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UNIT SPECIFICATIONS

40WW Commercial Heat Pump

Introduction

Nyle Thermal 40WW is a Water to Water source heat pump, capable of averaging 40 kilowatts of heating capacity.

Standard Features

- Low GWP Refrigerant for SNAP Compliance
- Integral Circulator with improved performance to simplify piping
- Power Monitoring for Compressor Protection
- Build America Buy America compliant
- Monobloc design for easy installation
- High efficiency, water source heat pump
- Industry leading factory support and order lead times

Base Model Configurations

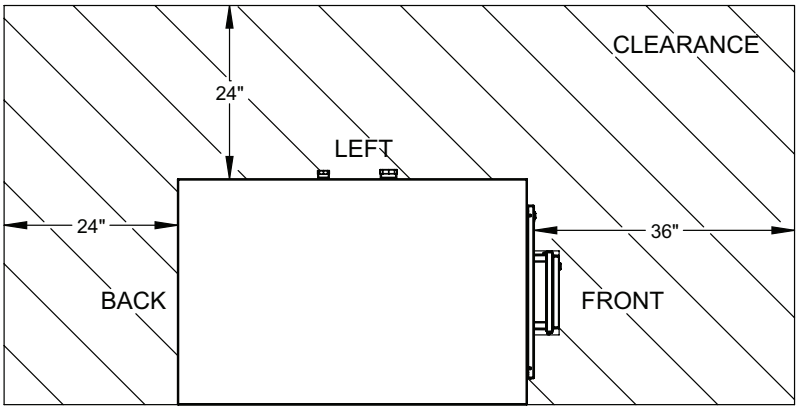
✓	Configuration
	Single-Pass Temperature Control OR
	Multi-Pass Temperature Control
	208-230v Power OR
	460v Power OR
	575 Power

Available Options

✓	Option	Description
	Add BMS Gateway	Single heat pump communication gateway to building management systems
	Add Master Control Panel	Provides staging control for multiple heat pumps/tanks. Can take a BMS Gateway
	Add Stacking Frame	Frame to allow a second heat pump to mount directly above another
	Add International Crating	Required for cross-border shipments
	Add Factory Startup	Provides for a factory technician to perform the initial on-site startup process
	Remove Integral Circulator	For systems with load side pressure requirements between 150-250 PSI
	5 Year Compressor Warranty	Extends standard one year warranty to 5 years

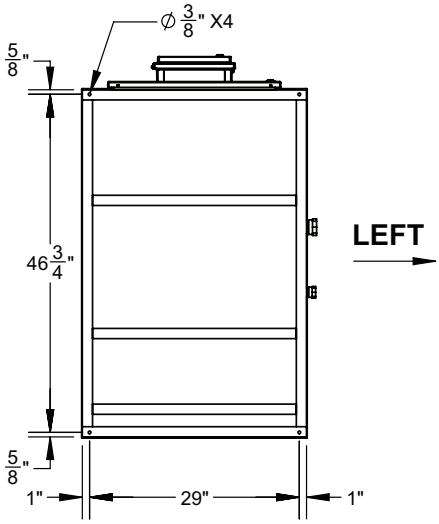
Dimensions

REQUIRED CLEARANCES



TOP VIEW

ANCHOR LOCATIONS



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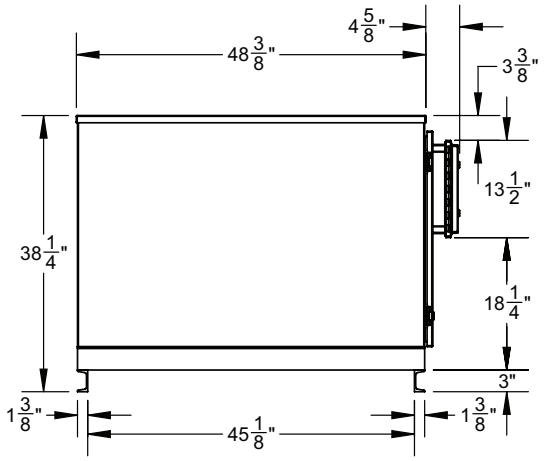
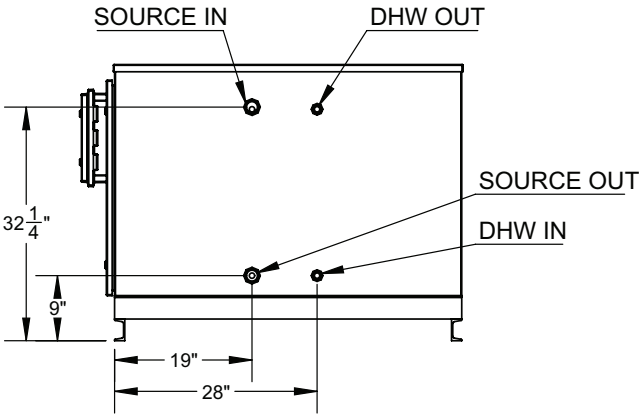


FRONT

WATER CONNECTIONS



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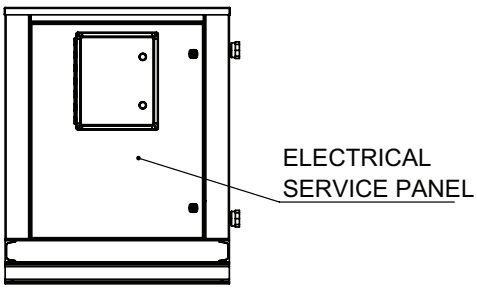

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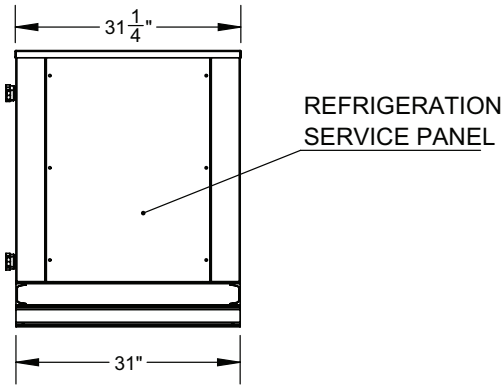

LEFT

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Unit Data

Unit Specifications	Single Pass	Multi Pass
Domestic Hot Water Connections	1" FPT Copper	1½" FPT Copper
Source Water Connections	1½" FPT Copper	1½" FPT Copper
Design DHW Water Flow Rate	12.5 GPM	28 GPM
Design Source Water Flow Rate	20 GPM	20 GPM
DHW Circuit Pressure Drop [4]	15.1 ft hd	14.8 ft hd
Source Circuit Pressure Drop [4]	10.0 ft hd	10.0 ft hd
DHW External Head Allowed by Unit [5]	10.9 ft hd	15.2 ft hd
Recovery Rate [1]	174 Gal/hr	
Compressor Type	Scroll	
Refrigerant	R513a	
Factory Charge	25 lbs.	
Max Water Temp	158°F	
Max Working Pressure [2]	DHW: 150/250 psig / Source Side: 300 psi	
Source Water Operating Range	40° - 100°F	
Dimensions	49" L x 31¼" W x 38¼" H	
Standard Sound Rating [3]	87 dB	
Weight	Dry 450 lbs. / Operating 525 lbs.	

