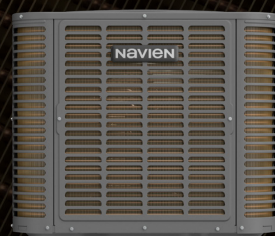


NAZ Series

 **navien**

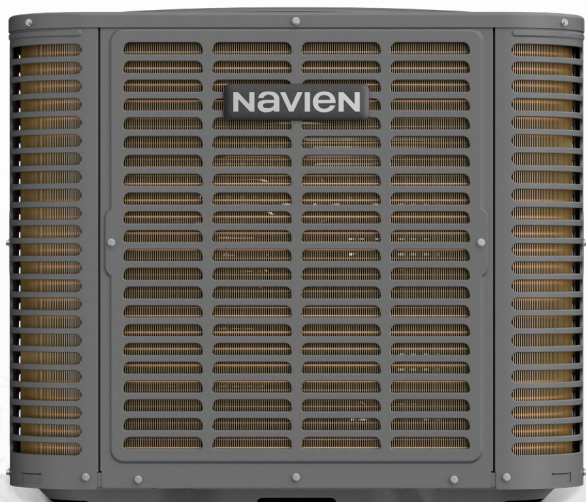
NEW NAZ Air-to-air Heat Pump

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 terminal block 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



Compressor

EEV

High Pressure Switch

Reversing Valve

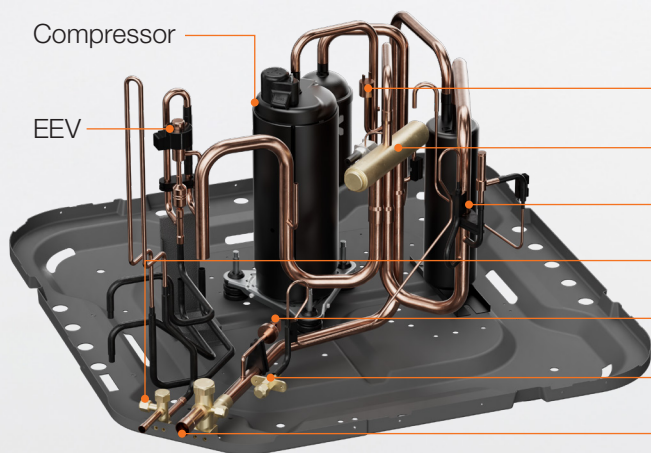
Solenoid Valve

Liquid Service Valve

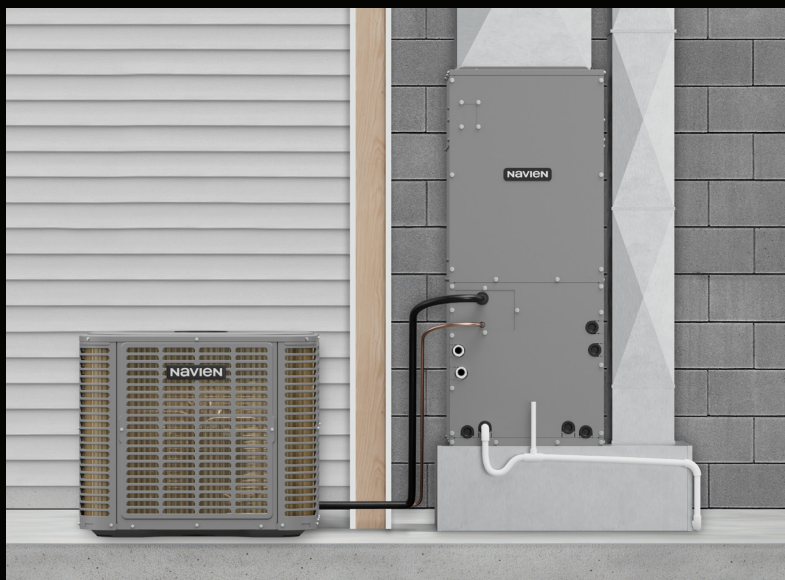
Pressure Sensor

Vapor Service Valve

Suction Service Valve



The NAZ Heat Pump total HVAC package



Environmentally friendly R-454B low GWP refrigerant.



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



Energy-efficient with matches up to 19.5 SEER2.



Bluetooth module included: provides access for contractors.



Compatible with single- or two-stage conventional thermostats.



Dual-fuel compatibility.



The NAZ Heat Pump AHRI matched with the NAM Cased Coils and 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.



