

EXINDA Flex Air-Cooled 2-Pipe Heat pump chiller

Rated Cooling Capacity: 35 Ton
Rated Heating Capacity: 40 Ton

Model No. : FBMBHTF4B2C5

EXINDA Flex Air-Cooled 2-Pipe Heat Pump Chiller is designed to provide chilled water for cooling or hot water for heating through a reversible hydronic system.



FEATURES

- Equipped with independent heating/cooling exchangers and low-GWP refrigerant R-454B (A2L) for environmental compliance.
- EVI DC inverter scroll compressors are applied to improve low-ambient heating performance and support operation down to -13°F ambient, subject to stated operating limits.
- Smart freeze protection auto-activates during shutdown or standby.
- Intelligent defrost control is designed to optimize defrost timing and reduce supply temperature fluctuation during low-ambient heating operation.
- Modular design compatible with up to 16 units in cascade for capacity flexibility and minimal footprint.
- Silent acoustic configurations available to reduce noise in sensitive applications.

Technical Data

Item	Specification
Model	FBMBHTF4B2C5
Refrigerant Type	R-454B (A2L)
Refrigerant Circuits	2
Refrigerant Charge per Circuit	25.8 lbs
Compressor Type / Quantity	DC Inverter EVI Scroll / 2
Capacity Step	Stepless (inverter)
Air-Side Heat Exchanger	Copper tube, aluminum plate fin
Fan Type / Quantity	Axial fan, EC inverter motor / 2
Total Air Flow Rate	26,600 CFM
Working Ambient Temp (Cooling)	-4 °F to 110 °F
Working Ambient Temp (Heating)	-13 °F to 100 °F
Max Leaving Water Temp (Heating) -4°F or above	140 °F
Max Leaving Water Temp (Heating) -13 °F to -4°F	130 °F
Water-Side Heat Exchanger	Plate heat exchanger
Water Connection	2-1/2 in. Victaulic Connections
Nominal Water Flow Rate (Cooling)(1)	92 gpm
Nominal Water Flow Rate (Heating)(2)	106 gpm
Pressure Drop (Cooling)(1)	15.1 ftH ₂ O
Pressure Drop (Heating)(2)	17.1 ftH ₂ O
Working-Range Leaving-Water Temp (Cooling)	14 °F to 68 °F
Working-Range Leaving-Water Temp (Heating)	77 °F to 140 °F

Electrical Data

Item	Specification
Voltage / Phase / Frequency	460 V / 3 Ph / 60 Hz
Minimum Circuit Ampacity (MCA)	111.6 A
Maximum Overcurrent Protection (MOP)	139 A
Rated Load Amps (RLA)	74 A
Full Load Amps (FLA)	89.3 A
Recommended Circuit Breaker	125 A

