

CENTRAL-MOOV NOW FEATURING ENVIRONMENTALLY FRIENDLY R454B REFRIGERANT! The new Central-Moov system brings the Moovair proven inverter technology into a new generation of efficiency and environmental responsibility. Engineered for the future, 454B refrigerant helps reduce global warming potential while maintaining the performance and flexibility contractors and homeowners expect. With shared outdoor units and flexible indoor matchups, including options optimized for cold climates and those suited for broad regional applications, Central-Moov delivers year-round comfort with confidence.



ADVANCING COMFORT, EVOLVING RESPONSIBLY.

Every Central-Moov 454B system is built on the same reliable foundation - a compact, quiet, inverter-driven platform designed to meet today's performance standards and tomorrow's expectations. With multiple configuration options, each system is engineered for efficiency, flexibility, and lasting comfort in a wide range of applications.

R454B

CENTRALLY DUCTED SYSTEM WITH SIDE DISCHARGE CONDENSER FEATURES FOR ALL MODELS:

HIGH EFFICIENCY

- Up to 19 SEER2 and 10.8 HSPF2 performance ratings
- Inverter compressor adjusts to match demand reducing energy use and wear

WHISPER OUIET

- Outdoor unit operates as low as 57 dB(A)
- Significantly quieter than many traditional HVAC systems





BULLETPROOF OPERATION

- Maintains consistent airflow performance even in challenging ductwork conditions
- Designed for durability and long-term system protection
- Self-cleaning condenser fan, heated base pan and fault prevention diagnostics

B DUAL FUEL COMPATIBLE

- Outdoor unit pairs with a 3rd party gas furnace via an AHRI-rated coil
- Supports a variety of hybrid systems

RETROFIT FLEXIBLE

- Compatible with existing line sets (requires cleaning and verification)
- Braze, flare, or press connections supported

FILTER RACK

- Included rack accepts standard sized filters via tool-less installation
- Strong magnetic closure for easy maintenance

WARRANTY

• 10-year parts, 2-year unit replacement and 90 day labor





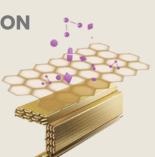


Disclaimer. Warranty coverage requires installation by a licenses HVAC professional. Improper installation may void warranty. See full warranty document for terms and conditions.



ENHANCED CORROSION PROTECTION

- · Goldfin hydrophilic coating helps shed water to reduce coil buildup and improve reliability
- · 200-hour NSS tested with> RtNo9.5 and no perforation for proven durability in harsh conditions



SMALL FOOTPRINT

- Up to 40% smaller than conventional heat pumps
- · Side-discharge design fits tighter spaces and
- All heat pump models feature a space-saving singlefan format except for the Heat+ 5 ton which includes a twin fan configuration for maximum output







MULTI-POSITIONAL

· Air handler and add-on coils install in any orientation without additional kits

PRECISION INVERTER PERFORMANCE

- Advanced inverter modulation adjusts in 1% increments for precise temperature control and optimal efficiency
- Reduced compressor cycling lowers energy use and reduces component wear and tear, while maintaining consistent indoor comfort



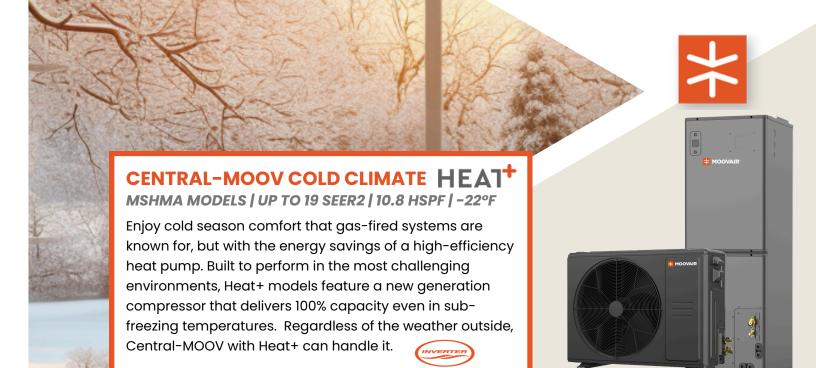
BACKED BY INDUSTRY CERTIFICATIONS

- Verified by Energy Star®, Energy Star Cold Climate® and AHRI® for trusted performance
- Help qualify for energy and/or tax rebates









CONSISTENT COMFORT DELIVERED

 Both Gen2 and Gen3 air handlers use variablespeed motors to maintain proper airflow across varying duct conditions. Gen3 models support up to 1.0" static pressure (up to 36K), and both are dual-voltage compatible for flexible installs.

