

# VARIABLE REFRIGERANT FLOW SYSTEMS



## VRF V8MS

### Mode Selection Box for VRA Heat Recovery - 60HZ

Bulletin No. 210701

July 2014

## PRODUCT SPECIFICATIONS

Allows simultaneous heating and cooling of multiple zones. Used with VRA Heat Recovery outdoor units.

Comprised of a series of solenoid valves that control refrigerant flow through each indoor unit based on the operational mode selected for that indoor unit.

*NOTE - For indoor use only.*

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V8MSBB01



V8MSBB02



V8MSBB03



V8MSBB04

### FEATURES

- **V8MSBB01 (12A53)** - 1 group, 1 indoor unit maximum.
- **V8MSBB02 (12A54)** - 2 groups of 4, 8 indoor units maximum.
- **V8MSBB03 (12A55)** - 4 groups of 4, 16 indoor units maximum.
- **V8MSBB04 (12A56)** - 6 groups of 4, 24 indoor units maximum.
- **Linear Expansion Design** - Regulates the flow of refrigerant and reduces sound levels.
- **Flare Fittings** - For indoor unit pipe connections.
- **Sweat Fittings** - For outdoor unit pipe connections.
- **Removable Panels** - Removable side and bottom panels for maintenance access.

**Adaptors Furnished** - Includes two kits to adjust to a larger pipe size for smaller indoor units. (1/4 in. to 3/8 in. and 1/2 in. to 5/8 in.).

### APPROVALS

Units are ETL certified for the U.S. and Canada.

### WARRANTY

**Components** - Limited one year.

## SPECIFICATIONS

General Data		Model Number	V8MSBB01	VBMSBB02	V8MSBB03	V8MSBB04
Maximum Number of Indoor Unit Groups			1	2	4	6
Maximum Number of Indoor Units in Each Group			1	4	4	4
Maximum Number of all Downstream Indoor Units			1	8	16	24
Valve Type			Solenoid	Solenoid	Solenoid	Solenoid
Capacity		Maximum Capacity Each Indoor Unit Group (Btuh)	96,000	54,000	54,000	54,000
		Total Capacity of all Downstream Indoor Units (Btuh)	68,000 - 96,000	≤ 96,000	≤ 154,000	≤ 154,000
Piping Connections	Connection to Outdoor Unit	Liquid line O.D. - in.	1/2	1/2	5/8	5/8
		High Pressure Gas Pipe O.D. - in.	3/4	3/4	7/8	7/8
		Low Pressure Gas Pipe O.D. - in.	7/8	7/8	1-1/8	1-1/8
	Connection to Indoor Unit	<sup>1</sup> Liquid Pipe O.D. - in.	3/8	3/8	3/8	3/8
		<sup>2</sup> Gas Pipe O.D. - in.	5/8	5/8	5/8	5/8
		<sup>3</sup> Drain connection O.D. - in.	1	1	1	1
Dimensions and Weight Data	Unit dimensions (H x W x L)		9 x 23-5/8 x 24-3/4	9 x 23-5/8 x 24-3/4	9 x 23-5/8 x 37-3/4	9 x 23-5/8 x 37-3/4
	Unit weight (net / shipping) - lbs.		43 / 60	43 / 60	69 / 88	77 / 98
Control Wiring (AWG)			18 gauge (3-core shielded)			
Electrical Data			208/230V - 60 HZ - 1ph			

<sup>1</sup> 3/8 x 1/4 in. adaptor furnished for liquid pipe connection to indoor unit (if required).

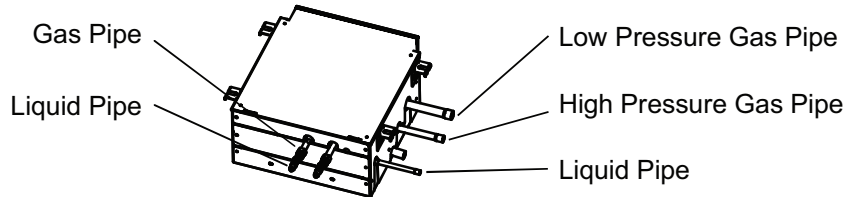
<sup>2</sup> 5/8 x 1/2 in. adaptor furnished for gas pipe connection to outdoor unit (if required).

