



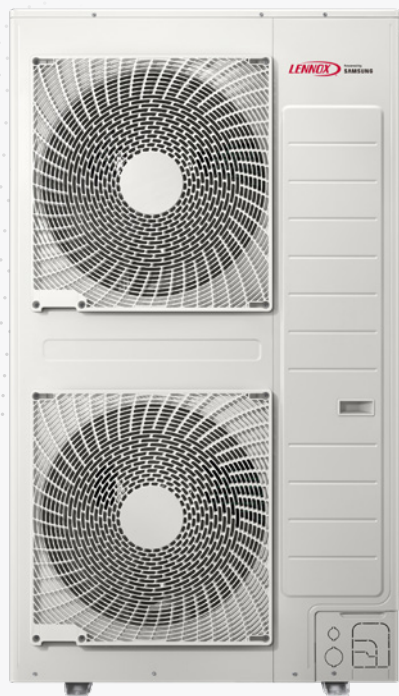
# VARIX MINI

Complete Product Guide

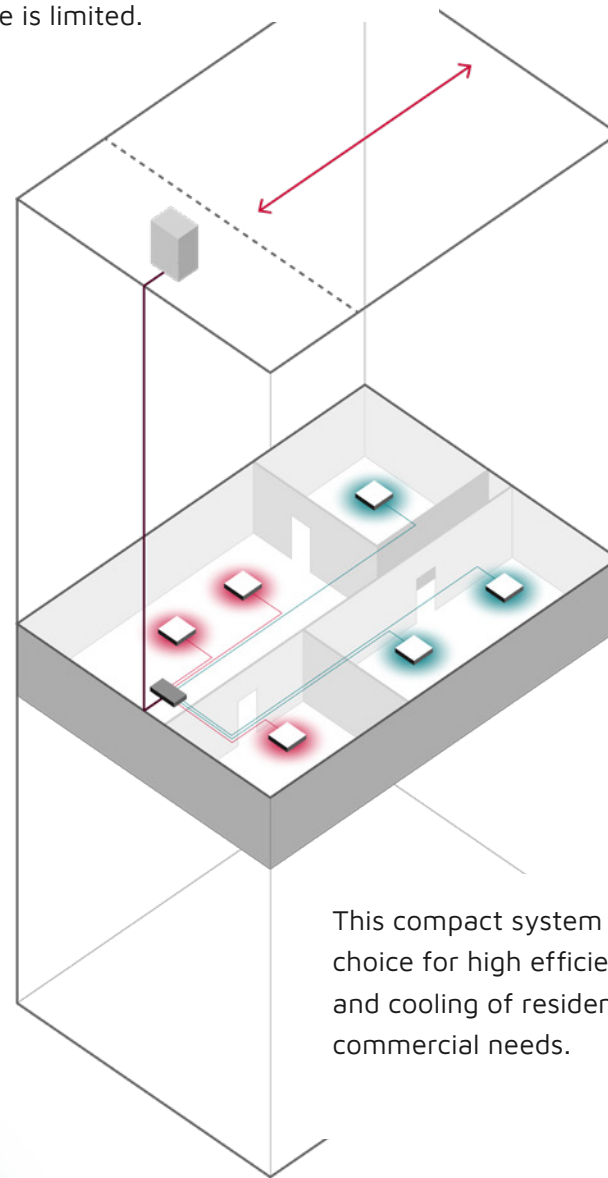


# VARIX MINI

Varix™ Mini VRF systems deliver powerful, energy-efficient heating and cooling in a compact design, making it an ideal solution for both residential and light commercial applications. Available in 3-5 ton modules, Varix Mini offers the flexibility to meet diverse comfort needs while maximizing efficiency and savings.



Varix™ Mini units have a small footprint, easing installation where space is limited.



This compact system is the perfect choice for high efficiency heating and cooling of residential and light commercial needs.

# PRECISION SOLUTIONS FOR COMPLEX ENVIRONMENTS

Address the diverse needs of residential and commercial buildings with flexible configurations and dedicated Lennox expertise to find the right solution. Varix™ Mini VRF Systems deliver maximum value in buildings requiring zone-level temperature control, superior energy efficiency and design flexibility—ideal for verticals ranging from residential homes to offices and retail spaces.



