



VERTA SERIES AIR-TO-WATER HEAT PUMP

SUBMITTAL SHEET

PROJECT NAME _____
 LOCATION _____
 ENGINEER _____

DATE _____
 CONTRACTOR _____
 REP _____

PRODUCT FEATURES

- Nominal 3 and 5 ton capacities
- Low GWP R32 refrigerant
- Heating, cooling, DHW capabilities
- User friendly 7" touch screen interface with easy troubleshooting steps
- Mono-bloc design for no refrigerant handling
- Delivered water temperatures up 131 °F (55 °C)
- Operation in cold climates, down to -13 °F (-25 °C)
- Two options for indoor units (outdoor unit MUST be paired with one indoor unit)
 - Control box (CONTROL32-7)
 - All-inclusive Hydrobox (HYDRO32-7)
- Rugged and robust construction suitable for all weather conditions
- Exclusive NTI Verta sizing/performance app and desktop program

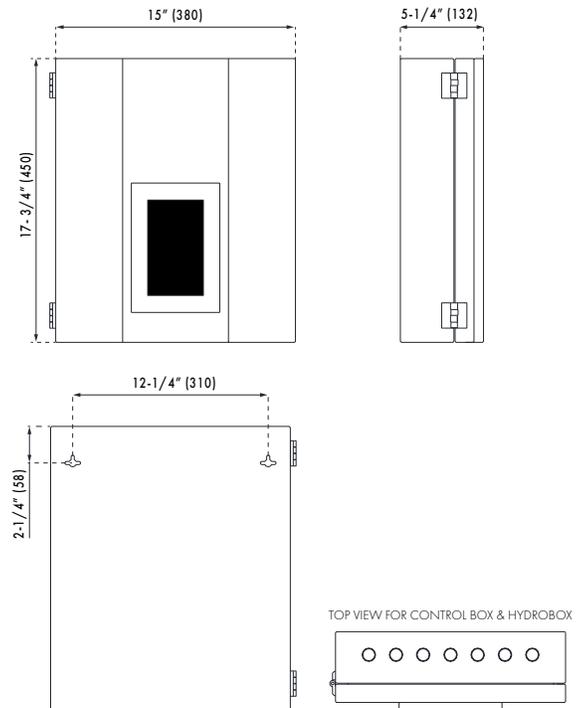


Scan to watch the NTI Verta Sizing tool in action!

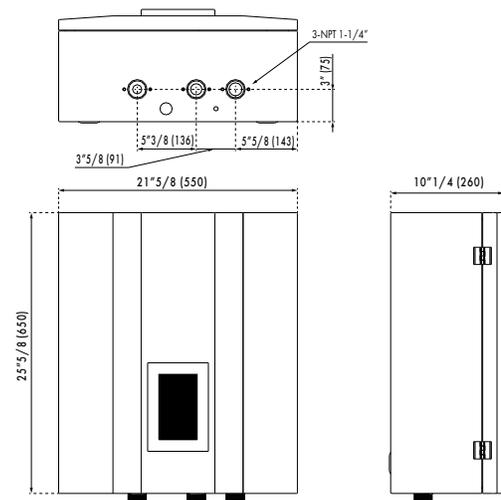
WEIGHTS & DIMENSIONS

MODEL NUMBER		NET DIMENSIONS (L x W x H) Inch (cm)	SHIPPING WEIGHT LBS (KG)
INDOOR UNIT	CONTROL32-7	25.6 x 21.7 x 10.2 (50 x 550 x 260)	77.2 (35)
	HYDRO32-7	17.7 x 15 x 5.2 (450 x 380 x 132)	28.7 (13)
OUTDOOR UNIT	NHP32-036	47.5 x 16.2 x 34.5 (1205 x 410 x 875)	255.7 (116)
	NHP32-060	45.5 x 16.3 x 58.5 (1155 x 415 x 1485)	366.0 (166)