<sup>3</sup> 1 x 3/4 in. condensate drain adaptor furnished for field installation (if required).

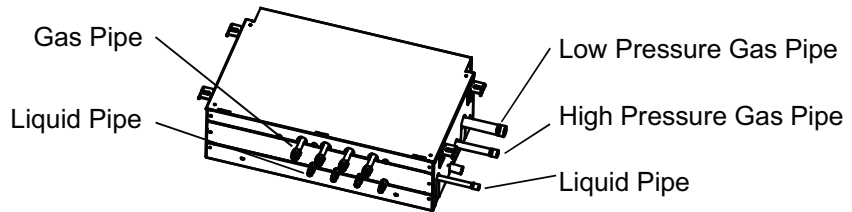
**MODE SELECTION BOX FOR HEAT RECOVERY OUTDOOR UNITS**

**V8MSBB01 (Maximum No. of Groups x Indoor Units - 1 x 1 = 1)**

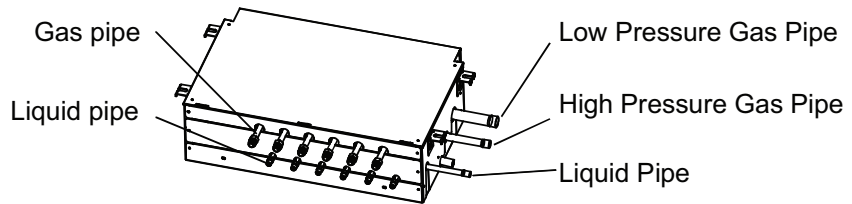
**V8MSBB02 (Maximum No. of Groups x Indoor Units - 2 x 4 = 8)**