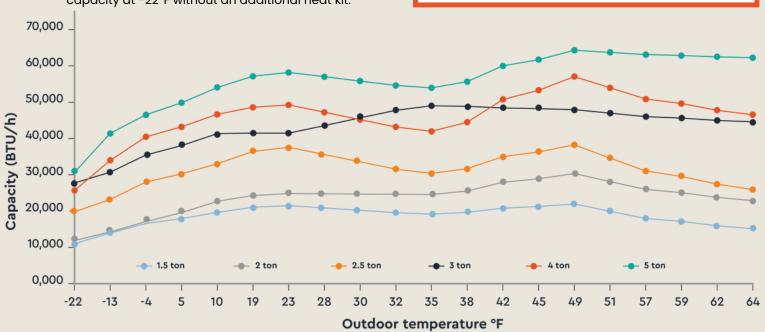
HEAT+ PERFORMANCE

- Delivers 100% heating capacity down to 4°F using only the compressor making it much more efficient than traditional heat pumps using electronic supplemental heat (kW strips).
- Operates efficiently in extreme cold at nearly 60% capacity at -22°F without an additional heat kit.

POWER BOOST MODE

- Inverter can double output for rapid heating and cooling
- Quickly returns space to setpoint before stabilizing at optimal efficiency





HEAT P	UMP SYSTEM	18,000 BTU*	24,000 BTU*	30,000 BTU*	36,000 BTU*	48,000 BTU*	60,000 BTU*
Outdoor N	Model	MSH M A18R2AN1*	MSH M A24R2ANI*	MSH M A30R2AN1*	MSH M B36R2ANI*	MSH M A48R2AN1*	MSH M A60R2ANI*
Indoor Mo	odel	MAH H A18R4AS1*	MAH H A24R4AS1*	MAH H A30R4AS1*	MAH H A36R4AS1*	MAH H A48R4AS1*	MAH H A60R4AS1*
Heat+ Tea	chnology	✓	✓	✓	✓	✓	✓
Power Sup	oply (V/Ph/Hz)	208-230V/1Ph/60Hz	208-230V/1Ph/60Hz	208-230V/1Ph/60Hz	208-230V/1Ph/60Hz	208-230V/1Ph/60Hz	208-230V/1Ph/60H
	Capacity (BTU/h)	4,600~23,100	6,400~28,700	11,200~40,000	12,100~43,000	18,000~52,000	11,400~60,000
Cooling	EER2 (BTU/h)	12.5	12.0	12.0	12.0	12.0	12.0
	SEER2 (BTU/h)	19.0	18.6	17.2	18.0	17.5	17.5
	Capacity (BTU/h)	5,700~23,100	6,700~29,100	9,700~35,800	11,400~47,000	13,500~52,000	8,600~60,000
Heating	СОР	3.6	3.49	3.54	3.5	3.28	3.35
	HSPF2 Region IV	10.1	10.0	10.8	10.0	9.5	9.5
	Outdoor Compressor Type	Rotary	Rotary	Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Outdoor	Fan Motor Quantity	1	1	1	1	1	2
Unit	Outdoor Noise Level (dBA)	56.5	59.0	62.0	63.0	65.0	64.5
	Dimension (WxDxH)	35.04×13.46×26.50	35.04×13.46×26.50	37.24×16.14×31.89	38.58×16.34×38.39	38.58×16.34×38.39	37.48×16.34×52.48
Indoor	Indoor Noise Level (Turbo/Hi/Mi/Lo/Si) (dBA)	N/A/42.5/40.5/ 37/N/A	N/A/47.5/44/ 33/N/A	49/47/45.5/ 31.5/N/A	48/46.5/45.0/ 33/N/A	N/A/53.0/49.5/ 33.5/N/A	60.0/57.0/54.5/ 37.0/
Unit	Dimension (WxDxH) (in)	14.49x21.50x49.72	14.49x21.50x49.72	17.52x21.50x53.98	17.52x21.50x53.98	21.50x21.50x55.94	21.50x21.50x55.94
	Outdoor Temp Range of Operation (cooling)	-22~122	-22~122	-22~122	-22~122	-22~122	-22~122
Outdoor	Outdoor Temp Range of Operation (heating)	-22~75	-22~75	-22~75	-22~75	-22~75	-22~75
	Outdoor Refrigerant Type	R454B	R454B	R454B	R454B	R454B	R454B
Indoor Room	Set Point Range	60~90	60~90	60~90	60~90	60~90	60~90
ENERGY ST	AR® V6.1	✓	✓	✓	✓	✓	
ENERGY ST	AR® V6.1 Cold Climate	✓	✓	✓	✓	✓	✓
Tax Credit	Eligibility	✓	✓	✓	✓	✓	✓

