ecoer
Comfort . Perfected.

R454b



ABOUT Ecoer SDi Extreme 2

Engineered for extreme cold and straightforward installation - the Ecoer SDi Extreme 2 delivers simple, flexible inverter performance without complexity.

Extreme Cold-Climate Heating

·Reliable down to -22°F – dependable winter performance in the harshest climates.

·Up to 105.4% capacity at 5°F – exceptional output, less auxiliary heat.*

·Enhanced defrost control – minimizes unnecessary defrost operation to maximize heating delivery.

Contractor-Friendly Compatibility

·Standard 24V thermostat control – works with conventional thermostats you already stock.

·Universal matching – pairs with existing indoor units. No full system replacement needed.

Inverter-Driven Precision

·Variable-speed compressor – ultra-quiet operation, fewer complaints.

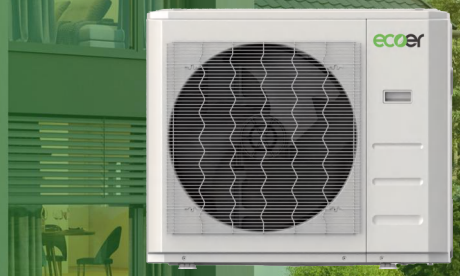
·Electronic Expansion Valve (EEV) – self-adapting, less on-site tuning.

Compact Side-Discharge Design

·Smaller footprint – fits tight spaces.

·Side-discharge airflow – resists snow and leaf buildup, fewer callbacks.

*105.4% capacity at 5°F depends on specific system combination. All efficiency ratings are system-dependent.





Precise Indoor Comfort Control

·Constant airflow ECM motor – steady airflow, regardless of duct static pressure.

·Dehumidification mode – better humidity control in humid climates.

·Temperature stability within ±1°F – consistent comfort year-round.

·Anti-cold-airflow control – no cold drafts during startup.

Multi-Position & Multi-Voltage Flexibility

·Vertical and horizontal installation – fits both configurations.

·Dual-voltage compatibility – standard 208/230V with optional 115V field conversion.

Durable & Service-Friendly Design

·All-aluminum heat exchanger – extended lifespan and superior corrosion resistance.

·Electric heat kit options – available from 5 kW to 20 kW.

Condensing Unit Dimensions (inch)			
Models	**W**	**H**	**D**
ESCA17H-36ABA	38.58 [980]	38.58 [980]	16.34 [415]
ESCA17H-60ABA	37.48 [952]	52.48 [1333]	16.34 [415]

Air Handler Dimensions			
Models	**W**	**H**	**D**
EAHDEC-36ABA	21.02 [534]	49.02 [1245]	21.02 [534]
EAHDEC-60ABA	21.02 [535]	52.99 [1346]	24.49 [622]



AHRI Rating

AHRI Ref. #	Outdoor Unit Model	Indoor Unit Model	Cooling Capacity	EER2	SEER2	Heating Capacity (47F)	HSPF2	Heating Capacity (5F)	COP (5F)	ENERGY STAR ® Certified
216980949	ESCA17H-36ABA	EAHDEC-36ABA	35000	11.7	17.4	37000	10.3	39000	1.9	Yes
216980950	ESCA17H-60ABA	EAHDEC-60ABA	54000	10	16	56000	9	52000	1.9	/

Ecoer SDi Extreme 2

Model	ESCA17H-36ABA EAHDEC-36ABA	ESCA17H-60ABA EAHDEC-60ABA
Capacity		
Cooling Capacity (BTU)	36000	54000
Heating Capacity (BTU)	37000	56000
Operation limit		
Cooling operation range	-22~122°F	-22~122°F
Heating operation range	-22~75°F	-22~75°F
Compressor		
Capacity(W)	12000	13985
Input Power(W)	3265	3665
Outdoor Fan Motor		
RLA	2.4	1.2
Motor speed (RPM)	800/750/650	1000/900/750/650
Indoor Fan Motor		
RLA	4.5	8.3
Output (W)	375	750
Motor speed (RPM)	1189/1083/971/865	1807/1583/1359/1136
Metering Device	EEV	
Electrical Data		
Voltage-Phase-Hz	115/208/230V-1-60	
Minimum Circuit Ampacity	Indoor 115V/(208/230V):8.0/6.0	Indoor 115V/(208/230V):14.5/11.0
	Outdoor: 29	Outdoor: 40
Max. Over-current Protection	Indoor 115V/(208/230V):8.0/6.0	Indoor 115V/(208/230V):14.5/11.0
	Outdoor: 29	Outdoor: 40
Condenser Decibels (dB)	62.5	65
Weight		
Net Weight (lbs)	Indoor: 129.41	Indoor: 162.92
	Outdoor:204.15	Outdoor:242.95
Ship Weight (lbs)	Indoor: 153.88	Indoor: 190.92
	Outdoor: 235.23	Outdoor: 275.13

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