

Self-Contained & Split System Marine Reverse Cycle Air Conditioners SAB Self-Contained Units, CAB Condensers and **DEAH Air Handlers** 

### **General Description**

Marvair's water source self-contained and split system reverse cycle air conditioners are designed for use in either fresh or salt water. The self-contained units are built in capacities of 5,000; 7,000; 10,000; 12,000; 16,000; 18,000 and 24,000 BTUH. The selfcontained units are complete packaged units, factory charged and wired. The split systems are available in capacities of 7,000 to 60,000 BTUH and comprised of two parts, a condensing

section comprised of the compressor section and the air handler section. Field installed refrigerant tubing and wiring connects the two sections.

Units are available for operation on 115V, 60 Hz;

208/230V, 60 Hz and 220/240V, 50 Hz. The units are built using either R-410A or R-407c refrigerant. Both refrigerants are environmentally friendly, non-ozone depleting and accepted for use throughout the European Community.

The reverse cycle air conditioners feature rotary and scroll compressors with a suction line accumulator and high and low refrigerant pressure switches. The coaxial tube-in-tube condenser is constructed of corrosion resistant cupronickel water tubing and copper refrigerant tubing.

To ensure years of dependable performance, the units feature:

- A stainless steel base pan with multiple condensate drain openings allows the rapid disposal of condensate. The base pan is embossed to add rigidity and to keep the components out of the condensate. An insulated pad minimizes movement and sound. On the split systems, the compressor section and the air handler are mounted in a stainless steel trays.
- Structural supports and control box constructed of superior corrosion resistant aluminum. The aluminum is primed and then a white heat cured polyester finish is applied for the optimum in durability and aesthetics.
- A five foot long (151 cm), heavy duty multiwire cable harness facilitates the remote mounting of the control box. This complete cable assembly seals all the wires into the harness to minimize the chance of corrosion.
- The evaporator coil is constructed of lanced fins and rifled copper tubing for optimum heat transfer. The coil has a baked polyester enamel finish - no paint - and is rated to 1,000 hours when tested to ASTM B117.
- A compact, motorized impeller type blower moves the conditioned air quietly and efficiently through duct work. Backward curved, corrosion resistant centrifugal fans feature extremely long blades for high efficiency and low noise. Maintenance free ball bearings never need oiling.

All units are built to the requirements of UL standard 484, 7th Edition. Marvair<sup>®</sup> is an ISO 9001-2000 registered company. All self contained and split systems units (unless designated otherwise) meet applicable ABYC and US Coast Guard regulations, CE directives and all applicable Air Conditioning and Refrigeration Institute standards.



CAB07RCB & DEAH07RC



CE

4BYC

Self Contained\_Split PD 8/2013 rev.12

### Installation

Installation on both self contained and split system units is simplified with a readily accessible terminal strip for both the power and control (low voltage) wiring. The control box is located on the side of the self contained units and in the compressor section of the split systems. However, the control box can be easily mounted on the opposite side or on the top of the unit or even remotely mounted on a bulkhead. A five foot (151 cm) multiwire cable harness provides a durable and quick electrical connection between the unit and the control box. Condensate line ports (5/8" nylon tube) on both ends and both sides of the base pan facilitate the drain line connections. Factory provided hold-down clamps are included. On the split system units, the compressor section is shipped with a holding charge and, in many cases, no additional refrigerant is required.

#### Thermostats

All units can be controlled by either the o-Touch or the MachAir I thermostat/controller. The o-Touch and the MachAir I thermostat/controller display shows whether the unit is in the heating or cooling or fan only or dehumidification mode, set point temperature (°F or °C), cabin temperature (°F or °C) and fan indicator. The cooling or heating can be selected manually or the Auto mode selects whichever is required automatically. The fan speed can be controlled automatically or manually. Includes wall mounted controller/display. See the o-Touch Product Data Sheet for complete information on the o-Touch thermostat/controller.

### Accessories

#### Accessories are required and ordered separately.

- Sea Water Pump Kit.
- Air duct, supply grille(s) and return grille.
- Plumbing fittings.
- Thermostat/controller.