**V8MSBB03 (Maximum No. of Groups x Indoor Units - 4 x 4 = 16)**

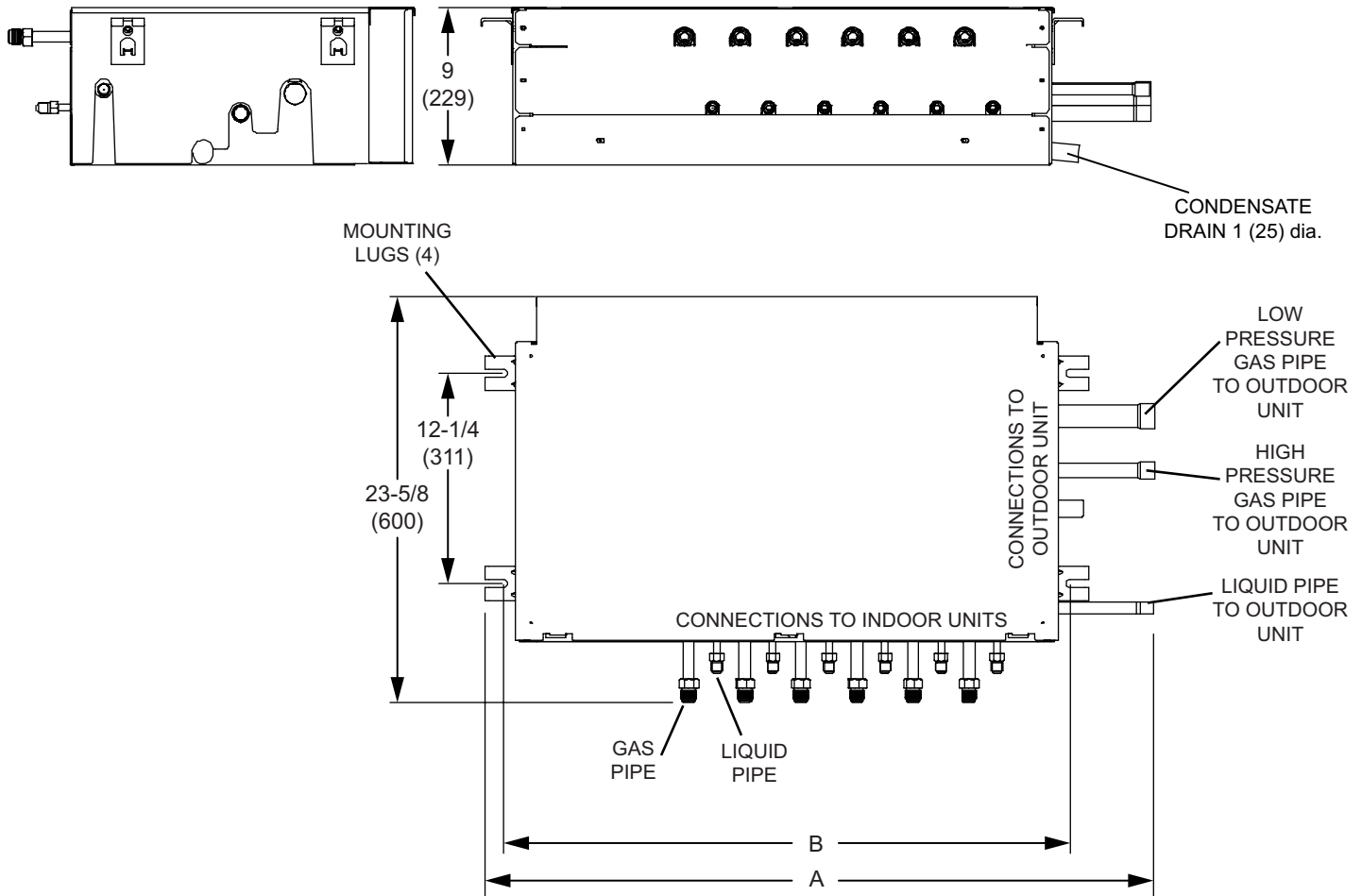


**V8MSBB04 (Maximum No. of Groups x Indoor Units - 6 x 4 = 24)**



## DIMENSIONS - INCHES (MM)

### V8MSBB01, V8MSBB02, V8MSBB03, V8MSBB04



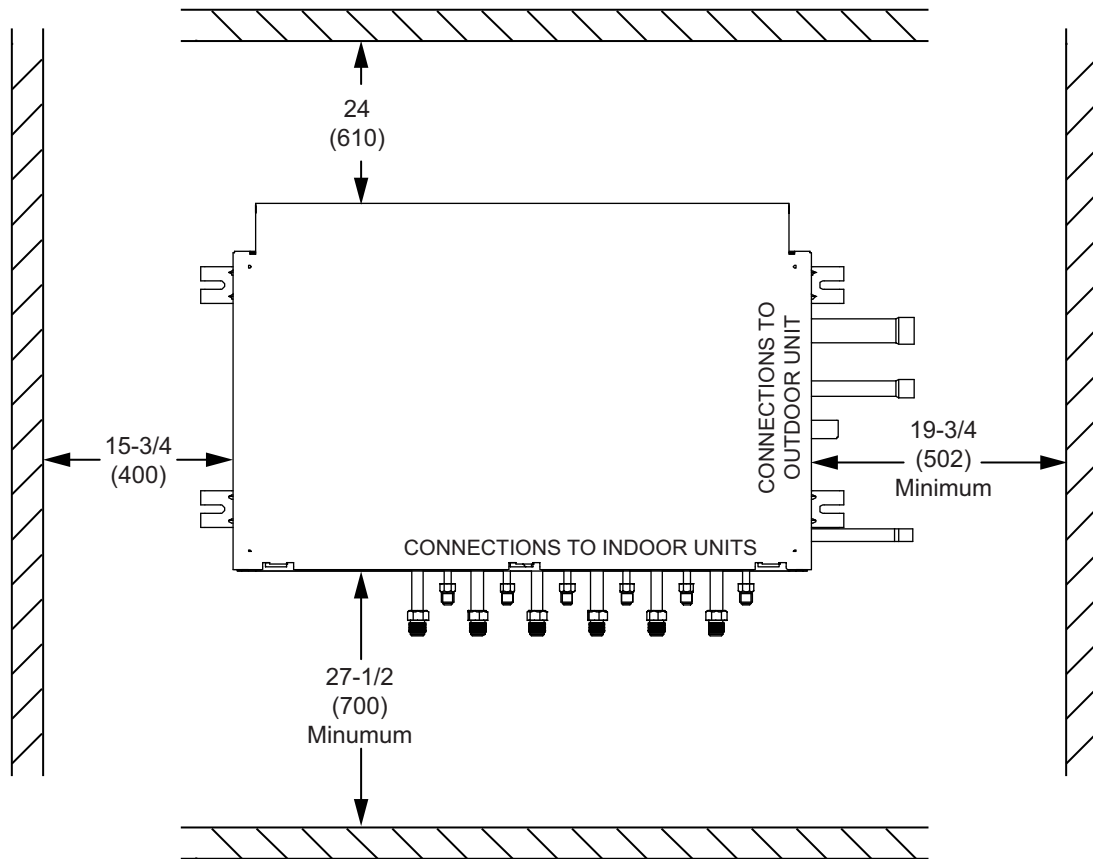
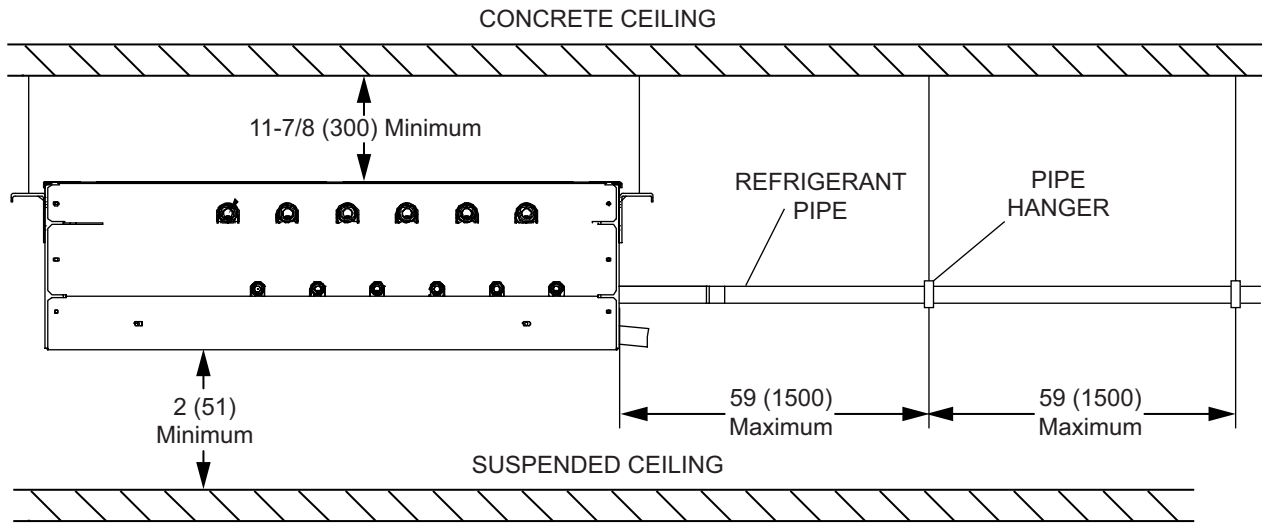
Model No.	A		B	
	in.	mm	in.	mm
V8MSBB01	24-3/4	629	19-1/4	489
V8MSBB02	24-3/4	629	19-1/4	489
V8MSBB03	37-3/4	959	32-1/4	819
V8MSBB04	37-3/4	959	32-1/4	819

Model No.	Pipe Diameter - in.				
	Connections to Outdoor Unit			Connections to Indoor Unit	
	Low Pressure Gas Pipe	High Pressure Gas Pipe	Liquid Pipe	<sup>1</sup> Liquid Pipe	<sup>2</sup> Gas Pipe
V8MSBB01	7/8	3/4	1/2	3/8	5/8
V8MSBB02	7/8	3/4	1/2	3/8	5/8
V8MSBB03	1-1/8	7/8	5/8	3/8	5/8
V8MSBB04	1-1/8	7/8	5/8	3/8	5/8

<sup>1</sup> 3/8 x 1/4 in. adaptor furnished for liquid pipe connection to outdoor unit (if required).

<sup>2</sup> 5/8 x 1/2 in. adaptor furnished for gas pipe connection to outdoor unit (if required).

# INSTALLATION CLEARANCES - INCHES (MM)









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NOTE - Due to Lennox' ongoing commitment to quality, Specifications, Ratings and Dimensions subject to change without notice and without incurring liability. Improper installation, adjustment, alteration, service or maintenance can cause property damage or personal injury. Installation and service must be performed by a qualified installer and servicing agency.

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