

Cold Climate Heat Pump Water Heater

ccHPWH Series

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 Mount Vernon, NY 10553
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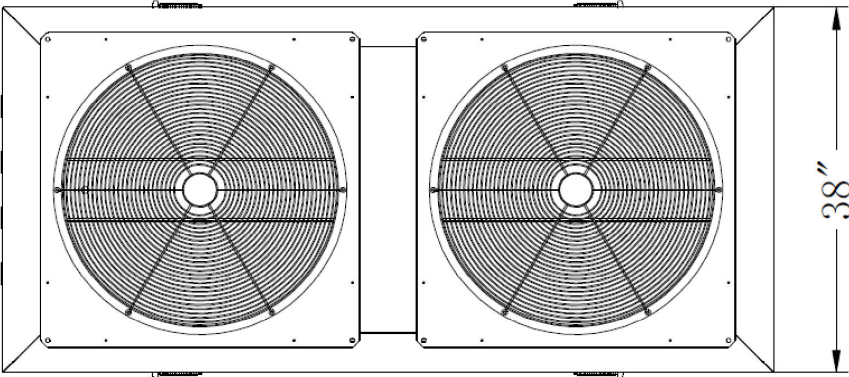
Ice Air's cold climate heat pump water heaters capture the free energy in the environment and convert it to hot water. These commercial water heater are designed to provide domestic hot water to large buildings on the coldest days.

- 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

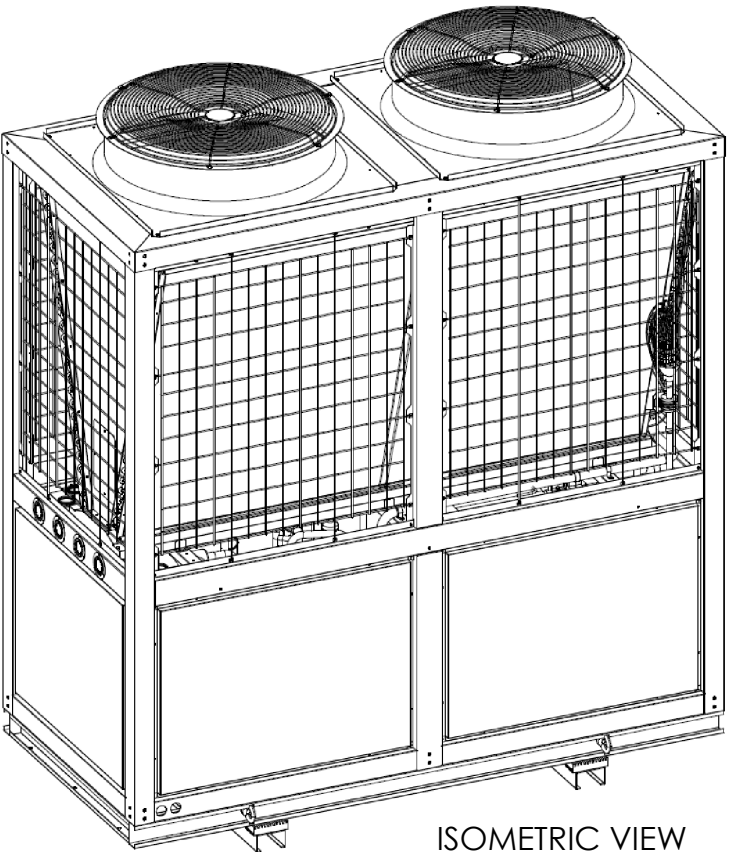


Model Numbers		ccHPWH275-D-B	ccHPWH550-D-B	ccHPWH275-S-B	ccHPWH550-S-B
Performance Specifications	Input Power	208-230V/3Ph/60Hz	208-230V/3Ph/60Hz	208-230V/3Ph/60Hz	208-230V/3Ph/60Hz
	Refrigerant Circuits	2	4	2	4
	Refrigerant / Quantity	R454b (30.8 Lbs / 15.4 Lbs per circuit)	R454b (61.7 Lbs / 15.4 Lbs per circuit)	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	140°F	140°F
	Dry Bulb Temperature (68°F) Wet Bulb Temperature (59°F) Inlet Water Temperature (59°F) Outlet Water Temperature (140°F)	Heating Capacity (Btu/H)	336,400	672,800	341,700
		Input Power(kW)	22.9	45.9	22.3
		COP	4.3	4.3	4.5
	Dry Bulb Temperature (45°F) Wet Bulb Temperature (43°F) Inlet Water Temperature (48°F) Outlet Water Temperature (140°F)	Heating Capacity (Btu/H)	271,700	543,400	275,900
		Input Power(kW)	23.4	46.8	22.8
		COP	3.4	3.4	3.55
	Dry Bulb Temperature (10°F) Wet Bulb Temperature (7°F) Inlet Water Temperature (43°F) Outlet Water Temperature (140°F)	Heating Capacity (Btu/H)	176,100	352,100	178,800
		Input Power(kW)	24.0	48.0	23.3
		COP	2.15	2.15	2.25
	FLA (A)	105.3	210.7	105.3	210.7
	MCA (A)	125.9	251.8	125.9	251.8
	MOCP (A)	150	300	150	300
	Sound Level (dBA)	≤73	≤75	≤73	≤75
Water Data	Condenser Type	Double Wall BPX	Double Wall BPX	Single Wall BPX	Single Wall BPX
	Water Side Pressure Loss (psig)	24.3	24.5	24.3	24.5
	Rated Water Flow (GPM) (DB/WB:45°F/43°F, Inlet/outlet: 104°F/113°F)	78.3	145.2	78.3	145.2
	Single pass delta-T (F) (OA_temp=68°F, LWT=140°F)	11.10	11.10	11.20	11.20
	Piping Position	Rear	Rear	Rear	Rear
	Piping Sizes	2"(DN50)	3"(DN80)	2"(DN50)	3" (DN80)
Minimum Ambient Operating Temperature (°F)		-13	-13	-13	-13
Overall Dimensions [L x W x H] (inches)		81 x 39 x 89	95 x 51 x 89	81 x 39 x 89	95 x 51 x 89
Net Weight (Lbs)		1,555	2,950	1,555	2,950