^{*}bolded letters used to distinguish air handler models

^{*}see controls and accessories page for filter sizes

HEAT P	UMP SYSTEM	18,000 BTU*	24,000 BTU*	30,000 BTU*	36,000 BTU*	48,000 BTU*	60,000 BTU*
Outdoor I	Model	MSH M A18R2AN1*	MSH M A24R2ANI*	MSH M A30R2AN1*	MSH M B36R2AN1*	MSH M A48R2AN1*	MSH M A60R2AN
Indoor Mo	odel	MAH M A18R4AS1*	MAH M A24R4AS1*	MAH M A30R4AS1*	MAH M A36R4AS1*	MAH M A48R4AS1*	MAH M A60R4AS
Heat+ Tea	chnology	✓	✓	/	/	✓	✓
Power Su	pply (V/Ph/Hz)	208-230V/1Ph/60Hz	208-230V/1Ph/60Hz	208-230V/1Ph/60Hz	208-230V/IPh/60Hz	208-230V/1Ph/60Hz	208-230V/1Ph/60H
	Capacity (BTU/h)	5,600~22,000	7,200~27,000	12,800~39,000	9,700~42,000	15,600~51,000	11,400~56,300
Cooling	EER2 (BTU/h)	12.5	11.7	11.7	11.7	10.5	10.0
	SEER2 (BTU/h)	19.0	18.3	16.8	17.3	17.4	16.0
	Capacity (BTU/h)	6,000~22,000	7,100~30,000	10,300~38,500	11,000~48,000	15,500~57,300	8,100~64,500
Heating	COP	3.2	3.33	3.65	3.6	3.4	3.1
	HSPF2 Region IV	9.7	10.0	10.0	10.3	10.2	9.0
	Outdoor Compressor Type	Rotary	Rotary	Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Outdoor	Fan Motor Quantity	1	Ly Si	1	1	133	2
Unit	Outdoor Noise Level (dBA)	59.0	60.0	60.5	62.5	65.0	65.0
	Dimension (WxDxH)	35.04×13.46×26.50	35.04×13.46×26.50	37.24×16.14×31.89	38.58×16.34×38.39	38.58×16.34×38.39	37.48×16.34×52.48
Indoor	Indoor Noise Level (Turbo/Hi/Mi/Lo/Si) (dBA)	N/A/41/39/ 33/N/A	N/A/44/42/ 28/N/A	47/46/43/ 27.5/N/A	49/48/45.5/ 25.5/N/A	N/A/52/50/ 34/N/A	54.5/52/49.5/ 34.5/N/A
Unit	Dimension (WxDxH) (in)	17.52×21.02×45	17.52×21.02×45	21.02×21.02×49.02	21.02×21.02×49.02	24.49×21.02×52.99	24.49×21.02×52.99
	Outdoor Temp Range of Operation (cooling)	-22~122	-22~122	-22~122	-22~122	-22~122	-22~122
Outdoor	Outdoor Temp Range of Operation (heating)	-22~75	-22~75	-22~75	-22~75	-22~75	-22~75
	Outdoor Refrigerant Type	R454B	R454B	R454B	R454B	R454B	R454B
Indoor Room Set Point Range		60~90	60~90	60~90	60~90	60~90	60~90
ENERGY ST	TAR® V6.1	✓	✓	✓	/	✓	✓
ENERGY ST	TAR® V6.1 Cold Climate	✓	✓	✓	✓	✓	✓
Tax Credit	t Eligibility	✓	✓	✓	✓	✓	✓

^{*}bolded letters used to distinguish air handler models

CENTRAL-MOOV MSHEA MODELS | UP TO 18.8 SEER2 | 9.7 HSPF

Designed with southern markets in mind, Central-MOOV delivers a new high standard of reliability and efficiency for your home or business. A fully modulating compressor and components automatically self-adjust to match the comfort demand required, saving energy while also improving indoor temperature consistency. This variable operation also allows for a more forgiving installation versus traditional systems.

