



NDF Series

NEW NDF600 Condensing 2-Stage Gas Furnace

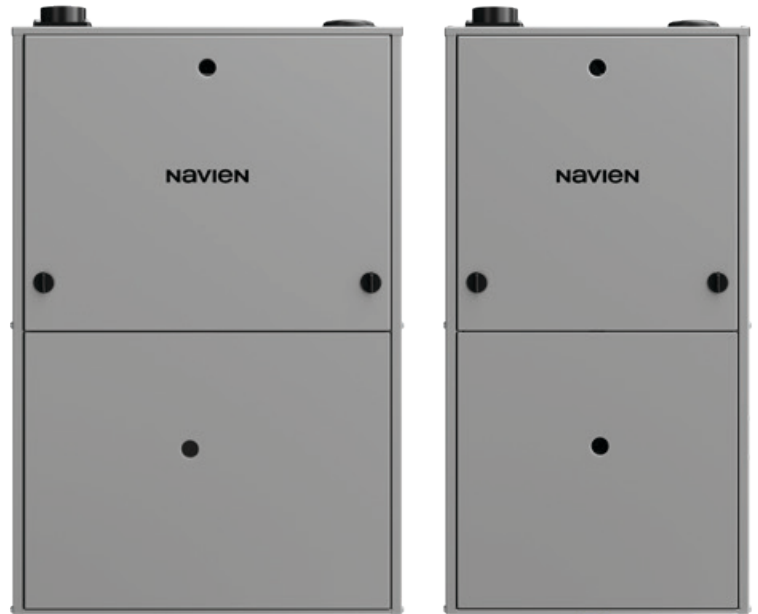
Deluxe high-efficiency, 2-stage variable-speed furnace with flexible 4-way multi-position installation and modular blower and heat exchanger assemblies



Introducing the NEW NDF600 Condensing Gas Furnace

The perfect balance of efficiency and comfort with its 2-stage gas burner and variable speed motor technology

The NDF600 Series adds five new options to the residential gas furnace offering from Navien. The available models bring comfort and cost savings to homeowners, while simplifying installation for contractors. The 2-stage design delivers enhanced comfort and efficiency by automatically adjusting output to match heating demand which improves energy savings compared to single-stage systems. Combined with a variable speed blower, this system provides quiet operation and more consistent temperatures.



Designed and built for the toughest climates

The NDF600 Advantage

Available in capacities ranging from 50k to 105k BTU/h, the NDF600 Series gas furnaces offer high-efficiency and reliable heating, even in cold-climate regions. The flexible design features integrated diagnostics and modular construction to simplify service. Each model is backed by exceptional customer service and a strong warranty.

**96%
AFUE**

96% AFUE
high-efficiency condensing.



2-stage operation minimizes temperature swings by adjusting between low and high fire.



Modular blower and heat exchanger assemblies for easy maintenance.



Dual-fuel compatibility optimizes energy savings when paired with a heat pump.



4-way multi-position installation: upflow, downflow, horizontal left and horizontal right.



Variable speed ECM motor simplifies airflow setup and helps reduce callbacks.



Zero clearance allows simple installation for closets or alcoves.



High altitude certified up to 5400 ft* without conversion. Approved for NG and LP installations up to 10,000 ft.

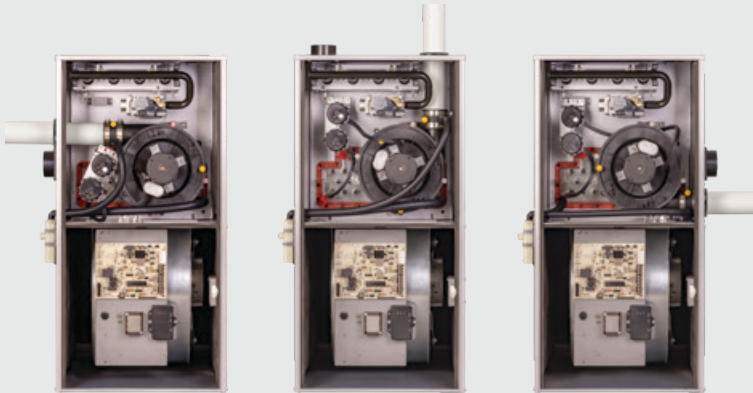
*For NG only, LP conversion required above 2000 ft.