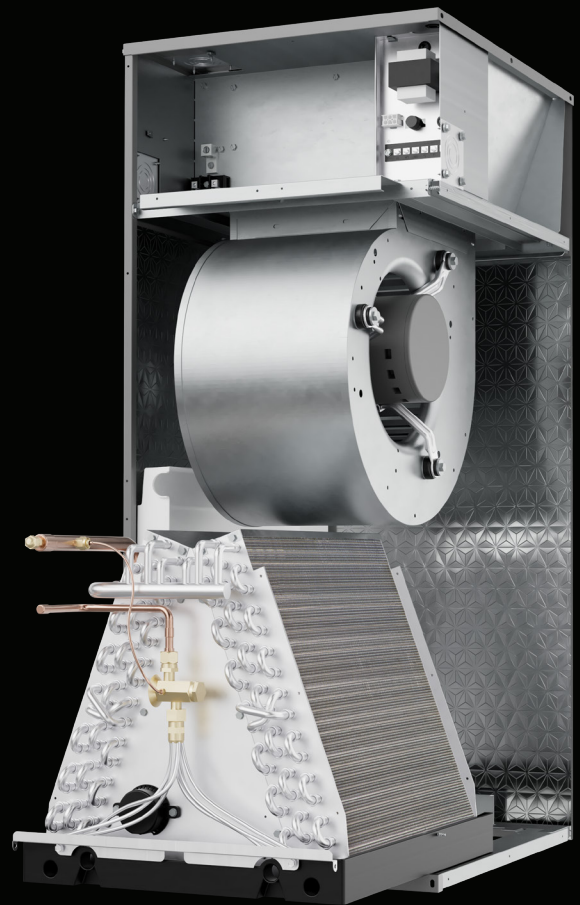
5-20 kW field installed electric heat kits.



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:

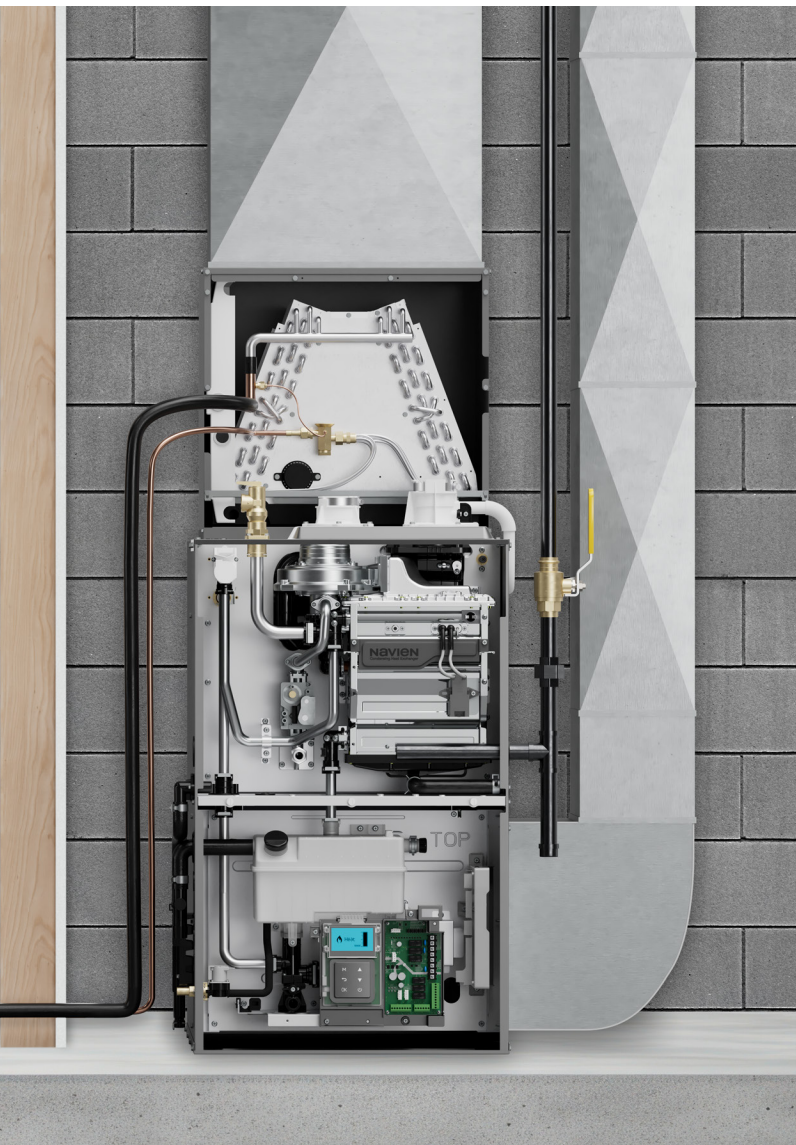
The NAZ Heat Pump and NPF Hydro-furnace, the perfect HVAC system for your customer's home

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.



