

Cold Climate Heat Pump Water Heater

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 Fax: 914-668-5643  
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**www.ice-air.com**

# ccHPWH Series

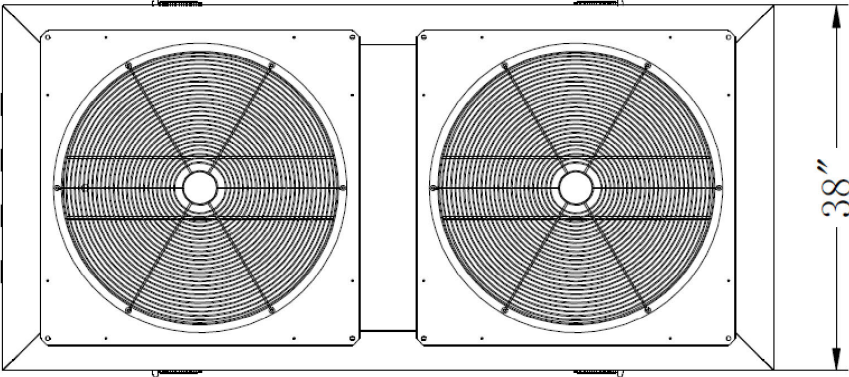
Ice Air's cold climate heat pump water heaters capture the free energy in the environment and convert it to hot water. These commercial water heaters are designed to provide domestic hot water to large buildings on the coldest days.

- Industry leading performance
  - Lower cost of operation and maintenance compared to condensing gas-fired water heaters
  - 4x more efficient compared to electric resistance heaters
- Multiple independent circuits provide built-in redundancy
- Double wall heat exchangers ensure occupant safety
- Optional single wall heat exchangers (for glycol applications)
- Freeze protection standard
- Optional heat-trace powered by building emergency power
- Clean out ports to remove sediment or lime deposits

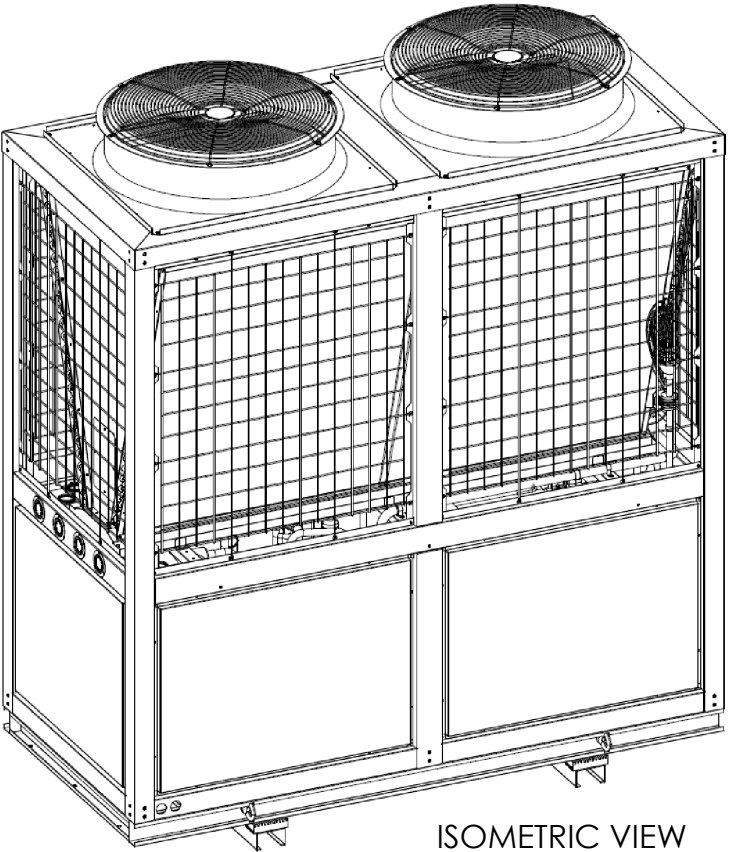


Model Numbers			ccHPWH275-SC	ccHPWH550-SC
Performance Specifications	Input Power		208-230V/3Ph/60Hz	208-230V/3Ph/60Hz
	Refrigerant Circuits		2	4
	Refrigerant / Quantity		R454b (30.8 Lbs / 15.4 Lbs per circuit)	R454b (61.7 Lbs / 15.4 Lbs per circuit)
	Max H/W Temperature		140°F	140°F
	Dry Bulb Temperature (95°F) Inlet Water Temperature (55°F) Outlet Water Temperature (45°F)	Cooling Capacity (Btu/H)	224,100	410,400
		Input Power(kW)	17.9	33.8
		COP	3.63	3.54
	Dry Bulb Temperature (45°F) Wet Bulb Temperature (43°F) Inlet Water Temperature (105°F) Outlet Water Temperature (115°F)	Heating Capacity (Btu/H)	280,100	512,900
		Input Power(kW)	21.3	39.8
		COP	3.84	3.76
	FLA (A)		119.4	238
	MCA (A)		133.3	251.9
	MOCP (A)		175	300
	Sound Level (dBA)		≤71	≤76
Water Data	Condenser Type		Single Wall Brazed Plate HXR	Single Wall Brazed Plate HXR
	Water Side Pressure Loss (psig)		8.1	7.25
	Rated Water Flow (GPM) (DB/WB:45°F/43°F,Inlet/outlet: 104°F/113°F)		73.4	129.6
	Max Working Pressure (psig)		230	230
	Piping Position		Rear	Rear
	Piping Sizes		2"(DN50)	3"(DN80)
	Minimum Ambient Operating Temperature (°F)		-13	-13
Overall Dimensions [L x W x H] (inches)		81 x 39 x 89	95 x 51 x 89	
Net Weight (Lbs)		1,500	2,850	