### Model Identification - Self-Contained Units

I Unit Designation SAB = Self-contained Packaged Unit with Blower & R-410A refrigerant

Nominal Capacity 05 = 5,000 BTUH 07 = 7,000 BTUH 10 = 10,000 BTUH 12 = 12,000 BTUH 16 = 16,000 BTUH 24 = 24,000 BTUH Power Supply A = 208/230 Volt, 1ø, 60 Hz B = 115v. 1ø, 60 Hz. C = 208/230 Volt, 3ø, 60 Hz. D = 460v. 3ø, 60 Hz. E = 380v. 3ø, 50 Hz W = 220/240v. 1ø, 50 Hz. F = 220v. 1ø, 50 Hz. System Type RC = Reverse Cycle

RC = Reverse Cycle AC = Cooling Only I Control Board 000 = No board 001 = 92031 Board, FX2 Multi-purpose supply 002 = 92205 Board, FX2 power supply w/Canbus 005 = 92206 Board, FX2 power supply w/Easy Start

### Model Identification - Split System Condensing Section

Unit Designation	Nominal Capacity	<b>RC</b> • • • • • • • • • • • • • • • • • • •	Orientation*
CNB = Condensing Unit & CCB = Condensing Unit & R-4107c refrigerant CNB = Condensing Unit , dry Nitrogen compatible w/R-22, R-417, R-407c	10 = 10,000 BTUH 12 = 12,000 BTUH 16 = 16,000 BTUH 18 = 18,000 BTUH 24 = 24,000 BTUH 36 = 36,000 BTUH 48 = 48,000 BTUH	$ \begin{array}{l} A = 250/230 \; \text{Volt}, \; Jb, \; O \; Hz, \\ B = 115 V, \; Jb, \; 60 \; Hz, \\ C = 208/230 \; Volt, \; 3 \mathfrak{g}, \; 60 \; Hz, \\ D = 460 V, \; 3 \mathfrak{g}, \; 60 \; Hz, \\ E = 380 V, \; 3 \mathfrak{g}, \; 50 \; Hz, \\ W = 220/240 V, \; 1 \mathfrak{g}, \; 50 \; Hz, \\ F = 220 V, \; 1 \mathfrak{g}, \; 50 \; Hz. \end{array} $	R = Right Hand R = Right Hand Control Board 001 = 92031 Board, FX2 Multi-purpose supply 002 = 92205 Board, FX2 power supply w/DC fan
	60 = 60,000 BTUH	System Type RC = Reverse Cycle	005 = 92206 Board, FX2 power supply w/Easy Start 007 = 92209 Board, FX2 w DC fan and Canbus