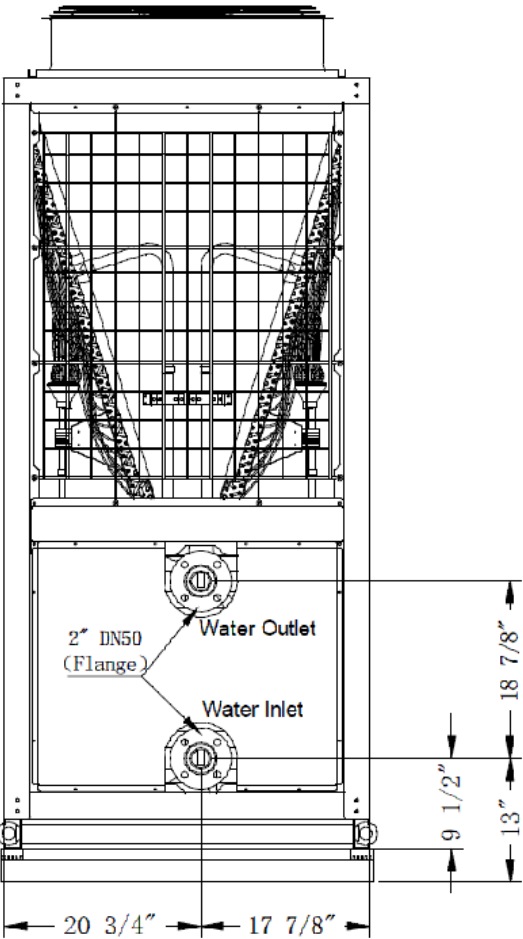
REVISIONS			
REV.	DESCRIPTION	BY	DATE



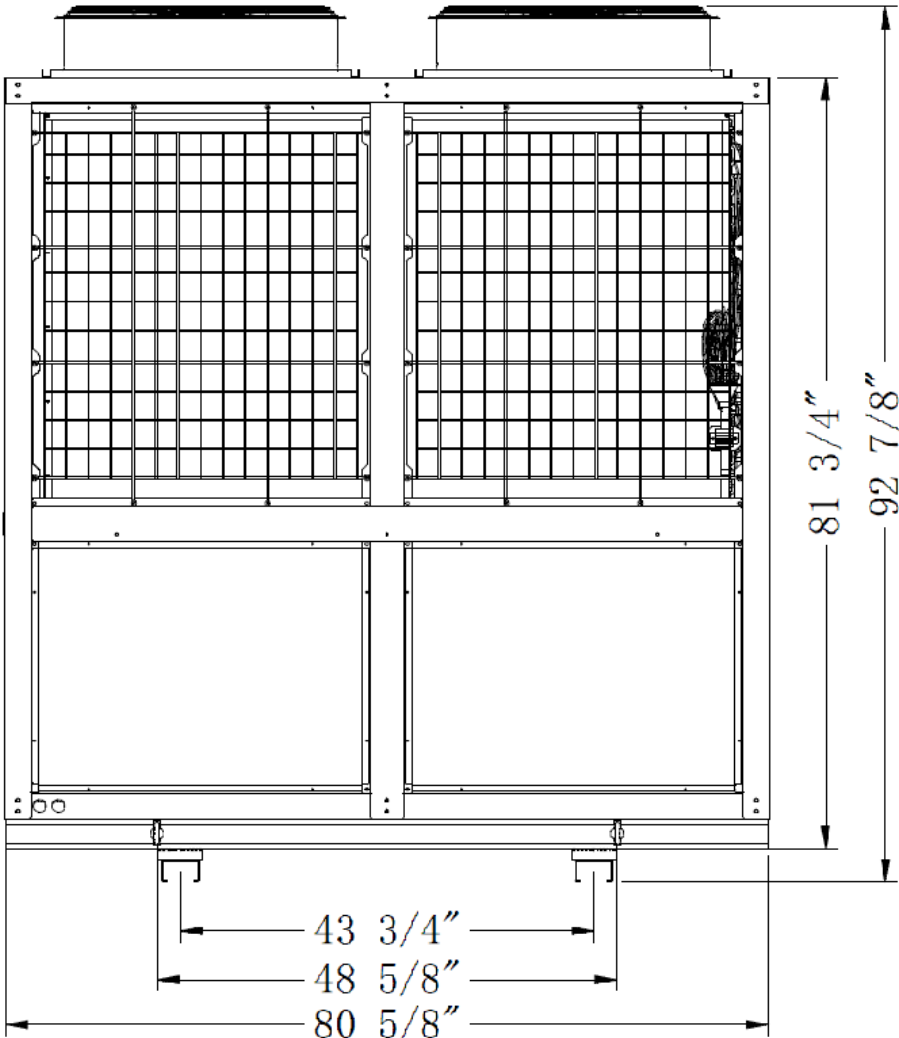
TOP VIEW



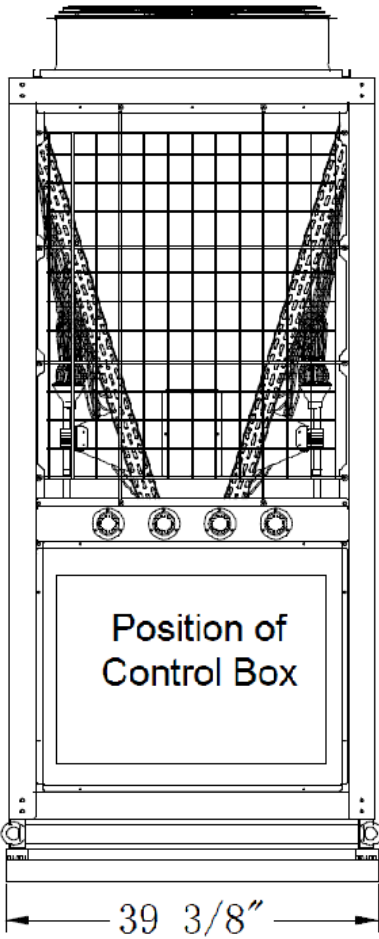
ISOMETRIC VIEW



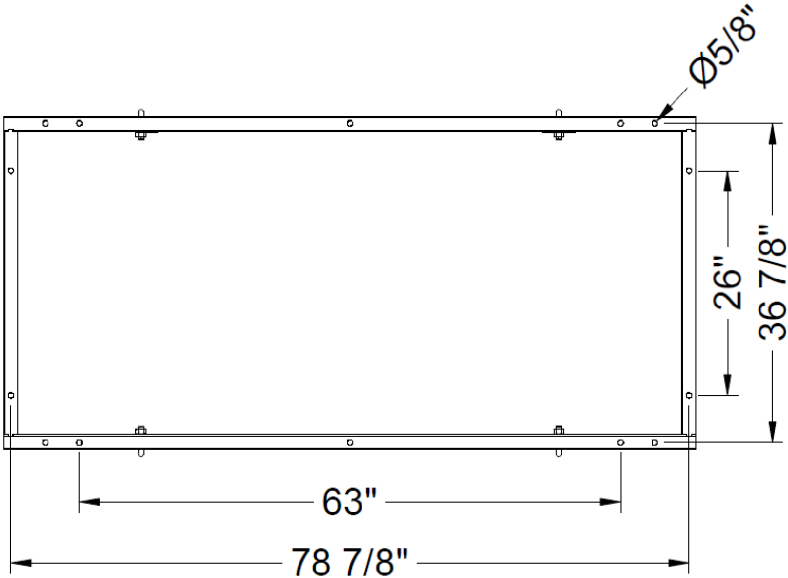
LEFT VIEW



FRONT VIEW