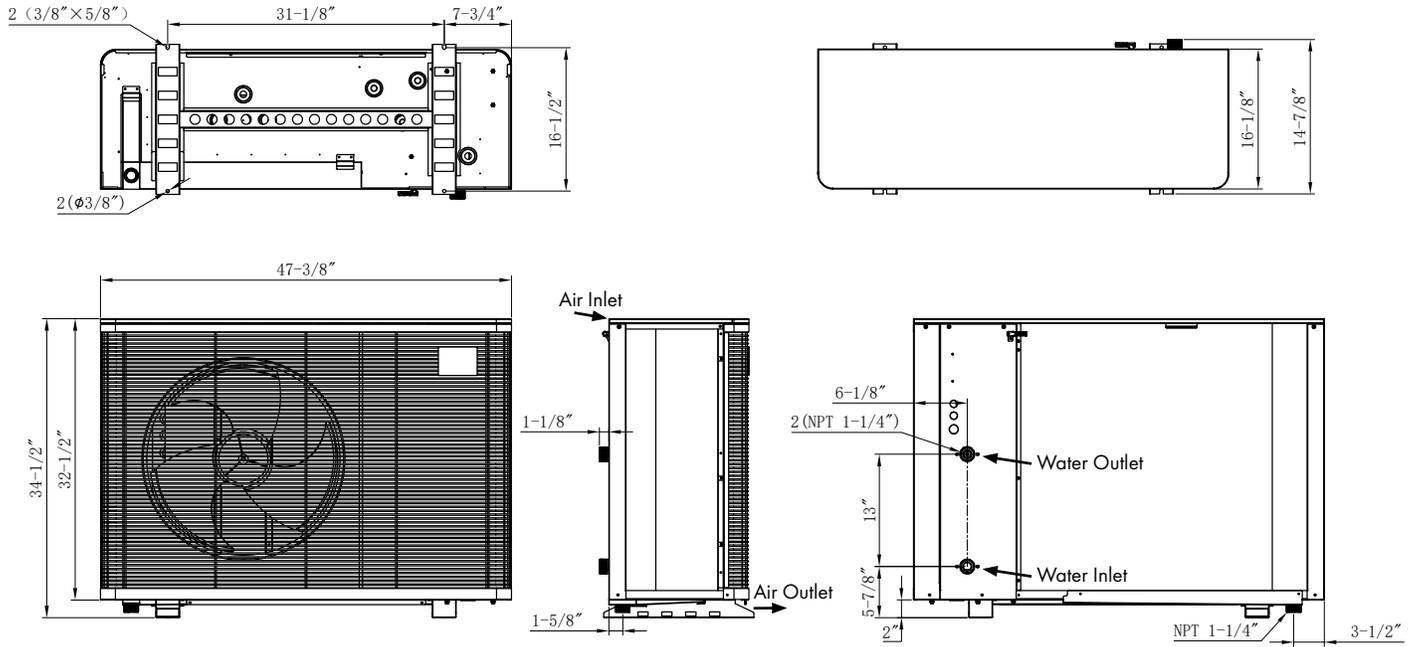
CONTROL32-7 DIMENSIONS



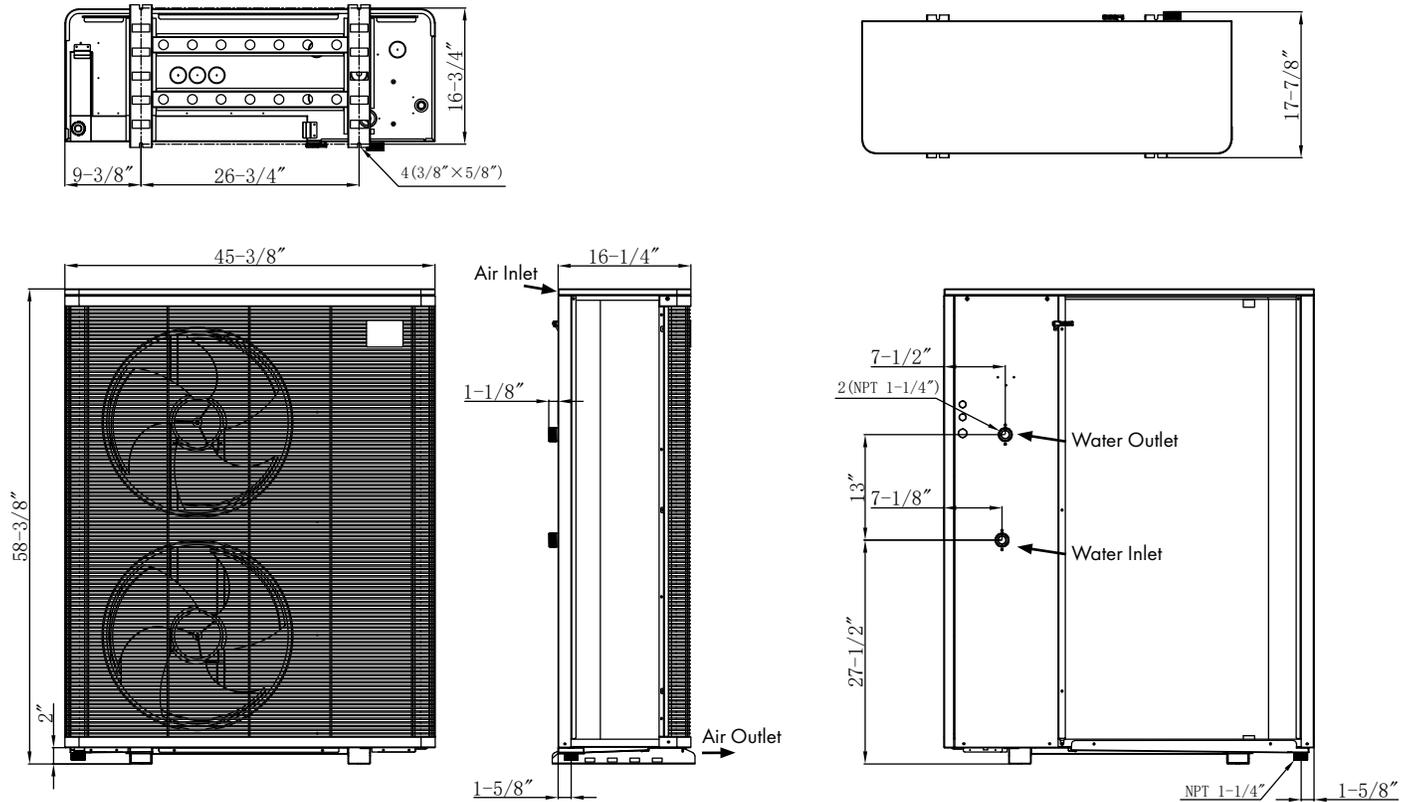
HYDRO32-7 DIMENSIONS



NHP32-036 (3 TON) DIMENSIONS



NHP32-060 (5 TON) DIMENSIONS



OUTDOOR UNIT PRODUCT SPECIFICATIONS

		Units	NHP32-036	NHP32-060
Cooling	Nominal Capacity*	Tons	2.5	4.6
	Nominal Efficiency*	EER	8.57	9.19
	Efficiency**	IPLV/IP	21.02	21.0
	Ambient Temp Range	°F (°C)	55-125 (12.8-51.7)	
	Delivered Water Temp Range	°F (°C)	39-49 (3.9-9.4)	
Heating	Capacity Range	BTU/hr (kW)	1,600-42,900 (0.7-12.6)	3,400-73,500 (1-21.5)
	Efficiency Range	COP	0.96-7.10	0.58-6.97
	Ambient Temp Range	°F (°C)	-13-113 (-25-45)	
	Delivered Water Temp Range	°F (°C)	68-140 (20-60)	
Electrical	Power	V/Ph/Hz	208-230/1/60	
	Fan Motor	A	0.6	0.6 x 2
	Compressor Motor	A	14.0	28.7
	MCA	A	24.5	41
	MOPD	A	30	60
	SCCR	kA	5	
Refrigerant	Type		R32	
	Factory Charge	lbs (kg)	3.97 (1.8)	5.73 (2.6)
	Normal Pressure Low Side	PSI	609	
	Normal Pressure High Side	PSI	174	
Fan	Quantity		1	2
	Power Input	W	90	90 x 2
	Type		Brushless DC motor	
	Max Speed	RPM	900	
Sound (1 meter)	Range	dBa	40-50	44-54
	Rated Flow	GPM	9.1	14.4
Hydronic	Max Water Temp	°F (°C)	140 (60)	
	Piping Connections	Inch (mm)	NPT 1-1/4" (DN32)	
	Rated Pressure Drop	PSI (ft W.C)	0.64 (1.47)	6.67 (15.39)
	Type		Rotary Inverter	
Compressor	Speed Range	Hz	30-90	30-76
	Brand		Mitsubishi	
	Quantity		1	