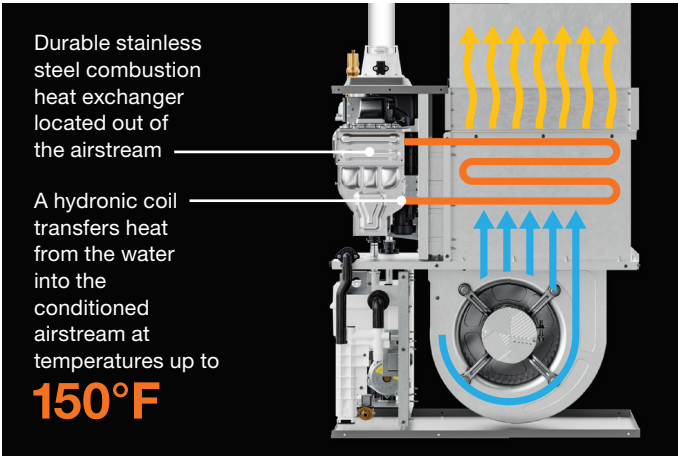
Homeowners will appreciate the perfect pairing of the NAZ eco-friendly electric heat pump and the high-efficiency gas NPF Hydro-furnace, delivering an unbeatable dual-fuel comfort solution. With this system, you can relax knowing that, regardless of the season, your Navien system will automatically adjust 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				Capacity (BTU/h)		Efficiency		
Capacity	ODU	IDU	Cased Coil	Cooling	Heating	EER2 ¹	SEER2 ²	HSPF2 ³
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

Subject to change. Please visit ahridirectory.org for the latest performance data.

¹ Energy Efficiency Ratio; Certified per AHRI 210/240

² Seasonal Energy Efficiency Ratio; Certified per AHRI 210/240

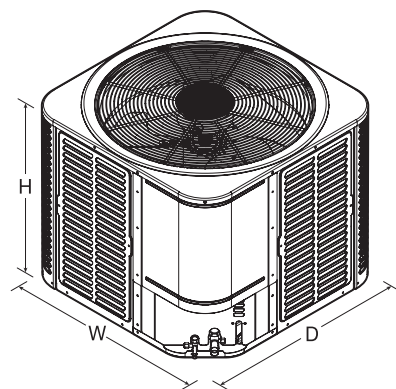
³ Heating Seasonal Performance Factor; Certified per AHRI 210/240

NAZ Series Air-to-air Heat Pump

Specifications

Items		Model	
		NAZ-17V36	NAZ-17V60
Unit	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)
	Packing W x D x H, 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 37-1/4 (759 x 759 x 945)
	Net/gross weight, lbs (kg)	142/171 (64/78)	190/218 (86/99)
Thermostat type		Conventional 1- or 2-stage	
Electrical data	Voltage (V) – Phase (Ph) – Hertz (Hz)	230 – 1 – 60	
	Minimum circuit ampacity (A)	20	30
	Max. overcurrent protection (A)	25	40
	Volts (V) min – max	187 – 253	
Compressor	Type	Rotary	
	Hz	18–100	
	Rated current (RLA) (A)	13.9	22
	LRA	52	58.1
Fan motor	Power supply	DC	
	RLA (A)	1/7	2/7
	Maximum speed (rpm)	1100	
	FLA (A)	1.1	1.2
Coil	Number of rows	2	
	Tube outside diameter, in	9/32	
	Tube pitch x row pitch, in (mm)	0.53 x 0.83 (13.5 x 21)	
Refrigerant system	Refrigerant	R454B	
	Liquid line, in (mm)	3/8 (9.5)	
	Vapor line, in (mm)	3/4 (19)	7/8 (22.2)
	Factory charge (oz)	116.4	155.2
	Expansion valve (for heating)	EEV	
Operating temperature	Cooling mode °F (°C)	5~124 (-15~51.2)	
	Heating mode °F (°C)	-4~75 (-20~23.9)	
SEER2		Up to 19.5*	
HSPF2		Up to 9.3*	

*With select AHRI matched indoor equipment.
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.



Included Parts



Bi-directional Filter Drier



Bluetooth Module (NAC-10SM)
Bluetooth Cable*
(4-Wire, RS-485 Connector)

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

NAZ Heat Pump and NAS Air Handler matches

Match Setup			Capacity (BTU/h)		Efficiency		
Capacity	ODU	IDU	Cooling	Heating	EER2 ¹	SEER2 ²	HSPF2 ³
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

Subject to change. Please visit ahridirectory.org for the latest performance data.