## HOTELS

Higher ratings, higher revenue through precise guest comfort



## OFFICES

Productive workspaces with zone-level comfort



## MULTIFAMILY

Efficient operation with simplified management and maintenance



## DINING

Balanced comfort across the diverse needs of dining and kitchen spaces



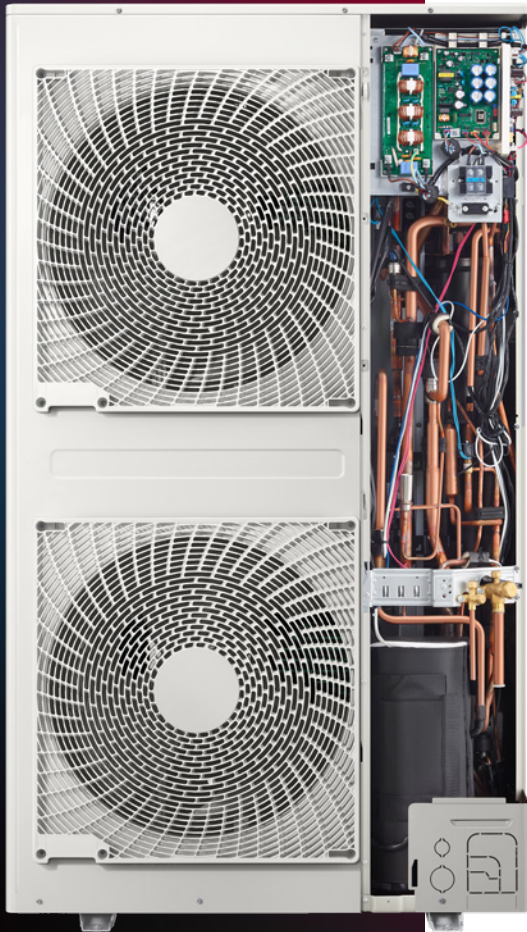
## EDUCATION

Optimal learning environments and quiet operation



## RETAIL

Flexible zoning with complementary RTU operation for open floors



## SYSTEM OVERVIEW

The Varix™ Mini VRF System is designed to deliver high-performance heating and cooling with enhanced efficiency and flexibility. Utilizing Variable Refrigerant Flow (VRF) technology, the outdoor unit regulates refrigerant flow to multiple indoor units, ensuring each space receives the exact amount of heating or cooling it needs.

- **ENHANCED HEATING PERFORMANCE**  
High heating performance at -22°F (-30°C)
- **QUIETER OPERATION**  
Quiet Operation Mode offers 3 levels of noise reduction from the outdoor unit
- **EXCEPTIONAL PERFORMANCE**  
Snow accumulation prevention of the outdoor unit when the outside temperature falls below 41°F (5°C)
- **CONTROLLED OPERATION**  
Wide variety of control options are available – from wired controllers to full control and monitoring options that can be integrated into building automation systems



# VARIX MINI

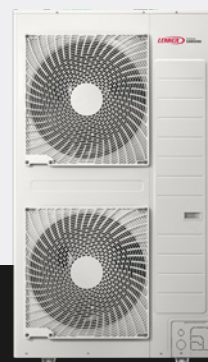
With multiple capacities for residential and light commercial applications, Varix Mini systems give you performance, efficiency and savings in a smaller footprint.

## HEAT PUMP

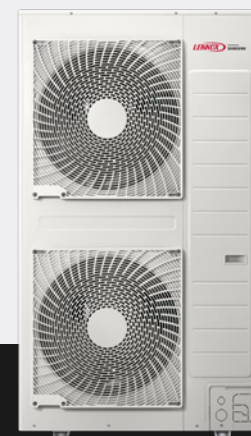
- 208/230V, 60 Hz, 1 Ph
- 3, 4, and 5 ton single modules
- Connect up to 10 indoor units
  - 3 ton – up to 8 / 4 ton – up to 9 / 5 ton – up to 10
- High heating performance at -22°F (-30°C)
- Quiet operation mode offers 3 levels of outdoor unit noise reduction
- Installation flexibility with maximum piping length up to 492 ft., vertical separation\* up to 164 ft. between the outdoor unit and lowest indoor unit (when the outdoor unit is above the indoor units) and 131 ft. between the highest and lowest indoor unit (when the outdoor unit is below the indoor units)