INDOOR UNIT PRODUCT SPECIFICATIONS

	Units	HYDRO32-7	CONTROL32-7
Unit Power Supply	V/Ph/Hz	208-230/1/60	115/1/60
Input Power	kW	0.2	0.2
Unit Maximum Overload Protection	A	15	15
Heater Maximum Overload Protection	A	20	/
Heater Supply	V/Hz	208-230V/60	/
Heater Rated Input Power	kW	2.4/3.0	/
Piping Connection	Inch	NPT 1 1/4	/

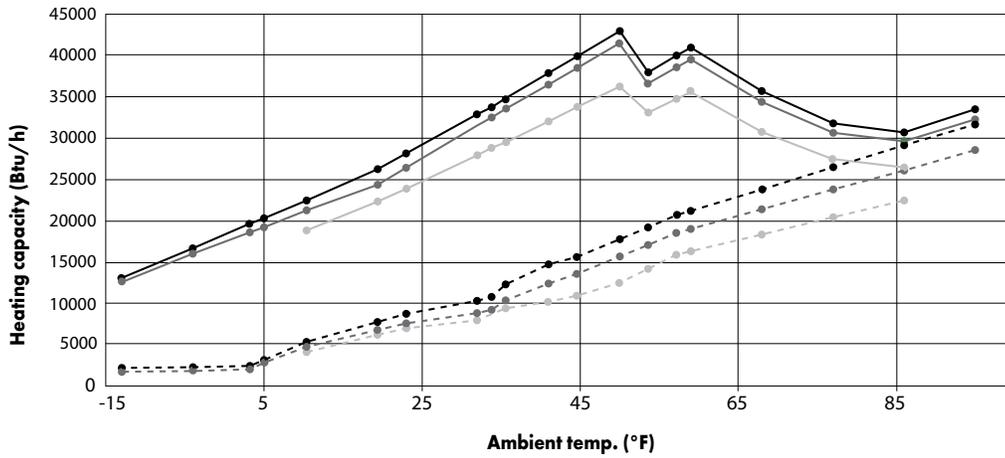
*Nominal Capacity and efficiency are tested in accordance with NTI ACCL All Working Conditions Data Sheet Ver 3.01. For more specific data points/ranges, please refer to the graphs in this manual or to the Verta sizing tool located here <https://ntiboilers.com/product/verta-series>