¹ Energy Efficiency Ratio; Certified per AHRI 210/240

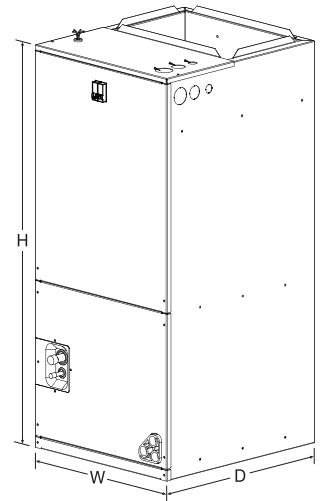
² Seasonal Energy Efficiency Ratio; Certified per AHRI 210/240

³ Heating Seasonal Performance Factor; Certified per AHRI 210/240

NAS Air Handler and NAM Cased Coil



NAS Air Handler specifications

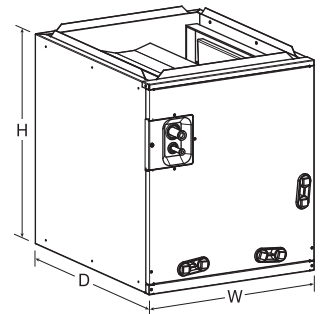
Items	Model Number			
	NASS24B	NASS36C	NASS48D	NASS59D
NASS (SECM) Constant Torque				
NASV (VSD) Constant CFM				
Nominal capacity	2 ton	3 ton	4 ton	5 ton
Dimensions W x H x D, in (mm)	17.5 x 43 x 21 (444 x 1092 x 533)	21 x 48 x 21 (533 x 1219 x 533)	24.5 x 58.8 x 21.75 (622 x 1494 x 552)	24.5 x 58.8 x 21.75 (622 x 1494 x 552)
Refrigerant	R-454B			
Tube material	Aluminum			
Tube type	Rifled			
Fin material	Aluminum			
Fin type	Lanced			
Certifications	 			



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.

NAM Cased Coil specifications

Items	Model Number					
	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 (445 x 508 x 533)		21 x 20 x 21 (533 x 508 x 533)	21 x 34 x 21 (533 x 889 x 533)		24.5 x 34 x 21 (622 x 889 x 533)
Refrigerant	R-454B					
Tube material	Aluminum					
Tube type	Rifled					
Fin material	Aluminum					
Fin type	Lanced					
Certifications	 					



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.

NAS Air Handler accessories

Installation clearances

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

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.

Filter rack

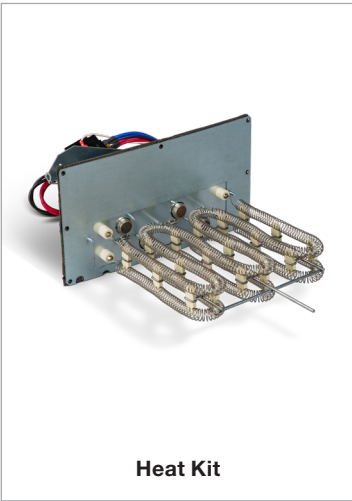
Air Handler Model Number	Filter Rack Model Number	Filter Rack Assembly Sizes
NASS/NASV24B	NAHFBB	16" x 20" x (1" or 2")
NASS/NASV36C	NAHFBC	20" x 20" x (1" or 2")
NASS/NASV48D & 59D	NAHFBD	20" x 24" x (1" or 2")

Downflow kit

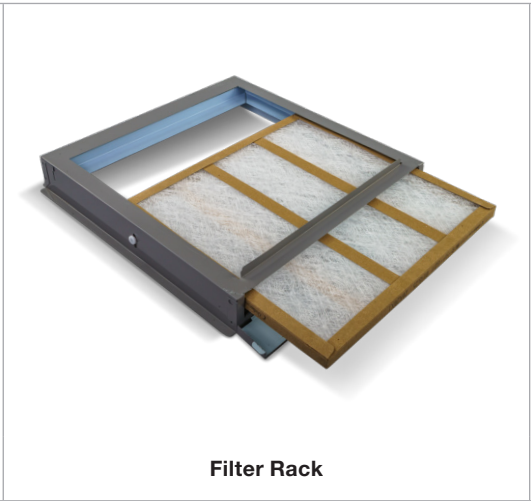
Air Handler Model Number	Downflow Kit Model Number	Description
NASS/NASV24B	NAHDFB	Downflow kit (24k)
NASS/NASV36C	NAHDFC	Downflow kit (36k)
NASS/NASV48D & 59D	NAHDFD	Downflow kit (48k, 59k)

Field installed electric heat with breaker for NASS and NASV


Electric Heat Model Number	Air Handler Model Number	Kilowatts
NEHV05B	NASS/NASV24	5
NEHV08B		8
NEHV10B		10
NEHV05C	NASS/NASV36	5
NEHV08C		8
NEHV10C		10
NEHV15C		15
NEHV05D	NASS/NASV48 & 59	5
NEHV08D		8
NEHV10D		10
NEHV15D		15
NEHV20D		20



Heat Kit



Filter Rack



Downflow Kit

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.

*According to global market intelligence provider BRG Building Solutions.

Warranty

Model	Application	Residential	
		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
	Labor	90 days	90 days
NAM Cased Coil	Parts	5 years	10 years
	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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