RIGHT VIEW



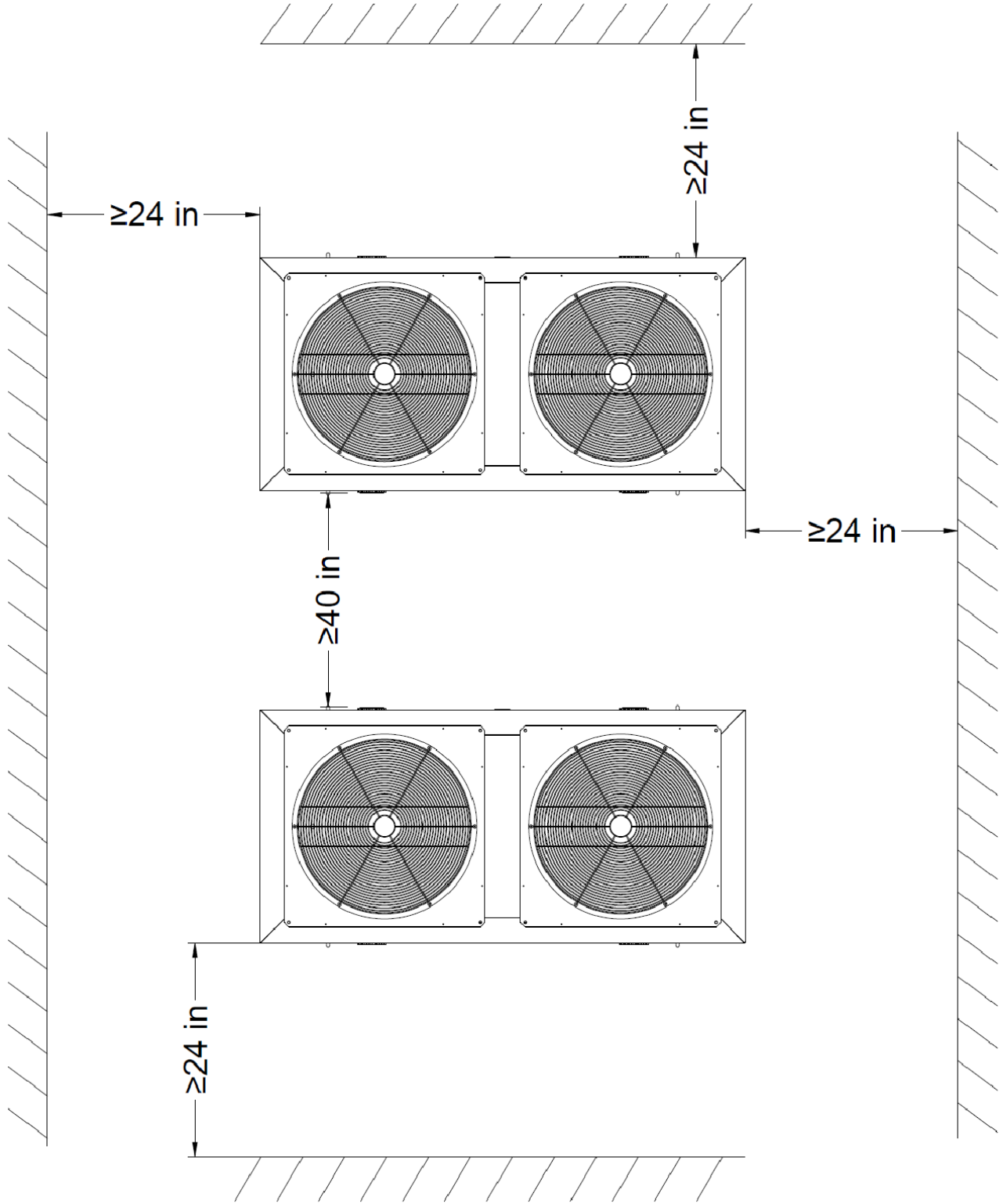
Bottom Mounting Hole Position

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

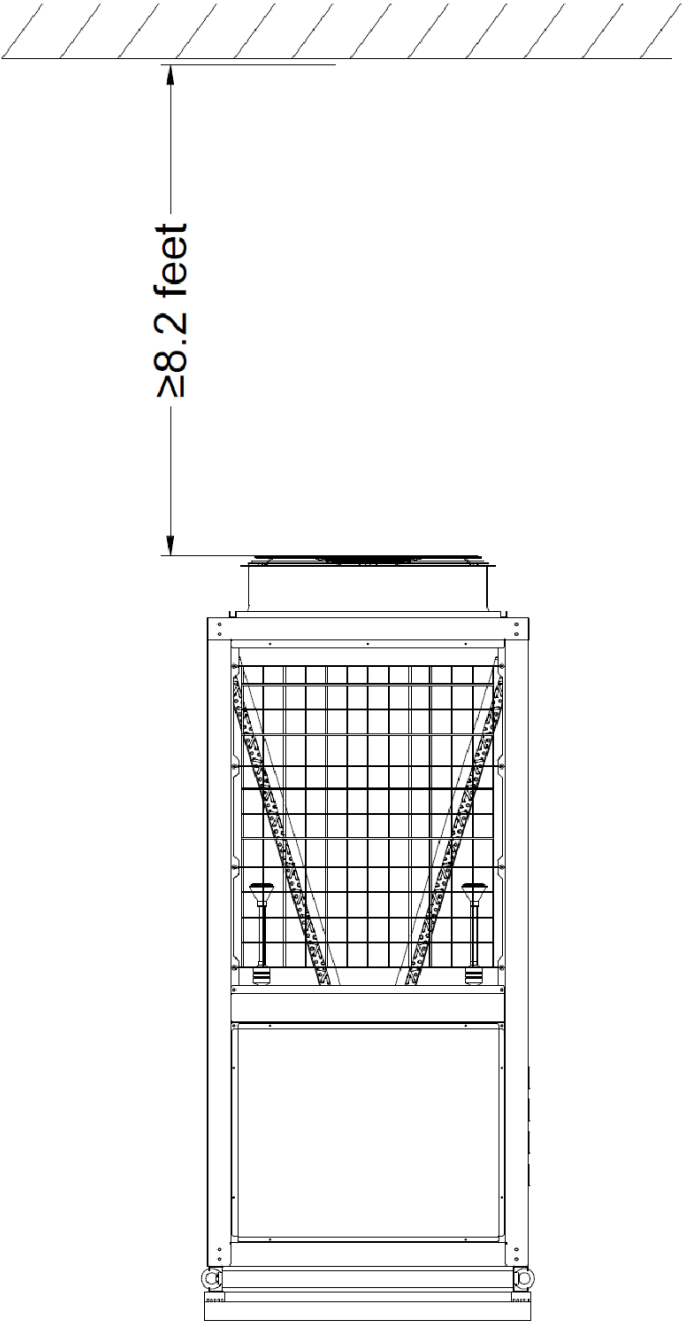
Third Angle Projection

PROPRIETARY AND CONFIDENTIAL