One compact furnace engineered for flexible installation

The NDF furnace series features a compact 34" height and is available in two cabinet widths, 17.5" and 22.5", making it an ideal solution for some of the industry's tightest installation spaces. Engineered for maximum versatility, the NDF offers zero-clearance installation and supports multiple venting and installation configurations, including upflow, downflow, horizontal left, and horizontal right, all from a single unit. Whether for retrofit projects or new construction, the NDF is designed to simplify installation, improve serviceability, and provide the flexibility contractors need on every job.

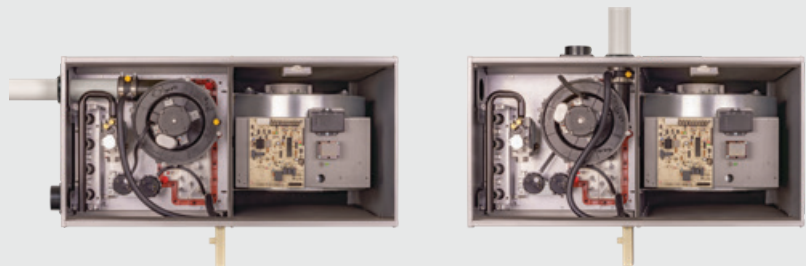
Upflow configurations



Downflow configurations



Horizontal left configurations

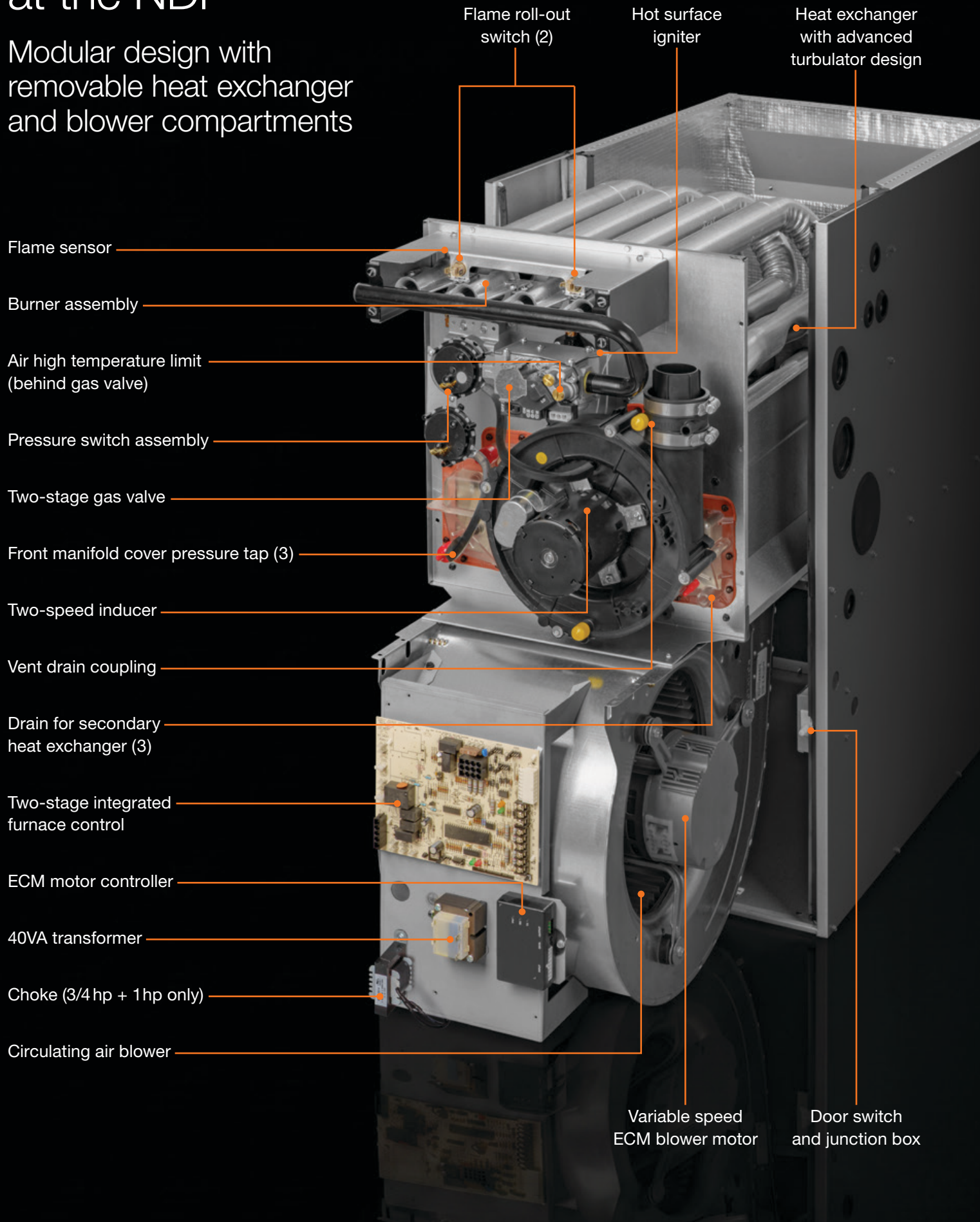


Horizontal right configurations



An inside look at the NDF

Modular design with
removable heat exchanger
and blower compartments



Navien capacity-matched HVAC systems



Complete your comfort system with Navien. Pair the NDF Furnace with an NAA Air Conditioner and NAM Cased Coil for reliable, year-round heating and cooling.

Navien's inverter-driven air conditioners and capacity-matched cased coils are engineered to deliver balanced airflow, precise temperature control, optimized refrigerant performance, and reduced system cycling.

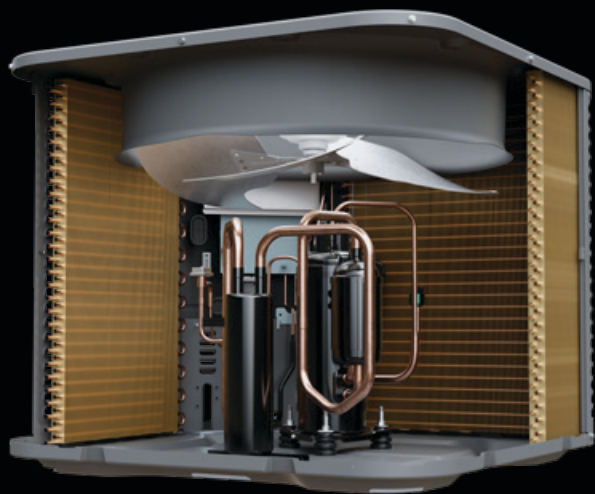
The result is a complete, system-matched HVAC solution that's easy to install, easy to service, and designed to maximize whole-home comfort in every season.