**IPLV/IP and capacities are tested and certified in accordance with AHRI 550/590.



NHP32-036 (3 TON) PERFORMANCE CURVES

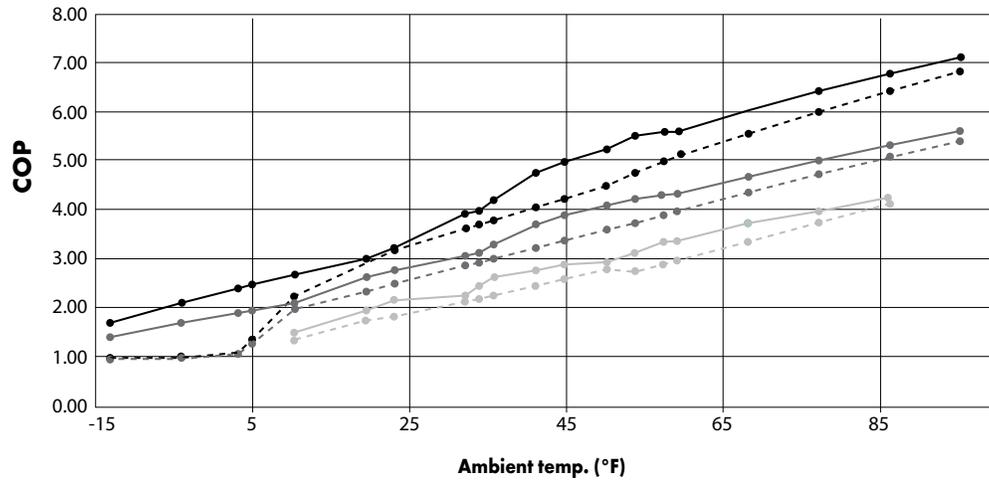
HEATING CAPACITY



- - ● - -	NHP 32-036 95 LWT °F MIN
- ● -	NHP 32-036 95 LWT °F MAX
- - ● - -	NHP 32-036 113 LWT °F MIN
- ● -	NHP 32-036 113 LWT °F MAX
- - ● - -	NHP 32-036 131 LWT °F MIN
- ● -	NHP 32-036 131 LWT °F MAX

Water flow rate: 9.00 gpm

COP



- - ● - -	NHP 32-036 95 LWT °F MIN
- ● -	NHP 32-036 95 LWT °F MAX
- - ● - -	NHP 32-036 113 LWT °F MIN
- ● -	NHP 32-036 113 LWT °F MAX
- - ● - -	NHP 32-036 131 LWT °F MIN
- ● -	NHP 32-036 131 LWT °F MAX