Electrical Specifications		40WW		
Voltage		208-230/3/60	460/3/60	575/3/60
Wire and Disconnect Sizing	MCA	64	30	22
	MOCP	111	52	38
Running Load Amps (RLA)		48.1	22.4	16.5
Internal Component Data				
Compressor Horsepower (HP)		13		
Compressor Locked Rotor Amps (LRA)		300	150	123

Notes:

Certified to UL1995/CSA C22.2-2015 on Certificate LC15843-1.

[1] Water heated from 50°F to 150°F with 75°F entering air temperature and 60% relative humidity.

[2] 150 psi on dhw side with integrated pump, 250 psi on dhw side with integrated pump removed.

[3] Sound Pressure recorded 3' from unit face, 3' from ground Single point electric service.

[4] Pressure drop for external pump applications at design flow rate.

[5] Pressure drop allowed by integral circulator for external piping.

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Performance Data

Entering Source Water Temp(°F)	Leaving Source Water Temp(°F)	Entering Heated Water Temp(°F)	Leaving Heated Water Temp(°F)	Supply Heating Capacity (Btu/hr)	Source Cooling Capacity (Btu/hr)	Power Input (kW)	Heating COP	Cooling COP	Combined COP
45°F	36	50	57	102480	88072	4.96	6.1	5.2	11.3
	36	60	67	101380	85872	5.32	5.6	4.7	10.3
	37	70	77	100880	83372	5.90	5.0	4.1	9.2
	37	80	87	97780	78172	6.53	4.4	3.5	7.9
	38	90	97	96280	74072	7.28	3.9	3.0	6.9
	38	100	107	94880	69772	8.14	3.4	2.5	5.9
	38	110	117	93780	65272	9.12	3.0	2.1	5.1
	39	120	127	92680	60472	10.25	2.7	1.7	4.4
	39	130	137	92041	55272	11.55	2.3	1.4	3.7
	40	140	147	90820	49272	12.95	2.1	1.1	3.2
50°F	41	50	58	112000	94600	5.06	6.5	5.5	12.0
	41	60	68	110900	92400	5.42	6.0	5.0	11.0
	41	70	78	110400	89900	6.00	5.4	4.4	9.8
	42	80	88	107300	84700	6.63	4.7	3.7	8.5
	42	90	98	105800	80600	7.38	4.2	3.2	7.4
	42	100	108	104400	76300	8.24	3.7	2.7	6.4
	43	110	117	103300	71800	9.22	3.3	2.3	5.6
	43	120	127	102200	67000	10.35	2.9	1.9	4.8
	44	130	137	101561	61800	11.65	2.6	2.6	5.1
	44	140	147	100340	55800	13.05	2.3	2.3	4.5
60°F	49	50	59	130600	112500	5.29	7.2	6.2	13.5
	49	60	69	128500	109000	5.72	6.6	5.6	12.2
	50	70	79	126500	105000	6.29	5.9	4.9	10.8
	50	80	89	124200	100500	6.93	5.3	4.2	9.5
	50	90	99	121900	95800	7.66	4.7	3.7	8.3
	51	100	109	120200	91100	8.54	4.1	3.1	7.2
	51	110	119	118500	85900	9.55	3.6	2.6	6.3
	52	120	128	116800	80500	10.65	3.2	2.2	5.4
	53	130	138	115485	74700	11.95	2.8	1.8	4.7
	53	140	148	113734	68000	13.40	2.5	1.5	4.0
70°F	57	50	61	150900	132000	5.55	8.0	7.0	14.9
	57	60	71	148200	127500	6.06	7.2	6.2	13.3
	58	70	80	145100	122500	6.61	6.4	5.4	11.9
	58	80	90	142300	117500	7.26	5.7	4.7	10.5
	59	90	100	139800	112500	8.01	5.1	4.1	9.2
	59	100	110	137300	107000	8.87	4.5	3.5	8.1
	60	110	120	135100	101500	9.85	4.0	3.0	7.0
	60	120	130	132800	95400	10.95	3.6	2.6	6.1
	61	130	139	130609	88800	12.25	3.1	2.1	5.2
	62	140	149	127858	81100	13.70	2.7	1.7	4.5

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Performance Data

Entering Source Water Temp(°F)	Leaving Source Water Temp(°F)	Entering Heated Water Temp(°F)	Leaving Heated Water Temp(°F)	Supply Heating Capacity (Btu/hr)	Source Cooling Capacity (Btu/hr)	Power Input (kW)	Heating COP	Cooling COP	Combined COP
80°F	65	50	62	171400	150500	6.12	8.2	7.2	15.4
	65	60	72	169300	147500	6.39	7.8	6.8	14.5
	66	70	82	165700	142000	6.95	7.0	6.0	13.0
	66	80	92	162500	136500	7.61	6.3	5.3	11.5
	67	90	101	159500	131000	8.36	5.6	4.6	10.2
	67	100	111	156500	125000	9.22	5.0	4.0	8.9
	68	110	121	153300	118500	10.20	4.4	3.4	7.8
	69	120	131	150100	111500	11.30	3.9	2.9	6.8
	70	130	141	147004	104000	12.60	3.4	2.4	5.8
	70	140	150	143382	95600	14.00	3.0	2.0	5.0
85°F	69	50	63	181350	159000	6.54	8.1	7.1	15.3
	69	60	73	179950	157250	6.66	7.9	6.9	14.9
	71	70	83	177100	139250	7.14	7.3	5.7	13.0
	70	80	92	172800	146250	7.78	6.5	5.5	12.0
	71	90	102	168050	139000	8.51	5.8	4.8	10.6
	72	100	112	163450	131500	8.85	5.4	4.4	9.8
	73	110	121	158900	123750	10.30	4.5	3.5	8.0
	73	120	131	154450	115500	11.40	4.0	3.0	6.9
	74	130	141	150200	107000	12.65	3.5	2.5	6.0
	75	140	150	145800	97800	14.20	3.0	2.0	5.0
90°F	73	50	64	191300	172500	6.96	8.1	7.1	15.1
	73	60	74	190600	167500	7.10	8.0	7.0	15.0
	74	70	83	184300	160800	7.32	7.5	5.5	13.0
	73	80	93	176500	153600	7.95	6.7	5.7	12.5
	73	90	103	172500	141200	8.66	6.0	5.0	10.9
	72	100	112	165700	138000	8.48	5.9	4.8	10.7
	71	110	122	159500	129000	10.40	4.6	3.6	8.3
	70	120	131	154500	115500	11.50	4.0	3.0	7.1
	70	130	141	153200	109200	12.70	3.5	2.5	6.1
	69	140	151	149500	101500	14.40	3.0	2.1	5.1