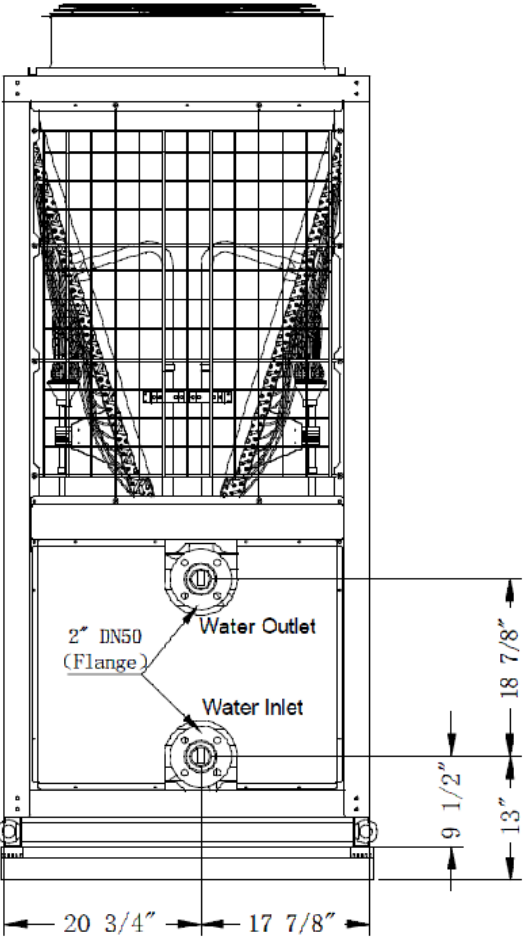
REVISIONS			
REV.	DESCRIPTION	BY	DATE



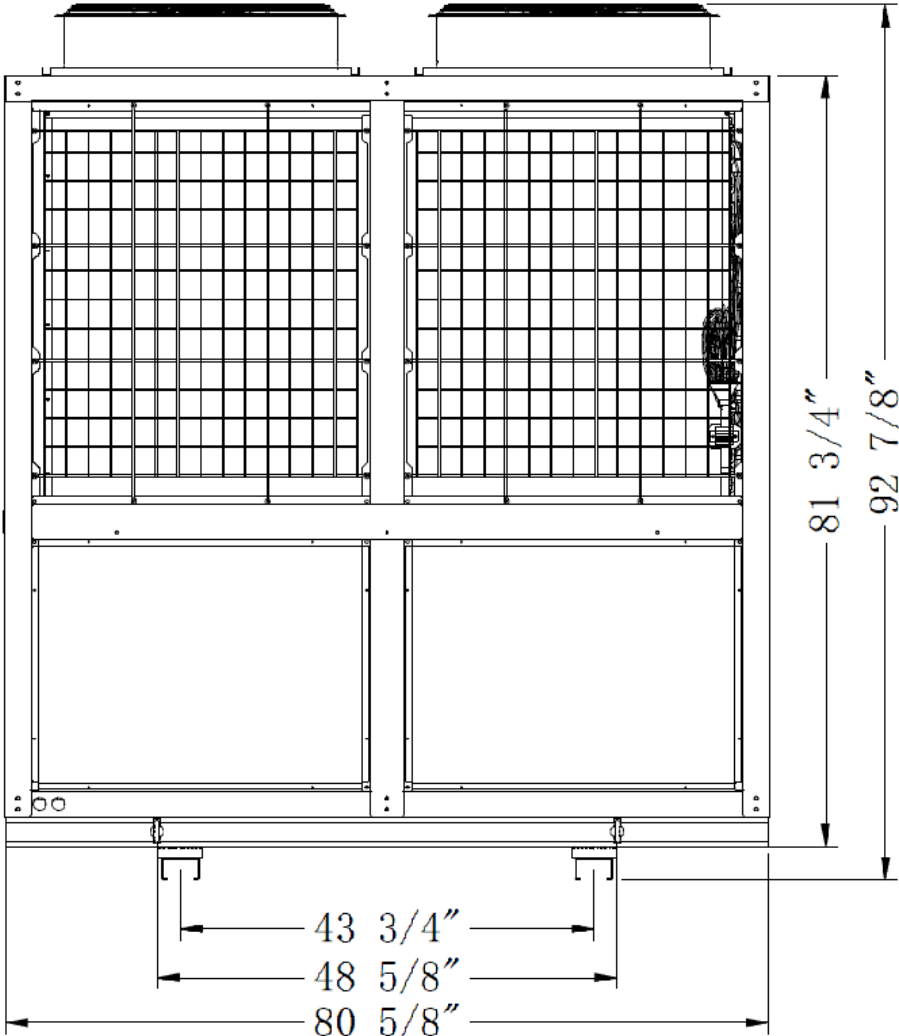
TOP VIEW



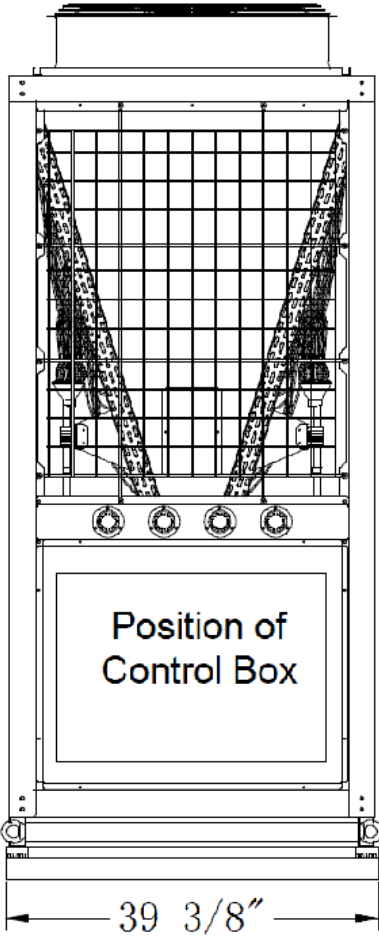
ISOMETRIC VIEW



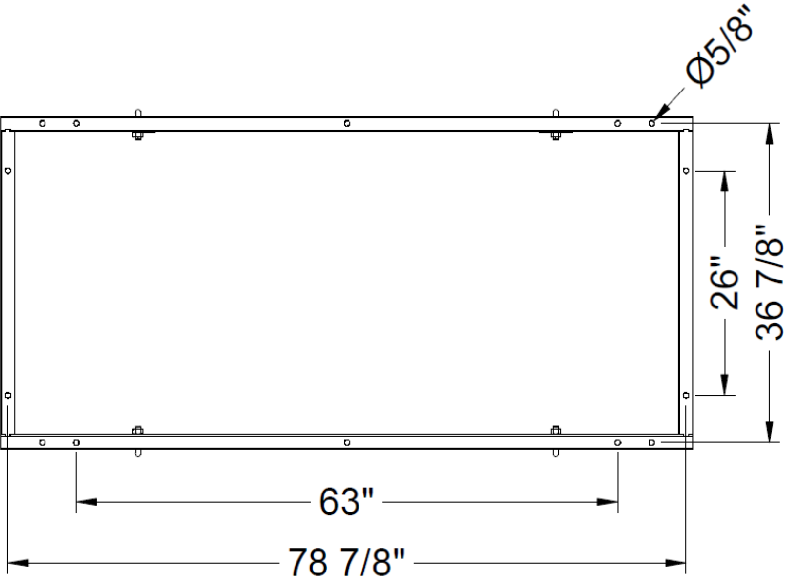
LEFT VIEW



FRONT VIEW



RIGHT VIEW



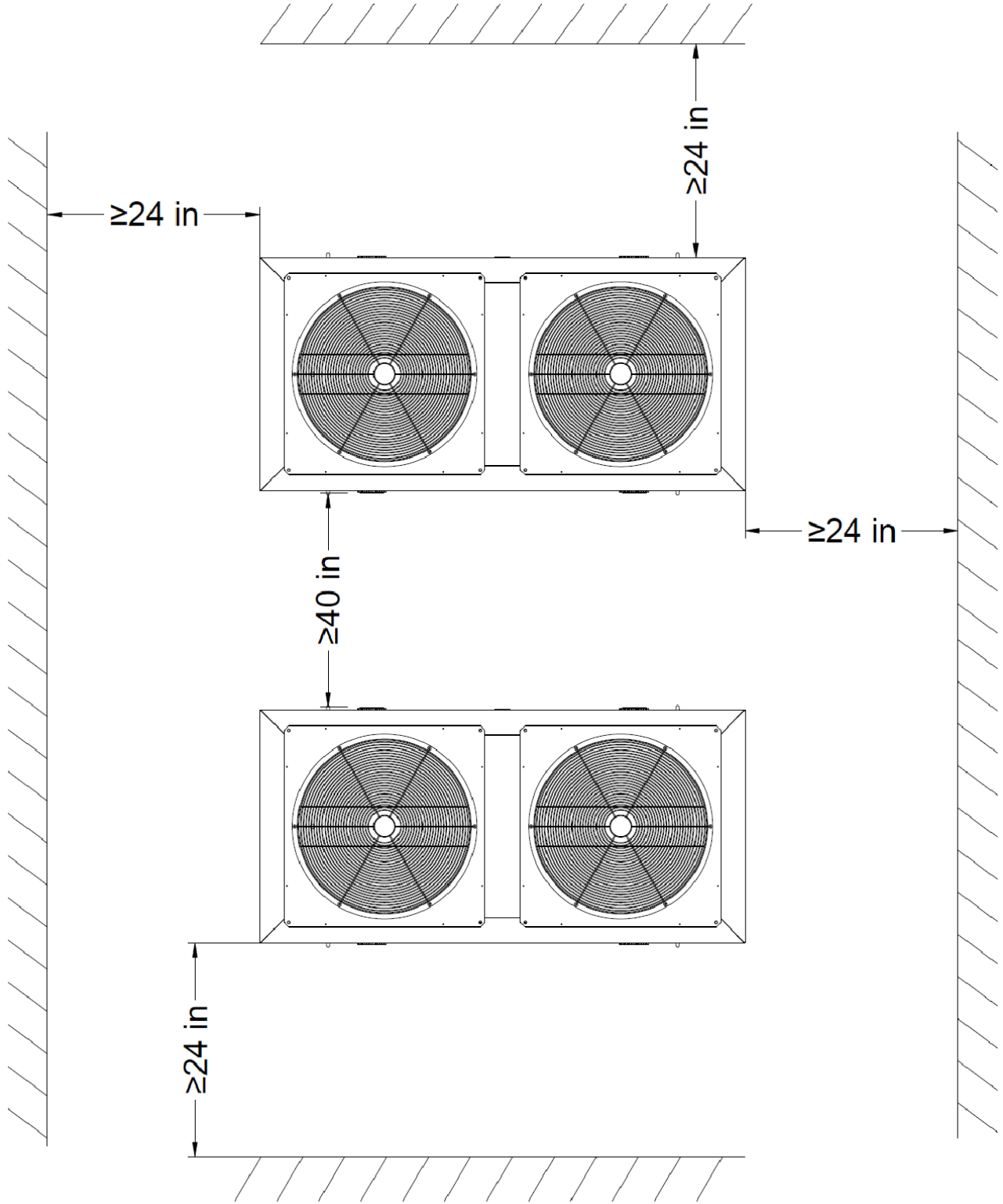
Bottom Mounting Hole Position

