



## InverterFlex® Systems condition up to five rooms

Our InverterFlex® multi-zone units let you condition one up to five rooms with just one outdoor unit (depending on model). The contractor can design a system that best meets the load requirements of each room being conditioned because indoor air handlers can be mixed and matched—including high wall mount units and ceiling cassettes in the same installation.

A single outdoor condenser is sized for multiple indoor air handlers. These 9,000, 12,000, 18,000 and 24,000 BTUH indoor units can be mixed, up to the point that their combined capacity reaches the total allowable system capacity—see the chart on page 3. All units must operate in the same mode except fan only can always be selected. Indoor units are a subtle white color; ceiling cassettes have an attractive white panel.

InverterFlex® models incorporate all the advantages of twin rotary inverter compressor technology. The compressor speed is variable, depending on the load demand. Most of the time the unit runs at low frequency, saving energy while maintaining comfort, but ramping up to higher frequency when needed. Temperature fluctuations and compressor on/off cycling are eliminated, and indoor air quality is enhanced because air is constantly being pulled through the filters and dehumidified.

True zone control is possible because each air handler operates independently. InverterFlex® systems are also great for larger spaces such as fellowship halls and commons areas: install one or more units for quiet, efficient, easily controlled comfort.



Includes a fully featured wireless remote per indoor unit.

Cassette; also with wired wall thermostat



High Wall Mount



## Multi-Zone 18,000 to 42,000 BTUH



Mix and match high wall mount and/or ceiling cassette indoor units to best meet comfort requirements.



Cool and heat up to five rooms/separate areas with a single outdoor condenser.

### Features

- **Random Swing**—Continually adjusts air direction for a gentle, breeze-like effect preferred by most people
- **Multiple Modes**—Cooling, heating, fan only, dehumidification only, plus sleep mode / 24-hour timer / turbo mode; also intelligent pre-heating and self-diagnostics
- **Low Ambient Operating Range**—Cooling 23° - 118.5° F, heating 5° - 80.5° F
- **Auto Operation**—Automatically selects the mode required to maintain a constant temperature/humidity level
- **"I Feel" Function**—Remote senses temperature at its location and adjusts air flow for comfort and efficiency
- **Superior Filtration**—Silver ion air filter releases silver ions that eliminate bacteria in the air; gold fin evaporator coating on high wall mount units and blue fin coating on ceiling cassettes inhibits bacterial growth
- **Auto Defrost**—Defrosts only when necessary to save energy, limit downtime



Mix and match indoor units up to the maximum BTUHs allowed for each system—see chart on following page for matches.

Order outdoor and indoor units separately:

“A” indicates outdoor unit and “B” indicates indoor units.

For instance, a 36,000 BTUH tri-zone might consist of one A-VFH 36QA-1, two B-VFH12MA-1 and one B-VFH12CA-1.

\* Always follow local, state and national electrical codes. Main power connection is 208-230V.

Recommended Indoor/Outdoor Connecting Cable (SJOOW)— 14 AWG / 4 conductor 600V THHN unshielded stranded bare copper, not to exceed 98 feet between indoor and outdoor units

<sup>1</sup> Min. 10 ft. line set length recommended.

<sup>2</sup> Oil traps should be installed every 16.5 to 23 feet (5-7m) when the outdoor unit is installed above the indoor unit.

\*\*Flare nut and tubing assembly included with outdoor unit.

Ambient Operating Temperature Range:  
23° - 118.5° F (cooling);  
5° - 80.5° F (heating)

## OUTDOOR UNITS

FEATURES	A-VFH18DA-1	A-VFH24TA-1	A-VFH30QA-1	A-VFH36QA-1	A-VFH42PA-1
Power Supply	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60
System Cooling Cap. (BTUH)	18,000	26,000	29,000	34,000	40,000
Min./Max. Cooling Cap. (BTUH)	7,000/21,000	7,500/33,000	7,500/34,000	8,530/34,120	8,530/46,403
SEER/EER	16.00/ 10.20	16.00/ 8.20	16.0/ 7.30	16.0/ 7.90	16.0/ 9.30
HSPF	8.20	8.20	8.20	8.20	8.00
High Heating (BTUH) @ 47°F	19,000	29,000	30,400	35,800	44,500
Low Heating (BTUH) @ 17°F	9600	17,000	16,500	22,000	24,800
Min./Max. Heating Cap. (BTUH)	8,530/22,600	7,500/35,000	7,500/36,000	10,663/40,944	10,662/47,768
Sound Pressure (dBA)	56	56	56	59	58

