

## NEW NAZ Air-to-air Heat Pump

High-efficiency, inverter-driven heating and cooling system AHRI matched with NAS Air Handlers, NAM Cased Coils and other forced-air components



# Introducing the NEW NAZ Air-to-air Heat Pump with premium inverter technology

The Navien NAZ Air-to-air Heat Pump provides heating and cooling by absorbing heat from the outside air and transferring it indoors or by expelling indoor heat to the outside.

The NAZ Heat Pump is energy- and cost-efficient as it operates solely on electricity, and effectively regulates indoor temperatures across various climates.



Through extensive development testing and proprietary algorithms, Navien is able to provide two units that take the place of what would normally require seven different units to cover 1.5~5 tons of capacity.

The NAZ-17V36 will cover 2~3 tons capacity and the NAZ-17V60 will cover 4~5 tons capacity based on the indoor match and airflow selection made during installation.

The NAZ will automatically adjust its capacity/output by monitoring both refrigerant pressures and temperatures that return from the indoor coil and adjust itself to match the specific comfort needs of the space, maximizing comfort while minimizing energy consumption.

#### **Operational**

- Utilizes environmentally friendly R454B, low GWP refrigerant
- Simple interface with Navien Indoor Coil and Air Handler built-in A2L refrigerant detection systems
- Capacity matching operation Two SKUs cover seven traditional capacity units
- Automatically adjusts to the system load using an inverter-driven compressor
- Two unit-mounted seven-segment LEDs for set-up and diagnostics when not using the factory-mounted Bluetooth module
- Works with conventional single- or two-stage thermostats

#### Installation/Service

- Four independent extruded louver access panels provide easy access for thorough annual coil cleaning
- Factory charged for a 25ft. line set
- Field selectable defrost, adaptive or time temperature modes for installation flexibility
- Removable Molex plug to simplify control voltage connections
- Refrigerant-cooled inverter for more efficient high ambient installations
- AHRI matched with Navien NAM Cased Coils and NAS Air Handlers in 2, 3, 4 & 5 ton capacity increments



## NAZ Heat Pump, an inside look

Deep Drawn Venturi for quiet efficient air movement

Swept Wing Fan Blades provide quiet operation

Large Suction Accumulator

Gold Coat Outdoor Coil helps shed water and facilitate quick and efficient defrost





High Pressure Switch

Reversing Valve

Solenoid Valve

Liquid Service Valve

Pressure Sensor

Vapor Service Valve

Suction Service Valve



## The NAZ Heat Pump total HVAC package

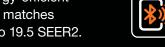




Environmentally friendly R-454B low GWP refrigerant.



**Energy-efficient** with matches up to 19.5 SEER2.





Compatible with single- or two-stage conventional thermostats.



Performs in outdoor temperatures from -4 to 124°F (-20 to 51°C).



Bluetooth module included: provides access for contractors.



Dual-fuel compatibility.





NAS Air Handlers, but is also compatible with other systems.



## NAS Series Air Handler



Multi-position for flexible installation.



Variable speed and standard ECM versions.



Corrosion-resistant aluminum DX refrigerant coil.



5–20 kW field installed electric heat kits.



Slide-out blower assembly for easy maintenance.



Corrosion- and heat-resistant polymer drain pans.



The NAS Air Handler includes a blower, an aluminum DX coil with factory installed TXV, and an A2L sensor in a single package for efficient whole-house forced-air heating and cooling throughout a structure's ductwork.

## NAM Series Cased Coil



Multi-position for easy installation.



Thick foil-faced insulation.



Full perimeter duct flange for air-tight installation.



Installed with a furnace to create a dual-fuel comfort system.





Corrosion-resistant aluminum DX refrigerant coil.



Corrosion- and heat-resistant polymer drain pans.

The NAM cased coils are AHRI matched with the NAZ heat pumps and NPF furnaces. The NAM is provided in traditional widths to even match conventional furnaces in retrofit dual-fuel installations. A factory installed A2L sensor is included.

