



# VARIABLE REFRIGERANT FLOW SYSTEMS

## VRF

V8MSBB-08-012

Mode Selection Box for VRB Heat Recovery - 60HZ

Bulletin No. 210888  
April 2019

### PRODUCT SPECIFICATIONS

Allows simultaneous heating and cooling of multiple zones. Used with VRB 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.*

#### APPROVALS

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

#### WARRANTY

**Components** - Limited one year.

#### FEATURES

- **V8MSBB08 (17V25)** - 8 groups of 5, 40 indoor units maximum.
- **V8MSBB10 (17V26)** - 10 groups of 5, 41 indoor units maximum.
- **V8MSBB12 (17V27)** - 12 groups of 5, 41 indoor units maximum.
- **Linear Expansion Design** - Regulates the flow of refrigerant and reduces sound levels.
- **Braze Fittings** - For outdoor and indoor unit pipe connections.



V8MSBB08



V8MSBB10



V8MSBB12

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## SPECIFICATIONS

General Data		Model Number	V8MSBB08	V8MSBB10	V8MSBB12
Maximum Number of Indoor Unit Groups			8	10	12
Maximum Number of Indoor Units in Each Group			5	5	5
Maximum Number of all Downstream Indoor Units			40	41	41
Valve Type			Solenoid	Solenoid	Solenoid
Capacity Maximum Capacity Each Indoor Unit Group (Btuh)			54,000 or less	54,000 or less	54,000 or less
Total Capacity of all Downstream Indoor Units (Btuh)			290,000	290,000	290,000
Piping Connections	Connection to Outdoor Unit	Liquid line O.D. - in.	3/4, 5/8, 1/2, 3/8	3/4, 5/8, 1/2, 3/8	3/4, 5/8, 1/2, 3/8
		High Pressure Gas Pipe O.D. - in.	1-1/8, 7/8, 3/4	1-1/8, 7/8, 3/4	1-1/8, 7/8, 3/4
		Low Pressure Gas Pipe O.D. - in.	1-3/8, 1-1/8, 7/8	1-3/8, 1-1/8, 7/8	1-3/8, 1-1/8, 7/8
	Connection to Indoor Unit	Liquid Pipe O.D. - in.	1/4, 3/8	1/4, 3/8	1/4, 3/8
		Gas Pipe O.D. - in.	1/2, 5/8	1/2, 5/8	1/2, 5/8
<sup>1</sup> Drain connection O.D. - in.			1	1	1
Unit shipping weight - lbs.			201	205	209
Control Wiring (AWG)		2-Core Shielded, Stranded, Polarity Sensitive, 18 AWG			

## ELECTRICAL DATA

Line voltage data - 60 hz - 1ph		208/230V	208/230V	208/230V
Input (W)		138	172.5	195.5
<sup>2</sup> Maximum Overcurrent Protection (amps)		15	15	15
<sup>3</sup> Minimum Circuit Ampacity		0.8	0.9	1.1

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

<sup>2</sup> HACR type circuit breaker or fuse.

<sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

## SOUND DATA

Model No.	V8MSBB08	V8MSBB10	V8MSBB12
Heating	42	42	42
Cooling	43	45	43
<sup>1</sup> Main Heating	44	43	43
<sup>1</sup> Main Cooling	46	45	43

<sup>1</sup> The majority of indoor units are operating in cooling or heating mode.

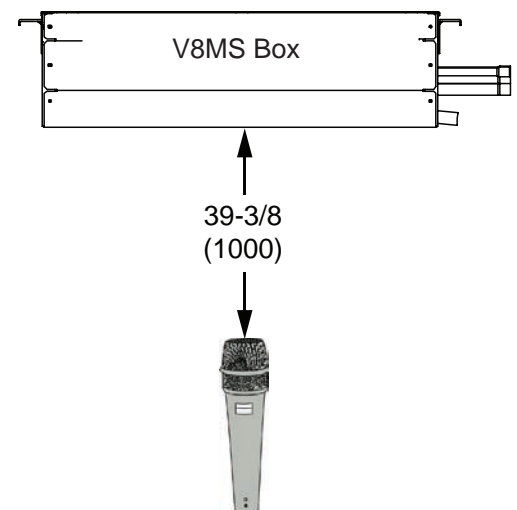
Model No.	V8MSBB08	V8MSBB10	V8MSBB12
<sup>2</sup> Minimum	22	21	21
<sup>2</sup> Maximum	58	56	60

<sup>2</sup> This data represents the instantaneous peak data during mode switching.