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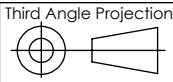
REVISIONS			
REV.	DESCRIPTION	BY	DATE



NOTE MAINTENANCE CLEARANCE: 40 INCHES FROM UNIT TO UNIT



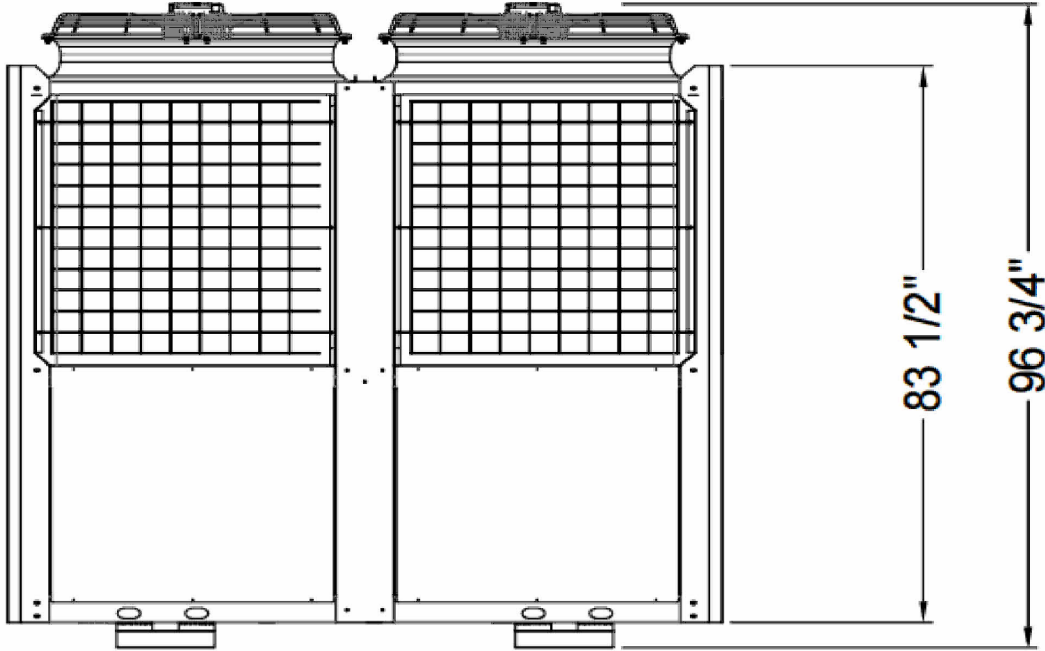
NOTE AIRFLOW CLEARANCE: 8.2 FEET FROM A CEILING



