

ComfortStar®

Air Conditioning & Heating Products

RESIDENTIAL PRODUCT CATALOG

BAR6 & BAH6 SERIES 1.5 UP TO 5 TONS

R454B

**UP TO
14.3 SEER2**



**10 YEARS
WARRANTY
PARTS**

**10 YEARS
WARRANTY
COMPRESSOR**

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www.ahridirectory.org



Comfort, it's in our name.

12201 N.W. 107th Avenue | Medley, FL 33178

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www.comfortstarusa.com

BAR6 & BAH6 SERIES

TOP DISCHARGE
CONDENSING UNIT
1.5 TONS UP TO 5 TONS



BAR6 & BAH6 Series Top Discharge Condenser Unit



R454B

UP TO 14.3 SEER2



CWM6 Series
Wall Mount Fan Coil



LUC6 Series
Air Handler

FEATURES:

- Low pressure protection
- High pressure protection
- Cooling range: 53°F~120°F
- Heating range: 5°F~80°F
- 5 Speed Dc Fan Motor
- High efficiency condenser with inner groove copper tube and aluminum fin.
- High Efficiency scroll compressor
- R454b environmentally friendly refrigerant.
- Powder painted galvanized steel cabinet.

BAR6 & BAH6 SERIES

TOP DISCHARGE CONDENSING UNIT

1.5 TONS UP TO 5 TONS
18,000 - 60,000 BTU

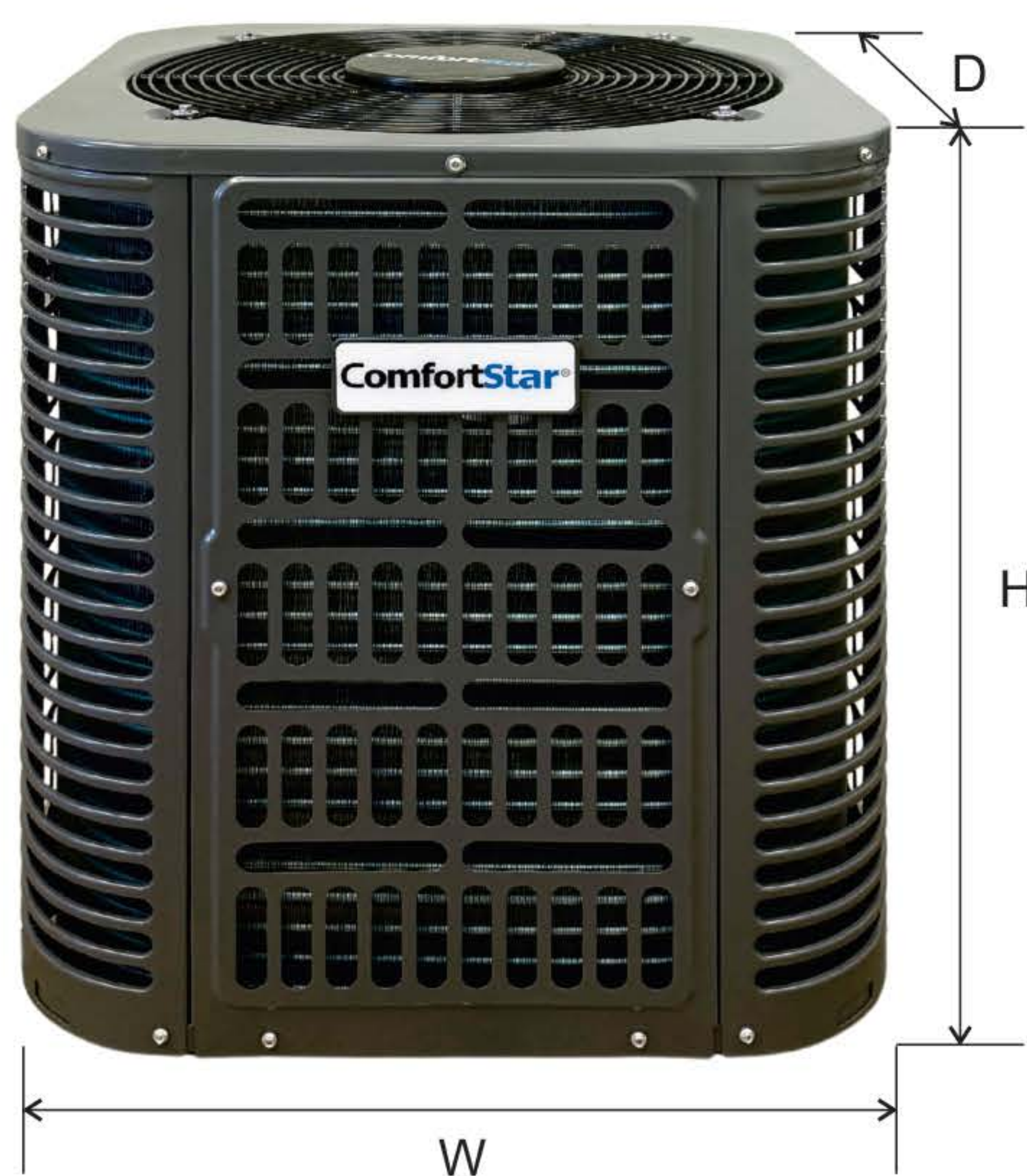
STANDARD FEATURES:

