



**SERENITY VERTICAL STACK WATER SOURCE HEAT PUMP WITH OUTSIDE AIR DAMPER (OAI) AND ECM MOTOR  
CONCEALED, MASTER AND SLAVE  
MODELS: 44VHB AND 44VCB • UNIT SIZES 9 – 36**

**MODEL: 44VHB**

**Concealed** (default)

(Stand-alone)

**M Master**

**S Slave**

**Cabinet Options:**

**SSS Standard** (default)  
(Chassis ships separately)

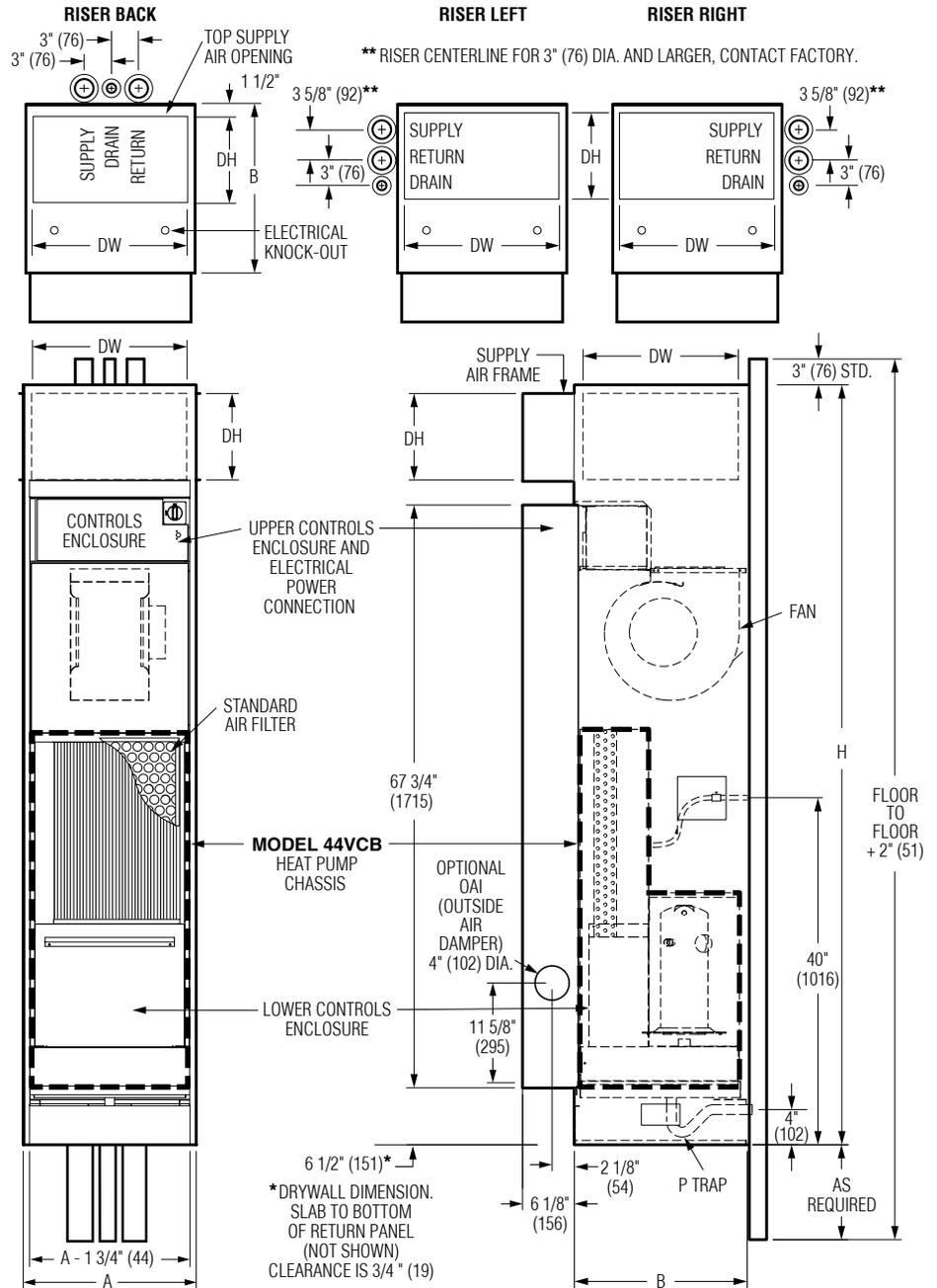
**SWC Standard**  
(Shipped with Chassis)