## NAZ Air-to-air Heat Pump & NPF Hydro-furnace:

The NAZ
Heat Pump and
NPF Hydro-furnace,
the perfect HVAC
system for your
customer's home

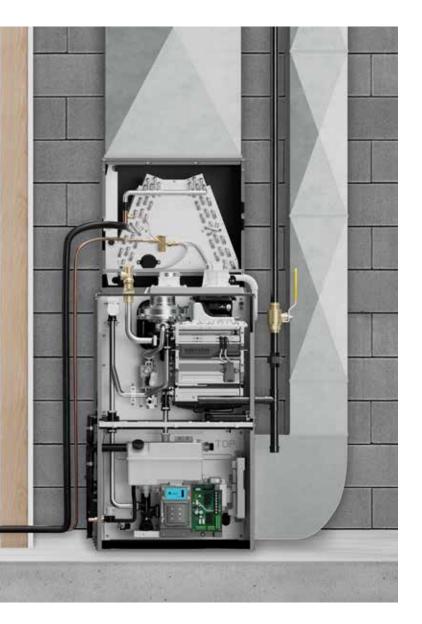
This dual-fuel system offers multiple eco-friendly, high-efficiency heating and cooling advantages with two energy sources. Homeowners in moderate to cold climates will enjoy the benefits of our NAZ electric heat pump when the weather is a little chilly. When it gets really cold, our NPF Hydro-furnace takes over, delivering the next level of heating comfort.





Homeowners will appreciate the perfect pairing of the NAZ eco-friendly electric heat pump and the high-efficiency gas NPF Hydro-furnace, delivering an unbeatable dual-fuel comfort solution. With this system, you can relax knowing that, regardless of the season, your Navien system will automatically adjust to optimize comfort and reduce energy costs.

## the ultimate dual-fuel HVAC system



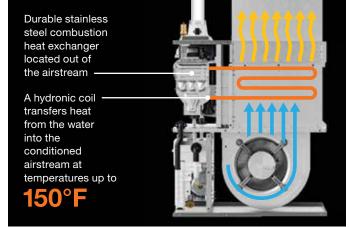
## The technologically advanced eco-friendly, high-efficiency NPF Hydro-furnace

In conventional gas furnaces the combustion heat exchanger is located in the conditioned airstream. This exposes the air to very high temperatures that can dry out the air. The NPF is different, it heats water in a sealed compartment with a stainless steel combustion

heat exchanger, completely isolated from the airstream. The heated water is then circulated through a hydronic heat exchanger that gently transfers the heat into the air. This system improves operational control and provides quiet, comfortable heat at much lower temperatures, which has less impact on conditioned air humidity levels.







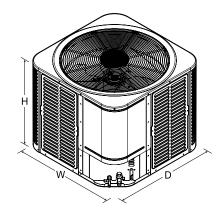
#### NAZ Heat Pump, NAM Cased Coil and NPF Hydro-furnace matches

	Match Setup				acity	Effi	ciency (BTU/	'h/W)
Capacity	ODU	IDU	Cased Coil	Cooling	Heating	EER2	SEER2	HSPF2
2 ton	NAZ-17V36	NPF700-060U3BH	NAM24B2TA1	22,800	24,800	11.70	16.60	8.75
2 ton	NAZ-17V36	NPF700-060H3BH	NAM24B2TA1	22,000	24,400	11.40	16.30	8.75
2 ton	NAZ-17V36	NPF700-080U3BH	NAM24B2TA1	22,800	24,800	11.70	16.60	8.75
2 ton	NAZ-17V36	NPF700-080H3BH	NAM24B2TA1	22,000	24,400	11.40	16.30	8.75
3 ton	NAZ-17V36	NPF700-060U3BH	NAM36B2TA1	33,000	35,400	10.60	16.00	8.55
3 ton	NAZ-17V36	NPF700-060H3BH	NAM36B2TA1	33,000	36,000	10.30	15.10	8.55
3 ton	NAZ-17V36	NPF700-080U3BH	NAM36B2TA1	33,000	35,400	10.60	16.00	8.55
3 ton	NAZ-17V36	NPF700-080H3BH	NAM36B2TA1	33,000	36,000	10.30	14.30	8.00
4 ton	NAZ-17V60	NPF700-100U5CH	NAM48C2TA1	46,500	47,500	10.50	15.40	9.30
4 ton	NAZ-17V60	NPF700-100H5CH	NAM48C2TA1	43,000	47,500	9.85	14.30	9.30
5 ton	NAZ-17V60	NPF700-100U5CH	NAM59C2TA1	55,500	55,500	9.60	15.40	9.10
5 ton	NAZ-17V60	NPF700-100H5CH	NAM59C2TA1	51,500	56,000	9.10	14.30	8.50
5 ton	NAZ-17V60	NPF700-100U5CH	NAM59D2TA1	55,500	55,500	9.60	15.40	9.10
5 ton	NAZ-17V60	NPF700-100H5CH	NAM59D2TA1	51,500	56,000	9.10	14.30	8.50