Performance Data

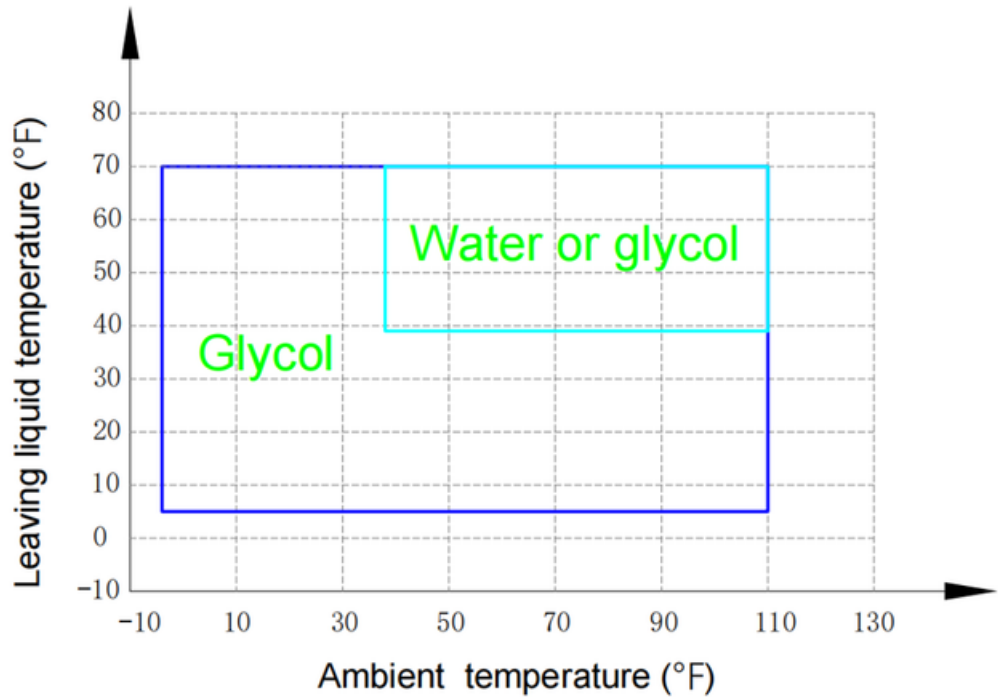
Cooling Mode (A95°F, EWT/LWT 54°F/44°F) (1)	
Nominal Cooling Capacity (Ton)	35
Input Power (kW)	42.2
EER (BTU/W)	10
Heating mode (A47°F/43°F,W105°F) (2)	
Heating Capacity (Ton)	38
Input Power (kW)	38.7
COP (kW/kW)	3.45

Dimensions and Weight

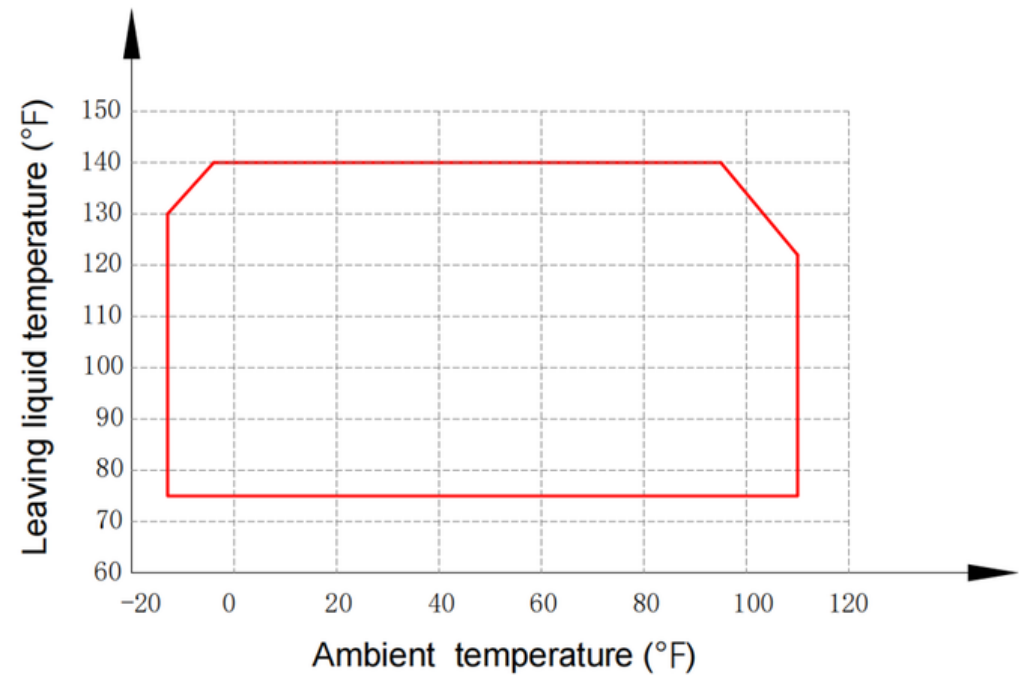
Item	Specification
Dimensions (L × W × H)	89 in × 53-1/8 in × 95-9/16 in
Net Weight	2,250 lbs
Shipping Weight	2,770 lbs

