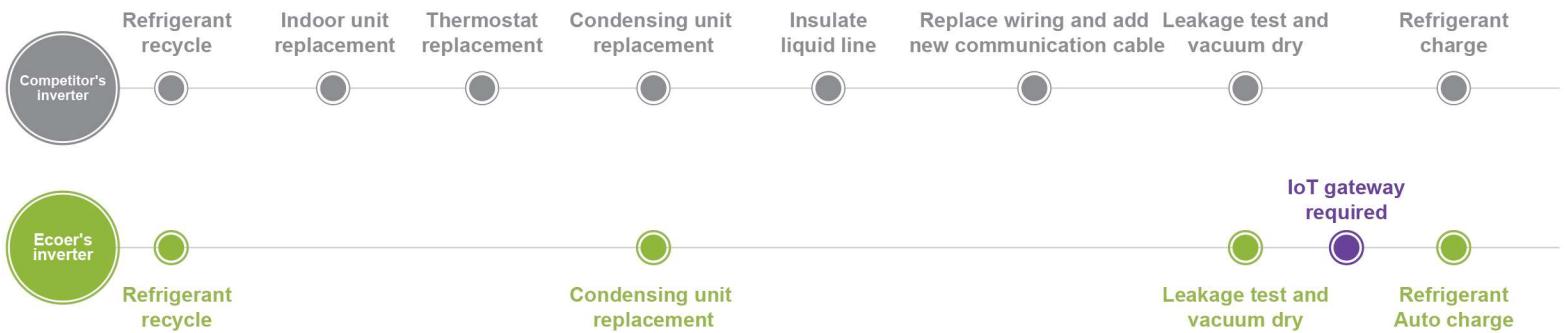
Business Partner

Ecoer cares about you and your business success. If we were able to make your job easier and faster, then together we will help homeowners see the benefits of having an Ecoer system. Ecoer provides 5 unique ways to help your job be easier and faster.



Easy Installation

Ecoer Inverter VS. Competitor's Inverter
(Example- Replacement of a R410A fixed speed compressor 13 seer system)



Ecoer's Advantage

King of the replacement market. One of the most flexible high-efficient systems in the market. No communication wire needed to be added, and you can keep the existing thermostat if desired.

- Installation is quicker. Only two control wires required.
- Ecoer's inverter does not require the liquid line to be insulated or add a communication wire.
- Easier to move. Compact design makes carrying and fitting Ecoer's smart inverter condenser easier.
- Simple installation process. Same as installing a fixed speed system because it's non-communicating inverter technology.

Ecoer's technology makes installation simple:

- Using Ecoer's (Auto Charge) feature helps prevent over/under charging the system. Ideal refrigerant coefficient: 0.4-0.6. This data can be read from PCB or Ecoer's Smart Service App.

Technical Information

Series	ESI				ESI Ultra
	24K	36K	48K	60K	Ultra 36K
AHRI Reference NO.	202337969	202110525	202337970	202110527	202110529
Capacity					
Cooling Capacity(BTU/h)	23400	34200	45000	54000	36000
Heating Capacity(BTU/h)	24000	36000	47000	54000	36000
Load	25%-110%				50%-170%
SEER	20.0	18.0	17.0	17.0	20.0
HSPF	10.0	10.0	9.5	9.5	10.0
Component					
Compressor	Variable				
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 Cancelling Jacket	•	•	•	•	•
Refrigerant Accumulator	•	•	•	•	•
Field Setting					
Dehumidification Mode	•	•	•	•	•
High Capacity Mode	•	•	•	•	•
Silent Mode	•	•	•	•	•

CONDENSING SECTION MODEL SIZES

Models	Height (H)	Width (W)	Depth (D)
2436	24-15/16	29-1/8	29-1/8
4860	33-3/16	29-1/8	29-1/8

Standard Features:

- Up to 20 SEER/10 HSPF
- Fully modulating inverter drive
- Capacity load from 25%-110%
- Sound levels as low as 56dB
- Compress equipped with noise cancelling jacket
- Compatible with most 24V thermostats
- Low temperature field setting
- Dehumidification mode specifically designed for high humidity areas
- Refrigerant Auto charge feature
- Intelligent control
- Backup Operation up to 2 failed sensors

AIR HANDLER SECTION MODEL SIZES

Models	Series	Height (H)	Width (W)	Depth (D)
24/36	E series	46-1/2"[1180]	21"[533]	21"[533]
48/60		56"[1422]	24-1/2"[622]	21"[533]
36	G series	46-1/2"[1180]	19-5/8"[500]	21-5/8"[550]
60		54-1/2"[1385]	22"[560]	24"[610]

Standard Features:

- Multi-speed ECM blower motor
- 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 serving
- Slide rail design for motor and coil for easy installation and maintenance
- Horizontal and vertical drain pan pre-installed
- Plastic primary drain pan
- Cooperating with Ecoer thermostat, E series can automatically switch to low speed to get even better dehumidification control



*All services or features marked with an * are required to subscribe to Ecoer Smart Service. ESS is a paid monitoring service and is on a subscription basis.

Ecoer's limited-time promotion policy:
(Valid through December 31, 2020)
For each installed Ecoer Smart System, Ecoer will provide a complimentary 3 years subscription to Ecoer Smart Service (ESS). Registration on www.ecoer.com, or Ecoer Smart Service App is required. (ESS is only for HVAC contractors.)
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