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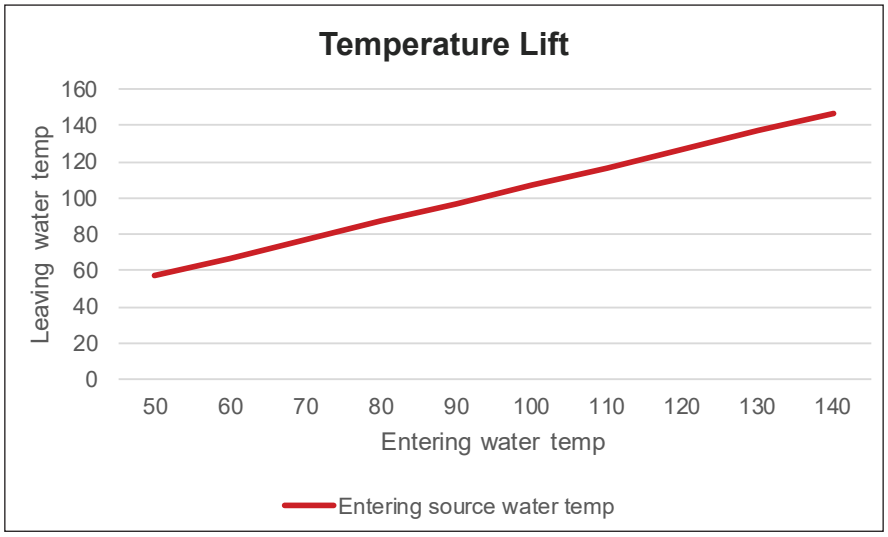
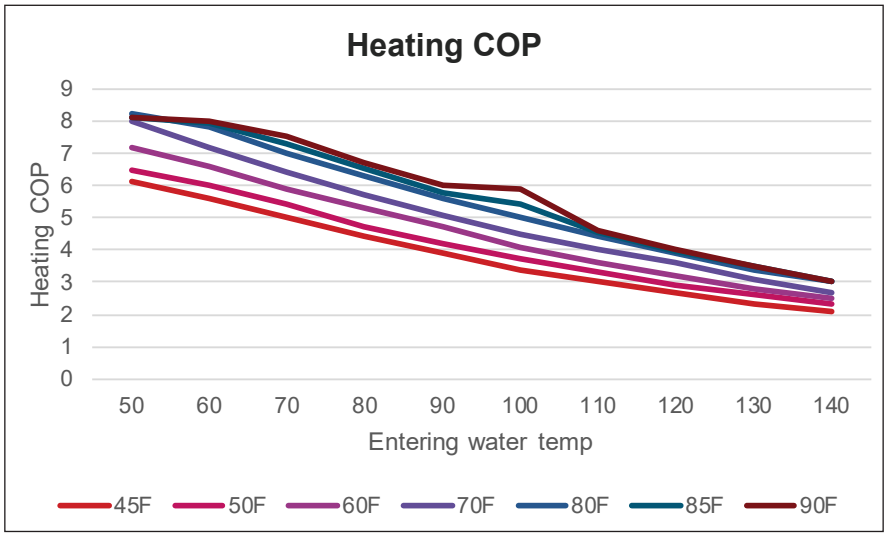
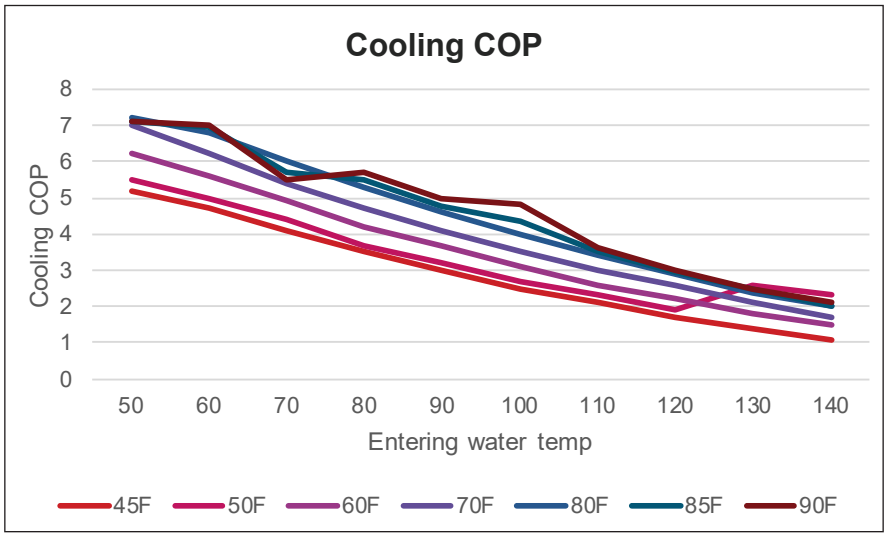
Performance Charts







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UNIT SPECIFICATIONS

55WW Commercial Heat Pump

Introduction

Nyle Thermal 55WW is a Water to Water source heat pump, capable of averaging 55 kilowatts of heating capacity.

Standard Features

- Low GWP Refrigerant for SNAP Compliance
- Integral Circulator with improved performance to simplify piping
- Power Monitoring for Compressor Protection
- Build America Buy America compliant
- Monobloc design for easy installation
- High efficiency, water source heat pump
- Industry leading factory support and order lead times

Base Model Configurations

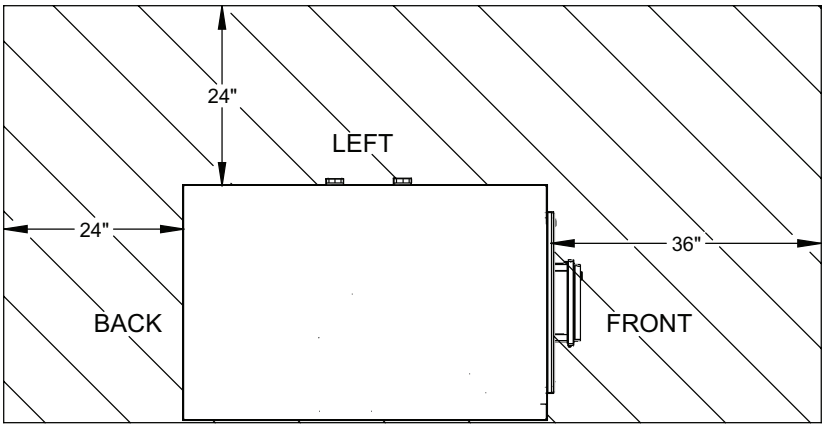
✓	Configuration
	Single-Pass Temperature Control OR
	Multi-Pass Temperature Control
	208-230v Power OR
	460v Power OR
	575 Power

Available Options

✓	Option	Description
	Add BMS Gateway	Single heat pump communication gateway to building management systems
	Add Master Control Panel	Provides staging control for multiple heat pumps/tanks. Can take a BMS Gateway
	Add Stacking Frame	Frame to allow a second heat pump to mount directly above another
	Add International Crating	Required for cross-border shipments
	Add Factory Startup	Provides for a factory technician to perform the initial on-site startup process
	Remove Integral Circulator	For systems with load side pressure requirements between 150-250 PSI
	5 Year Compressor Warranty	Extends standard one year warranty to 5 years