Operation Envelope

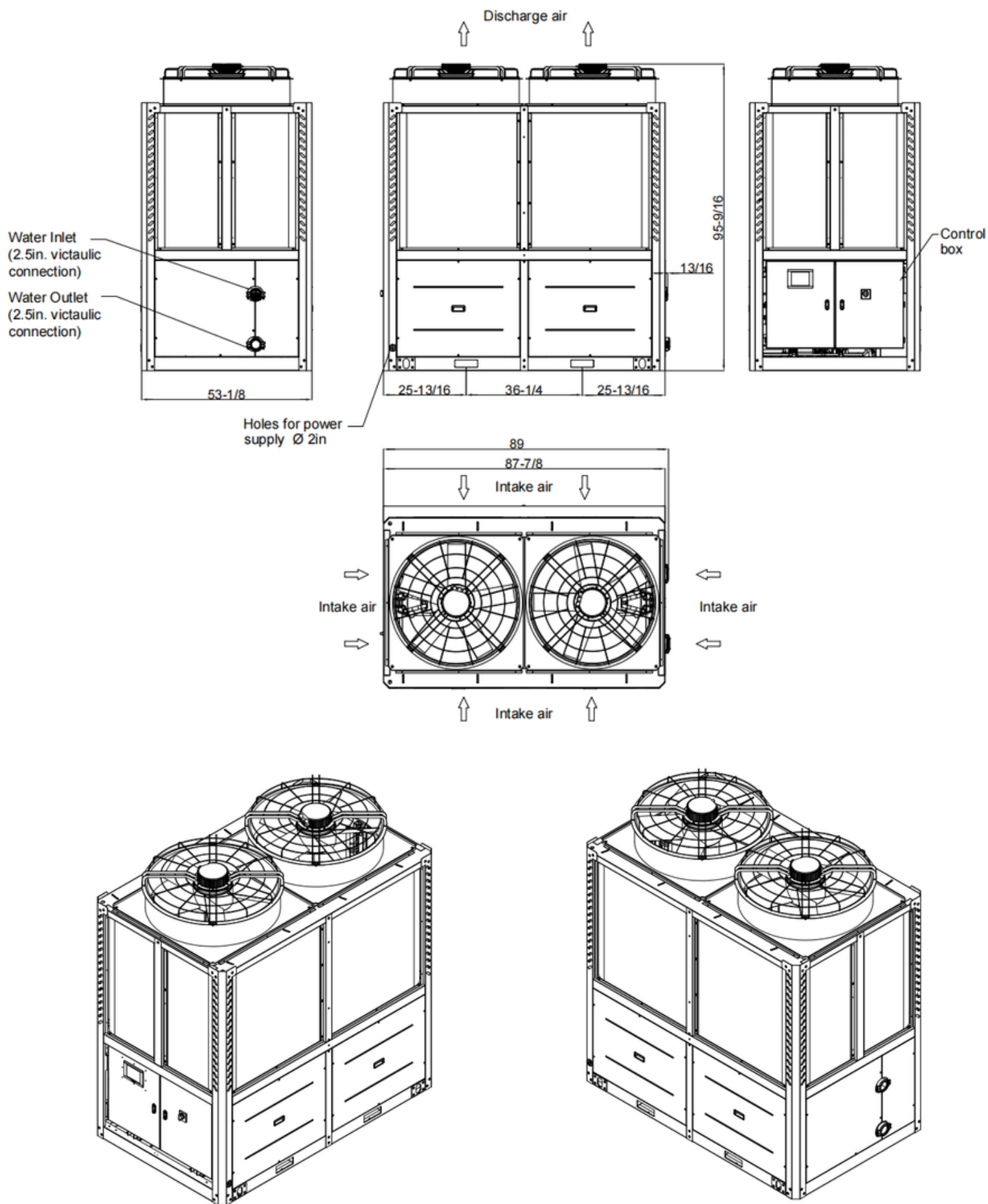
Cooling operation envelope



Heating operation envelope



Mechanical drawing



Unit: inch