MATERIAL:	ICE-AIR LLC. 80 HARTFORD AVENUE MOUNT VERNON, NY 10553					
WEIGHT (LBS):						
FINISH:	TITLE: cCHPWH275 Dimensional Drawing					
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/32 ANGULAR: MACH ± ° BEND ± 1 ° TWO PLACE DECIMAL ± .03 THREE PLACE DECIMAL ± .015	MODEL BY:		DATE:		DWG. NO. cCHPWH275 DWG	
	DRAWING BY: JL		DATE: 11/24/20			
	SIZE B		SCALE: NONE DO NOT SCALE DRAWING		SHEET 1 OF 2	REV

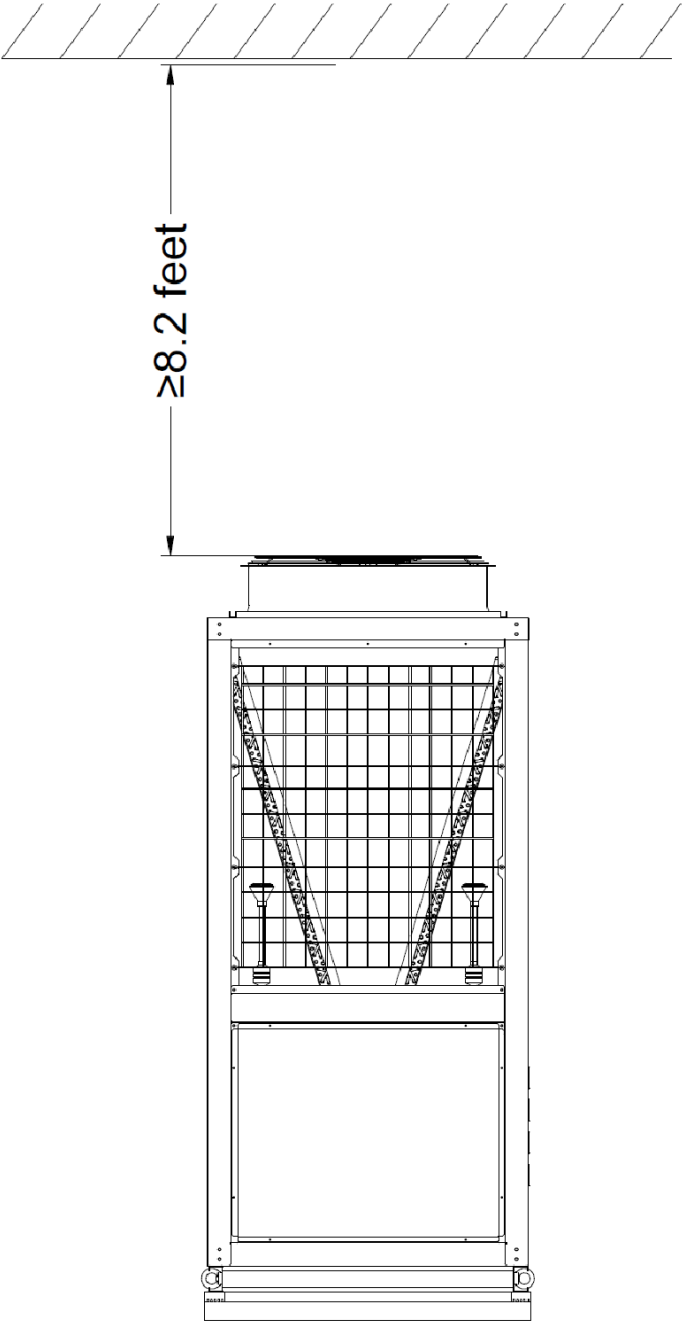
Third Angle Projection

**PROPRIETARY AND CONFIDENTIAL**  
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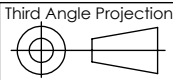
REVISIONS			
REV.	DESCRIPTION	BY	DATE