## NAZ Series Air-to-air Heat Pump

#### Specifications

	Itama	Model			
	Items	NAZ-17V36	NAZ-17V60		
	Dimensions W x D x H, in (mm)	29-1/8 x 29-1/8 x 25 (740 x 740 x 635)	29-1/8 x 29-1/8 x 32-7/8 (740 x 740 x 835)		
Unit	Packing WxDxH, in (mm)	29-7/8 x 29-7/8 x 29-3/8 (759 x 759 x 745)	29-7/8 x 29-7/8 x 37-1/5 (759 x 759 x 945)		
	Net/gross weight, lbs (kg)	142/171 (64/78)	190/218 (86/99)		
Thermostat ty	/pe	Conventional	1- or 2-stage		
	Voltage (V) - Phase (Ph) - Hertz (Hz)	230 –	1 – 60		
Electrial	Minimum circuit ampacity (A)	20	30		
data	Max. overcurrent protection (A)	25	40		
	Volts (V) min – max	187 -	- 253		
	Туре	Rot	ary		
Compressor	Hz	18-	00		
Compressor	Rated current (RLA) (A)	13.9	22		
	LRA	52	58.1		
	Power supply	DC			
Fan motor	RLA (A)	1/7	2/7		
ranmoloi	Maximum speed (rpm)	1100			
	FLA (A)	1.1	1.2		
	Number of rows	2			
Coil	Tube outside diameter, in	9/32			
	Tube pitch x row pitch, in (mm)	0.53 x 0.83 (13.5 x 21)			
	Refrigerant	R454B			
	Liquid line, in (mm)	3/8 (9.5)			
Refrigerant system	Vapor line, in (mm)	3/4 (19)	7/8 (22.2)		
oyotorri	Factory charge (oz)	116.4	155.2		
	Expansion valve (for heating)	EEV			
Operating	Cooling mode °F (°C)	5~124 (-15~51.2)			
temperature Heating mode °F (°C)		-4~75 (-20~23.9)			
SEER2		Up to 19.5			
HSPF2		Up to 9.3*			
Certifications		ALDI	CERTIFIED • CONTROL OF STREET		



#### **Included Parts**



\*The RS-485 connector is already connected to the Bluetooth module.

Navien reserves the right to change specifications at any time without prior notice. Please refer to www.navieninc.com to verify you have the most current information.

#### NAZ Heat Pump and NAS Air Handler matches

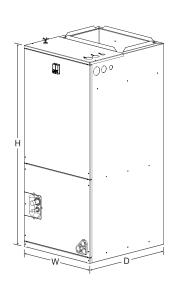
Match Setup			Сар	acity	Efficiency (BTU/h/W)		
Capacity	ODU	IDU	Cooling	Heating	EER2	SEER2	HSPF2
2 ton	NAZ-17V36	NASS24B2T2A1	22,600	23,600	12	17	8.75
3 ton	NAZ-17V36	NASS36C2T2A1	32,200	32,600	11.1	16.6	8.6
4 ton	NAZ-17V60	NASS48D2T2A1	44,000	44,000	11.1	17.3	8.6
5 ton	NAZ-17V60	NASS59D2T2A1	54,000	56,000	9.85	16.3	8.5
2 ton	NAZ-17V36	NASV24B2T2A1	23,400	25,000	12.40	18.00	8.75
3 ton	NAZ-17V36	NASV36C2T2A1	34,400	36,000	11.70	19.50	8.75
4 ton	NAZ-17V60	NASV48D2T2A1	46,500	45,000	11.40	18.00	9.30
5 ton	NAZ-17V60	NASV59D2T2A1	56,000	56,000	10.45	18.50	9.10

<sup>\*</sup>With select AHRI matched indoor equipment.

## NAS Air Handler and NAM Cased Coil

#### NAS Air Handler specifications

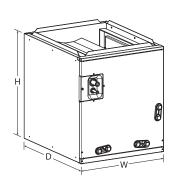
Items	Model Number				
NASS (SECM) Constant Torque	NASS24B	NASS36C	NASS48D	NASS59D	
NASV (VSD) Constant CFM	NASV24B	NASV36C	NASV48D	NASV59D	
Nominal capacity	2 ton	3 ton	4 ton	5 ton	
Dimensions W x H x D, in (mm)	17.5 x 43 x 21 (444 x 1092 x 533)	21 x 48 x 21 (533 x 1219 x 533)	24.5 x 58.8 x 21.75 (622 x 1494 x 552)	24.5 x 58.8 x 21.75 (622 x 1494 x 552)	
Refrigerant		R-4	54B		
Tube material	Aluminum				
Tube type		Rif	led		
Fin material	Aluminum				
Fin type	Lanced				
Certifications	CERTIFIED. INTEREX				



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#### NAM Cased Coil specifications

lkama	Model Number						
Items	NAM24B	NAM36B	NAM36C	NAM48C	NAM59C	NAM59D	
Capacity	2 ton	3 ton	3 ton	4 ton	5 ton	5 ton	
Dimensions W x H x D, in (mm)		17.5 x 20 x 21				24.5 x 35 x 21 (622 x 889 x 533)	
Refrigerant	Refrigerant R-454B						
Tube material	Aluminum						
Tube type	Rifled						
Fin material	Aluminum						
Fin type	Lanced						
Certifications	CERTIFIED.						