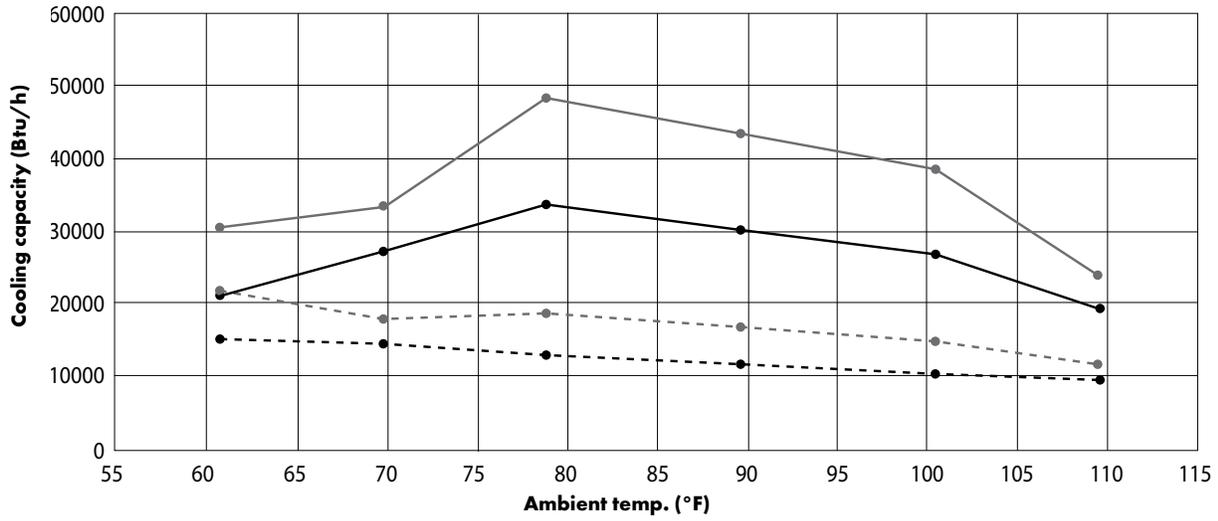
Water flow rate: 9.00 gpm



NHP32-036 (3 TON) PERFORMANCE CURVES

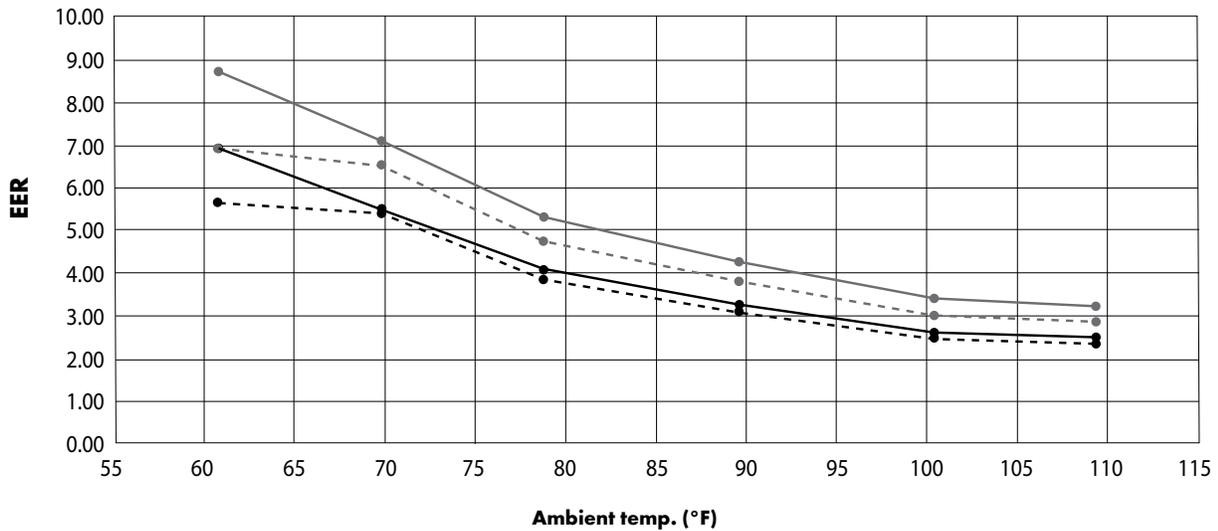
COOLING CAPACITY

- - ● - -	NHP 32-036 45 LWT °F MIN	- - ● - -	NHP 32-036 64 LWT °F MIN
- ● -	NHP 32-036 45 LWT °F MAX	- ● -	NHP 32-036 64 LWT °F MAX



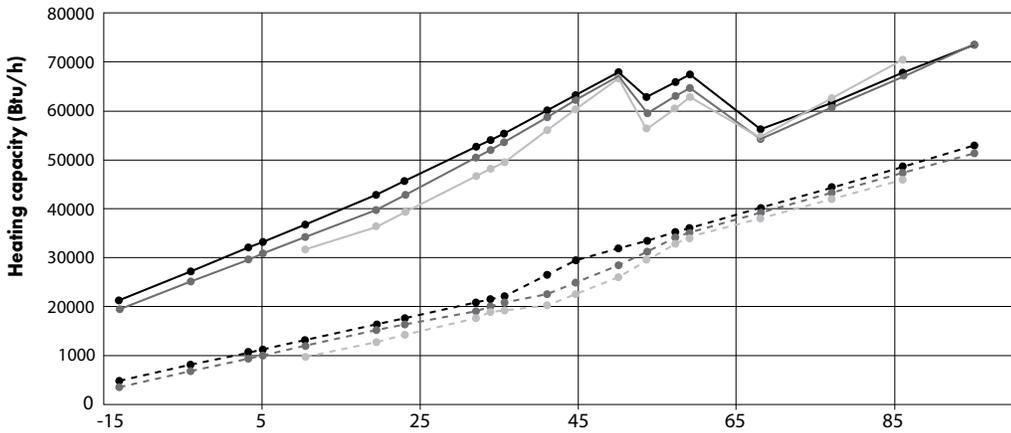
EER

- - ● - -	NHP 32-036 45 LWT °F MIN	- - ● - -	NHP 32-036 64 LWT °F MIN
- ● -	NHP 32-036 45 LWT °F MAX	- ● -	NHP 32-036 64 LWT °F MAX