### **Model Identification - Split System Air Handler Section**

Unit Description DE = Direct Expansion Air HandlerConfiguration Configuration H = Factory Std.Nominal Capacity 07 = 7,000 BTUH 10 = 10,000 BTUH 12 = 12,000 BTUH 12 = 12,000 BTUH 16 = 16,000 BTUH 18 = 18,000 BTUH 18 = 18,000 BTUH 24 = 24,000 BTUH C C C E = EC Impeller W = WheelNominal Capacity 07 = 7,000 BTUH 10 = 10,000 BTUH <th><math display="block"> \begin{array}{c} \mbox{Electric Heat} \\ 000 = no heat \\ 010 = 1 \ kW \\ 015 = 1.5 \ kW \\ 020 = 2 \ kW \\ 025 = 2.5 \ kW \\ 030 = 3 \ kW \end{array} \qquad \begin{array}{c} \mbox{Unit Connetion} \\ \mbox{F} = \mbox{Flare} \\ \mbox{Q} = \mbox{QuickConnect} \\ \mbox{Q} = \mbox{Q} = \mbox{QuickConnect} \\ \mbox{Q} = \mbox{Q} = \mbox{Q} \\ \mbox{Q} \\ \mbox{Q} = \mbox{Q} \\ \mbox{Q} \\ \mbox{Q} = \mbox{Q} \\ \mbox{Q} = \mbox{Q} \\ \mbox{Q} = \mbox{Q} \\ \mbox{Q} \\ \mbox{Q} = \mbox{Q} \\ \mbox{Q} \\ \mbox{Q} = \mbox{Q} \\ \mbox{Q} \\ \mbox{Q} \\ \mbox{Q} = \mbox{Q} \\ \mbox{Q} \\ \mbox{Q} = \mbox{Q} \\ \mbox{Q} \ \mbox{Q} \\ \mbox{Q} \\ \mbox{Q} \ \mbox{Q} \\ \mbox{Q} \ \mbox{Q} \\ \mbo</math></th>	$ \begin{array}{c} \mbox{Electric Heat} \\ 000 = no heat \\ 010 = 1 \ kW \\ 015 = 1.5 \ kW \\ 020 = 2 \ kW \\ 025 = 2.5 \ kW \\ 030 = 3 \ kW \end{array} \qquad \begin{array}{c} \mbox{Unit Connetion} \\ \mbox{F} = \mbox{Flare} \\ \mbox{Q} = \mbox{QuickConnect} \\ \mbox{Q} = \mbox{Q} = \mbox{QuickConnect} \\ \mbox{Q} = \mbox{Q} = \mbox{Q} \\ \mbox{Q} \\ \mbox{Q} = \mbox{Q} \\ \mbox{Q} \\ \mbox{Q} = \mbox{Q} \\ \mbox{Q} = \mbox{Q} \\ \mbox{Q} = \mbox{Q} \\ \mbox{Q} \\ \mbox{Q} = \mbox{Q} \\ \mbox{Q} \\ \mbox{Q} = \mbox{Q} \\ \mbox{Q} \\ \mbox{Q} \\ \mbox{Q} = \mbox{Q} \\ \mbox{Q} \\ \mbox{Q} = \mbox{Q} \\ \mbox{Q} \ \mbox{Q} \\ \mbox{Q} \\ \mbox{Q} \ \mbox{Q} \\ \mbox{Q} \ \mbox{Q} \\ \mbo$
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### **Water Flow Chart**

Minimum Wate	er Flow* for Reverse Cycle Systems
Model (BTUH)	Minimum Water Flow at the Unit
5,000	1.4 GPM / 5.3 LPM
7,000	2.0 GPM / 7.6 LPM
10,000	2.9 GPM / 11.0 LPM
12,000	3.5 GPM / 13.3 LPM
16,000	4.7 GPM / 17.8 LPM
18,000	5.25 GPM / 19.9 LPM
24,000	7.0 GPM / 26.5 LPM
36,000	10.5 GPM / 40 LPM
48,000	14.0 GPM / 53.2 LPM
60,000	17.5 GPM / 66.5 GPM
* Based upon 85°F (29.5°C) inle	et water measured at the inlet of the unit.

### **Air Flow and Grille Chart**

Self Contained Unit or Air Handler	Nominal Air Flow CFM/m <sup>3</sup> per Hour	Minimum Opening for Return Air Grille (in <sup>2</sup> /cm <sup>2</sup> )	Minimum Opening for Supply Air Grille(s) (in <sup>2</sup> /cm <sup>2</sup> )	Minimum Hose Size (in/cm)	Marvair P/N for Blower to Hose Adapters	Outside Diameter of Hose Adapter (in/cm)
5,000	150/255	64/415	32/210	4/10.2	Not required. Blower has 4" (10.2cm) round diameter opening.	Not required. Blower has 4" (10.2cm) round diameter opening.
7,000	250/425	100/645	40/260	5/12.7	901341 (5" round hose adapter)	4-3/4" (12cm)
10,000	300/510	100/645	60/390	5 or 6*/ 12.7 or 15.2*	90134 (5" round hose adapter) or 90135 <sup>1</sup> (6" round hose adapter)	4-3/4" (12 cm) or 5-3/4" (14.6 cm)
12,000	360/612	140/900	70/450	6/15.2	90135 <sup>1</sup> (6" round hose adapter)	5-3/4" (14.6 cm)
16,000	385/654	168/1,110	84/540	6 or 7*/ 15.2 or 17.8*	90135 (6" round hose adapter) or 90136 <sup>1</sup> (7" round hose adapter)	5-3/4" (14.6 cm) or 6-3/4" (17.15cm)
18,000	420/714	168/1,110	84/540	7/17.8*	90136 <sup>1</sup> (7" round hose adapter)	6-3/4" (17.15cm)
24,000	700/1,190	240/1,550	192/1,240	8* or 10/ 20.3* or 25.4	90568 <b>²</b> (8" oval hose adapter)	10" x 4" (25.4 x 10.2 cm)
* Use larger	size if duct	run is areater	than 10 ft (3	meters)		

\* Use larger size if duct run is greater than 10 ft. (3 meters).
<sup>1</sup>Shipped standard with unit.