- Environmentally friendly R454B refrigerant with a low GWP value.
- Compressor designed for energy efficiency.
- Premium condenser featuring inner groove copper tube and aluminum fin.
- Service valves with sweat connections and accessible gauge ports.
- Certified by AHRI and listed by ETL.

CABINET FEATURES:

- The compact design enables easy installation, clearance, durability, and maneuverability.
- Cabinet chassis made of powder-painted galvanized steel.
- Equipped with a protective steel louvered coil guard.

**UP TO
14.3 SEER2**



DIMENSIONS:

Model Name	Dimension (W×H×D) (inch)	Power Supply
14.3 SEER Cooling Only & Heat Pump		
BAR6-18-15 BAH-18-15	21-4/5×25×21-4/5	208/230V-1Ph-60Hz
BAR6-24-15 BAH6-24-15	21-4/5×25×21-4/5	208/230V-1Ph-60Hz
BAR6-30-15 BAH6-30-15	29-1/7×25×29-1/7	208/230V-1Ph-60Hz
BAR6-36-15 BAH6-36-15	29-1/7×25×29-1/7	208/230V-1Ph-60Hz
BAR6-42-15 BAH6-42-15	29-1/7×32-7/8×29-1/7	208/230V-1Ph-60Hz
BAR6-48-15 BAH6-48-15	29-1/7×32-7/8×29-1/7	208/230V-1Ph-60Hz
BAR6-60-15 BAH6-60-15	29-1/7×32-7/8×29-1/7	208/230V-1Ph-60Hz



BAR6 SERIES

TOP DISCHARGE CONDENSING UNIT

1.5 TONS UP TO 5 TONS

UP TO
14.3 SEER2



SPECIFICATION:

OUTDOOR UNIT		BAR6-18-15	BAR6-24-15	BAR6-30-15	BAR6-36-15	BAR6-42-15	BAR6-48-15	BAR6-60-15
Electrical Data	Voltage / Phase (60Hz)	208/230 / 1	208/230 / 1	208/230 / 1	208/230 / 1	208/230 / 1	208/230 / 1	208/230 / 1
Cooling Capacity	BTU/H	18,000	24,000	30,000	36,000	42,000	48,000	60,000
Electrical Data	Min. / Max. Voltage	187/253	187/253	187/253	187/253	187/253	187/253	187/253
	MCA	13	13	15	25	25	30	33
	MOP	15	20	20	35	35	40	45
Compressor	Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
	Stage	/	/	/	/	/	/	/
	Capacity (BTU/h)	19500.00	24800.00	29700.00	36000.00	44700	52200	61400
	Input Power (W)	1192.00	1498.00	1772.00	2134.00	2684	3115	3664
	RLA (A)	6.80	8.70	10.10	14.00	12.6	14.5	16.2
	LRA (A)	47.00	59.00	71.00	75.00	96	102	125
Outdoor Coil	Tube Material	CopperTube	CopperTube	CopperTube	CopperTube	CopperTube	CopperTube	CopperTube
	Tube Type	InnerGrooved	InnerGrooved	InnerGrooved	InnerGrooved	InnerGrooved	InnerGrooved	InnerGrooved
Outdoor Motor	Type	DC	DC	DC	DC	DC	DC	DC
	Output Power (W)	200.00	200.00	200.00	200.00	200.00	200.00	200.00
	Output (HP)	1/16	1/16	1/16	1/16	1/16	1/16	1/16
	Full Load Amps (FLA) (A)	1.80	1.80	1.80	1.80	1.80	1.80	1.80
Outdoor Unit	Unit (W*H*D)(Inch)	21-4/5×25 ×21-4/5	21-4/5×25 ×21-4/5	29-1/7×25 ×29-1/7	29-1/7×25 ×29-1/7	29-1/7×32-7/8 ×29-1/7	29-1/7×32-7/8 ×29-1/7	29-1/7×32-7/8 ×29-1/7
	Packing (W*H*D)(Inch)	22-3/5×25-9/10 ×22-3/5	22-3/5×25-9/10 ×22-3/5	29-9/10×25-9/10 ×29-9/10	29-9/10×25-9/10 ×29-9/10	29-9/10×34-2/5 ×29-9/10	29-9/10×34-2/5 ×29-9/10	29-9/10×34-2/5 ×29-9/10
	Net/Gross Weight (Lbs.)	126/132	127/132	158/168	160/170	176/185	196/207	207/216
Refrigeration System	Liquid Valve Size (Inch)	Φ3/8	Φ3/8	Φ3/8	Φ3/8	Φ3/8	Φ3/8	Φ3/8
	Vapor Valve Size (Inch)	Φ3/4	Φ3/4	Φ3/4	Φ3/4	Φ3/4	Φ7/8	Φ7/8
	Max. Line Length (Ft)	130	130	130	130	130	130	130
	Refrigerant Type	R454B	R454B	R454B	R454B	R454B	R454B	R454B
	Refrigerant Factory Charged (Lb.-Oz)	70.55	75.84	116.40	123.46	124.45	134.04	165.78
Operation Temperature Range	Cooling °F	53~120	53~120	53~120	53~120	53~120	53~120	53~120



BAH6 SERIES
TOP DISCHARGE
CONDENSING UNIT
1.5 TONS UP TO 5 TONS

14.3 SEER2



SPECIFICATION:

Model		BAH6-18-15	BAH6-24-15	BAH6-30-15	BAH6-36-15	BAH6-42-15	BAH6-48-15	BAH6-60-15
Electrical Data	Voltage / Phase (60 Hz)	208/230 / 1	208/230 / 1	208/230 / 1	208/230 / 1	208/230 / 1	208/230 / 1	208/230 / 1
Cooling Capacity	BTU/H	18,000	24,000	30,000	36,000	42,000	48,000	60,000
Heating Capacity	BTUH	18,000	24,000	30,000	36,000	42,000	48,000	60,000
Electrical Data	Min. / Max. Voltage	187/253	187/253	187/253	187/253	187/253	187/253	187/253
	MCA	13	13	20	30	25	30	/
	MOP	15	20	25	40	35	40	/
Compressor	Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
	Stage	/	/	/	/	/	/	/
	Capacity (BTU/h)	19500.00	24800.00	29700.00	36000.00	44700	52200	61400
	Input Power (W)	1192.00	1498.00	1772.00	2134.00	2684	3115	3664
	RLA (A)	6.80	8.70	10.10	14.00	12.6	14.5	16.2
	LRA (A)	47.00	59.00	71.00	75.00	96	102	125
Outdoor Coil	Tube Material	CopperTube	CopperTube	CopperTube	CopperTube	CopperTube	CopperTube	CopperTube
	Tube Type	Inner Grooved	Inner Grooved	Inner Grooved	Inner Grooved	Inner Grooved	Inner Grooved	Inner Grooved
Outdoor Motor	Type	DC	DC	DC	DC	DC	DC	DC
	Output Power (W)	200.00	200.00	200.00	200.00	200.00	200.00	200.00
	Output (HP)	1/16	1/16	1/16	1/16	1/16	1/16	1/16
	Full Load Amps (FLA) (A)	1.80	1.80	1.80	1.80	1.80	1.80	1.80
Outdoor Unit	Unit (W*H*D)(Inch)	21-4/5×25 ×21-4/5	21-4/5×25 ×21-4/5	29-1/7×25 ×29-1/7	29-1/7×25 ×29-1/7	29-1/7×32-7/8 ×29-1/7	29-1/7×32-7/8 ×29-1/7	29-1/7×32-7/8 ×29-1/7
	Packing (W*H*D)(Inch)	22-3/5×25-9/10 ×22-3/5	22-3/5×25-9/10 ×22-3/5	29-9/10×25-9/10 ×29-9/10	29-9/10×25-9/10 ×29-9/10	29-9/10×34-2/5 ×29-9/10	29-9/10×34-2/5 ×29-9/10	29-9/10×34-2/5 ×29-9/10
	Net/Gross Weight (Lbs.)	132/139	133/139	164/173	168/177	183/196	203/212	216/227
Refrigeration System	Liquid Valve Size (Inch)	Φ3/8	Φ3/8	Φ3/8	Φ3/8	Φ3/8	Φ3/8	Φ3/8
	Vapor Valve Size (Inch)	Φ3/4	Φ3/4	Φ3/4	Φ3/4	Φ3/4	Φ7/8	Φ7/8
	Max. Line Length (Ft)	130.00	130.00	130.00	130.00	130.00	130.00	130.00
	Heating Piston Size	60.00	60.00	60.00	60.00	60.00	60.00	60.00
	Refrigerant Type	R454B	R454B	R454B	R454B	R454B	R454B	R454B
	Refrigerant Factory Charged (15')(Lb-Oz)	82.89	82.89	116.40	125.22	137.56	156.15	172.84
Operation Temperature Range	Cooling °F	53~120	53~120	53~120	53~120	53~120	53~120	53~120
	Heating °F	5-80	5-80	5-80	5-80	5-80	5-80	5-80



LUC6 SERIES

MULTI-POSITION AIR HANDLER

1.5 TONS UP TO 5 TONS
18,000 - 60,000 BTU

FEATURES:

- Copper tubes & aluminum fins.
- Factory sealed cabinet helps achieve 2% or less leakage rate - Multi-position Installation.
- Horizontal and vertical condensate drain pans standard.
- AHRI / ETL
- Blower wheel and coil easily slide out for better maintenance
- Field Installed heater kits are optional: 5/7.5/10/15/20kW.
- Multi-speed constant torque ECM blower motor
- Factory installed piston metering
- Mobile Home Certification.