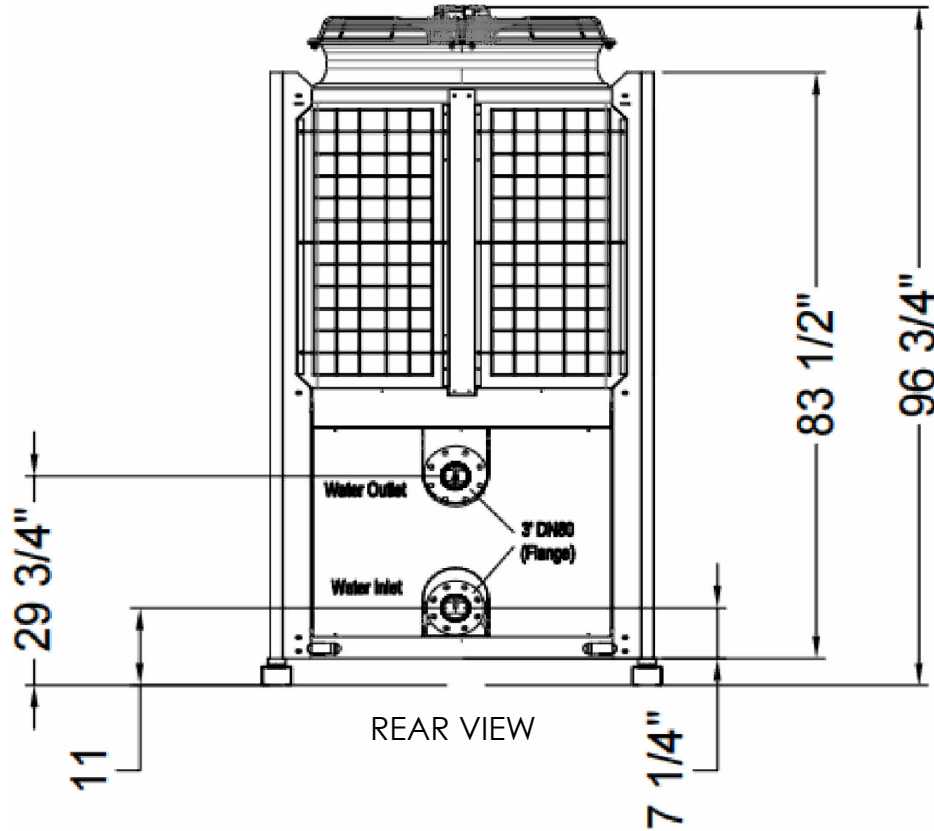
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MATERIAL:	ICE-AIR LLC. 80 HARTFORD AVENUE MOUNT VERNON, NY 10553				
WEIGHT (LBS):					
FINISH:	TITLE: cCHPWH275 Dimensional Drawing				
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/32 ANGULAR: MACH ± ° BEND ± 1 ° TWO PLACE DECIMAL ± .03 THREE PLACE DECIMAL ± .015	MODEL BY:	DATE:	DWG. NO. cCHPWH275 DWG		
	DRAWING BY: JL	DATE: 9/29/21			
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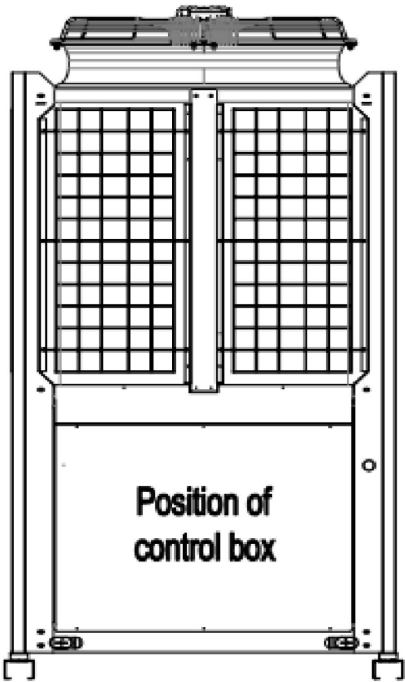
REVISIONS			
REV.	DESCRIPTION	BY	DATE