NOTES:

Sound measured at 68°F ambient temperature at MS Box.

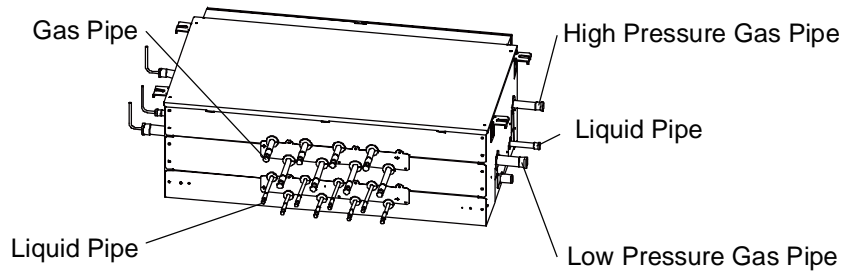
Tested in semi-anechoic room.



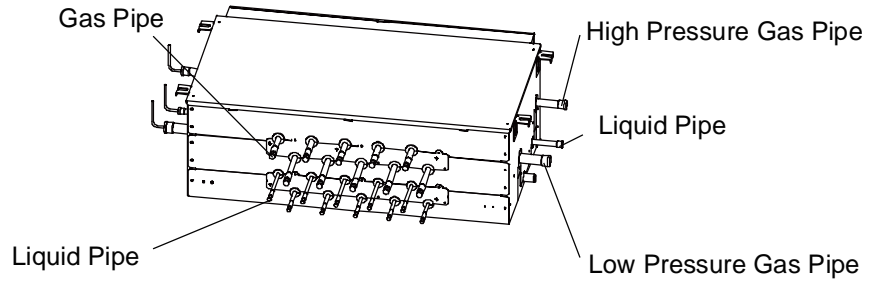
Measured from the bottom of the unit.

