

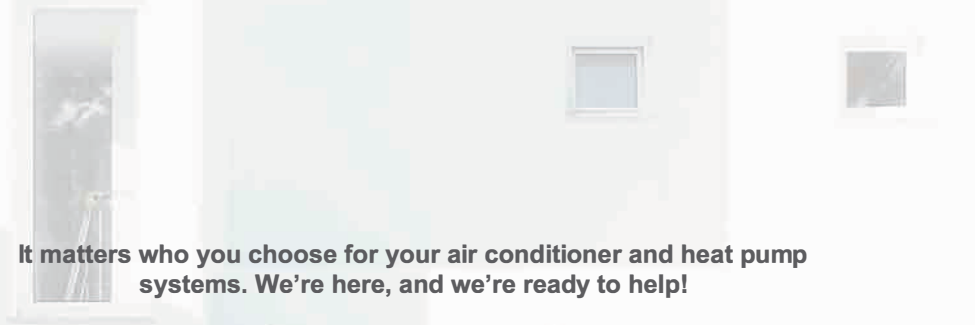
About Ecoer

Since 2016, we have utilized our proprietary and patented Inverter and "Smart" IoT Technology to develop the finest ducted Residential Air Conditioning and Heat Pump Systems that are currently available, without any doubt.

Our dedication and commitment to providing top-notch quality have resulted in remarkable growth and expansion into several locations across four different countries - from our US base to Canada, Japan, and China.

Ecoer is designed to serve everyone. Our corporate objectives are crystal clear: to offer the finest high-efficiency products at reasonable prices, streamline the Inverter installation process, and connect contractors with homeowners and their systems.

By staying true to our original mission, we have seen our inverter technology become more widely used in the US residential market. We are relentlessly dedicated to making the installation process simpler and faster for contractors while also helping homeowners save significant amounts of money on their power bills and making the world a little 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.

* 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.

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.

Follow us:

43671 Trade Center Place, Suite 100
Dulles VA 20166
T: +1 (703) 348-2538
www.ecoer.com
Email: sales@ecoer.com



Outdoor Unit Model	ESCA16H-36	ESCA16H-60
Combination	3Ton	5Ton
Indoor Unit Model	EAHAEC-36	EAHAEC-60
AHRI Reference NO.	211594473	211594474
SEER2	16	15.3
EER2	10	8.8
HSPF2	9.5	9.4
COP at 5°F	1.97	1.91
HCR at 5°F/47°F	86%	82.2%
Cold Climate Designation	Yes	Yes
Capacity		
Cooling (BTU/h)	36000	55000
Heating (BTU/h)	40000	59000
Operation limit		
Cooling operation range	5~122°F	5~122°F
Heating operation range	-22~75°F	-22~75°F
Compressor		
RLA	32	26.2
Condenser Fan Motor Qty	2	2
Input(W)	126	126
Output(W)	85	85
RLA	1.2	1.2
Refrigeration System		
Refrigerant Line Size		
Liquid Line Size ("O.D.")	3/8"	3/8"
Suction Line Size ("O.D.")	3/4"	7/8"
Refrigerant Connection Size		
Liquid Line Size ("O.D.")	3/8"	3/8"
Suction Line Size ("O.D.")	3/4"	7/8"
Cooling Metering Device (Indoor Side)	EEV	EEV
Heating Metering Device	EEV	EEV
Maximum Line Length	213.25 ft	213.25 ft
Maximum Elevation Difference	98.4 ft	98.4 ft
Electrical Data		
Voltage-Phase-Hz	208/230-1-60	208/230-1-60
Minimum Circuit Ampacity	30	40
Max. Over-current Protection	50	50
Allowed Volts Range	187~253	187~253
Condenser Decibels [dB(A)]	64	63.5
Equipment Weight (lbs)	227	240
Ship Weight (lbs)	255.7	271.6



CONDENSING SECTION MODEL SIZE

Models	H	W	D
ESCA16H-36	52-1/2	37-1/2	16-3/10
ESCA16H-60	52-1/2	37-1/2	16-3/10

Standard Features:

- Up to 16 SEER2 and 9.5 HSPF2
- Full-fledged Inverter Technology
- Universal match – comparable with the existing indoor unit and 24v on-off control
- Low sound level – as low as 58dB
- Ultra heating for up to 5 TON*
- Golden fin with higher corrosion resistant
- No Clogging concern by the leaves or snow
- Smaller footprint compared with Top discharge condensing unit

*Ultra Heating:

- HSPF2 (AHRI Climate Region Zone IV) ≥ 8.1
- COP at 5°F ≥ 1.75 (at maximum capacity operation)
- Capacity Maintenance (Max 5°F)/(Rated 47°F) ≥ 80%



AIR HANDLER SECTION MODEL SIZE

Models	H	W	D
EAHAEC-36	49	21	21
EAHAEC-60	53	21	24-1/2

•Temperature Control: The AHU series keeps the indoor temperature fluctuation within ± 1°F providing year-round comfort.