UP TO 14.3 SEER2



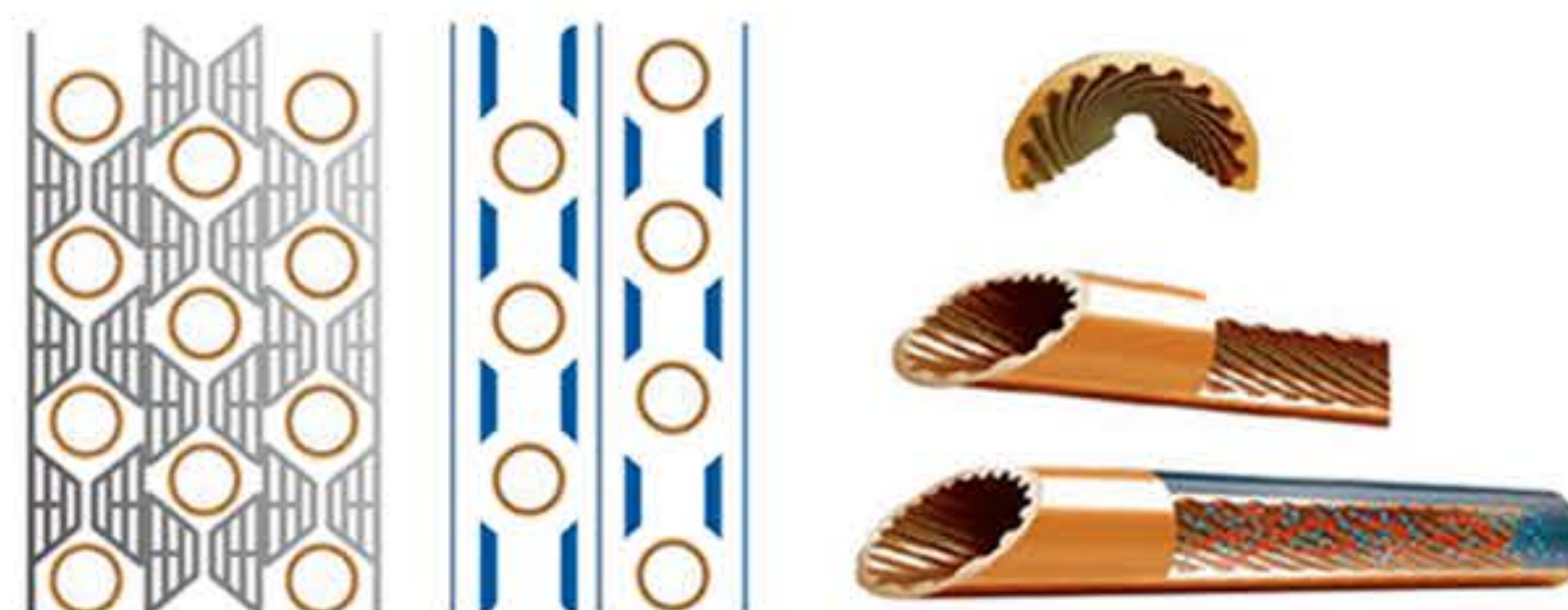
Insulated cabinet

Galvanized steel with paint on all panels. Thermal insulator cover all inside panels to reduce heat and cooling losses and prevent condensed water accumulation.



Coil

"A" shape coils, constructed with copper tubing and enhanced aluminum fins.



ECM Motor & Blower

The Air handler has multiple fan mode to choose from, which can flexibly respond to various environments.



Expansion device

Use piston as expansion device



HEATING KIT (OPTIONAL)

Part No.	Remark
CHE6A-01	5kw
CHE6A-02	8kw
CHE6A-03	10kw
CHE6A-04	15kw
CHE6A-05	20kw

LUC6 SERIES
AIR HANDLER
MULTI-POSITION
1.5 TONS UP TO 5 TONS

UP TO 14.3 SEER2



SPECIFICATION:

Model			LUC6-18-15	LUC6-24-15	LUC6-30-15	LUC6-36-15
Power Supply	Rated Voltage	V-Ph-Hz	208/230V-1Ph-60hz	208/230V-1Ph-60hz	208/230V-1Ph-60hz	208/230V-1Ph-60hz
	Min. / Max. Voltage	V	187/253	187/253	187/253	187/253
Cooling	Cooling Capacity	BTU/h	18,000	24,000	30,000	36,000
Min. Circuit Amps		A	1.5	1.5	2	2
Max. Over Current Protection		A	3	3	3	3
Indoor Motor	Type		ECM	ECM	ECM	ECM
	Output Horse Power	HP	1/8	1/8	1/8	1/8
	FLA	A	2.6	2.6	3.8	3.8
	Speed (Rated)	RPM	643/593/556/476/412	643/593/556/476/412	760/718/662/610/548	760/718/662/610/548
Indoor Fan	Material		Metal	Metal	Metal	Metal
	Type		ECM	ECM	ECM	ECM
	Diameter	Inch	12 5/16	12 5/16	12 5/16	12 5/16
	Length	Inch	12 29/32	12 29/32	12 29/32	12 29/32
	Airflow (Rated)	CFM	678	742	1042	1042
Indoor Coil	Tube Material		Aluminum	Aluminum	Aluminum	Aluminum
	Tube Size		Φ 0.276	Φ 0.276	Φ 0.276	Φ 0.276
Indoor Air Flow (Hi/Mi/Lo)		CFM	678	742	1042	1042
Indoor Noise Level (Hi/Mi/Lo)		dB(A)	50	54	56	56
Indoor Unit	Unit (W×H×D)	Inch	19-5/8/3×45-3/4×22	19-5/8/3×45-3/4×22	19-5/8/3×45-3/4×22	19-5/8/3×45-3/4×22
	Packing (W×H×D)	Inch	22-5/6×47-5/8×25-3/5	22-5/6×47-5/8×25-3/5	22-5/6×47-5/8×25-3/5	22-5/6×47-5/8×25-3/5
	Air Outlet (W×H)	Inch	17 7/8*10 1/2	17 7/8*10 1/2	17 7/8*10 1/2	17 7/8*10 1/2
	Net/Gross Weight	Lb	123/135	123/135	132/140	132/140
Refrigerant Piping	Liquid Side	Inch	Φ3/8	Φ3/8	Φ3/8	Φ3/8
	Gas Side	Inch	Φ3/4	Φ3/4	Φ3/4	Φ3/4
Thermostat Type			Wire Control	Wire Control	Wire Control	Wire Control
Operation Temperature Range		°F	53-120	53-120	53-120	53-120