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

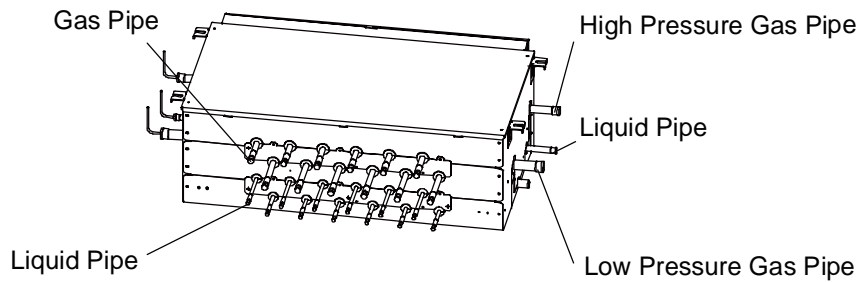
**V8MSBB08**



**V8MSBB10**

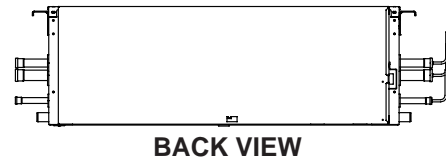
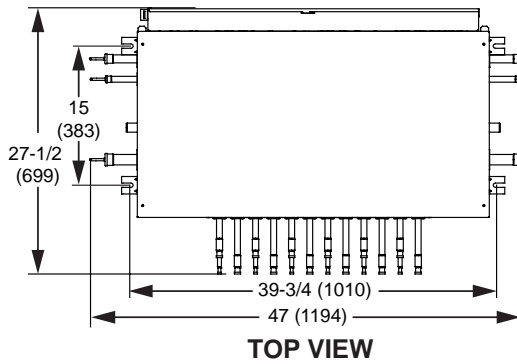
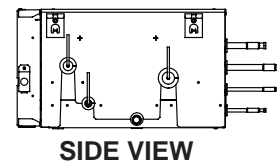
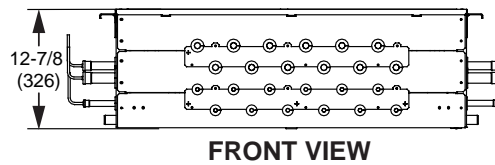
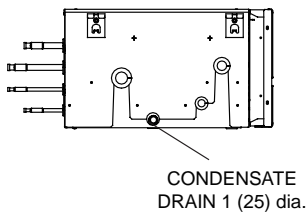
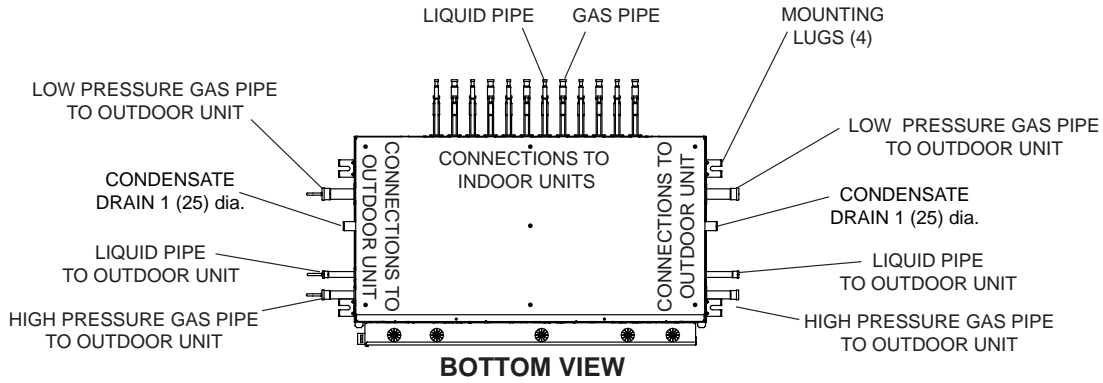