Dimensions

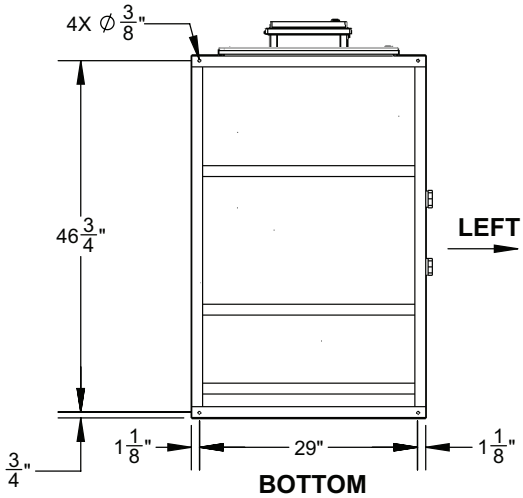
REQUIRED CLEARANCES



RIGHT

TOP VIEW

ANCHOR LOCATIONS



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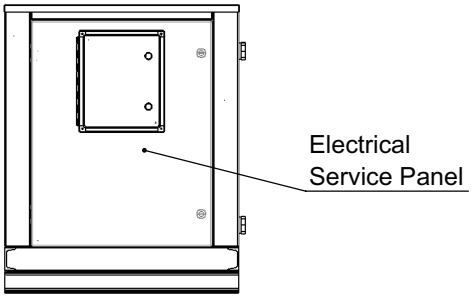

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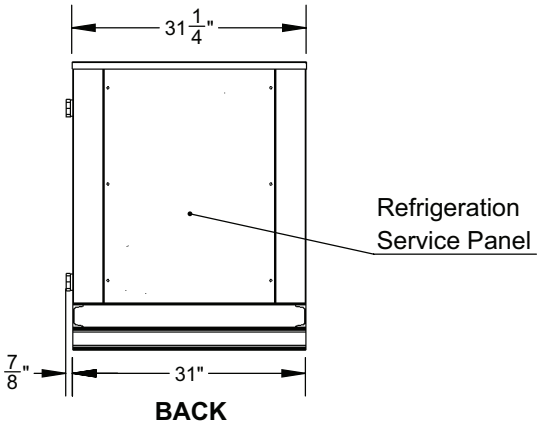

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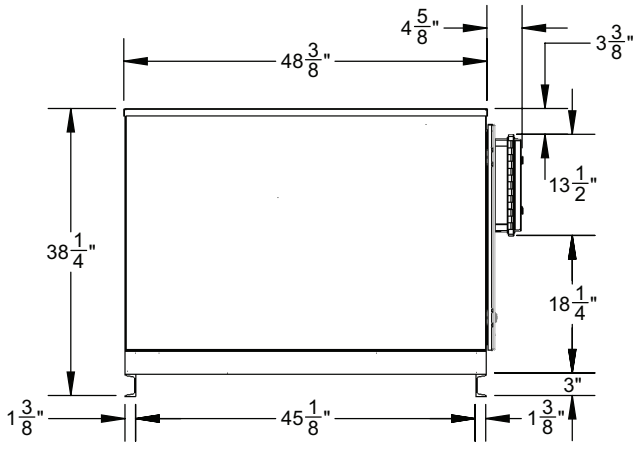

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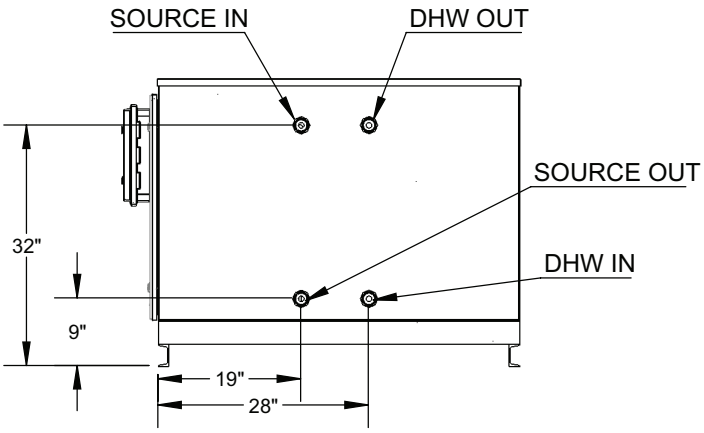

LEFT

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Unit Data

Unit Specifications	Single Pass	Multi Pass
Domestic Hot Water Connections	1½” FPT Copper	2" FPT Copper
Source Water Connections	1½" FPT Copper	1½" FPT Copper
Design DHW Water Flow Rate	18.5 GPM	31 GPM
Design Source Water Flow Rate	30 GPM	30 GPM
DHW Circuit Pressure Drop [4]	8.0 ft hd	13.4 ft hd
Source Circuit Pressure Drop [4]	5.0 ft hd	5.0 ft hd
DHW External Head Allowed by Unit [5]	16.0 ft hd	19.7 ft hd
Recovery Rate [1]	270 Gal/hr	
Compressor Type	Scroll	
Refrigerant	R513a	
Factory Charge	25 lbs.	
Max Water Temp	160°F	
Max Working Pressure [2]	DHW: 150/250 psig / Source Side: 300 psi	
Source Water Operating Range	40° - 100°F	
Dimensions	49" L x 31¼" W x 38¼" H	
Standard Sound Rating [3]	66.8 dB	
Weight	Dry 500 lbs. / Operating 615 lbs.	

Electrical Specifications		55WW		
Voltage		208-230/3/60	460/3/60	575/3/60
Wire and Disconnect Sizing	MCA	95	40	32
	MOCP	167	69	56
Running Load Amps (RLA)		73.1	30.1	24.4
Internal Component Data				
Compressor Horsepower (HP)		20		
Compressor Locked Rotor Amps (LRA)		505	225	180

Notes:

Certified to UL1995/CSA C22.2-2015 on Certificate LC15843-1.

1 Water heated from 50°F to 150°F with 75°F entering air temperature and 60% relative humidity.

2 150 psi on dhw side with integrated pump, 250 psi on dhw side with integrated pump removed.