•Anti-cold Air Function: Prevents the cold on Heating Mode.

•Fast Cool/Heat Function: Enjoy cooling and heating in seconds.

•Auto Defrost: Prevents the outdoor unit from freezing up.

•Gold Fin: Prevents bacteria growth, gold coating on the condenser with stands the salty air, rain and other corrosive elements.

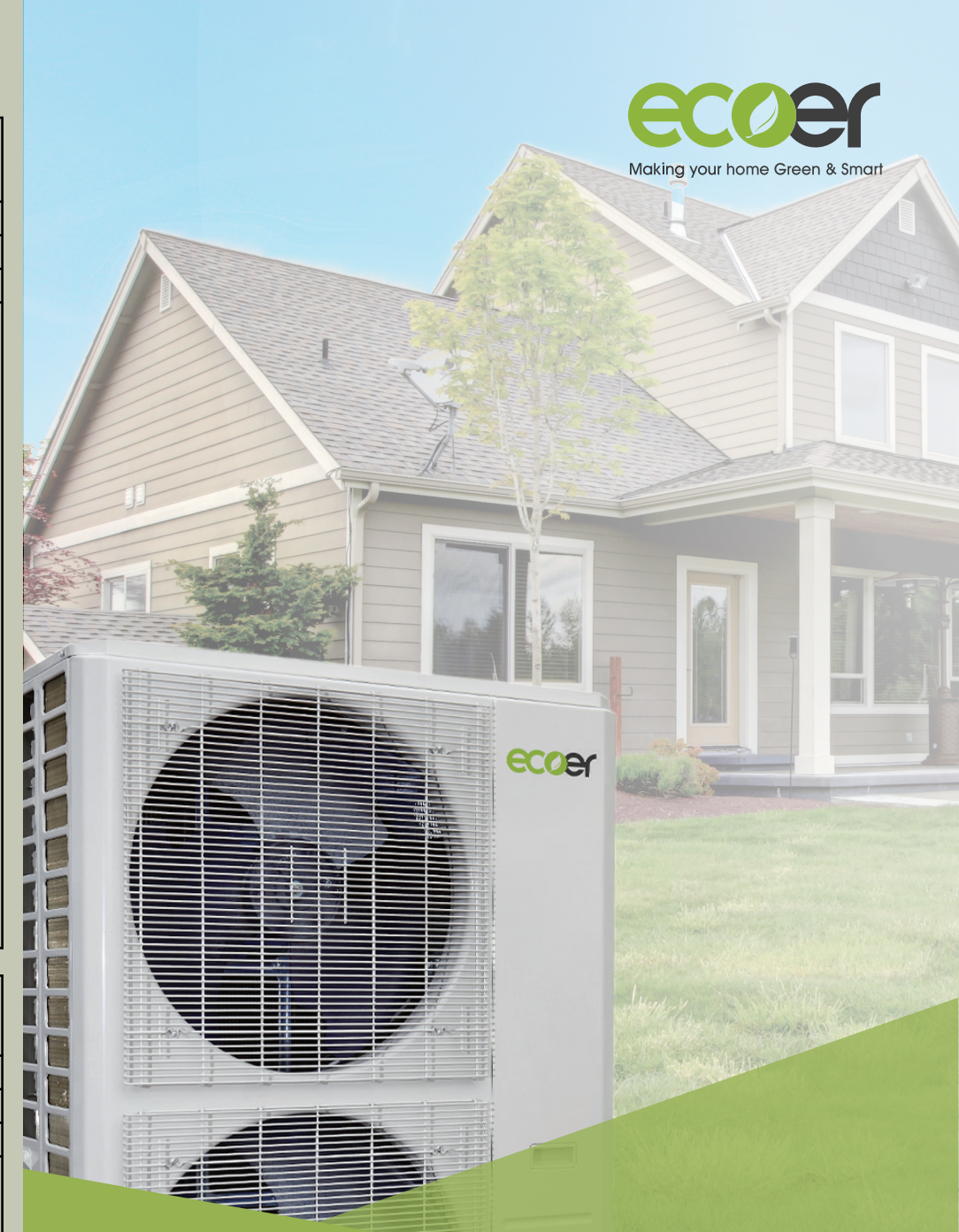
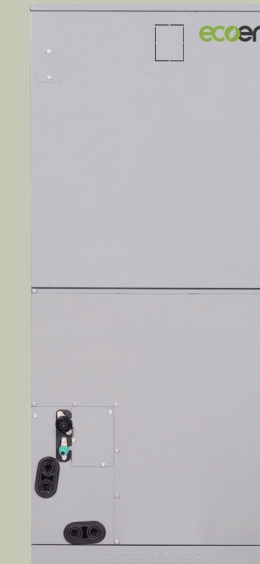
•Self-diagnosis and Auto-protection: Unit will shut off automatically when abnormal operation or parts fail protecting the system.