NAA Air Conditioner

High-efficiency cooling,
simplified

The NAA Series delivers reliable, high-efficiency air conditioning using inverter-driven, variable-capacity technology designed to match real-world cooling demand. Instead of cycling on and off at full power, NAA continuously adjusts output in small, precise increments to maintain comfort more efficiently and quietly.



Energy-efficient with matches up to 18.0 SEER2.



Inverter driven variable-speed compressor.



Compatible with single- or two-stage conventional thermostats.



Performs in outdoor temperatures from 5°F to 124°F (-15°C to 51°C).



Environmentally friendly R-454B low GWP refrigerant.



Two outdoor units covering 1.5-5.0 ton applications.

To learn more about
the NAA Air Conditioner:



NAM Cased Coil

Efficient and durable with
seamless performance

Designed for long-lasting reliability and optimal comfort, NAM Cased Coils deliver efficient, high-quality heat transfer while ensuring seamless integration with Navien heat pumps, furnaces, and air conditioners. With corrosion-resistant aluminum construction, a factory-installed TXV, and leak-tested assurance, these coils provide peace of mind and exceptional performance in any home HVAC system.



Multi-position for easy installation.



Thick foil-faced insulation for easy cleaning.



Full perimeter duct flange for air-tight installation.



Built-in refrigerant leak detection and mitigation control.



Corrosion-resistant aluminum DX refrigerant coil.



Corrosion- and heat-resistant polymer drain pans.