LUC6 SERIES

AIR HANDLER

MULTI-POSITION

1.5 TONS UP TO 5 TONS

UP TO

14.3

SEER2



SPECIFICATION:

Model			LUC6-42-15	LUC6-48-15	LUC6-60-15
Power Supply	Rated Voltage	V-Ph-Hz	208/230V-1Ph-60hz	208/230V-1Ph-60hz	208/230V-1Ph-60hz
	Min. / Max. Voltage	V	187/253	187/253	187/253
Cooling	Cooling Capacity	BTU/h	42,000	48,000	60,000
Min. Circuit Amps		A	2.5	3	3
Max. Over Current Protection		A	5	5	5
Indoor Motor	Type		ECM	ECM	ECM
	Output Horse Power	HP	3/16	3/16	3/16
	FLA	A	5.4	5.4	5.4
	Speed (Rated)	RPM	977/833/760/683/610	977/833/760/683/610	977/833/760/683/610
Indoor Fan	Material		Metal	Metal	Metal
	Type		ECM	ECM	ECM
	Diameter	Inch	12 5/16	12 5/16	12 5/16
	Length	Inch	12 29/32	12 29/32	12 29/32
	Airflow (Rated)	CFM	1230	1363	1580
Indoor Coil	Tube Material		Aluminum	Aluminum	Aluminum
	Tube Size		Φ 0.276	Φ 0.276	Φ 0.276
Indoor Air Flow (Hi/Mi/Lo)		CFM	1230	1363	1580
Indoor Noise Level (Hi/Mi/Lo)		dB(A)	59	57	60
Indoor Unit	Unit (W×H×D)	Inch	22×53-1/8×24-1/2	22×53-1/8×24-1/2	22×53-1/8×24-1/2
	Packing (W×H×D)	Inch	28×54-3/4×25-1/5	28×54-3/4×25-1/5	28×54-3/4×25-1/5
	Air Outlet (W×H)	Inch	17 7/8*10 1/2	17 7/8*10 1/2	17 7/8*10 1/2
	Net/Gross Weight	Lb	159/172	159/172	170/183
Refrigerant Piping	Liquid Side	Inch	Φ3/8	Φ3/8	Φ3/8
	Gas Side	inch	Φ3/4	Φ7/8	Φ7/8
Thermostat Type			Wire Control	Wire Control	Wire Control
Operation Temperature Range		°F	53-120	53-120	53-120