<sup>2</sup>Two adapters are shipped with each two ton unit.

## **Performance/Electrical Data for Self-Contained Units - Models SAB,** (115V, 60 Hz, R-410A Refrigerant)

Basic	Nominal Capacity	Voltage	Freq.	Run Amps	Unit Starting	MCA <sup>2</sup>	Maximum Fuse/		
Model	(BIOH)	(VAC)	(HZ.)	Cooling	Amps	MCA <sup>2</sup>	Breaker Size		
SAB05RCB	5,000	115	60	4.56	16.0	7.6	10		
SAB07RCB	7,000	115	60	6.11	21.4	10.2	15		
SAB10RCB	10,000	115	60	7.15	25.0	12.2	20		
SAB12RCB	12,000	115	60	11.06	38.7	13.5	20		
SAB16RCB	16,000	115	60	11.67	40.8	14.1	20		
<sup>1</sup> Amps will va approximate	<sup>1</sup> Amps will vary with actual voltage, inlet water temperature and inlet air temperature. Amps may be approximately 50% higher in the heating mode								

<sup>2</sup>MCA = Minimum Circuit Ampacity (Wire Size Amps)

# Performance/Electrical Data for Self-Contained Units - Models SAB, (208/230V, 60 Hz, R-410A Refrigerant)

Basic Model	Nominal Capacity (BTUH)	Voltage (VAC)	Freq. (Hz.)	Phase	Run Amps Cooling <sup>1</sup>	Unit Starting Amps <sup>1</sup>	MCA <sup>2</sup>	Maximum Fuse/ Breaker Size
SAB05RCA	5,000	208/230	60	1	2.20	7.70	4.3	10
SAB07RCA	7,000	208/230	60	1	2.91	10.2	5.1	10
SAB10RCA	10,000	208/230	60	1	3.42	12.0	6.0	10
SAB12RCA	12,000	208/230	60	1	5.24	18.3	6.9	10
SAB16RCA	16,000	208/230	60	1	4.94	17.3	8.7	15
SAB24RCA	24,000	208/230	60	1	6.96	24.4	17.7	30
<sup>1</sup> Amps will va approximate	ry with actua ly 50% highe	l voltage, ir r in the hea	nlet wate Iting mod	r temper de	ature and i	nlet air tem	perature.	Amps may be

<sup>2</sup>MCA = Minimum Circuit Ampacity (Wire Size Amps)

# Performance/Electrical Data for Self-Contained Units - Models SAB, (220/240V, 50 Hz, R-410A Refrigerant)

	Nominal	Voltage	Eroa		Run	Unit		Maximum Euse/
Basic Model	(BTUH)	(VAC)	(Hz.)	Phase	Cooling <sup>1</sup>	Amps <sup>1</sup>	MCA <sup>2</sup>	Breaker Size
SAB05RCF	5,000	220v.	50	1	2.45	8.60	4.8	10
SAB07RCF	7,000	220v.	50	1	2.83	9.90	5.2	10
SAB10RCF	10,000	220v.	50	1	3.37	11.8	5.4	10
SAB12RCF	12,000	220v.	50	1	6.70	23.5	8.3	10
SAB16RCF	16,000	220v.	50	1	7.06	24.7	8.8	15
SAB24RCF	24,000	220v.	50	1	8.26	28.9	16.5	25
14mns will va	ry with actua	l voltage ir	let wate	r temner	ature and i	nlet air tem	nerature	Amns may be

<sup>1</sup>Amps will vary with actual voltage, inlet water temperature and inlet air temperature. Amps may be approximately 50% higher in the heating mode

<sup>2</sup>MCA = Minimum Circuit Ampacity (Wire Size Amps)

### **Dimensional Data - Self-Contained Model 05 (inches & mm)**







NOTE: THE ELECTRICAL CONTROL BOX FOR ALL 5,000 MODELS IS ALWAYS REMOTELY MOUNTED.

