



Products you need  
from people who care

## THE NTI QUALITY **INSIDE & OUT**

NTI is a heating specialist in North America with a unique expertise and cutting-edge innovation in heating products. Our products and technologies are proven to deliver optimal performance in the most efficient way, as well as uncompromised durability, even in extreme conditions. Thoroughly designed to help your customers achieve sustainable comfort, and also simplify your life.

### BETTER FOR YOUR JOB AND FOR THE PLANET - **VERTA SERIES AIR-TO-WATER HEAT PUMP**

#### COMING IN 2025

The perfect fit for a single-family house or apartment with limited space.

- **Touch Screen Control**
- **DHW Storage**  
Set timer as needed for each day in a week
- **Heating Curve**  
Adjust outlet water temp. based on ambient temp. automatically
- **Auto Heat Cool Switch**  
Heating and cooling can be switched automatically based on ambient temperature or external signal
- **Equipped with R32 Refrigerant**  
Sustainable, economic and efficient, R32 is a high-performance gas that is good for the environment. Its Global Warming Potential (GWP) two third less than R410A.



- **High Temps even in Low Ambients**  
The Verta Air-to-Water Heat Pump can achieve high delivered water temps in low ambient conditions while maintaining high efficiencies (see spec table for more details).

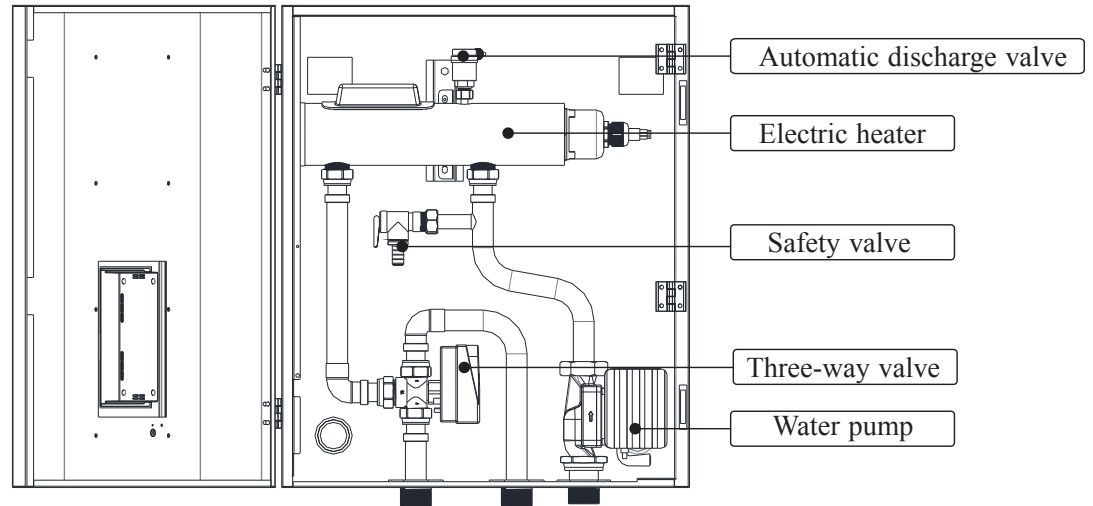


# VERTA SERIES AIR-TO-WATER HEAT PUMP TECHNICAL FEATURES

## Hydrobox/Control Box

The Verta Series Monoblock Air-to-Water Heat Pump requires an indoor unit for installation, and NTI offers two options for this component: the Control Box (Control32-7) and the Hydrobox (Hydro32-7).

The **Hydrobox** (pictured here), is a wall-mounted unit, and includes a 7" touchscreen interface and main control board (PCB). In addition, the Hydrobox includes a 3kW backup heater, a hydronic circulating pump, and a 3-way valve for domestic hot water (DHW) applications. It communicates with the outdoor unit, only requiring a 24-gauge, 3-wire cable (provided by the factory). The Hydrobox requires a 208-230V power supply to operate the backup heater. Designed as a pre-piped solution, the Hydrobox simplifies installation and helps save time on the project, making it an ideal choice for installers seeking efficiency and ease of integration.