\* Restrictions Apply

COMBINE OUTDOOR UNITS UP TO 10 TONS



HEAT PUMP  
3 and 4 Tons



HEAT PUMP  
5 Tons

## MINI-VRF AMBIENT TEMPERATURE OPERATING RANGE

### COOLING OPERATION

23 F // -5 C

118 F // 48 C

### HEATING OPERATION

-22 F // -30 C

75 F // 24 C

-15°F	0°F	15°F	30°F	45°F	60°F	75°F	90°F	105°F
-27°C	-18°C	-9°C	-1°C	7°C	15°C	24°C	32°C	40°C

# INDOOR UNITS

Varix Mini systems offer a variety of indoor unit options to accommodate different building designs and construction needs. Each unit is equipped with smart features that enhance efficiency and performance.



V22D 4-WAY  
CASSETTE 2 X 2



V33D 4-WAY  
CASSETTE 3 X 3



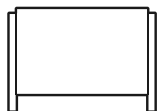
V36D, 360  
CASSETTE



VOWD ONE WAY  
CASSETTE



VUCD, CEILING/  
FLOOR MOUNT



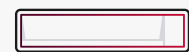
VSED FLOOR  
STANDING EXPOSED



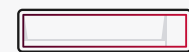
VWMD  
WALL MOUNT



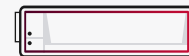
## VRV DUCTED INDOOR UNITS



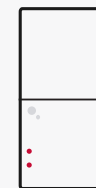
VL0D LOW STATIC  
DUCTED



VMDD MEDIUM  
STATIC DUCTED



VHID HIGH STATIC  
DUCTED



VVCD VERTICAL  
AIR HANDLER

# CONTROLS

Advanced control options provide intuitive temperature management, whether through a wired controller, wireless remote, Wi-Fi connectivity, or centralized building management system integration.



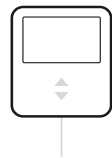
WIRELESS  
REMOTE CONTROLLER



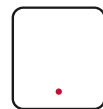
TOUCH SCREEN  
WIRED CONTROLLER



CENTRAL TOUCH  
CONTROLLER



INDIVIDUAL WIRED  
CONTROLLER



24V THERMOSTAT  
ADAPTER



BACNET  
GATEWAY

## VARIX MINI SPECIFICATION - OUTDOOR UNIT

Model Name				VPD036S6M-5P	VPD048S6M-5P	VPD060H6M-5P
Power Supply			Ø, #, V, Hz	1,2,208~230,60	1,2,208~230,60	1,2,208~230,60
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	Ton		Ton	3	4	5
	Capacity	Cooling	Btu/h	38,000	48,000	60,000
		Heating	Btu/h	42,000	54,000	66,000
Maximum number of connectable indoor units			EA	8	9	10
Total capacity of the connected indoor units		Min.	Btu/h	19,000	24,000	30,000
		Max.	Btu/h	49,000	62,000	78,000
Power	Power input (Nominal)	Cooling	KW	3.0	3.9	4.9
		Heating		3.3	4.3	5.1
	Current input (Nominal)	Cooling	A	13.7	17.8	22.4
		Heating		15.1	19.7	23.3
	MCA		A	22	24	32
	MOP		A	30	30	40
Efficiency	EER2		Btu/h/W	12	11.7	11.7
	SEER2	Non ducted	-	22	21.3	23
		Ducted	-	19	19	19
	HSPF2	Non ducted	-	11	10.5	11
		Ducted	-	10	10	10.5
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
		Base	-	SGMCC Steel Plate	SGMCC Steel Plate	SGMCC Steel Plate
Heat exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Scroll Inverter	Scroll Inverter	Scroll Inverter
	Output		KW x n	4.905 x 1	4.905 x 1	4.905 x 1
	Model Name		-	DS2BD7046FVA	DS2BD7046FVA	DS2BD7046FVA
	Oil	Type	-	POE	POE	POE
		Initial	CC (fl oz)	900 (30.4)	900 (30.4)	900 (30.4)