**MODEL: 44VCB**

(Heat Pump Chassis only)

**STANDARD FEATURES:**

- 20 ga. (1.0) galvanized steel casing.
- Outside Air Damper (right location is illustrated).
- 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**

Unit Size	Footprint A x B	Supply Grille Nominal DW x DH	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, 19	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)



**SCHEDULE TYPE:**

**PROJECT:**

**ENGINEER:**

**CONTRACTOR:**

Page 1 of 2.  
Dimensions are in inches (mm).

DATE	B SERIES	SUPERSEDES	DRAWING NO.
1 - 19 - 26	44	2 - 17 - 25	44VHB-2



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**GENERAL INFORMATION**

Unit Size	CFM	GPM	Cooling		Heating		Compressor		Charge (oz)
			Capacity (btuh)	EER	Capacity (btuh)	COP	Qty.	Type	
9	325	3.0	9000	14.5	11500	5.1	1	Rotary	27
12	425	3.5	12000	15.0	15000	5.0	1	Rotary	25
15	500	4.5	15000	15.6	17500	5.3	1	Rotary	37
19	625	5.5	19000	16.0	22000	4.8	1	Scroll	35
24	800	7.0	24000	15.1	28000	4.6	1	Scroll	54
30	1000	8.0	29000	15.8	31000	4.8	1	Scroll	62
36	1200	9.0	35500	15.2	39000	4.6	1	Scroll	62

**ELECTRICAL DATA**

Unit Size	Voltage	Horsepower - RPM	Blower FLA	Compressor RLA / LRA	Total FLA	MCA	Breaker Size
9	208/1	1/4 - 1800	1.1	4.0 / 22	5.1	6.1	15
	265/1	1/4 - 1800	1.0	4.0 / 23	5.0	6.0	15
12	208/1	1/4 - 1800	1.4	4.6 / 25	6.0	7.2	15
	265/1	1/4 - 1800	1.2	3.9 / 21	5.1	6.1	15
15	208/1	1/3 - 1050	1.8	5.2 / 26	7.0	8.3	15
	265/1	1/3 - 1050	1.6	4.7 / 21	6.3	7.5	15
19	208/1	1/3 - 1050	1.8	8.3 / 45.1	10.1	12.2	20
24	208/1	1/3 - 1050	2.4	10.3 / 60.2	12.7	15.3	25
	265/1	1/3 - 1050	2.1	10.3 / 60.5	12.4	15.0	25
30	208/1	1/3 - 1050	3.2	11.9 / 67.8	15.1	18.1	25
	265/1	1/3 - 1050	2.9	10.9 / 71.7	13.8	16.5	25
36	208/1	1/2 - 1050	3.7	13.5 / 82.5	17.2	20.6	30
	265/1	1/2 - 1050	3.3	12.2 / 83	15.5	18.6	30

**OPTIONS:**

- 1" (25) MERV 10 pleated filter.
- 2" (51) MERV 10 pleated filter.
- Plaque return panel with optional finishes.
- Full riser chase.
- Factory provided risers.
- Stainless steel drain pans.
- Toggle disconnect switch.
- Door interlocking type disconnect switch.

- Cabinet stand.
- Tamper proof fasteners.
- Condensate pump.
- Insulated heat exchanger.
- Thermostat/Controls (by Engineered Comfort).
- Special features: \_\_\_\_\_

**Voltage:**

- Single phase, 60 Hz.
- 208V/230V
- 265V

**NOTES:**

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..
3. Max. riser length is 120" (3048), 100" (2540) min.
4. Back riser location shown.
5. For indoor use only.

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