NOTE MAINTENANCE CLEARANCE: 40 INCHES FROM UNIT TO UNIT



NOTE AIRFLOW CLEARANCE: 8.2 FEET FROM A CEILING

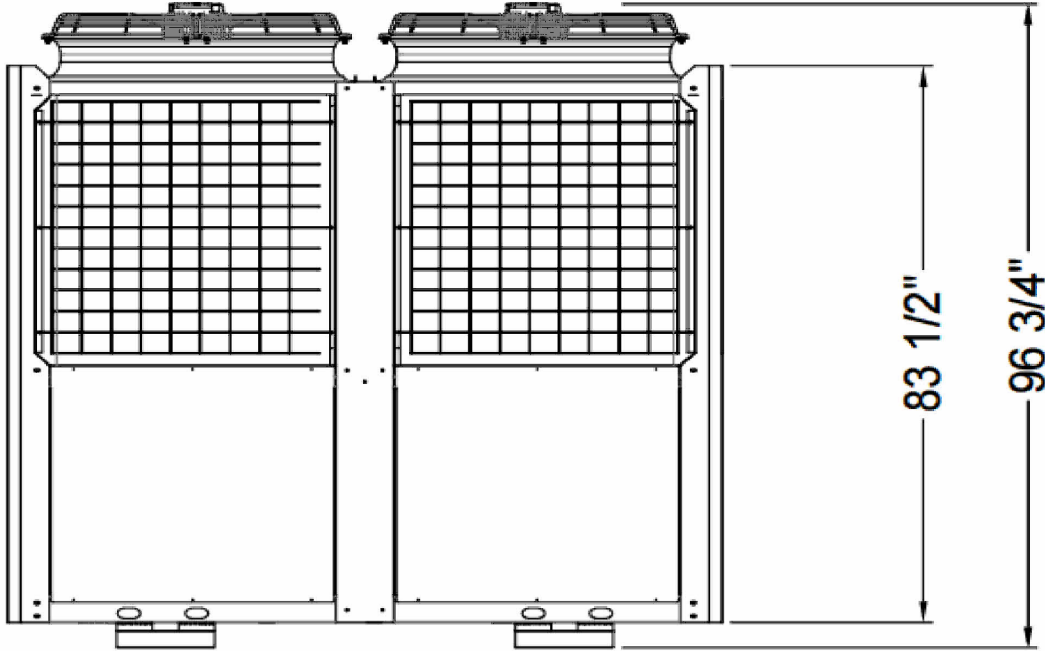


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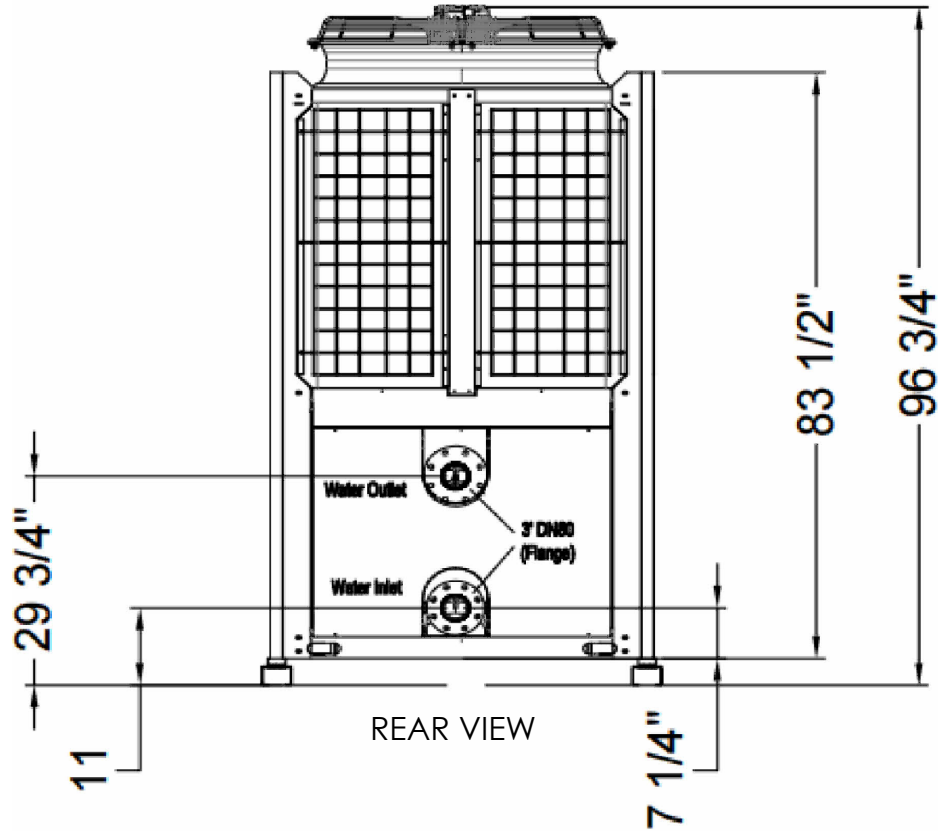
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WEIGHT (LBS):							
FINISH:	TITLE: cCHPWH275 Dimensional Drawing						
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/32 ANGULAR: MACH ± ° BEND ± 1 ° TWO PLACE DECIMAL ± .03 THREE PLACE DECIMAL ± .015	MODEL BY:		DATE:		DWG. NO. cCHPWH275 DWG		
	DRAWING BY: JL		DATE: 9/29/21				
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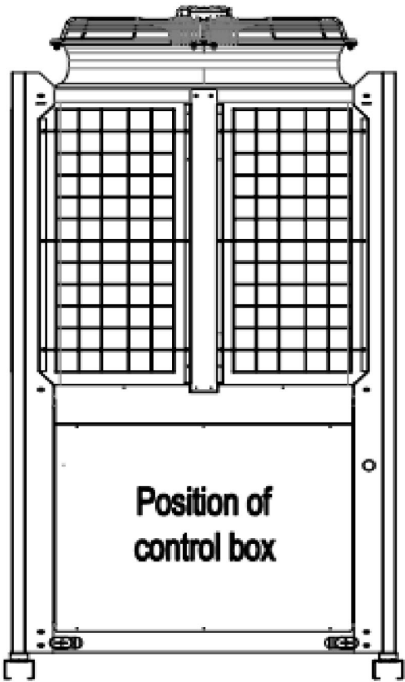
REVISIONS			
REV.	DESCRIPTION	BY	DATE