3 Sound Pressure recorded 3’ from unit face, 3’ from ground Single point electric service.

4 Pressure drop for external pump applications at design flow rate.

5 Pressure drop allowed by integral circulator for external piping.

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Performance Data

Entering Source Water Temp(°F)	Leaving Source Water Temp(°F)	Entering Heated Water Temp(°F)	Leaving Heated Water Temp(°F)	Supply Heating Capacity (Btu/hr)	Source Cooling Capacity (Btu/hr)	Power Input (kW)	Heating COP	Cooling COP	Combined COP
45°F	37	50	58	153850	127000	8.30	5.5	4.5	10.0
	37	60	68	152800	123500	8.60	5.2	4.2	9.4
	37	70	78	152200	120000	9.00	5.0	3.9	8.9
	38	80	88	151200	115000	10.00	4.4	3.4	7.8
	38	90	98	149700	109500	11.20	3.9	2.9	6.8
	38	100	108	148650	104500	12.50	3.5	2.5	5.9
	38	110	118	148000	99000	14.10	3.1	2.1	5.1
	39	120	128	147350	93500	15.60	2.8	1.8	4.5
	39	130	138	146100	89500	16.80	2.6	1.6	4.1
	39	140	148	145400	85000	17.90	2.4	1.4	3.8
50°F	41	50	58	165700	139000	8.50	5.7	4.8	10.5
	41	60	68	164100	135000	8.90	5.4	4.4	9.8
	41	70	78	163200	130000	9.15	5.2	4.2	9.4
	42	80	88	161800	125000	10.20	4.6	3.6	8.2
	42	90	98	159900	119000	11.40	4.1	3.1	7.2
	42	100	108	158300	113000	12.70	3.7	2.6	6.3
	42	110	118	157500	108000	14.30	3.2	2.2	5.4
	43	120	128	156900	101000	16.10	2.9	1.8	4.7
	43	130	138	155200	98000	17.30	2.6	1.7	4.3
	43	140	148	154300	94000	18.40	2.5	1.5	4.0
60°F	48	50	59	192500	163000	8.90	6.3	5.4	11.7
	48	60	69	189200	158000	9.10	6.1	5.1	11.2
	49	70	79	187000	153000	9.40	5.8	4.8	10.6
	49	80	89	185300	148000	10.50	5.2	4.1	9.3
	50	90	99	182200	140000	11.80	4.5	3.5	8.0
	50	100	109	181100	133000	13.20	4.0	3.0	7.0
	51	110	119	179100	127000	14.70	3.6	2.5	6.1
	51	120	129	178300	120000	16.50	3.2	2.1	5.3
	52	130	139	176400	114000	18.10	2.9	1.8	4.7
	52	140	149	175800	108000	20.20	2.6	1.6	4.1
70°F	57	50	61	223500	196000	9.90	6.6	5.8	12.4
	57	60	71	219300	187000	10.40	6.2	5.3	11.4
	58	70	81	214800	179000	10.80	5.8	4.9	10.7
	58	80	91	211500	171000	11.30	5.5	4.4	9.9
	58	90	100	208600	164000	12.20	5.0	3.9	9.0
	59	100	110	206400	157000	13.60	4.4	3.4	7.8
	59	110	120	202800	149000	15.20	3.9	2.9	6.8
	59	120	130	201500	141000	17.00	3.5	2.4	5.9
	60	130	140	200000	135000	18.40	3.2	2.2	5.3
	60	140	150	198400	128000	20.50	2.8	1.8	4.7

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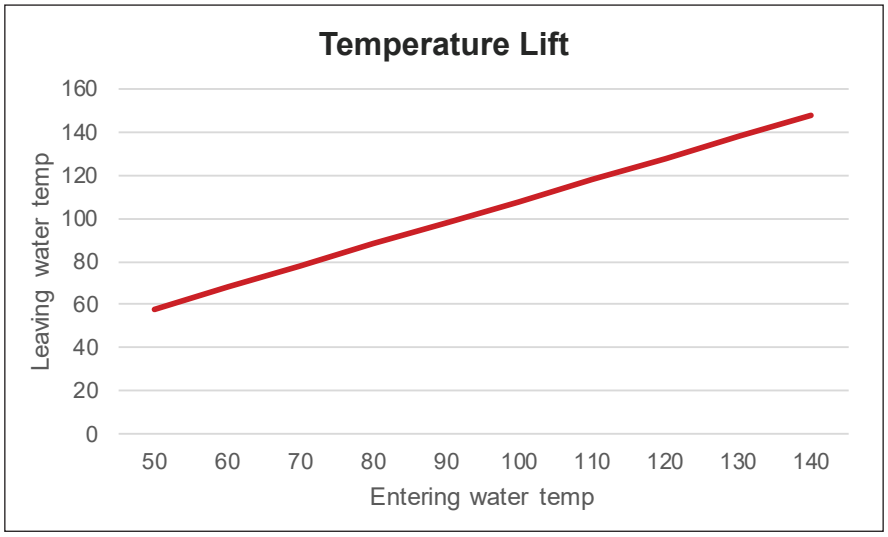
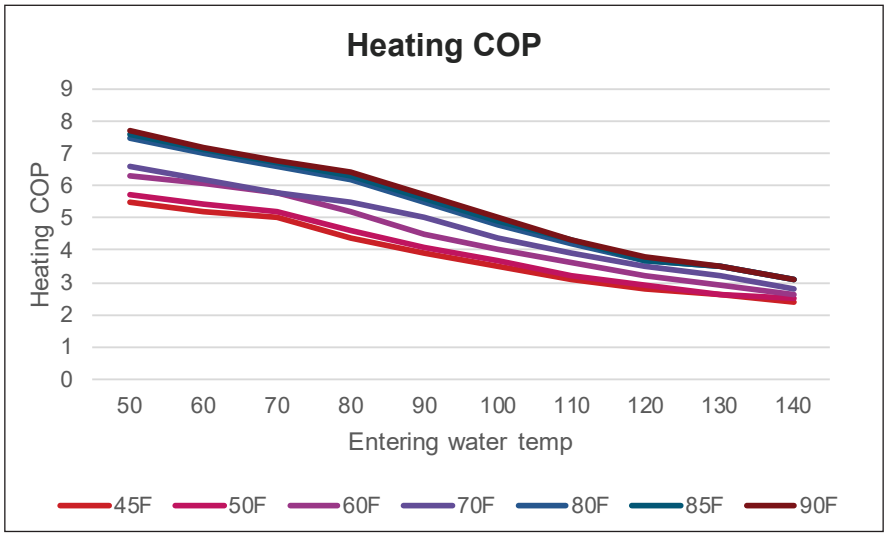
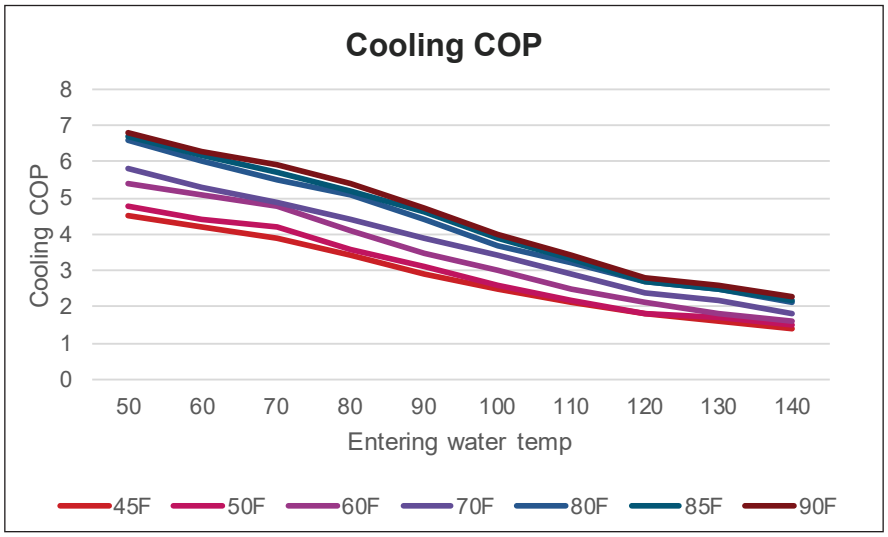
Performance Data