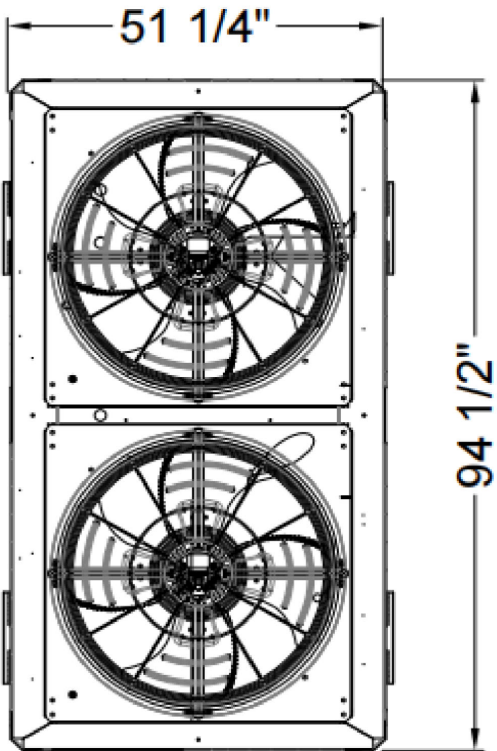
LEFT VIEW



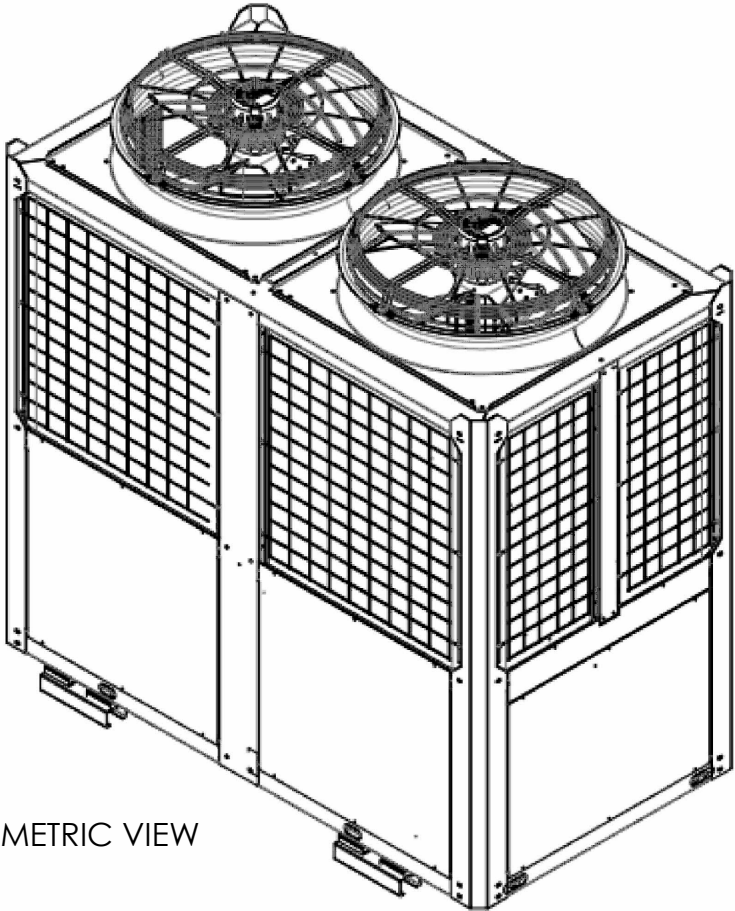
REAR VIEW



FRONT VIEW



TOP VIEW



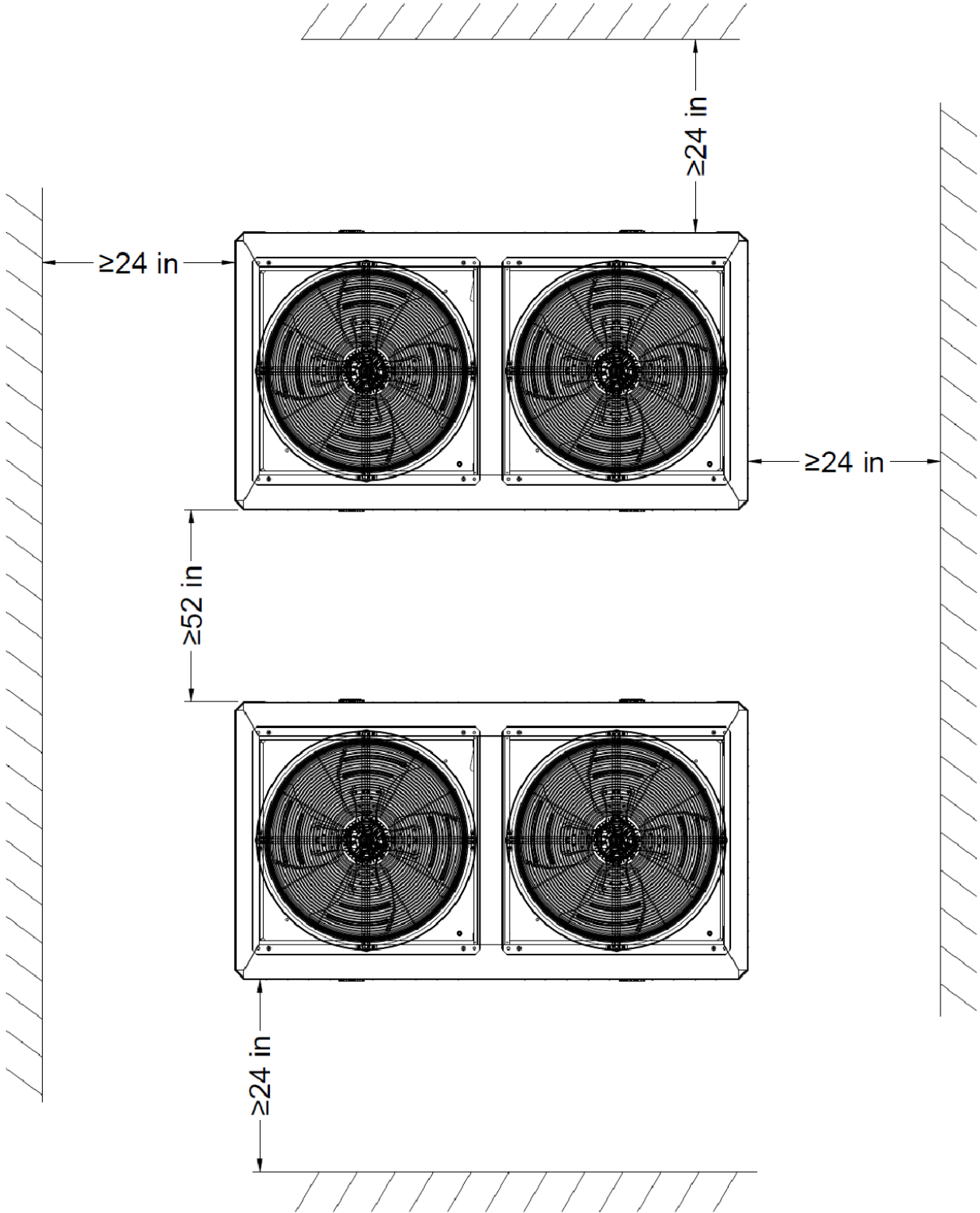
ISOMETRIC VIEW

MATERIAL:	ICE-AIR LLC. 80 HARTFORD AVENUE MOUNT VERNON, NY 10553				
WEIGHT (LBS):					
FINISH:	TITLE: cchPWH550 Dimensional Drawing				