**V8MSBB12**



## DIMENSIONS - INCHES (MM)

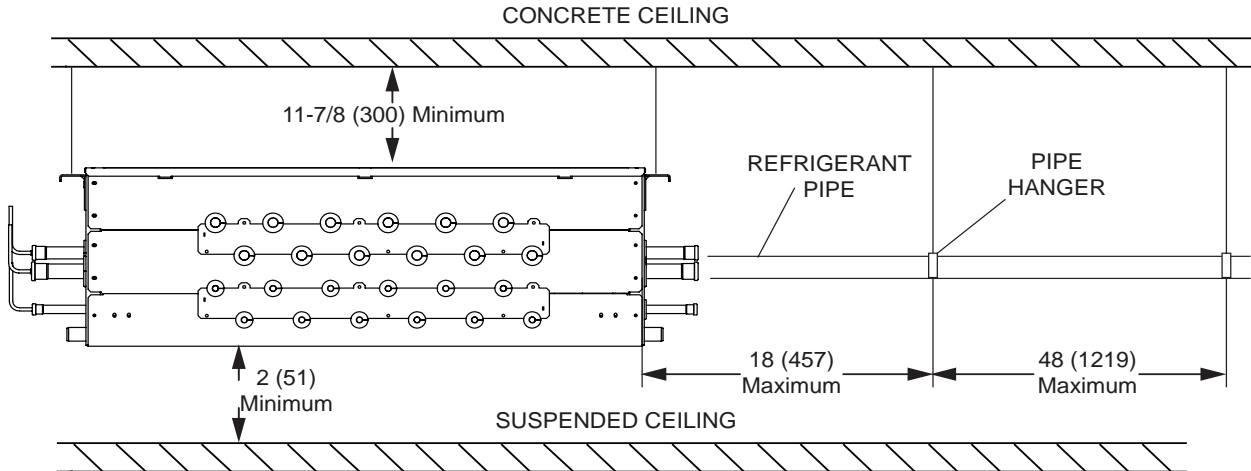
V8MSBB08, V8MSBB10, V8MSBB12



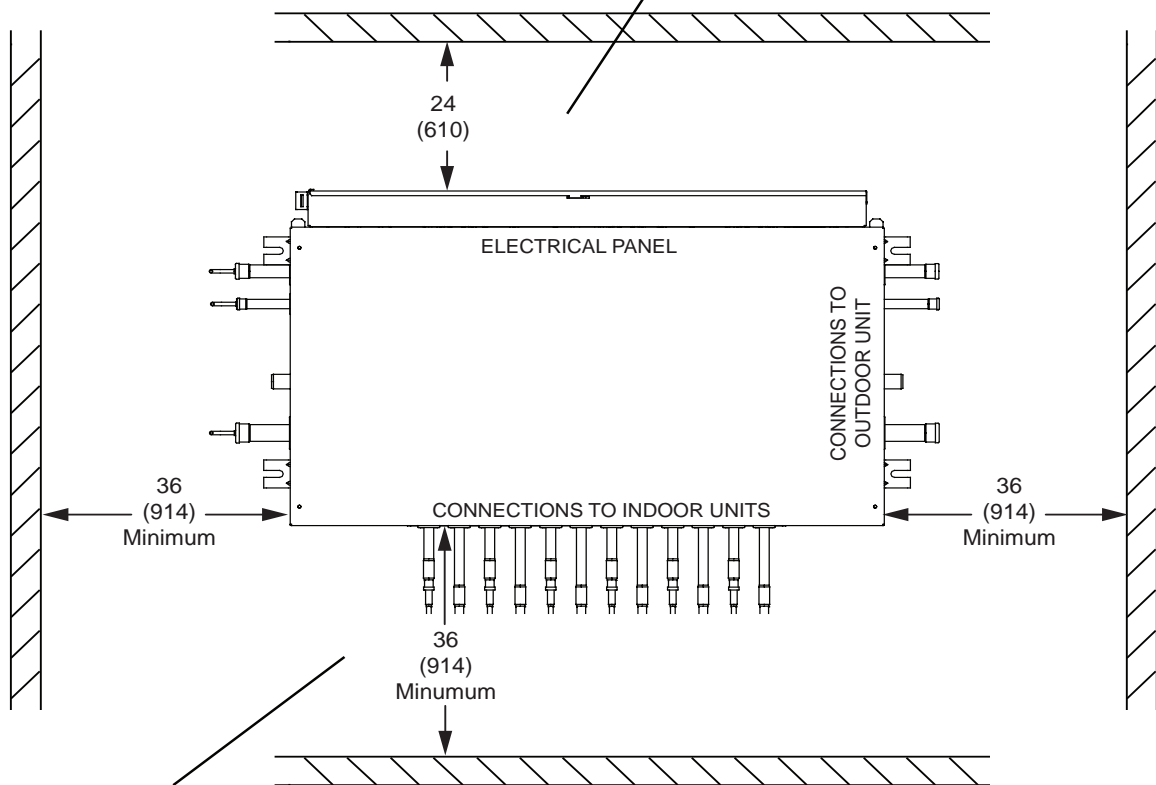
Model No.	Pipe Diameter - in.				
	Connections to Outdoor Unit			Connections to Indoor Unit	
	Low Pressure Gas Pipe	High Pressure Gas Pipe	Liquid Pipe	Liquid Pipe	Gas Pipe
V8MSBB08	1-3/8, 1-1/8, 7/8	1-1/8, 7/8, 3/4	3/4, 5/8, 1/2, 3/8	1/4, 3/8	1/2, 5/8
V8MSBB10	1-3/8, 1-1/8, 7/8	1-1/8, 7/8, 3/4	3/4, 5/8, 1/2, 3/8	1/4, 3/8	1/2, 5/8
V8MSBB12	1-3/8, 1-1/8, 7/8	1-1/8, 7/8, 3/4	3/4, 5/8, 1/2, 3/8	1/4, 3/8	1/2, 5/8

# INSTALLATION CLEARANCES - INCHES (MM)

## V8MSBB08, V8MSBB10, V8MSBB12



**Required!** Suitably sized access panel required to provide full access to electrical panel



Suitably sized access panel for gaining access to indoor unit connections or isolating ball valves if mounted above a solid ceiling  
**Access panels are a requirement for system start-up and future preventative maintenance.**







VRF

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