

HEAT CONTROLLER, INC.

Technical Service Bulletin

Number: TSB0007

Date: 8/10/11

SUBJECT: Mini-Split Line Sets & Charge Adjustment.

Important: The following line set lengths and proper charge adjustment procedures are recommended to ensure the reliability and performance of the mini-split systems.

Purpose: To correct the Pipe Length, Elevation and Refrigerant Adjustment information provided in the Installation Instructions for the “S” Series Non-Inverter and “V” Series Inverter Mini-Splits. The following should be used in determining the correct size, lengths and proper charge adjustments.

1. Single Zone “S” Series Non-Inverter and “V” Series Inverter System:

Capacity Btu/h	Pipe Size		Standard Length (ft)	Max Elevation (ft)	Total Line Length (ft)		Additional Refrigerant oz/ft
	Gas (in)	Liquid (in)			Min.	Max.	
9k	3/8	1/4	*16.5	26	10	65.5	.2
12k	1/2	1/4	*16.5	26	10	65.5	.2
18k	1/2	1/4	*16.5	32	10	82	.2
24k	5/8	3/8	*16.5	32	10	82	.4

Refrigerant Charge (oz)		
Unit Model #	Air Conditioner	Heat Pump
SMA09SC	37.0 oz.	
SMH09SC		37.7 oz.
SMA12SC	46.9 oz.	
SMH12SC		47.6 oz.
SMA18SC	70.5 oz.	
SMH18SC		72.0 oz.
SMA24SC	84.6 oz.	
SMH24SC		86.4 oz.
VMH09SC		38.8 oz.
VMH12SC		44.1 oz.
VMH18SC		58.2 oz.
VMH24SC		67.0 oz.

*Unit charge located on rating plate includes enough refrigerant for 16.5 feet of line set.

*Charge adjustment is not required on line set lengths less than 16.5 feet.

2. Multi-Zone “V” Series Inverter Systems:

Capacity Btu/h	Pipe Size		Standard Length (ft)	Max Elevation (ft)	Total Line Length (ft)		Additional Refrigerant oz/ft
	Gas (in)	Liquid (in)			Min.	Max.	
Indoor Unit							
9k	3/8	1/4					
*12k	1/2	1/4					
Outdoor Unit	Indoor Combination						
18K (DC)	(A+B)		*16.5	32	10	100	.2
27K (TC)	(A+B+C)		*16.5	32	10	150	.2
36K (QC)	(A+B+C+D)		*16.5	32	10	200	.2

Refrigerant Charge (oz)	
Unit Model #	Heat Pump
VMH18DC	51.0 oz.
VMH27TC	71.0 oz.
VMH36QC	95.0 oz.

***Unit charge located on rating plate includes enough refrigerant for the following:**

VMH18DC + 33 ft. line set (2 indoor units @ 16.5 ft. each)

VMH27TC + 50 ft. line set (3 indoor units @ 16.5 ft. each)

VMH36QC + 66 ft. line set (4 indoor units @ 16.5 ft each)

***Charge adjustment is not required for line set lengths less than the lengths indicated above.**

***Indoor 12K section includes line set adapter for outdoor section.**

Design, specifications and performance data is subject to change without notice.