# Dimensional Data - Self-Contained Models 07-10-12-16 (inches & mm)



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4" (102mm)

9" (229mm)

55 Lbs (25 kg)

3-1/2" (89mm)

10-3/8" (264mm)

66 Lbs (30 kg)

3-1/2" (89mm)

10-1/8" (257mm)

67 Lbs (30 kjg)

3-1/2" (89mm)

10-3/8" (264mm)

63 Lbs (29 kg)

Control Box Dimensions - 11 x 3-1/2 x 6-1/4" (279 x 79 x 159mm)

### **Dimensional Data - Self-Contained Model 24 (inches & mm)**



There are two conditioned air outlet openings, one on the top and one on the right side. Each opening is a  $9-7/8" \times 4"$  (251mm x 102mm) oval opening. An oval adapter, Marvair part number 91568, should be used as a transition to duct on each opening. This adapter has an outside diameter of 10" x 4" (254 mm x 102 mm). For optimum performance, both openings must be used. Insufficient air flow can cause ice to form on the evaporator coil in the cooling mode and premature activation of the circuit breaker in the heating mode.

### Performance/Electrical Data for Split System Condensing Section Models CAB, (115V, 60 Hz, R-410A Refrigerant)

Basic Model	Nominal Capacity (BTUH)	Voltage (VAC)	Freq. (Hz.)	Run Amps Cooling <sup>1</sup>	Unit Starting Amps <sup>1</sup>	MCA <sup>2</sup>	Maximum Fuse/ Breaker Size
CAB07RCB	7,000	115	60	6.11	21.4	10.2	15
CAB10RCB	10,000	115	60	7.15	25.0	12.2	20
CAB12RCB	12,000	115	60	11.06	38.7	13.5	20
CAB16RCB	16,000	115	60	11.67	40.8	14.1	20
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<sup>1</sup>Amps will vary with actual voltage, inlet water temperature and inlet air temperature. Amps may be approximately 50% higher in the heating mode

<sup>2</sup>MCA = Minimum Circuit Ampacity (Wire Size Amps)

### Performance/Electrical Data for Split System Condensing Section Models CAB, (208/230V, 60 Hz, R-410A Refrigerant)

Basic Model	Nominal Capacity (BTUH)	Voltage (VAC)	Freq. (Hz.)	Phase	Run Amps Cooling <sup>1</sup>	Unit Starting Amps <sup>1</sup>	MCA <sup>2</sup>	Maximum Fuse/ Breaker Size
CAB07RCA	7,000	208/230	60	1	2.91	10.2	5.1	10
CAB10RCA	10,000	208/230	60	1	3.42	12.0	6.0	10
CAB12RCA	12,000	208/230	60	1	5.24	18.3	6.9	10
CAB16RCA	16,000	208/230	60	1	4.94	17.3	8.7	15
CAB18RCA	18,000	208/230	60	1	10.0	35.0	12.5	20
CAB24RCA	24,000	208/230	60	1	6.96	24.4	17.7	30
CAB36RCA	36,000	208/230	60	1	14.1	49.4	17.6	30
CAB36RCC	36,000	208/230	60	3	6.3	22.1	7.88	10
CAB48RCA	48,000	208/230	60	1	22.1	77.4	27.6	30
CAB48RCC	48,000	208/230	60	3	14.6	51.1	18.3	20
CAB60RCA	60,000	208/230	60	1	29.4	102.9	36.8	40
CAB60RCC	60,000	208/230	60	3	17.8	62.3	22.3	30
<sup>1</sup> Amps will vary	with actual volta	ge, inlet water	temperati	ire and inle	et air temperat	ure. Amps ma	v be approx	imately 50% higher in

<sup>1</sup>Amps will vary with actual voltage, inlet water temperature and inlet air temperature. Amps may be approximately 50% higher in the heating mode

<sup>2</sup>MCA = Minimum Circuit Ampacity (Wire Size Amps)