## OUTDOOR UNIT DIMENSIONS

Width (inches)	35 <sup>3</sup> / <sub>8</sub>	37 <sup>1</sup> / <sub>4</sub>	37 <sup>1</sup> / <sub>4</sub>	36 <sup>1</sup> / <sub>4</sub>	40
Height (inches)	23 <sup>1</sup> / <sub>2</sub>	27 <sup>5</sup> / <sub>8</sub>	27 <sup>5</sup> / <sub>8</sub>	31	43 <sup>7</sup> / <sub>16</sub>
Depth (inches)	14 <sup>7</sup> / <sub>8</sub>	15 <sup>5</sup> / <sub>8</sub>	15 <sup>5</sup> / <sub>8</sub>	16 <sup>13</sup> / <sub>16</sub>	17 <sup>5</sup> / <sub>16</sub>
Net Wt/Shipping Wt (lbs.)	95/106	135/146	137/148	153/165	225/247

## ELECTRICAL DATA OUTDOOR UNIT\*

Main Power Connection	Outdoor Unit	Outdoor Unit	Outdoor Unit	Outdoor Unit	Outdoor Unit
Min. Circuit Ampacity	13A	20A	26A	28A	29A
Max. Fuse/HACR Circuit Breaker	20A	30A	45A	45A	50A

## LINE SETS O.D. (inch)

Liquid (flare) (inch) - Suction (flare) (inch)	1/4" - 3/8"	1/4" - 3/8"	1/4" - 3/8"	1/4" - 3/8"***	1/4" - 3/8"***
	1/4" - 3/8"	1/4" - 3/8"	1/4" - 3/8"	1/4" - 3/8"***	1/4" - 3/8"***
Maximum Indoor Connections per Model are shown	—	1/4" - 3/8"	1/4" - 3/8"	1/4" - 1/2"***	1/4" - 1/2"***
	—	—	1/4" - 3/8"	3/8" - 5/8"***	1/4" - 1/2"***
Maximum Line Set Length <sup>1</sup>	33 feet	66 feet	66 feet	82 feet	82 feet
Max. Total Length All Zones	66 feet	196 feet	230 feet	230 feet	262 feet
Maximum Elevation (outdoor) <sup>2</sup>	16 feet	33 feet	33 feet	50 feet	50 feet

**Warranty—6 years compressor, 2 years on parts**  
(Some limitations apply; see printed warranty for details.)



HIGH WALL MOUNT INDOOR UNITS				CEILING CASSETTES					
FEATURES	B-VFH09MA-1	B-VFH12MA-1	B-VFH18MA-1	B-VFH12CA-1	B-VFH18CA-1	B-VFH24CA-1			
Cooling Capacity BTUH	9,000	12,000	18,000	12,000	14,400	22,800			
Heating Capacity BTUH	9,800	13,000	19,000	13,000	16,000	27,400			
Air Flow Range (CFM)	224 - 430	224 - 453	282 - 588	265-294-353	265-294-353	500-559-694			
Fan Speeds	7	7	7	3	3	3			
Dehumidification (Pts/Hr)	1.69	2.96	3.80	2.96	3.80	5.28			
Sound Level Range (dBA)	21 to 42	22 to 43	33 to 51	42/44/46	42/44/46	35/37/39			
Temperature Setting	On Remote: 61°F - 86°F			On Remote or Wired Wall Thermostat					
AIR DIRECTION									
Horiz./Vert. Modulating	Yes	Yes	Yes	No	No	No			
Four-Way Modulating	Yes	Yes	Yes	Yes	Yes	Yes			
DIMENSIONS				UNIT/PANEL		UNIT/PANEL		UNIT/PANEL	
Width (inches)	34 <sup>1</sup> / <sub>16</sub>	34 <sup>1</sup> / <sub>16</sub>	40 <sup>1</sup> / <sub>16</sub>	22 <sup>7</sup> / <sub>16</sub>	25 <sup>5</sup> / <sub>8</sub>	22 <sup>7</sup> / <sub>16</sub>	25 <sup>5</sup> / <sub>8</sub>	33 <sup>1</sup> / <sub>16</sub>	37 <sup>7</sup> / <sub>16</sub>
Height (inches)	11 <sup>1</sup> / <sub>2</sub>	11 <sup>1</sup> / <sub>2</sub>	9	22 <sup>7</sup> / <sub>16</sub>	25 <sup>5</sup> / <sub>8</sub>	22 <sup>7</sup> / <sub>16</sub>	25 <sup>5</sup> / <sub>8</sub>	33 <sup>1</sup> / <sub>16</sub>	37 <sup>7</sup> / <sub>16</sub>
Depth (inches)	8 <sup>1</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>4</sub>	12 <sup>9</sup> / <sub>16</sub>	9 <sup>1</sup> / <sub>16</sub>	2	9 <sup>1</sup> / <sub>16</sub>	2	9 <sup>1</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>8</sub>
Net Wt/Shipping Wt (lbs)	24.25/30.9	24.25/30.9	30.9/41.9	39.6/50.7	5.5/8.0	39.7/50.7	5.5/8.0	61.7/77.2	14.3/22
Liquid-Suction (flare) (in.)	1/4 - 3/8	1/4 - 3/8	1/4 - 1/2	1/4 - 3/8		1/4 - 1/2		3/8 - 5/8	