To learn more about
the NAM Cased Coil:



Specifications

Items		NDF600-050M2V3B	NDF600-070M2V3B	NDF600-070M2V4C	NDF600-090M2V5C	NDF600-105M2V5C
Applications		Residential, light commercial				
Installation type		Upflow / horizontal right / horizontal left / downflow				
Venting type		Forced draft direct vent / non-direct vent				
Maximum vent length	2.0 in	75 ft				
	3.0 in	100 ft				
Ignition		Hot surface igniter				
Natural gas supply pressure		5.0–10.5 in WC				
Propane gas supply pressure		11.0–13.0 in WC				
Natural gas manifold pressure (high/low)		3.5 / 1.4 in WC				
Propane gas manifold pressure (high/low)		10.0 / 5.0 in WC				
Gas connection size		1/2 in NPT				
Condensate drain size		0.84 in (sized for 1/2" Schedule 40 tee fitting)				
Materials	Primary heat exchanger	T140 aluminized steel				
	Condensing heat exchanger	29-4C stainless steel				
Venting	Exhaust	1-1/2 in – 3 in	2.0 in – 3.0 in			
	Intake					
	Materials					
Clearance to combustibles		PVC, CPVC, PVC-DWV* 0 in**				
Electrical data	Volts/Hz/Phase	120 / 60 / 1				
	Max breaker or fuse	15 amp				
	Wire size	14 awg				
Unit dimensions	H x W x D – in (mm)	34 x 17.5 x 29.5 – (864 x 445 x 749)			34 x 22.5 x 29.5 – (864 x 572 x 749)	
Unit weight	lb (kg)	128 (58.1)	138 (62.6)	156 (70.8)	164 (74.4)	168 (76.2)
Shipping dimensions	H x W x D – in (mm)	35 x 20 x 33 – (889 x 508 x 838)			35 x 25 x 33 – (889 x 635 x 838)	
Certifications		 QUALIFIED ONLY ENERGY STAR www.energystar.gov  AHRI CERTIFIED www.ahri.org  UL LISTED UL  STAR-KITEMARK UL				

*See installation manual for regional venting material requirements.

**Applicable for all sides except top plenum.

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.

Heating capacity and efficiency

Items		NDF600-050M2V3B	NDF600-070M2V3B	NDF600-070M2V4C	NDF600-090M2V5C	NDF600-105M2V5C
Installation type		Upflow / horizontal right / horizontal left / downflow				
Input (BTU/h)	Max heat	53,000	70,000	70,000	88,000	105,000
	Min heat	36,000	49,000	49,000	60,000	73,000
Output (BTU/h)	Max heat	50,000	67,000	67,000	84,000	101,000
	Min heat	34,000	47,000	47,000	57,000	70,000
AFUE		96%				
Certified temperature rise range °F (°C)	High Fire	40–70 (22–39)				
	Low Fire	35–65 (19–36)				
Burner control		2-Stage				

Blower data

Items		NDF600-050M2V3B	NDF600-070M2V3B	NDF600-070M2V4C	NDF600-090M2V5C	NDF600-105M2V5C
External static pressure (inWC)	Heating	0.12–0.5	0.15–0.5		0.2–0.5	
	Cooling	0.1–1.0*				
Nominal cooling airflow (TON)	@400 CFM	1.5–3.0		1.5–4.0		2.0–5.0
	@350 CFM	1.5–3.5		1.5–4.5		2.5–5.5
Circulator blower	Horsepower	1/2 hp		3/4 hp		1 hp
	Motor speed & type	Variable speed ECM				

*Cooling airflow certified up to 0.5", see installation manual for additional information regarding airflow.

Warranty

NDF – Coverage Table for Labor and Parts Only			
Residential ²			Commercial
Parts ¹	Registered ³	10 years	1 year
	Non-registered ⁴	5 years	
Labor	90 days		
NDF – Coverage Table for Combustion Heat Exchanger Only			
Residential ²			Commercial
Registered ³		Limited lifetime	10 years
Non-registered ⁴		20 years	

¹Refers to all internal functional components of the unit.

²Applies only to a single-family dwelling that services one (1) living unit. Any property converted or utilized to service two or more separate dwelling units, regardless of the municipal address, is automatically classified as a Commercial application and is subject to the reduced warranty period.

³Refers to coverages for units registered within 60 days of the Commencement Date.

⁴Refers to coverages for units registered 61 days or more after the Commencement Date; Secondary Owners.

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

Dimensions



Dimensional drawings & measurements.

Accessories and components are subject to change or discontinuation without notice. Images are for illustrative purposes only and actual products may vary based on current vendor availability. Navien reserves the right to substitute equivalent accessories or components from alternative vendors as necessary.

For the most up-to-date product information and current accessory availability, please visit navieninc.com or contact your local Navien representative.

We are @Navieninc everywhere



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