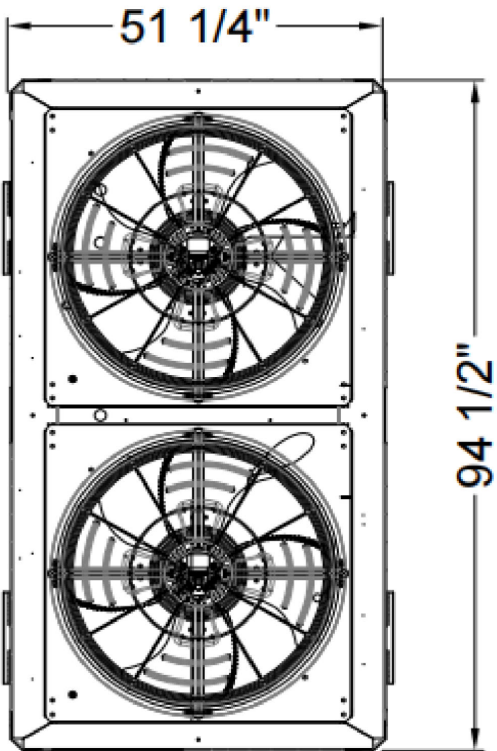
LEFT VIEW



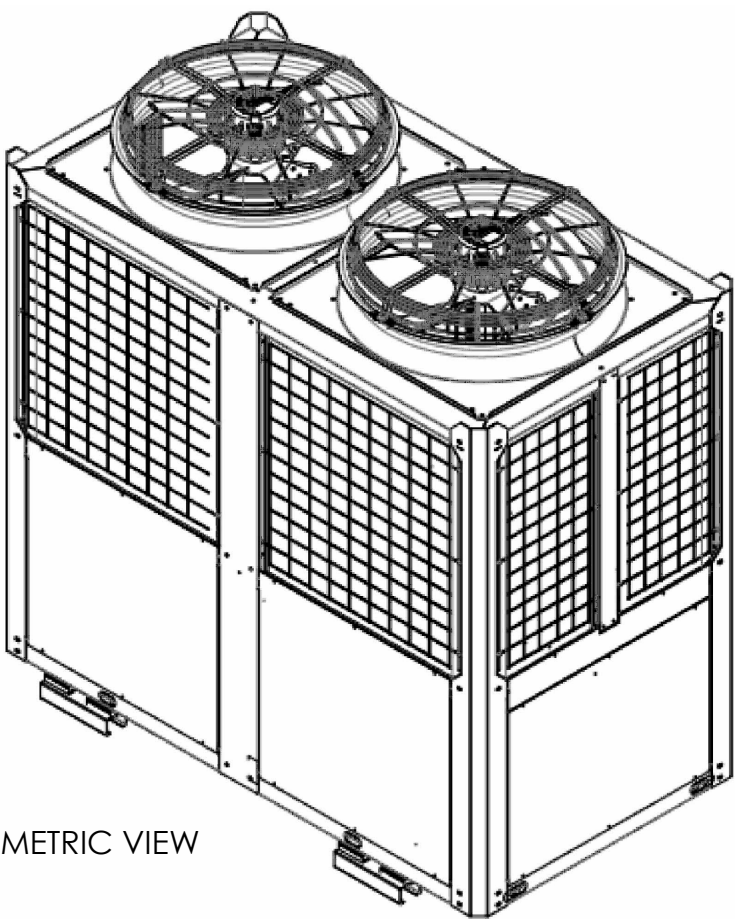
REAR VIEW



FRONT VIEW



TOP VIEW



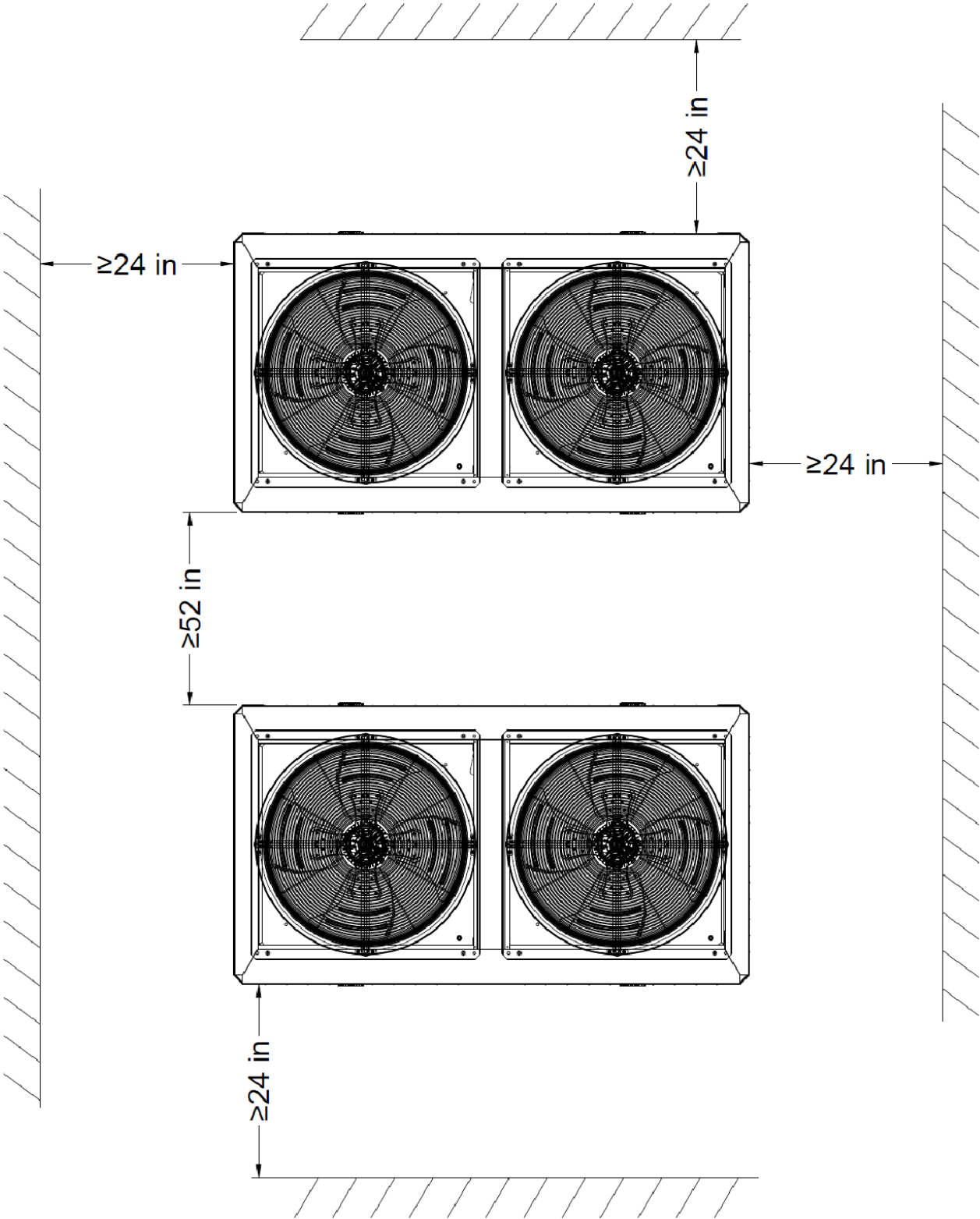
ISOMETRIC VIEW

MATERIAL:	ICE-AIR LLC. 80 HARTFORD AVENUE MOUNT VERNON, NY 10553				