NHP32-060 (5 TON) PERFORMANCE CURVES

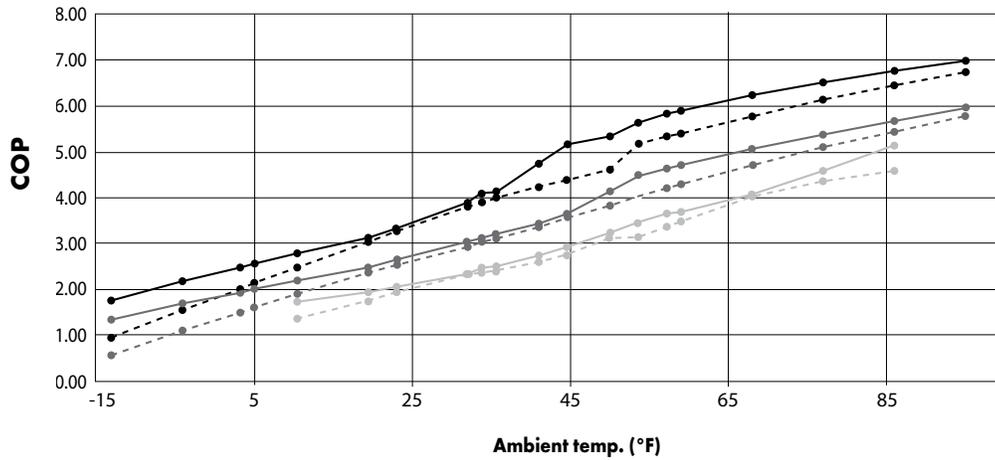
HEATING CAPACITY



-●- -	NHP 32-060 95 LWT °F MIN
-●-	NHP 32-060 95 LWT °F MAX
-●- -	NHP 32-060 113 LWT °F MIN
-●-	NHP 32-060 113 LWT °F MAX
-●- -	NHP 32-060 131 LWT °F MIN
-●-	NHP 32-060 131 LWT °F MAX

Water flow rate: 13.00 gpm

COP



-●- -	NHP 32-060 95 LWT °F MIN
-●-	NHP 32-060 95 LWT °F MAX
-●- -	NHP 32-060 113 LWT °F MIN
-●-	NHP 32-060 113 LWT °F MAX
-●- -	NHP 32-060 131 LWT °F MIN
-●-	NHP 32-060 131 LWT °F MAX

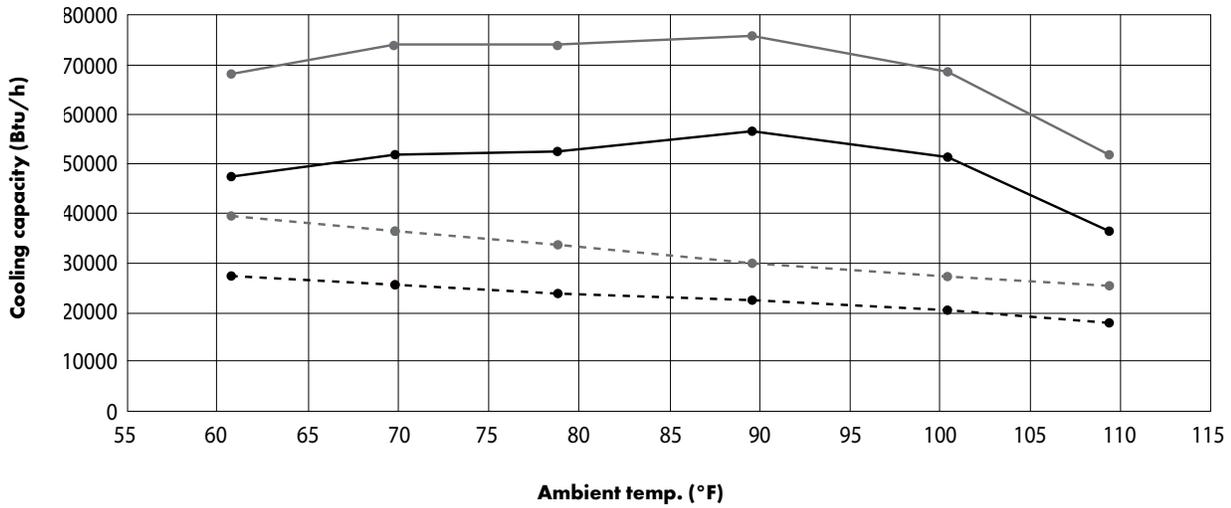
Water flow rate: 13.00 gpm



NHP32-060 (5 TON) PERFORMANCE CURVES

COOLING CAPACITY

- - ● - -	NHP 32-060 45 LWT °F MIN	- - ● - -	NHP 32-060 64 LWT °F MIN
- ● -	NHP 32-060 45 LWT °F MAX	- ● -	NHP 32-060 64 LWT °F MAX



EER

- - ● - -	NHP 32-060 45 LWT °F MIN	- - ● - -	NHP 32-060 64 LWT °F MIN
- ● -	NHP 32-060 45 LWT °F MAX	- ● -	NHP 32-060 64 LWT °F MAX