Entering Source Water Temp(°F)	Leaving Source Water Temp(°F)	Entering Heated Water Temp(°F)	Leaving Heated Water Temp(°F)	Supply Heating Capacity (Btu/hr)	Source Cooling Capacity (Btu/hr)	Power Input (kW)	Heating COP	Cooling COP	Combined COP
80°F	65	50	62	258500	226000	10.10	7.5	6.6	14.1
	65	60	72	254000	218000	10.70	7.0	6.0	12.9
	66	70	82	249500	210000	11.10	6.6	5.5	12.1
	66	80	92	244600	201000	11.60	6.2	5.1	11.3
	66	90	102	239700	192000	12.80	5.5	4.4	9.9
	67	100	112	233800	182000	14.30	4.8	3.7	8.5
	67	110	122	229600	172000	15.90	4.2	3.2	7.4
	67	120	132	225300	162000	17.80	3.7	2.7	6.4
	68	130	142	222000	156000	18.60	3.5	2.5	6.0
	68	140	152	217500	150000	20.90	3.1	2.1	5.2
85°F	70	50	63	266050	234500	10.30	7.6	6.7	14.3
	70	60	73	261500	227000	10.80	7.1	6.2	13.3
	70	70	83	257500	219000	11.30	6.7	5.7	12.4
	70	80	93	252300	209750	11.80	6.3	5.2	11.5
	71	90	103	246200	200750	12.90	5.6	4.6	10.2
	71	100	112	239600	189250	14.40	4.9	3.9	8.7
	71	110	122	233800	179250	16.10	4.3	3.3	7.5
	72	120	132	229000	167750	17.90	3.7	2.7	6.5
	72	130	142	225250	161750	18.80	3.5	2.5	6.0
	72	140	152	221300	156250	21.00	3.1	2.2	5.3
90°F	74	50	64	273600	243000	10.40	7.7	6.8	14.6
	74	60	74	269000	236000	10.90	7.2	6.3	13.6
	74	70	84	265500	228000	11.40	6.8	5.9	12.7
	75	80	93	260000	218500	11.90	6.4	5.4	11.8
	75	90	103	252700	209500	13.00	5.7	4.7	10.4
	76	100	113	245400	196500	14.50	5.0	4.0	8.9
	76	110	123	238000	186500	16.20	4.3	3.4	7.7
	77	120	132	232700	173500	18.00	3.8	2.8	6.6
	77	130	142	228500	167500	18.90	3.5	2.6	6.1
	77	140	152	225100	162500	21.00	3.1	2.3	5.4

Performance Charts







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UNIT SPECIFICATIONS

80WW Commercial Heat Pump - Modular System

MODULAR UNIT

This model is modular, and can be mounted with up to 5 other modules with a frame and control panel to site-build a larger single heat pump with a minimal footprint. Capacities range from 80 kW to 480 kW for a single skidded configuration.

Introduction

Nyle Thermal 80WW is a Water to Water source heat pump, capable of averaging 80 kilowatts of heating capacity.

Standard Features

- Low GWP Refrigerant for SNAP Compliance
- Integral Circulator with improved performance to simplify piping
- Power Monitoring for Compressor Protection
- Build America Buy America compliant
- Monobloc design for easy installation
- High efficiency, water source heat pump
- Industry leading factory support and order lead times
- Modular design with zero side clearance required

Base Model Configurations

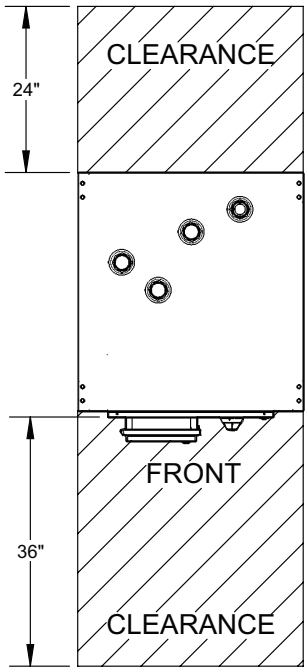
✓	Configuration
	Single-Pass Temperature Control OR
	Multi-Pass Temperature Control
	208-230v Power OR
	460v Power OR
	575 Power

Available Options

✓	Option	Description
	Add BMS Gateway	Single heat pump communication gateway to building management systems
	Add Master Control Panel	Provides staging control for multiple heat pumps/tanks. Can take a BMS Gateway
	Add Master Power Control Panel	As MCP, plus single point power for up to 4x 230v or 5x 460v/575v units. Left or Right side factory mounted.
	Add Side Panel: Removable	2 required for standalone 80WWs, or 1 each end 80WWin a site-assembled modular.
	Add Side Panel: Fixed	For units with a factory mounted MPCP, replaces the need for 1 removable side panel.
	Add Mounting Frame	To mount multiple units side by side in minimal footprint. Available for 2, 3, 4 or 5 heat pump modules.
	Add International Crating	Required for cross-border shipments
	Add Factory Startup	Provides for a factory technician to perform the initial on-site startup process
	Remove Integral Circulator	For systems with load side pressure requirements between 150-250 PSI
	5 Year Compressor Warranty	Extends standard one year warranty to 5 years

Dimensions

WATER CONNECTIONS AND REQUIRED CLEARANCES



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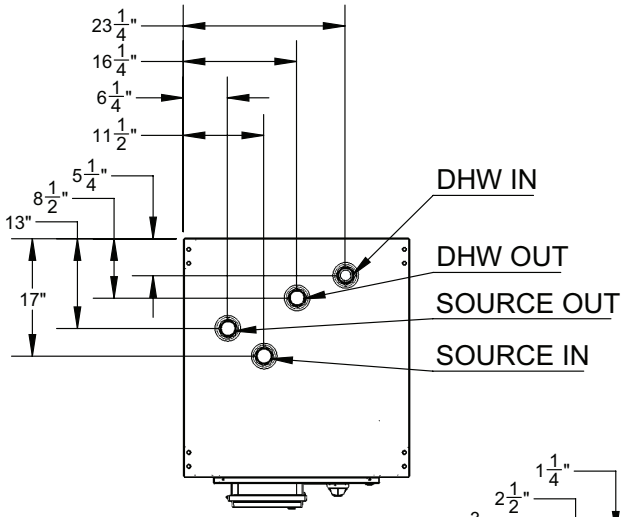
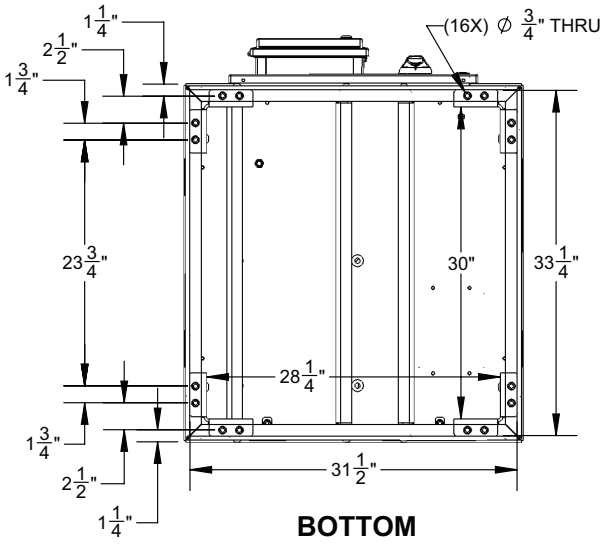