# Indoor Unit Mix 'n' Match Possibilities

The total capacity for ALL indoor units cannot exceed 150% of the stated condenser capacity. For best performance, the indoor units' total capacity should be 100% or less of the condenser capacity. When a system is sized beyond 100% of the condenser capacity, the

compressor may not provide full capacity for all indoor units: sizing above 100% is generally specified when one or more of the indoor units will not be in use most of the time. Also, the total capacity for ALL indoor units cannot be less than 50% of the condenser's capacity.

Zones	Indoor Units*	Total BTUH
A-VFH18DA 1-2 Units	9K	9,000
	12K	12,000
	9K + 9K	18,000
	9K + 12K	21,000
A-VFH24TA 1, 2 or 3 Units	12K	12,000
	18K	18,000
	24K	24,000
	9K + 9K	18,000
	9K + 12K	21,000
	9K + 18K	27,000
	12k + 12K	24,000
	12K + 18K	30,000
	18K + 18K	36,000
	9K + 9K + 9K	27,000
	9K + 9K + 12K	30,000
	9K + 12K + 12K	33,000
	9K + 9K + 18K	36,000
12K + 12K + 12K	36,000	
A-VFH30QA 1, 2, 3 or 4 Units	18K	18,000
	24K	24,000
	9K + 9K	18,000
	9K + 12K	21,000
	9K + 18K	27,000
	12k + 12K	24,000
	12K + 18K	30,000
	18K + 18K	36,000
	9K + 9K + 9K	27,000
	9K + 9K + 12K	30,000
	9K + 12K + 12K	33,000
	9K + 9K + 18K	36,000
	9K + 12K + 18K	39,000
	12K + 12K + 12K	36,000
	12K + 12K + 18K	42,000
A-VFH36QA 1, 2, 3 or 4 Units	18K	18,000
	24K	24,000
	9K + 9K	18,000
	9K + 12K	21,000
	9K + 18K	27,000
	9k + 24K	24,000
	12k + 12K	24,000
	12K + 18K	30,000
	12K + 24K	36,000

Zones	Indoor Units*	Total BTUH
A-VFH36QA 1, 2, 3 or 4 Units	18K + 18K	36,000
	18K + 24K	42,000
	24K + 24K	48,000
	9K + 9K + 9K	27,000
	9K + 9K + 12K	30,000
	9K + 9K + 18K	36,000
	9K + 9K + 24K	42,000
	9K + 12K + 12K	33,000
	9K + 12K + 18K	39,000
	9K + 12K + 24K	45,000
	9K + 18K + 18K	45,000
	9K + 18K + 24K	51,000
	12K + 12K + 12K	36,000
	12K + 12K + 18K	42,000
	12K + 12K + 24K	42,000
	12K + 18K + 18K	48,000
	18K + 18K + 18K	54,000
	9K + 9K + 9K + 9K	36,000
	9K + 9K + 9K + 12K	39,000
	9K + 9K + 9K + 18K	45,000
9K + 9K + 9K + 24K	51,000	
A-VFH42PA 1, 2, 3, 4 or 5 Units	9K + 9K + 12K + 12K	42,000
	9K + 9K + 12K + 18K	48,000
	9K + 12K + 12K + 12K	45,000
	9K + 12K + 12K + 18K	51,000
	12K + 12K + 12K + 12K	48,000
	24K	24,000
	9K + 12K	21,000
	9K + 18K	27,000
	9k + 24K	33,000
	12k + 12K	24,000
	12K + 18K	30,000
	12K + 24K	36,000
	18K + 18K	36,000
	18K + 24K	42,000
	24K + 24K	48,000
A-VFH42PA 1, 2, 3, 4 or 5 Units	9K + 9K + 9K	27,000
	9K + 9K + 12K	30,000
	9K + 9K + 18K	36,000
	9K + 9K + 24K	42,000
	9K + 12K + 12K	33,000
	9K + 12K + 18K	39,000