- SHARED INVERTER TECHNOLOGY
- **GEN2 AIR HANDLER PAIRING**
- SIMPLIFIED HEATING PERFORMANCE
- **STREAMLINED FEATURE SET**

- **DESIGNED FOR EVERYDAY RELIABILITY**
- FLEXIBLE APPLICATION **OPTIONS**

HEAT P	UMP SYSTEM	18,000 BTU*	24,000 BTU*	30,000 BTU*	36,000 BTU*	48,000 BTU*	60,000 BTU*
Outdoor N	Model	MSHEA18R2AN1	MSHEA24R2AN1	MSHEA30R2AN1	MSHEA36R2ANI	MSHEA48R2AN1	MSHEA60R2AN1
Indoor Model		MAHMA18R4AS1	MAHMA24R4AS1	MAHMA30R4AS1	MAHMA36R4AS1	MAHMA48R4AS1	MAHMA60R4AS1
Heat+ Tea	chnology	N/A	N/A	N/A	N/A	N/A	N/A
Power Su	pply (V/Ph/Hz)	208-230V/1Ph/60Hz	208-230V/1Ph/60Hz	208-230V/IPh/60Hz	208-230V/IPh/60Hz	208-230V/1Ph/60Hz	208-230V/1Ph/60Hz
	Capacity (BTU/h)	5,350~20,000	7,200~27,000 10,400~34,000		8,300~38,900	16,600~49,900	21,000~55,000
Cooling	EER2 (BTU/h)	11.0	11.0	10.7	10.0	10.0	8.6
	SEER2 (BTU/h)	18.8	18.1	17.0	16.1	16.0	15.2
	Capacity (BTU/h)	5,600~19,000	7,100~30,000	6,400~32,000	6,700~41,300	15,300~49,500	26,000~55,000
Heating	COP	3.15	3.18	3.5	3.4	3.45	3.37
	HSPF2 Region IV	9.1	9.7	8.5	8.7	8.5	8.4
	Outdoor Compressor Type	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary
Outdoor	Fan Motor Quantity	1	1	1	1	1	1
Unit	Outdoor Noise Level (dBA)	55.0	60.0	60.0	63.0	65.0	65.0
	Dimension (WxDxH)	31.69x12.99x21.81	35.04x13.46x26.50	37.24x16.14x31.89	37.24x16.14x31.89	38.58x16.34x38.39	38.58x16.34x38.39
Indoor	Indoor Noise Level (Turbo/Hi/Mi/Lo/Si) (dBA)	44/43/41/33/N/A	N/A/44/42/28/N/A	N/A/46/42/29/N/A	N/A/48/45/28/N/A	N/A/53/50/44/N/A	56/52/49/34.5/N/A
Unit	Dimension (WxDxH) (in)	17.52×21.02×45	17.52×21.02×45	21.02×21.02×49.02	21.02×21.02×49.02	24.49×21.02×52.99	24.49×21.02×52.99
	Outdoor Temp Range of Operation (cooling)	-13~122	-13~122	-13~122	-13~122	-13~122	-13~122
Outdoor	Outdoor Temp Range of Operation (heating)	-13~75	-13~75	-13~75	-13~75	-13~75	-13~75
	Outdoor Refrigerant Type	R454B	R454B	R454B	R454B	R454B	R454B
Indoor Room Set Point Range		60~90	60~90	60~90	60~90	60~90	60~90
ENERGY ST	TAR® V6.1		✓				
ENERGY ST	TAR® V6.1 Cold Climate		✓		✓	✓	✓
Tax Credit Eligibility		/	✓	✓	✓	✓	

ADD-ON COIL

Compatible with all heat pump options, the Moovair add-on coil enables AHRI-rated dual fuel matchups built on Moovair's advanced system design.