### Performance/Electrical Data for Split System Condensing Section Models CAB, (220/240V, 50 Hz, R-410A Refrigerant)

Nominal Capacity (BTUH)	Voltage (VAC)	Freq. (Hz.)	Phase	Run Amps Cooling <sup>1</sup>	Unit Starting Amps <sup>1</sup>	MCA <sup>2</sup>	Maximum Fuse/ Breaker Size
7,000	200-220	50	1	2.83	9.90	5.2	10
10,000	200-220	50	1	3.37	11.8	5.4	10
12,000	200-220	50	1	TBD	TBD	TBD	TBD
16,000	200-220	50	1	TBD	TBD	TBD	TBD
24,000	200-220	50	1	8.26	28.9	16.5	25
36,000	200-220	50	1	20.0	87	25	30
48,000	200-220	50	1	23.6	136	29.5	40
60,000	200-220	50	1	27.3	153	34.1	40
	Nominal Capacity (BTUH) 7,000 10,000 12,000 16,000 24,000 36,000 48,000 60,000	Nominal Capacity (BTUH)     Voltage (VAC)       7,000     200-220       10,000     200-220       12,000     200-220       16,000     200-220       24,000     200-220       36,000     200-220       48,000     200-220       60,000     200-220	Nominal Capacity (BTUH)     Voltage (VAC)     Freq. (Hz.)       7,000     200-220     50       10,000     200-220     50       12,000     200-220     50       16,000     200-220     50       24,000     200-220     50       36,000     200-220     50       48,000     200-220     50       60,000     200-220     50	Nominal Capacity (BTUH)Voltage (VAC)Freq. (Hz.)Phase7,000200-22050110,000200-22050112,000200-22050116,000200-22050124,000200-22050136,000200-22050148,000200-22050160,000200-220501	Nominal Capacity (BTUH)Voltage (VAC)Freq. (Hz.)PhaseRun Amps Cooling17,000200-2205012.8310,000200-2205013.3712,000200-220501TBD16,000200-220501TBD24,000200-2205018.2636,000200-22050120.048,000200-22050123.660,000200-22050127.3	Nominal Capacity (BTUH)     Voltage (VAC)     Freq. (Hz.)     Phase     Run Amps Cooling1     Unit Starting Amps1       7,000     200-220     50     1     2.83     9.90       10,000     200-220     50     1     3.37     11.8       12,000     200-220     50     1     TBD     TBD       16,000     200-220     50     1     TBD     TBD       24,000     200-220     50     1     8.26     28.9       36,000     200-220     50     1     20.0     87       48,000     200-220     50     1     23.6     136       60,000     200-220     50     1     27.3     153	Nominal Capacity (BTUH)Voltage (VAC)Freq. (Hz.)PhaseRun Amps Cooling1Unit Starting Amps1MCA27,000200-2205012.839.905.210,000200-2205013.3711.85.412,000200-220501TBDTBDTBD16,000200-220501TBDTBDTBD16,000200-2205018.2628.916.524,000200-22050120.0872548,000200-22050123.613629.560,000200-22050127.315334.1

<sup>1</sup>Amps will vary with actual voltage, inlet water temperature and inlet air temperature. Amps may be approximately 50% higher in the heating mode
<sup>2</sup>MCA = Minimum Circuit Ampacity (Wire Size Amps)

### **Performance/Electrical Data for Split System Condensing Section Models CAB, (460V, 60 Hz, R-410A Refrigerant)**

Basic Model	Nominal Capacity (BTUH)	Voltage (VAC)	Freq. (Hz.)	Phase	Run Amps Cooling <sup>1</sup>	Unit Starting Amps <sup>1</sup>	MCA <sup>2</sup>	Maximum Fuse/ Breaker Size
CAB36RCD	36,000	460	60	3	6.3	22.1	7.88	10
CAB48RCD	48000	414/506	60	3	6.8	23.8	8.5	15
CAB60RCD	60000	414/506	60	3	8.6	30.1	10.8	20
1 Amore will yory	1 Among will your with actual voltage, inlat water temperature and inlat air temperature. Among may be approximately E00/ higher in							

<sup>1</sup>Amps will vary with actual voltage, inlet water temperature and inlet air temperature. Amps may be approximately 50% higher in the heating mode
<sup>2</sup>MCA = Minimum Circuit Ampacity (Wire Size Amps)