Zones	Indoor Units*	Total BTUH
A-VFH42PA 1, 2, 3, 4 or 5 Units	9K + 12K + 24K	45,000
	9K + 18K + 18K	45,000
	9K + 18K + 24K	51,000
	9K + 24K + 24K	57,000
	12K + 12K + 12K	36,000
	12K + 12K + 18K	42,000
	12K + 12K + 24K	48,000
	12K + 18K + 18K	48,000
	12K + 18K + 24K	54,000
	12K + 24K + 24K	60,000
	18K + 18K + 18K	54,000
	18K + 18K + 24K	60,000
	9K + 9K + 9K + 9K	36,000
	9K + 9K + 9K + 12K	39,000
	9K + 9K + 9K + 18K	45,000
	9K + 9K + 9K + 24K	51,000
	9K + 9K + 12K + 12K	42,000
	9K + 9K + 12K + 18K	48,000
	9K + 9K + 12K + 24K	54,000
	9K + 9K + 18K + 18K	54,000
9K + 9K + 18K + 24K	60,000	
9K + 12K + 12K + 12K	45,000	
9K + 12K + 12K + 18K	51,000	
9K + 12K + 12K + 24K	57,000	
9K + 12K + 18K + 18K	57,000	
9K + 18K + 18K + 18K	63,000	
12K + 12K + 12K + 12K	48,000	
12K + 12K + 12K + 18K	54,000	
12K + 12K + 12K + 24K	60,000	
12K + 12K + 18K + 18K	60,000	
9K + 9K + 9K + 9K + 9K	45,000	
9K + 9K + 9K + 9K + 12K	48,000	
9K + 9K + 9K + 9K + 18K	54,000	
9K + 9K + 9K + 9K + 24K	60,000	
9K + 9K + 9K + 12K + 12K	51,000	
9K + 9K + 9K + 12K + 18K	57,000	
9K + 9K + 9K + 18K + 18K	63,000	
9K + 9K + 12K + 12K + 12K	54,000	
9K + 9K + 12K + 12K + 18K	60,000	
9K + 12K + 12K + 12K + 12K	57,000	
9K + 12K + 12K + 12K + 18K	63,000	
12K + 12K + 12K + 12K + 12K	60,000	





**VFH Series is part of a broad line of ductless mini-split models  
all with energy-efficient, comfort-enhancing inverter technology**



**VMH Series**  
Single Zone Heat Pumps  
9,000 to 24,000 BTUH  
up to 23.5 SEER

**VMH Series**  
Single Zone Heat Pumps  
Large Capacity  
30,000 & 36,000 BTUH  
up to 16 SEER

**DV Series**  
Single Zone Cooling only  
and Heat Pumps  
9,000 to 24,000 BTUH  
15 SEER

**Heat Controller has been delivering confidence  
for over three-quarters of a century.**

That's the confidence that comes from dealing with a company that's been around for generations. Founded in 1933, we can actually trace our beginnings to the Wingert Furnace Company which began building coal, gas and oil furnaces in 1907. Headquartered in Jackson, Michigan, since 1955, our facility, our staff and our product offerings have grown over the years to meet changes in the HVAC industry, including emerging technologies and regulatory requirements.

In May 2013 Heat Controller (and with it, Aitons' Equipment of Canada) became part of the MARS Company, a leading supplier of HVAC/R motors and components. The resulting partnership is dedicated to meeting our customers' parts and equipment needs, and to continuing to provide unparalleled customer service.

Due to ongoing product improvements, specifications and dimensions are subject to change and correction without notice or incurring obligations. Determining the application and suitability for use of any product is the responsibility of the installer. Additionally, the installer is responsible for verifying dimensional data on the actual product prior to beginning any installation preparations.

Incentive and rebate programs have precise requirements as to product performance and certification. All products meet applicable regulations in effect on date of manufacture; however, certifications are not necessarily granted for the life of a product. Therefore, it is the responsibility of the applicant to determine whether a specific model qualifies for these incentive/rebate programs.

# HEAT CONTROLLER

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A **MARS** Company