HEAT	PUMP SYSTEM	18,000 BTU*	24,000 BTU*	30,000 BTU*	30,000 BTU*	36,000 BTU*	36,000 BTU*	48,000 BTU*	60,000 BTU*
Outdoor	Model	MSHMA18R2AN1	MSHMA24R2AN1	MSHMA30R2AN1	MSHMA30R2AN1	MSHMB36R2AN1	MSHMB36R2AN1	MSHMA48R2AN1	MSHMA60R2AN1
Indoor M	lodel	MCHMA24RBAS1	MCHMA24RBAS1	MCHMA30RBAS1	MCHMA30RCAS1	MCHMA36RBAS1	MCHMA36RCAS1	MCHMA48RCAS1	MCHMA60RDAS1
Heat+		✓							
Power S	upply	208-230V/1Ph/60Hz	208-230V/1Ph/60Hz	208-230V/1Ph/60Hz	208-230V/IPh/60Hz	208-230V/1Ph/60Hz	208-230V/1Ph/60Hz	208-230V/IPh/60Hz	208-230V/1Ph/60Hz
	Capacity	5,600~22,800	7,900~27,600	13,900~37,000	13,900~37,000	12,100~41,000	12,100~41,000	16,000~48,000	17,600~53,400
Cooling	EER2	11.7	10.0	10.0	10.0	10.7	10.7	10.0	8.8
	SEER2	16.1	16.0	16.0	16.0	15.8	15.8	15.2	14.5
	Capacity	5,600~22,800	6,500~30,000	13,000~40,000	13,000~40,000	11,500~46,000	11,500~46,000	16,000~50,000	21,200~59,000
Heating	COP	3.3	3.2	3.37	3.37	3.3	3.3	3.12	2.76
	HSPF2 Region IV	9.5	9.5	10.0	10.0	9.4	9.4	8.8	8.1
	Outdoor Compressor Type	Rotary	Rotary	Rotary	Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
	Fan Motor Qty	1	1	1	1	1	1	1	2
Outdoor Unit	Speed (Hi/Mi/Lo)	780/700/550	810/700/450	850/800/750	850/800/750	800/750/650	800/750/650	850/800/750	850/800/750
OTIIC	Outdoor Noise Level	58	60	64	64	64	64	65	64
	Dimension (WxDxH)	35.04×13.46×26.5	35.04×13.46×26.5	37.24x16.14x31.89	37.24x16.14x31.89	38.58x16.34x38.39	38.58x16.34x38.39	38.58x16.34x38.39	37.48x16.34x52.48
Indoor Unit	Dimension (WxDxH)	17.52×21×17.99	17.52×21×17.99	17.52×21×23.58	21.02x21x24.06	17.52x21x23.58	21.02x21x24.06	21.61x21.5x27.8	24.49x2lx27.99
	Outdoor Temp Range (cooling)	-22~122	-22~122	-22~122	-22~122	-22~122	-22~122	-22~122	-22~122
Outdoor	Outdoor Temp Range (heating)	-22~75	-22~75	-22~75	-22~75	-22~75	-22~75	-22~75	-22~75
	Outdoor Refrigerant Type	R454B							
Indoor Room	Set Point Range	60~90	60~90	60~90	60~90	60~90	60~90	60~90	60~90
ENERGY S	TAR® V6.1	✓							
ENERGY S	TAR® V6.1 Cold Climate	✓							
Potential I	RA Tax Credit Eligibility	✓	✓	✓	✓				

