

RISER BACK

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SUPPLY DRAIN RETURN

DW -

DW

CONTROLS

ENCLOSURE

0.

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3" (76)-

3" (76)

0

TOP SUPPLY

AIR OPENING

F

DH

DH

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1 1/2"

3 5/8" (92)*

4 3" (76)

ELECTRICAL

KNOCK-OUT

UPPER CONTROLS

ENCLOSURE AND

ELECTRICAL POWER

CONNECTION

HEAT PUMP

CHASSIS

LOWER CONTROLS

FNCLOSURF

6 1/2" (151)*

*DRYWALL DIMENSION.

SLAB TO BOTTOM OF RETURN PANEL (NOT SHOWN)

CLEARANCE IS 3/4" (19)

STANDARD

AIR FILTER

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SERENITY VERTICAL STACK WATER SOURCE HEAT PUMP WITH ECM MOTOR CONCEALED, MASTER AND SLAVE MODEL SERIES: 44VH • UNIT SIZES 9 – 36

SUPPLY

RETURN

DRAIN

0

SUPPLY

AIR FRAME

DH

67 3/4"

(1715)

RISER LEFT

DW

*RISER CENTERLINE FOR 3" (76) DIA. AND LARGER, CONTACT FACTORY.

DH

DW

0

/ <u>-</u>**

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P TRAP

0

RISER RIGHT

DW

SUPPLY

RETURN

DRAIN

0

3" (76) STD.

4

FΔN

Н

40"

(1016)

(102)

AS REQUIRED

FLOOR

T0 FLOOR + 2" (51)

3 5/8" (92)* •

3" (76)

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- Concealed (Stand-alone) (default)
- M Master
- □ S Slave

CABINET OPTIONS:

- SSS Standard
- (Chassis ships separately) (default) SWC Standard
- (Shipped with Chassis)

STANDARD FEATURES:

- · 20 ga. (1.0) galvanized steel casing.
- Removable chassis allows staged installation and ease of maintenance.
- ECM Ultra-high efficiency fan motor with overload protection.
- · High-efficiency rotary & scroll compressors.
- Stainless steel braided hose kits for connection from piping risers to chassis.
- · TXV metering device.
- 1/2" (13) dual density insulation, exposed edges coated to prevent air erosion.
- 1" (25) throwaway filter.
- · Stainless steel insulated drain pans.
- · Factory installed P-Trap.
- Integrated drain pan with condensate overflow sensor.
- · Multiple supply air discharge options, factory or field configurable.
- · Unique double isolation compressor mounting for quiet operation.
- Front return panel with AW Appliance White powder coat finish.
- · Exceeds ASHRAE 90.1 efficiencies.

Dimensional Data

SCHEDULE TYPE:

Unit Size	Footprint Supply Grille		Cabinet SSS/SWC H	Filter Size	
9, 12	17 x 17 (432 x 432)	15 x 10 (281 x 254)	88 (2236)	14 x 24 (356 x 610)	
15, 18	20 x 20 (508 x 508)	18 x 10 (457 x 254)		16 x 25 (406 x 635)	
24	24 x 24 (610 x 610)	22 x 10 (559 x 254)		20 x 25 (508 x 635)	
30, 36	24 x 24 (610 x 610)	22 x 10 (559 x 254)		20 x 30 (508 x 762)	

A - 1 3/4" (44)

Α



В

2 1/8"

(54)



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PROJECT:	Dimensions are in inches (mm).				
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO.	
CONTRACTOR:	1 - 4 - 23	44	8 - 31 - 22	44VH-1	

Engineered Comfort reserves the right to change any information concerning product or pricing without notice.



SERENITY VERTICAL STACK WATER SOURCE HEAT PUMP WITH ECM MOTOR CONCEALED, MASTER AND SLAVE MODEL SERIES: 44VH • UNIT SIZES 9 – 36

GENERAL INFORMATION

Unit	CFM	GPM	Cooling		Heating		Compressor		
Size			Capacity (btuh)	EER	Capacity (btuh)	COP	Qty.	Туре	Charge (oz)
9	300	3.00	10,000	15.8	12,000	5.2	1	Rotary	30.0
12	400	3.50	12,400	15.7	14,500	5.1	1	Rotary	34.0
15	500	4.50	15,500	16.3	17,400	5.3	1	Rotary	36.0
18	625	5.50	18,500	16.0	21,000	5.0	1	Scroll	41.5
24	800	7.00	25,400	16.1	28,500	5.0	1	Scroll	63.0
30	1000	8.00	31,200	16.0	33,600	4.9	1	Scroll	70.0
36	1200	9.00	36,000	15.9	40,200	4.8	1	Scroll	74.0

ELECTRICAL DATA

Unit Size	Voltage	Horsepower - RPM	Blower FLA	Compressor RLA / LRA	Total FLA	МСА	Breaker Size
9	208/1	1/4-1600	1.1	3.7 / 29.0	4.8	5.8	15
9	265/1	1/4-1600	1.0	3.5 / 22.0	4.5	5.4	15
12	208/1	1/4-1600	1.4	4.7 / 25.0	6.1	7.6	15
12	265/1	1/4-1600	1.2	4.2 / 22.0	5.4	6.5	15
15	208/1	1/3-1075	1.8	5.6 / 22.0	7.4	8.8	15
15	265/1	1/3-1075	1.6	5.0 / 28.0	6.6	7.9	15
18	208/1	1/3-1075	1.8	9.0 / 47.5	10.8	13.1	20
10	265/1	1/3-1075	1.6	7.3 / 43.0	8.7	10.5	15
24	208/1	1/3-1075	2.4	10.9 / 62.9	13.3	16.1	25
24	265/1	1/3-1075	2.1	9.0 / 54.0	11.1	13.4	20
30	208/1	1/3-1075	3.2	13.5 / 75.5	16.7	20.1	30
30	265/1	1/3-1075	2.9	11.2 / 60.0	14.1	16.5	25
36	208/1	1/2-1075	3.7	14.1 / 72.2	17.8	21.4	30
30	265/1	1/2-1075	3.3	12.2 / 72.0	15.5	18.6	30

OPTIONS:

□ 1" (25) MERV 8 pleated filter.

- □ 2" (51) MERV 8 pleated filter.
- □ Plaque return panel with optional finishes.
- Full riser chase.
- Factory mounted risers.
- Stainless steel drain pans.
- □ Toggle disconnect switch.
- Door interlocking type disconnect switch.

NOTES:

SCHEDULE TYPE:

- 1. Wiring from electrical entry knock-out to controls enclosure is furnished and field installed by others.
- 2. Risers available from 3/4" (19) to 3" (76) dia..

- Cabinet stand.
- □ Tamper proof fasteners.
- Condensate pump.
- Insulated heat exchanger.
- □ Outside air damper (See submittal 44VH-2).
- □ Thermostat/Controls (by Engineered Comfort).
- Special features: _
 - 3. Max. riser length is 120" (3048), 100" (2540) min.
 - 4. Back riser location shown.
 - 5. For indoor use only.

Page 2 of 2. Dimensions are in inches (mm).

Voltage:

265V

208V/230V

Single phase, 60 Hz.

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