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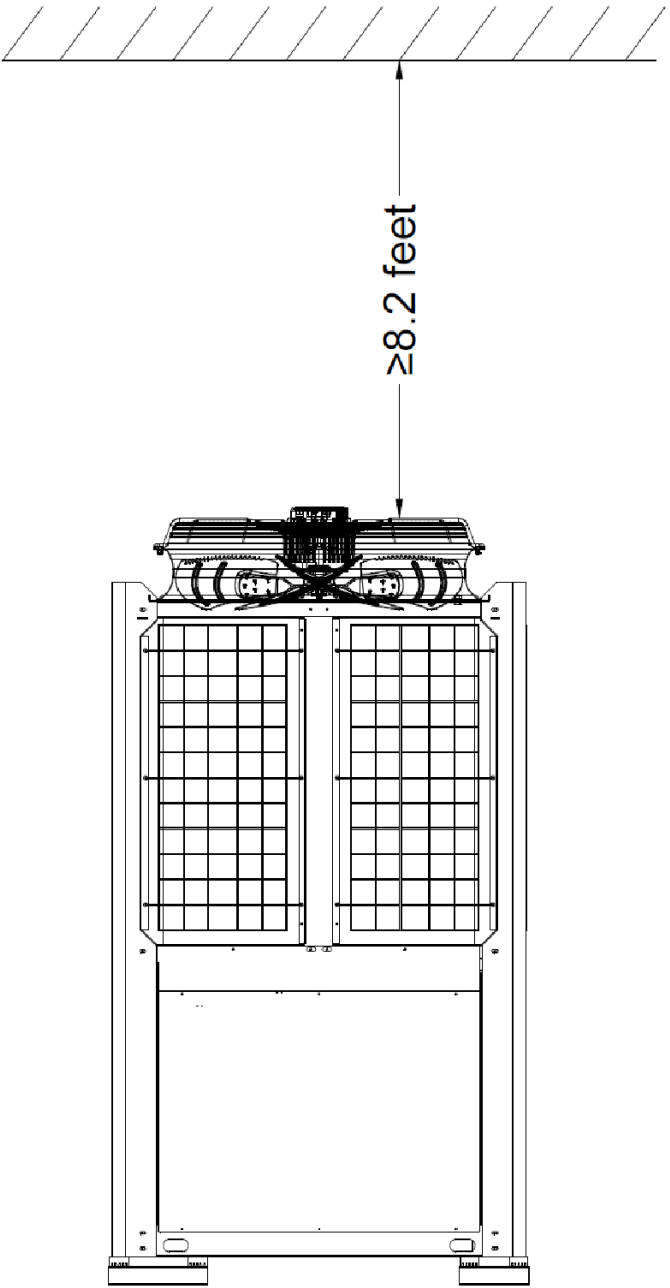
Third Angle Projection

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REVISIONS			
REV.	DESCRIPTION	BY	DATE