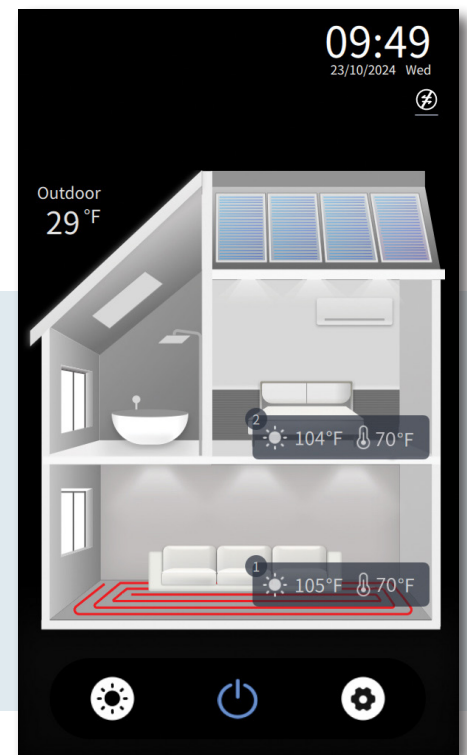


The **Control Box** is also a wall-mounted unit that includes the 7" user-friendly touchscreen interface, the main control board (PCB), and all necessary field wiring, such as temperature sensors. Installation is straightforward, requiring only a 24-gauge, 3-wire communication cable, like the Hydrobox, to connect the control box to the outdoor unit, ensuring a seamless setup.

## 7" Touch Screen Control

At the core of the Verta Series is its intuitive 7" LED touchscreen, designed to simplify the commissioning process. This user-friendly interface presents all parameters and options in clear, easy-to-read English, ensuring a fast and efficient setup for installers.

The touchscreen also provides real-time temperature readings (when applicable), displays the current unit status, and alerts users to any faults or warnings, offering clear instructions for troubleshooting and resolution.



## VERTA SERIES AIR-TO-WATER HEAT PUMP SPECIFICATIONS

		Units	NHP32-036	NHP32-060
Cooling	Capacity Range	BTU/hr (kW)	670-14950 (0.197-4.382)	1090-22100 (0.320-6.478)
	Efficiency Range	EER	4.40-41.41	5.46-45.10
	Efficiency	IPLV	21.07	21.87
	Ambient Temp Range	DegF (DegC)	55-125 (12.8-51.7)	55-125 (12.8-51.7)
	Delivered Water Temp Range	DegF (DegC)	39-49 (3.9-9.4)	39-49 (3.9-9.4)
Heating	Capacity Range	BTU/hr (kW)	12620-41970 (3.7-12.3)	19450-73700 (5.7-21.6)
	Efficiency Range	COP	1.28-8.03	1.22-9.59
	Ambient Temp Range	DegF (DegC)	-13~113 (-25~45)	-13~113 (-25~45)
	Delivered Water Temp Range	DegF (DegC)	68-140 (20-60)	68-140 (20-60)
Electrical	Power	V/Ph/Hz	208-230/1/60	208-230/1/60
	Fan Motor	A	0.3A	0.3A*2
	Compressor Motor	A	14.0A	28.7A
	MCA	A	20.5A	39.4A
	MOPD	A	30.0A	65.0A
	SCCR	kA	5	5
Refrigerant	Type		R32	R32
	Factory Charge	lbs(kg)	3.97 (1.8)	5.73 (2.6)
	Normal Pressure Low Side	PSI	609	609
	Normal Pressure High Side	PSI	174	174
Fan	Quantity		1	2
	Power Input	W	62	62*2
	Type		Brushless DC motor	Brushless DC motor
	Max Speed	RPM	900	900
Sound (1 meter)	Range	dBa	62	57
Hydronic	Rated Flow	GPM	9.1	14.4
	Max Water Temp	DegF(DegC)	140 (60)	140 (60)
	Piping Connections	Inch (cm)	NPT 1-1/4" (DN32)	
	Rated Pressure Drop	PSI (ft W.C)	3.77 (11.27)	3.77 (11.27)
Dimensions	Net Dimensions (L x W x H)	Inch (cm)	45.9*14.6*33.3 (1165*370*845)	43.1*15.6*57.1 (1095*395*1450)
	Shipping Dimensions (L x W x H)	Inch (cm)	48.0*18.3*38.8 (1220*465*985)	45.1*18.1*62.4 (1145*460*1585)
	Net Weight	Lbs (kg)	187.4 (85)	326.3 (148)
	Shipping Weight	Lbs (kg)	229.3 (104)	359.4 (163)
Compressor	Type		Rotary Inverter	Rotary Inverter
	Speed Range	HZ	30-90	30-76
	Brand		Mitsubishi	Mitsubishi
	Quantity		1	1



### 100% CHECKED AND TESTED

Every single NTI product undergoes a rigorous internal process of automated quality, efficiency and safety tests before coming to you.