## VARIX MINI SPECIFICATION - OUTDOOR UNIT

Model Name			VPD036S6M-5P	VPD048S6M-5P	VPD060H6M-5P
Fan	Type	-	Propeller	Propeller	Propeller
	Discharge direction	-	Horizontal	Horizontal	Horizontal
	Quantity	-	2	2	2
	Air Flow Rate	CMM	125	125	125
		CFM	4,415	4,415	4,515
		l/s	2,083	2,083	2,083
Fan Motor	Type	-	BLDC Motor	BLDC Motor	BLDC Motor
	Output x n	W x n	125 x 2	125 x 2	125 x 2
Piping Connections	Liquid Pipe	Type	Braze Connection	Braze Connection	Braze Connection
		Ø, mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	Gas Pipe	Type	Braze Connection	Braze Connection	Braze Connection
		Ø, mm (inch)	15.88 (5/8)	15.88 (5/8)	19.05 (3/4)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m (ft)	150 [175] (492 [574])	150 [175] (492 [574])
	Piping length (1st Branch-IDU)	Max.	m (ft)	40 (131)	40 (131)
	Total piping length (System)	Max.	m (ft)	300 (984)	300 (984)
	Level difference (ODU in highest position)	Max.	m (ft)	50 (164)	50 (164)
	Level difference (IDU in highest position)	Max.	m (ft)	40 (131)	40 (131)
	Level difference (IDU-IDU)	Max.	m (ft)	15 (49)	15 (49)

### NOTE

- Specifications may be subject to change without prior notice.

- Nominal cooling capacities are based on;
  - Indoor temperature : 80°F DB, 67°F WB
  - Outdoor Unit: 95°F DB, 75°F WB, Equivalent refrigerant piping : 25ft, Level differences : 0ft
- Nominal heating capacities are based on;
  - Indoor temperature : 70°F DB, 60°F WB
  - Outdoor temperature : 47°F DB, 43°F WB, Equivalent refrigerant piping : 25ft, Level differences : 0ft
- In case of the EER2/SEER2/HSPF2, the certified performance under Unitary Small HP AHRI Standard 210/240.
  - Combination Indoor Units :Ducted indoor units
- Select wire size based on the value of MCA
- Sound power level is an absolute value that a sound source generates  
 Sound pressure level is a relative value, depending on the distance and acoustic environment  
 Sound values are obtained in an anechoic room  
 Sound values of multi combination are theoretical values based on sound results of individual installed units
- These products contain R32 which is fluorinated greenhouse gas

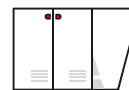


# COMPLETE COMMERCIAL CLIMATE SOLUTIONS

Create your ideal building environment with the comprehensive Lennox Commercial portfolio. Each solution is engineered to optimize performance, energy-efficiency, serviceability and environmental impact. From Varix™ VRF Systems working alongside rooftop units to complete custom turnkey solutions, we'll help you find the perfect system for your needs.



Contact us to discuss your project and request a quote.  
[Lennox.com/Commercial/Connect](https://www.lennox.com/Commercial/Connect)



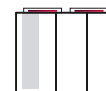
## PACKAGED UNITS

Model L™, Enlight, Xion™, Raider®



## VRF

Outdoor and Indoor Units,  
 Controls, Accessories



## SPLIT SYSTEMS

Elite® Series Large, Merit® Series Small,  
 Air Handlers, Indoor Coils



## COMMERCIAL CONTROLS

Lennox® CORE Control System, Lennox  
 Commercial Thermostats and Sensors



## MINI-SPLIT SYSTEMS

Outdoor and Indoor Units,  
 Controls, Accessories



## HEATING

Unit Heaters, Furnaces, Duct Furnaces



## INDOOR AIR QUALITY

Dehumidification, Filtration, Purification

## WITH YOU EVERY STEP OF THE WAY

Get fast, direct access to commercial HVAC expertise and equipment—straight from the source. Your Lennox team is here to help you be more efficient, informed and effective at every stage of your projects.



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