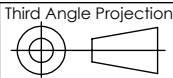


NOTE MAINTENANCE CLEARANCE: 52 INCHES FROM UNIT TO UNIT



NOTE AIRFLOW CLEARANCE: 8.2 FEET FROM A CEILING

MATERIAL:	ICE-AIR LLC. 80 HARTFORD AVENUE MOUNT VERNON, NY 10553				
WEIGHT (LBS):					
FINISH:	TITLE: ccHPWH550 Dimensional Drawing				
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/32 ANGULAR: MACH ± ° BEND ± 1 ° TWO PLACE DECIMAL ± .03 THREE PLACE DECIMAL ± .015	MODEL BY:		DATE:		DWG. NO.
	DRAWING BY: JL		DATE: 9/29/21		ccHPWH550 DWG
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	B	DO NOT SCALE DRAWING			
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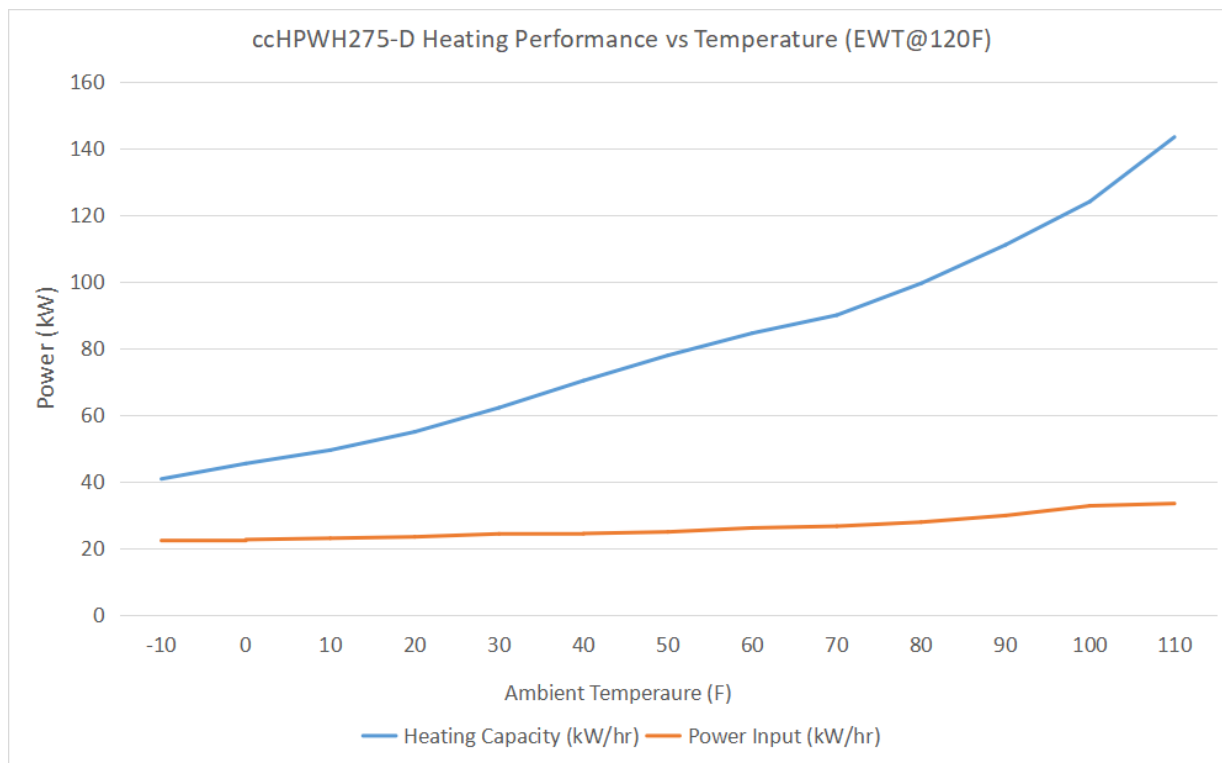
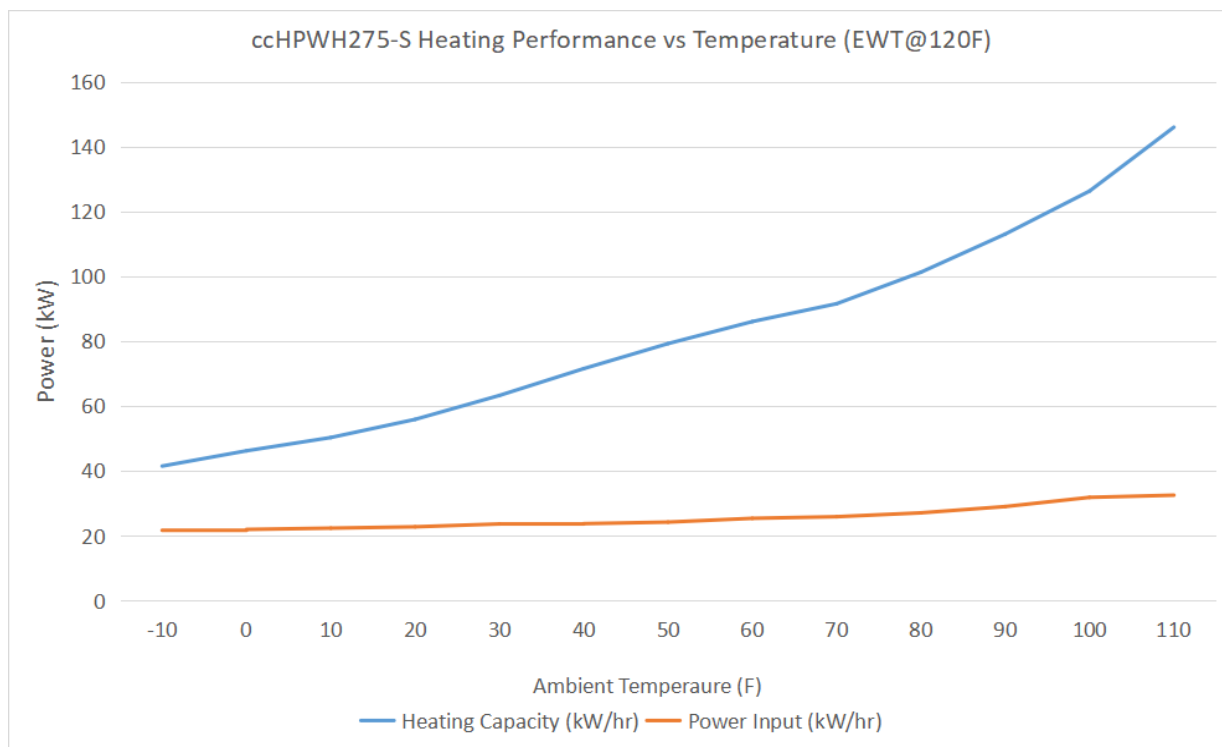


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# COLD CLIMATE HEAT PUMP DOMESTIC HOT WATER HEATER CERTIFIED DRAWING

DWG. NO.  
cCHPWH-Series  
REV. - 01

## UNIT PERFORMANCE GRAPH



# COLD CLIMATE HEAT PUMP DOMESTIC HOT WATER HEATER CERTIFIED DRAWING

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