

MODEL: 44VHB

☐ **Concealed** (default)

(Stand-alone)

☐ **M Master**

☐ **S Slave**

Cabinet Options:

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

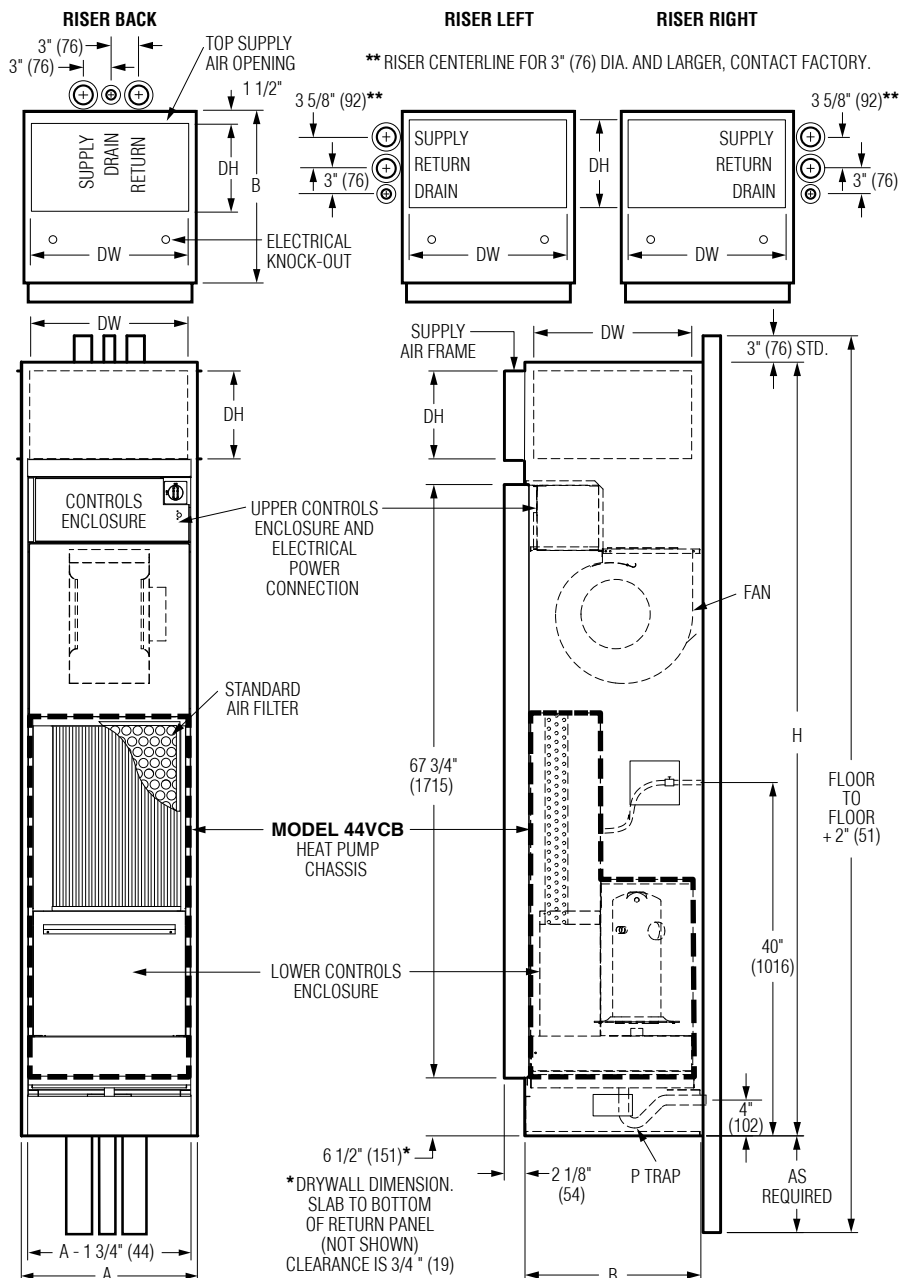
☐ **SWC Standard**
(Shipped with Chassis)

MODEL: 44VCB

(Heat Pump Chassis only)

STANDARD FEATURES:

- 20 ga. (1.0) galvanized steel casing.
- 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:

DATE	B SERIES	SUPERSEDES	DRAWING NO.
9 - 18 - 26	44	1 - 19 - 26	44VHB-1

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Dimensions are in inches (mm).



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

GENERAL INFORMATION

Unit Size	CFM	GPM	Cooling		Heating		Compressor	Charge (oz)	44VHB w/ Return Air Panel (lbs)	44VCB (lbs)	Operating Weight (lbs)
			Capacity (btuh)	EER	Capacity (btuh)	COP	Type				
9	325	3.0	9,000	14.5	11,500	5.1	Rotary	27	145	88	233
12	425	3.5	12000	15.0	15,000	5.0	Rotary	25	145	88	233
15	500	4.5	15000	15.6	17,500	5.3	Rotary	37	165	111	276
19	625	5.5	19000	16.0	22,000	4.8	Scroll	35	165	130	295
24	800	7.0	24000	15.1	28,000	4.6	Scroll	54	210	150	360
30	1000	8.0	29000	15.8	31,000	4.8	Scroll	62	210	174	384
36	1200	9.0	35500	15.2	39,000	4.6	Scroll	62	210	174	384

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.
- ☐ Outside air damper (See submittal 44VHB-2).
- ☐ 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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DATE

B SERIES

SUPERSEDES

DRAWING NO.

9 - 18 - 26

44

1 - 19 - 26

44VHB-1