#### -HEA - Hinimum Circuit Ampacity (wire Size Amps)

### Electrical Data - Model DEAH, 50 Hz

Unit	Capacity (BTUH)	Volts	Freq. (Hz.)	Full Load Amps <sup>3</sup>	Air Flow (m <sup>3</sup> /hr)	Weight (kg)
DEAH07RCF	7,000	200-220	50	0.44	360	10
DEAH10RCF	10,000	200-220	50	0.58	495	11
DEAH12RCF	12,000	200-220	50	0.58	495	12
DEAH16RCF	16,000	200-220	50	0.86	580	12
DEAH18RCF	18,000	200-220	50	0.86	650	12
DEAH24RCF	24,000	200-220	50	0.86	968	20
E = 200y 220y	34 mpc will yary with	actual volta	20			

F = 200v-220v. <sup>3</sup>Amps will vary with actual voltage

				Full Load		Weight
Unit	Capacity (BTUH)	Volts	Freq. (Hz.)	Amps <sup>3</sup>	Air Flow (CFM)	(Lbs/kg)
DEAH07RCB	7,000	115	60	0.85	250	22/10
DEAH07RCA	7,000	230	60	0.44	250	22/10
DEAH10RCB	10,000	115	60	1.14	300	25/11
DEAH10RCA	10,000	230	60	0.58	300	25/11
DEAH12RCB	12,000	115	60	1.14	360	26/12
DEAH12RCA	12,000	230	60	0.58	360	26/12
DEAH16RCB	16,000	115	60	1.75	385	27/12
DEAH16RCA	16,000	230	60	0.86	385	27/12
DEAH18RCB	18,000	115	60	1.95	400	27/12
DEAH18RCA	18,000	230	60	0.94	400	27/12
DEAH24RCA	24,000	230	60	0.86	700	44/20
B = 115V A = 208-230v						

### Electrical Data - Model DEAH, 60 Hz

<sup>3</sup> Amps will vary with actual voltage.

### Split System Air Handler Models 07-10-12-16-18-24 Dimensional Data (inches/mm) & Weight (lbs/kg)









DIMS.	DEAH07	DEAH10	DEAH12	DEAH16/18	DEAH24
H INCH	11 1/2″	13 1/2″	13 1/2″	13 1/2″	18″
Н ММ	292 MM	342 MM	342 MM	342 MM	457 MM
W INCH	11″	11″	11″	11″	14 1/4"
W MM	279 MM	279 MM	279 MM	279 MM	362 MM
L INCH	12 7/8″	14 7/8″	14 7/8″	15 3/8″	23″
LMM	327 MM	378 MM	378 MM	390 MM	584 MM

### Split System Condensing Section Models 07-10-12-16-18 Dimensional Data (inches/mm) & Weight (lbs/kg)



FRONT VIEW

SIDE VIEW

		Weight			
Model	Н	L	W (Pan)	W (Box)	Lbs(kg)
07	13.13 (333)	15.50(394)	11.03 (280)	14.28(363)	39 (18)
10	13.13 (333)	15.50(394)	11.03 (280)	14.28(363)	45 (20)
12	13.13 (333)	15.50(394)	11.03 (280)	14.28(363)	47 (21)
16	13.13 (333)	15.50 (394)	11.03 (280)	14.28(363)	47 (21)

Unit Capacity	Refrigerant Conn. (Male Flare) - in(mm)			
(Btu/Hr)	Liquid	Suction		
7,000	1/4" (6.35)	3/8" (9.525)		
10,000	1/4" (6.35)	3/8" (9.525)		
12,000	1/4" (6.35)	3/8" (9.525)		
16,000	1/4" (6.35)	1/2" (12.7)		

### Split System Condensing Section Model 24 Dimensional Data (in./mm)



TOP VIEW







WEIGHT: 79 LBS / 36 KG

Note: 18,000 BTUH models are only available in 60 Hz.



### Split System Condensing Section Model 36, 48, 60 Dimensional Data (in./mm)









	W (INCH-MM)	L (INCH-MM)	H (INCH-MM)
CAB36	14 3/4 (374)	17 1/8 (435)	16 1/2 (491)
CAB48-60	15 (381)	22 (559)	24 1/2 (622)

Please consult the Marvair website at www.marvair.com for the latest product literature. Detailed dimensional data is available upon request. A complete warranty statement can be found in each product's Installation or Owner's manual, on the website or by contacting Marvair. As part of the Marvair Continuous improvement program, all specifications are subject to change without notice.

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