TOP

ANCHOR LOCATIONS



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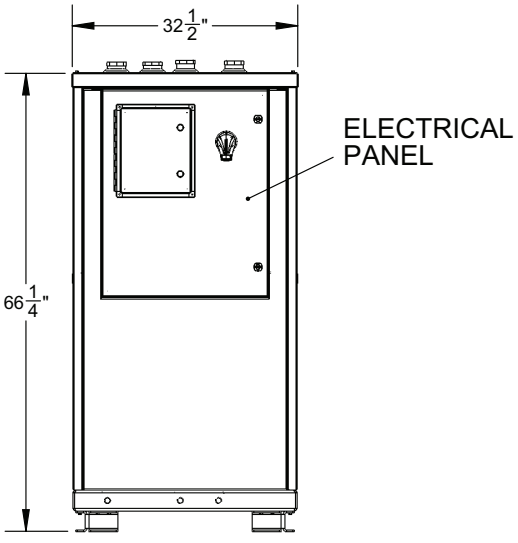
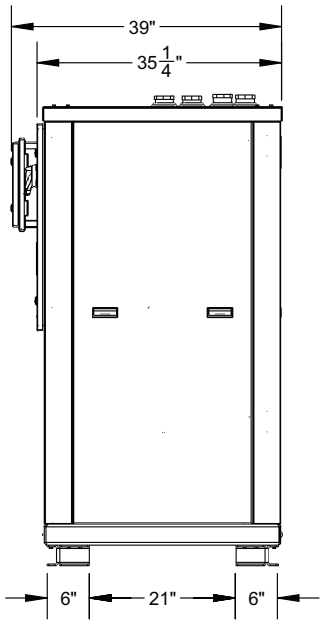
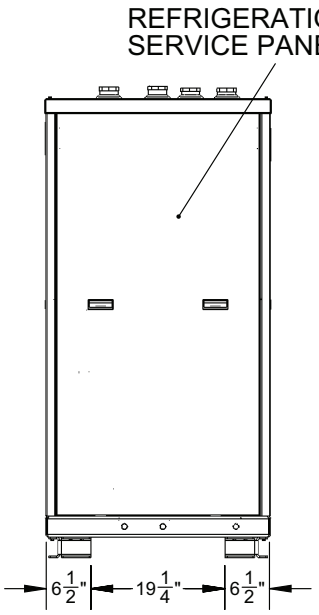


FRONT



LEFT



BACK

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Unit Data

Unit Specifications	Single Pass	Multi Pass
Water Connections	1½" FPT Copper	2" FPT Copper
Design DHW Water Flow Rate	25 GPM	50 GPM
Design Source Water Flow Rate	50 GPM	50 GPM
DHW Circuit Pressure Drop [4]	12.8 ft hd	13.9 ft hd
Source Circuit Pressure Drop [4]	6.0 ft hd	6.0 ft hd
DHW External Head Allowed by Unit [5]	19.7 ft hd	8.6 ft hd
Recovery Rate [1]	323 Gal/hr	
Compressor Type	Scroll	
Refrigerant	R513a	
Factory Charge	25 lbs.	
Max Water Temp	160°F	
Max Working Pressure [2]	DHW: 150/250 psig / Source Side: 300 psi	
Source Water Operating Range	40° - 100°F	
Dimensions	34⅞" L x 36¼" W x 67¼" H	
Standard Sound Rating [3]	72.3 dB	
Weight	Dry 1150 lbs. / Operating 1300 lbs.	

Electrical Specifications		80WW		
Voltage		208-230/3/60	460/3/60	575/3/60
Wire and Disconnect Sizing	MCA	108	57	37
	MOCP	190	101	64
Running Load Amps (RLA)		83.4	44.3	28.2
Internal Component Data				
Compressor Horsepower (HP)		25		
Compressor Locked Rotor Amps (LRA)		560	270	198

Notes:

Certified to UL1995/CSA C22.2-2015 on Certificate LC15843-1.

1 Water heated from 50°F to 150°F with 75°F entering air temperature and 60% relative humidity.

2 150 psi on dhw side with integrated pump, 250 psi on dhw side with integrated pump removed.

3 Sound Pressure recorded 3' from unit face, 3' from ground Single point electric service.

4 Pressure drop for external pump applications at design flow rate.

5 Pressure drop allowed by integral circulator for external piping.

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Performance Data

Entering Source Water Temp(°F)	Leaving Source Water Temp(°F)	Entering Heated Water Temp(°F)	Leaving Heated Water Temp(°F)	Supply Heating Capacity (Btu/hr)	Source Cooling Capacity (Btu/hr)	Power Input (kW)	Heating COP	Cooling COP	Combined COP
42°F	36	50	58	193200	151300	12.28	4.6	3.6	8.2
	36	60	68	192300	146700	13.33	4.2	3.2	7.5
	36	70	78	191400	141900	14.46	3.9	2.9	6.8
	37	80	88	190400	136900	15.67	3.6	2.6	6.1
	37	90	98	189700	131800	16.95	3.3	2.3	5.6
	37	100	108	188900	126400	18.32	3.0	2.0	5.0
	37	110	118	188400	120800	19.80	2.8	1.8	4.6
	37	120	128	187700	114700	21.37	2.6	1.6	4.1
	38	130	138	187500	108800	23.07	2.4	1.4	3.8
	38	140	148	187200	107700	23.69	2.3	1.3	3.6
50°F	43	50	59	220600	178000	12.45	5.2	4.2	9.4
	43	60	69	218800	172700	13.67	4.7	3.7	8.4
	43	70	79	217600	167500	14.67	4.3	3.3	7.7
	44	80	89	216000	161800	15.91	4.0	3.0	7.0
	44	90	99	214500	153600	17.22	3.7	2.6	6.3
	44	100	109	213000	147600	18.62	3.4	2.3	5.7
	44	110	119	211600	142800	20.08	3.1	2.1	5.2
	45	120	129	210200	135200	21.72	2.8	1.8	4.7
	45	130	139	209300	127600	23.47	2.6	1.6	4.2
	45	140	149	208300	121800	25.20	2.4	1.4	3.8
60°F	52	50	60	242300	199400	12.55	5.7	4.7	10.3
	52	60	70	240100	193500	13.64	5.2	4.2	9.3
	53	70	80	238300	187800	14.80	4.7	3.7	8.4
	53	80	90	236000	181200	16.06	4.3	3.3	7.6
	53	90	99	234100	174800	17.38	3.9	2.9	6.9
	53	100	109	232200	168000	18.82	3.6	2.6	6.2
	54	110	119	230100	160900	20.29	3.3	2.3	5.6
	54	120	129	227700	152400	22.07	3.0	2.0	5.0
	54	130	139	226300	145300	23.72	2.8	1.8	4.6
	55	140	149	224700	137200	25.31	2.6	1.6	4.2
70°F	61	50	61	266000	222800	12.65	6.2	5.2	11.3
	61	60	71	263300	219600	13.75	5.6	4.7	10.3
	62	70	81	260900	210000	14.93	5.1	4.1	9.2
	62	80	90	258000	202600	16.20	4.7	3.7	8.3
	62	90	100	255500	195600	17.55	4.3	3.3	7.5
	63	100	110	252900	188100	18.99	3.9	2.9	6.8
	63	110	120	250500	180100	20.54	3.6	2.6	6.1
	63	120	130	247200	171000	22.35	3.2	2.2	5.5
	64	130	140	245000	163300	23.96	3.0	2.0	5.0
	64	140	150	242700	154400	25.87	2.7	1.7	4.5