*see controls and accessories page for filter sizes

HEAT	PUMP SYSTEM	18,000 BTU*	24,000 BTU*	30,000 BTU*	30,000 BTU*	36,000 BTU*	36,000 BTU*	48,000 BTU*	60,000 BTU*
Outdoor	Model	MSHEA18R2AN1	MSHEA24R2AN1	MSHEA30R2AN1	MSHEA30R2AN1	MSHEA36R2AN1	MSHEA36R2AN1	MSHEA48R2AN1	MSHEA60R2AN1
Indoor M	lodel	MCHMA24RBAS1	MCHMA24RBAS1	MCHMA36RBAS1	MCHMA36RCAS1	MCHMA36RBAS1	MCHMA36RCAS1	MCHMA48RCAS1	MCHMA60RDAS1
Heat+		N/A							
Power St	upply	208-230V/1Ph/60Hz	208-230V/1Ph/60Hz	208-230V/1Ph/60Hz	208-230V/1Ph/60Hz	208-230V/1Ph/60Hz	208-230V/IPh/60Hz	208-230V/1Ph/60Hz	208-230V/1Ph/60Hz
	Capacity	6,500~21,600	7,900~27,600	12,800~33,700	12,800~33,700	10,400~38,800	10,400~38,800	15,500~47,000	15,500~50,000
Cooling	EER2	10.2	10.0	10.0	10.0	10.2	10.2	9.5	8.1
	SEER2	16.0	16.0	15.4	15.4	14.8	14.8	14.7	14.3
	Capacity	6,800~22,000	6,500~30,000	8,600~32,000	8,600~32,000	11,200~41,000	11,200~41,000	10,600~47,000	10,600~50,000
Heating	COP	3.15	3.2	2.78	2.78	3.4	3.4	2.75	2.7
	HSPF2 Region IV	8.6	9.5	8.5	8.5	8.7	8.7	8.0	7.3
	Outdoor Compressor Type	Rotary							
	Fan Motor Qty	1	1	1	1	1	1	1	1
Outdoor Unit	Speed (Hi/Mi/Lo)	840/700/650	810/700/450	850/700/500	850/700/500	800/750/500	800/750/500	850/800/750/650	850/800/750/650
Offic	Outdoor Noise Level	56	60	60	60	63	63	65	65
	Dimension (WxDxH)	31.69x12.99x21.81	35.04x13.46x26.50	37.24x16.14x31.89	37.24x16.14x31.89	37.24x16.14x31.89	37.24x16.14x31.89	38.58x16.34x38.39	38.58x16.34x38.39
Indoor Unit	Dimension (WxDxH)	17.52×21×17.99	17.52×21×17.99	17.52×21×23.58	21.02×21×24.06	17.52×21×23.58	21.02×21×24.06	21.61×21.5×27.8	24.49×21×27.99
	Outdoor Temp Range (cooling)	-13~122	-13~122	-13~122	-13~122	-13~122	-13~122	-13~122	-13~122
Outdoor	Outdoor Temp Range (heating)	-13~75	-13~75	-13~75	-13~75	-13~75	-13~75	-13~75	-13~75
	Outdoor Refrigerant Type	R454B							
Indoor Room	Set Point Range	60~90	60~90	60~90	60~90	60~90	60~90	60~90	60~90
ENERGY S	STAR® V6.1								
ENERGY S	TAR® V6.1 Cold Climate								
Potential	IRA Tax Credit Eligibility								

Efficiency Note - Published efficiency ratings reflect certification using the most basic compatible air movement system. Many homeowners may experience even better performance when the heat pump is paired with a high-efficiency air handler or furnace.

CONTROLS AND ACCESSORIES

UNIVERSAL THERMOSTAT COMPATIBILITY

- Works with most 24V thermostats on the market
- Supports advanced dehumidification with select models

DIAGNOSTIC REMOTE

• Included with the air handler to act as a service tool

for technician access and commands

HEAT KITS

- Electric backup kits available from 5kW to 20kW for the air handler
- Adds peace of mind during extreme winter conditions

FILTER SIZING

- Air handlers use standard 1" filters
 - For 14.5" cabinets Use 14x20x1
 - For 17.5" cabinets Use 16x20x1
 - For 21" cabinets Use 20x20x1
 - For 24.5" cabinets Use 24x20x1









SUPPORT FROM THE SOURCE



AVAILABLE EXCLUSIVELY FROM VAD HVAC DISTRIBUTORS, A DIVISION OF THE MASTER GROUP

As the exclusive brand owner of Moovair in North America, VAD provides more than just access to premium equipment. We offer the complete install-ready solutions backed by factory-level training and technical support. From surge protectors to indoor air quality products and contractor trusted install essentials, VAD ensures every Central-Moov system is fully supported from initial planning to system startup.

Legal Notices

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Disclaimer

- All product specifications, features, and availability as subject to change without notice.
- Performance ratings are based on standard testing condition. Actual performance may vary depending on installation, maintenance, operating conditions.
- Images shown are for illustration purposes only and may not represent actual product or configuration.