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	DRAWING BY: JL		DATE: 9/29/21		
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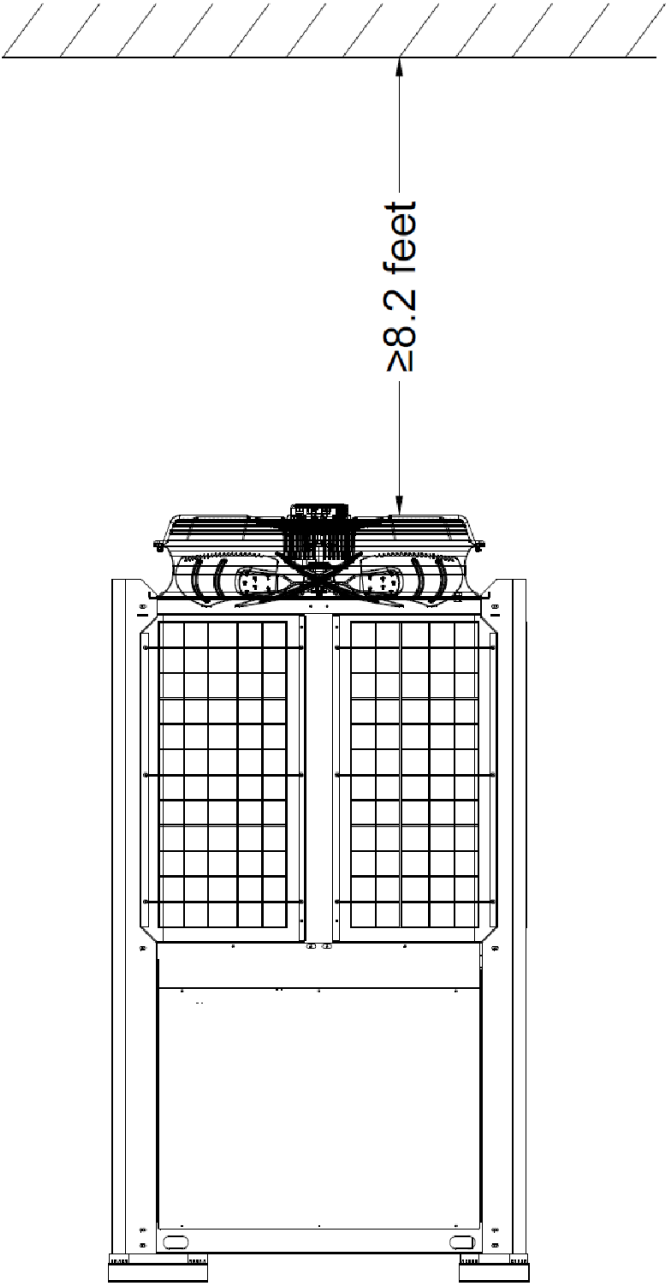
Third Angle Projection

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REVISIONS			
REV.	DESCRIPTION	BY	DATE