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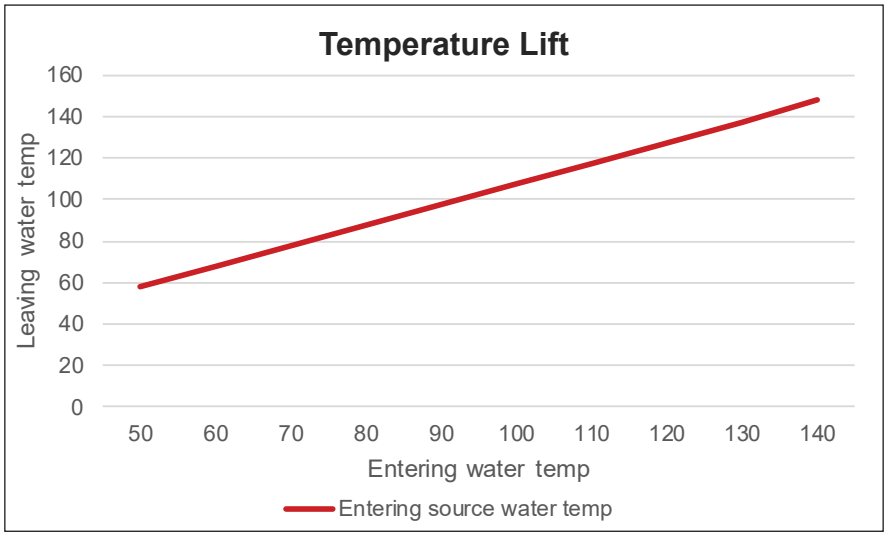
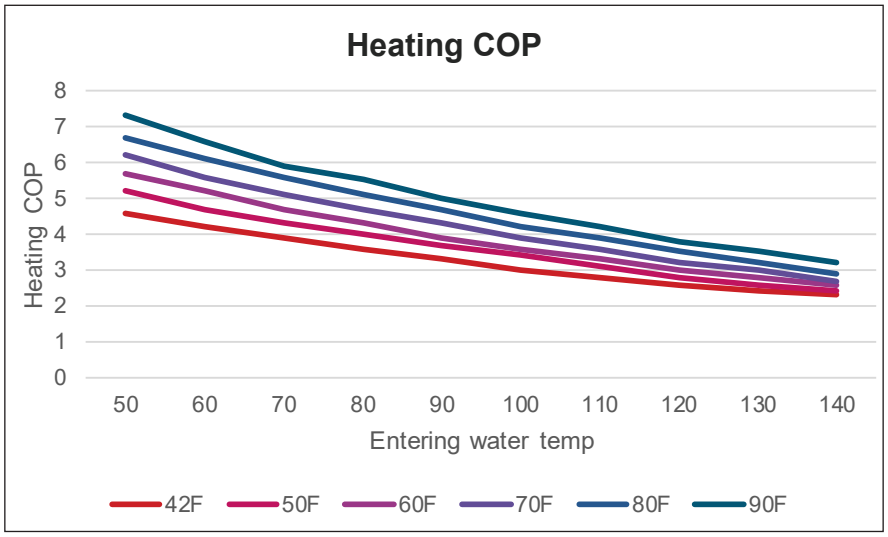
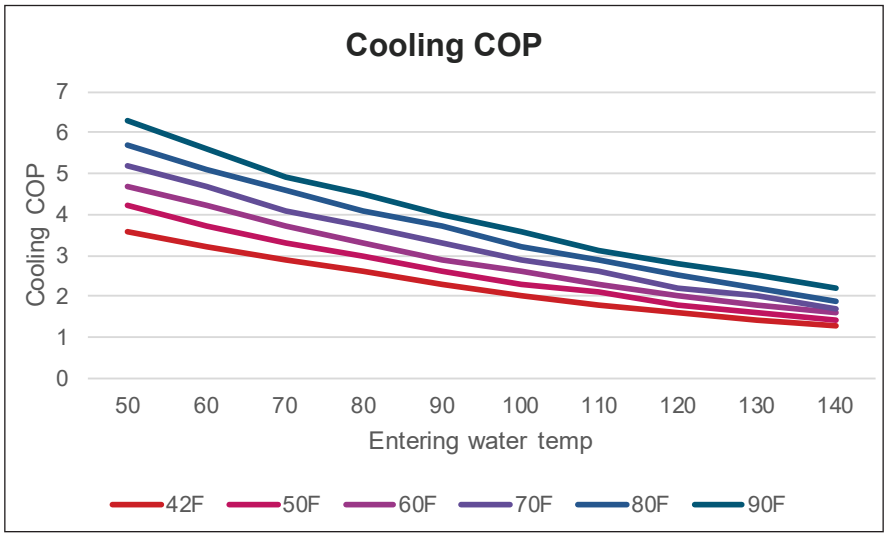
Performance Data

Entering Source Water Temp(°F)	Leaving Source Water Temp(°F)	Entering Heated Water Temp(°F)	Leaving Heated Water Temp(°F)	Supply Heating Capacity (Btu/hr)	Source Cooling Capacity (Btu/hr)	Power Input (kW)	Heating COP	Cooling COP	Combined COP
80°F	70	50	62	291800	248400	12.74	6.7	5.7	12.4
	70	60	72	288500	241200	13.86	6.1	5.1	11.2
	71	70	81	285600	234200	15.06	5.6	4.6	10.1
	71	80	91	282300	226500	16.33	5.1	4.1	9.1
	71	90	101	279400	219200	17.60	4.7	3.7	8.3
	72	100	111	275300	209800	19.15	4.2	3.2	7.4
	72	110	121	272100	201400	20.71	3.9	2.9	6.7
	72	120	131	268900	192400	22.39	3.5	2.5	6.0
	73	130	141	265500	183000	24.17	3.2	2.2	5.4
	73	140	151	262400	173200	26.11	2.9	1.9	4.9
90°F	79	50	63	319900	276100	12.83	7.3	6.3	13.6
	79	60	73	315900	268300	13.96	6.6	5.6	12.3
	80	70	83	312400	260600	15.61	5.9	4.9	10.8
	80	80	92	308000	251800	16.46	5.5	4.5	10.0
	81	90	102	304300	243400	17.80	5.0	4.0	9.0
	81	100	112	299900	234000	19.30	4.6	3.6	8.1
	82	110	122	296200	224900	20.83	4.2	3.1	7.3
	82	120	131	291700	214600	22.55	3.8	2.8	6.6
	83	130	141	287700	204600	24.30	3.5	2.5	5.9
	83	140	151	283300	193900	26.33	3.2	2.2	5.3

Performance Charts







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Modular Configurations

160WW
160 kW heating capacity

240WW
240 kW heating capacity

320WW
320 kW heating capacity

480WW
480 kW heating capacity

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