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### NAS Air Handler accessories

## Field installed electric heat with breaker for NASS

Electric Heat Model Number	Air Handler Model Number	Kilowatts
NEHS05B		5
NEHS08B	NASS24	8
NEHS10B		10
NEHS05C	NASS36	5
NEHS08C		8
NEHS10C		10
NEHS15C		15
NEHS05D		5
NEHS08D		8
NEHS10D	NASS48/59	10
NEHS15D		15
NEHS20D		20

## Field installed electric heat with breaker for NASV

Electric Heat Model Number	Air Handler Model Number	Kilowatts
NEHV05B		5
NEHV05B	NASS24	8
NEHV05B		10
NEHV05B	NACCOC	5
NEHV05B		8
NEHV05B	NASS36	10
NEHV05B		15
NEHV05B		5
NEHV05B		8
NEHV05B	NASS48/59	10
NEHV05B		15
NEHV05B		20

## Installation clearances

Model	Тор	Back	Sides Front of Furnace		Duct	
Model	(in)	(in)	(in)	Alcove (in)	Closet (in)	(in)
NASV/NASS	0	0	0	30	6	0

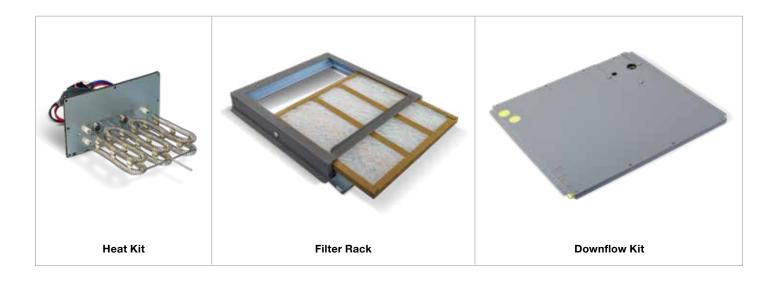
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#### Filter rack

Air Handler Model Number	Filter Rack Model Number	Filter Rack Assembly Sizes
NASS/NASV24B	NAHFBB	16" x 20" x (1" or 2") For small chassis
NASS/NASV36C	NAHFBC	20" x 20" x (1" or 2") For medium chassis
NASS/NASV48D & 59D	NAHFBD	20" x 24" x (1" or 2") For large chassis

#### Downflow kit

Air Handler Model Number	Downflow Kit Model Number	Description
NASS/NASV24B	NAHDFB	Downflow kit small
NASS/NASV36C	NAHDFC	Downflow kit medium
NASS/NASV48D & 59D	NAHDFD	Downflow kit large



## Customer support and advanced training



Besides supplying the most innovative and energy efficient systems for residential and commercial applications, Navien provides extensive field support, webinars and training events for builders, architects and contractors. Our full-time customer support network provides quick answers to installation and operational questions.



## Creating comfortable living environments through industry-leading, innovative energy-efficient, eco-friendly technology



Navien has already been recognized by BRG\* as the leading manufacturer of gas condensing tankless water heaters for 16 consecutive years, and as the leading seller of wall-hung boilers since 2012. Now Navien has achieved an even greater distinction as the number one selling brand of condensing and non-condensing gas tankless water heaters in 2023. Navien continues its passion for developing the most ingenious water heating, HVAC and water treatment products for our residential and commercial customers, while saving energy, saving water and protecting the planet.

#### Warranty

Model	Application	Residential		
Model	Application	Standard	Registered	
NAZ Air-to-air Heat Pump	Compressor & Parts	5 years	10 years	
	Labor	90 days	90 days	
NAS Air Handler	Parts	5 years	10 years	
NAS Air Handler	Labor	90 days	90 days	
NAM Cased Coil	Parts	5 years	10 years	
NAW Caseu Con	Labor	90 days	90 days	

Navien's warranty (which may be changed without prior notice) is subject to the terms and conditions found at www.navieninc.com/warranties.

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<sup>\*</sup>According to global market intelligence provider BRG Building Solutions.