•Emergency Use Function: When temperature sensor detects an error the unit shuts off immediately.

•Fire-proof Electric Box: Meets fire safety requirement to prevent the internal fire due to electric spark.

•Electic Heat Kit: 5kw, 8kw, 10kw, 15kw, and 20kw.

•2-way Draining: Left and right sides of indoor unit have drainage hose connections for easy installation.



ecoer
Making your home Green & Smart

Ecoer SDi Decades Extreme Heat Pump

- Smart Connected Heat Pump
 - Full DC Inverter With Smart IoT Connectivity Technology
 - Ultimate Comfort and Quiet
 - Ultraheat output with 5°F / rating at 47°F: 82% - 86%
 - Slim Footprint to Save Installation Space
 - 10-Year Limited Parts Warranty
 - 10-Year Labor Warranty*
 - 3-Year Ecoer Smart Service*
- *Full System with IoT Gateway is required.



High Efficiency

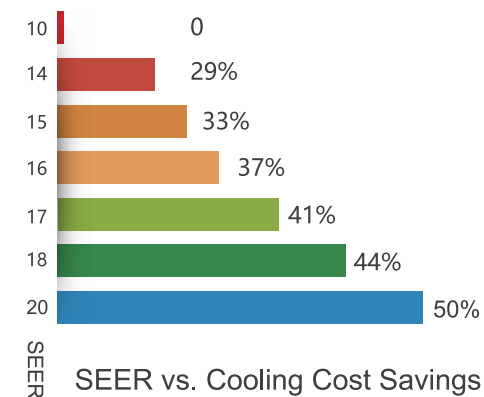
A Greener Choice

- Up to 16 SEER2
- UL Certified for Safety AHRI
- Listed for Efficiency



A Cost Saver

Energy Savings: Save up to an estimated 50% in energy costs with this unit.
Estimated energy savings of up to 50% based on our rated matched system.



Ultra Heating

Ecoer's SDi Decades Extreme Heat Pump features "Ultra Heating" technology, which enables it to operate with a heating capacity of up to 86% at an ambient temperature of 5°F (with a rating at 47°F). This is a significant improvement over traditional systems, which may experience lockout during extreme weather conditions. The Ecoer heat pump also has an automatic adjustment feature that maintains consistent speeds to prevent temperature fluctuations.

Easy Installation

- R410a System
- Two-way Draining: Features a Drainage hose on the left and right sides of the indoor unit.
- The vertical condensing unit is an excellent space-saving solution thanks to its compact size.
- Electric Heat Kit: 8kw, 10kw, 15kw and 20kw Available



Smart Connectivity

The SDi heat pump is equipped with the Ecoer Smart IoT Gateway System, which allows maintenance professionals to monitor and maintain the system for optimal performance and safety. The ESS Pro APP integrates with the Gateway to diagnose system faults and provide solutions more quickly.



The Gateway also has the ability to self-diagnose any system malfunctions and generate error codes through its 24V or R485 connections to the heat pump system.

If the temperature sensor detects an emergent error, the SDi system will automatically inform the contractor for an on-site visit check if necessary.

Premium Comfort

- The air handler keeps the indoor temperature fluctuation within $\pm 1^\circ\text{F}$, providing year-round comfort.
- The anti-cold air feature eliminates cold under heating mode.
- Fast Cool/Heat Function: Enjoy cooling and heating in seconds.
- Auto Defrost: Prevents the outdoor unit from freezing up when abnormal operation or parts fail to protect the system.



A Reliable System

- Gold Fin Protection: gold coating on the condenser to prevent bacteria growth from salty air, rain, and other corrosive elements.
- Fireproof Electric Box: prevent internal fire caused by electric spark

Warranty

10-year limited warranty on parts

- For full details on the warranty terms and conditions: visit www.ecoer.com
- Required to be qualified for local regulations and HVAC standard.

Up to 10-Year Labor Warranty

- Ecoer SDi Systems come with life-time IoT monitoring and a 10-year Labor Warranty. (Gateway and thermostat are required)
- Please ask your local Ecoer contractor for details.



Ecoer, Inc. is a Finalist in AHR Expo's Innovation Award

Ecoer, Inc. was recognized as a finalist in the Heating category of the AHR Expo's Innovation Awards for 2021 for their innovative Home Comfort Systems with IoT Technology. This annual competition, hosted 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 categories such as 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

Dulles, Virginia - 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.