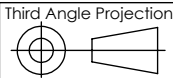


NOTE MAINTENANCE CLEARANCE: 52 INCHES FROM UNIT TO UNIT



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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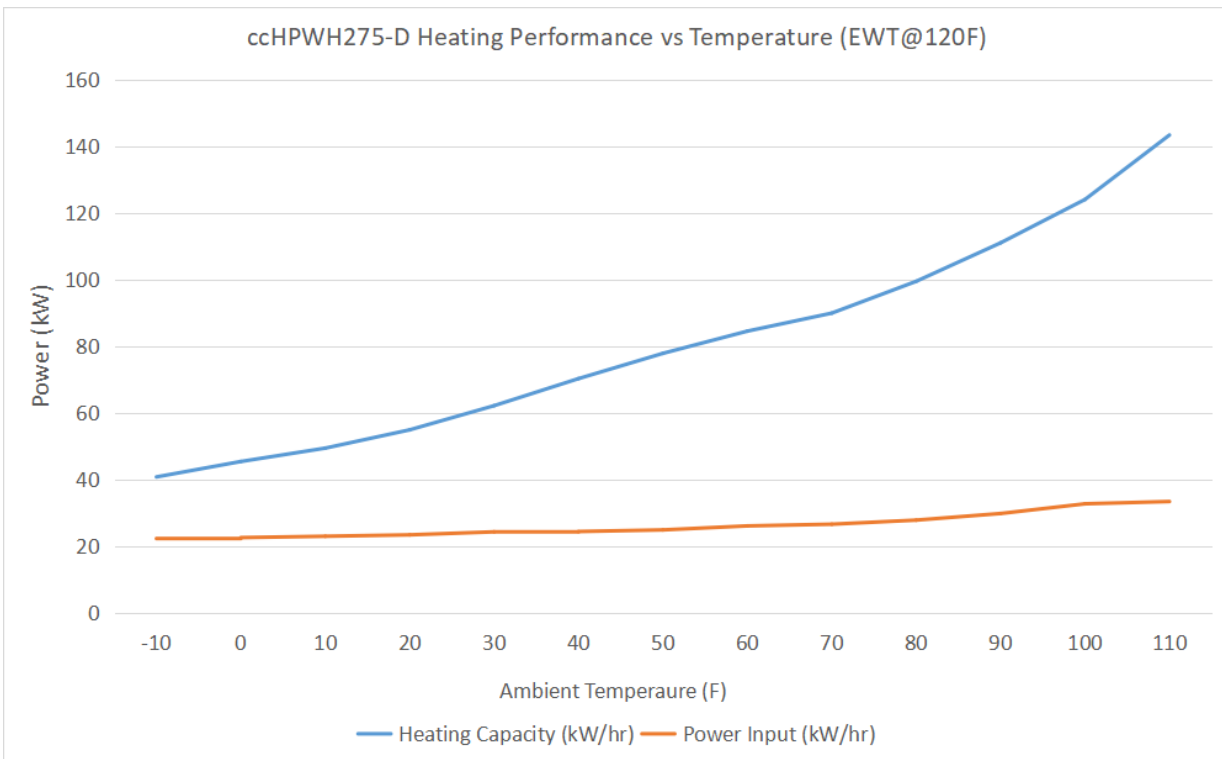
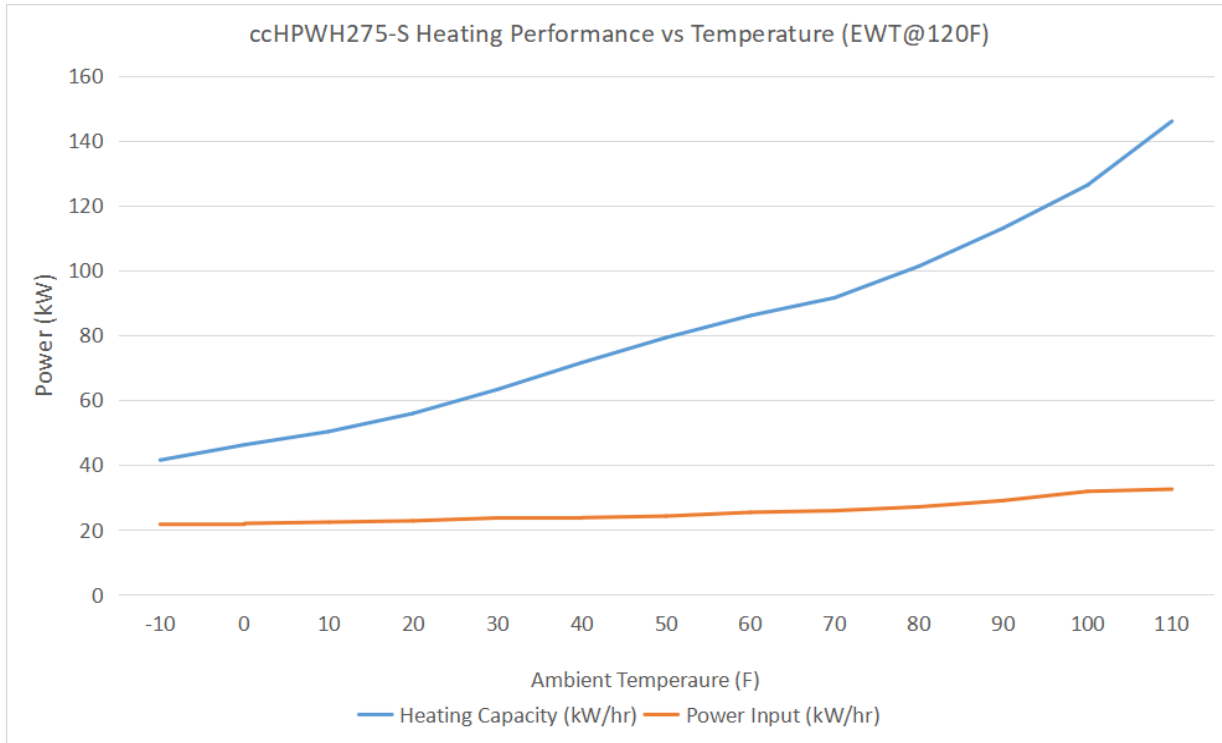


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COLD CLIMATE HEAT PUMP DOMESTIC HOT WATER HEATER CERTIFIED DRAWING

DWG. NO.
cCHPWH-Series
REV. - 01

UNIT PERFORMANCE GRAPH



COLD CLIMATE HEAT PUMP DOMESTIC HOT WATER HEATER CERTIFIED DRAWING

DWG. NO.
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