CWM6 SERIES

WALL MOUNTED AIR HANDLER

1.5 TONS UP TO 3 TONS
18,000 - 36,000 BTU

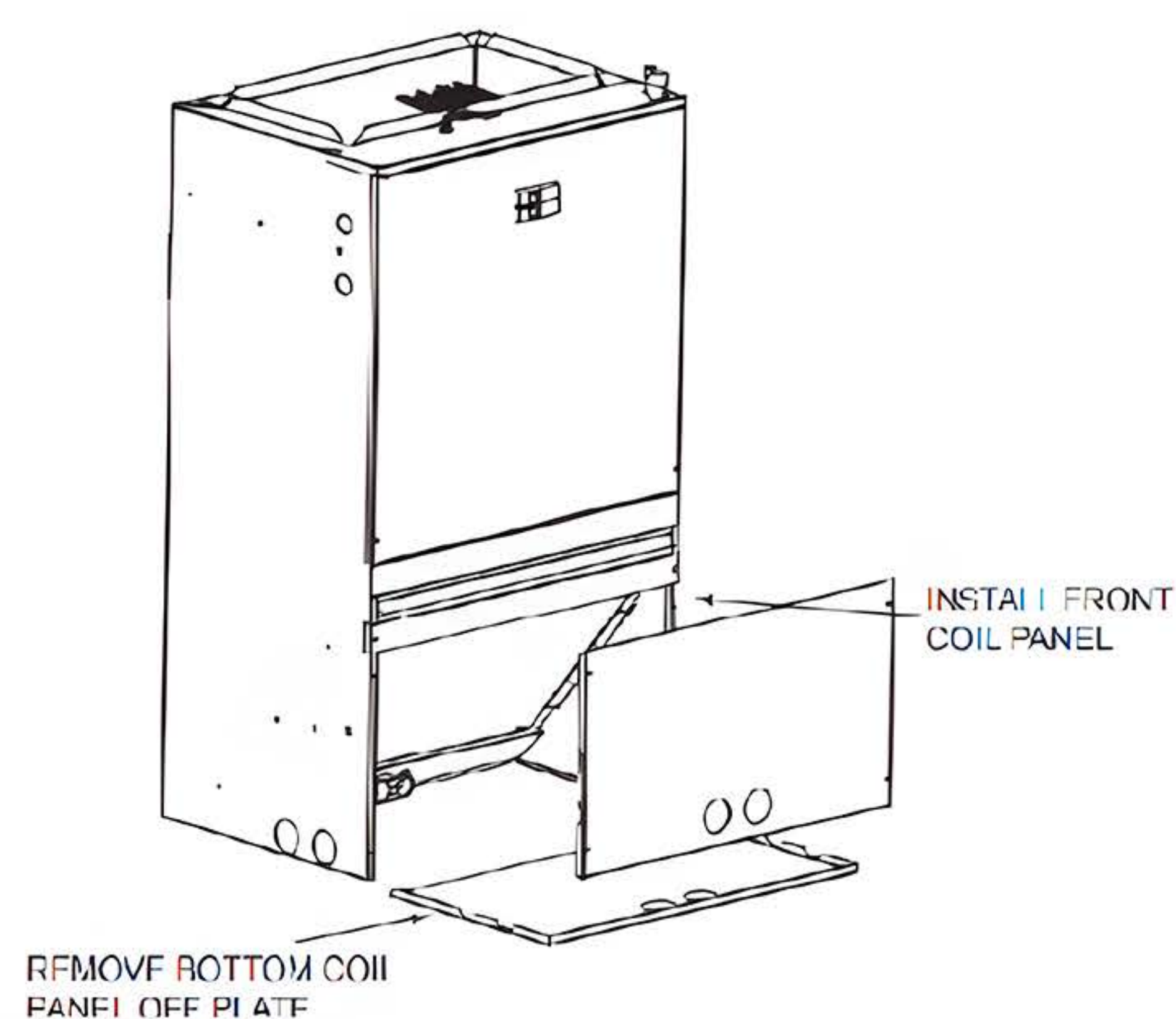
FEATURES:

- Front or bottom air return: Remove the cross brace when converting the cabinet to a bottom return
- Wall or stud mounting installation
- Factory Standard Front Return: Convertible to Bottom Return by removing the base pan panel to the front side
- Suitable for CO and HP condenser unit.
- Operates quietly.
- Auxiliary heaters are available in 5kw, 7.5kw, and 10kw options.
- Equipped with an ECM constant torque motor.
- Features copper tube and aluminum fin coils.
- Comes with a factory-installed piston metering device.
- Metal cabinet with foil face insulation.
- Standard thermostat functionality.
- Compact design.
- Includes a refrigerant leak sensor.

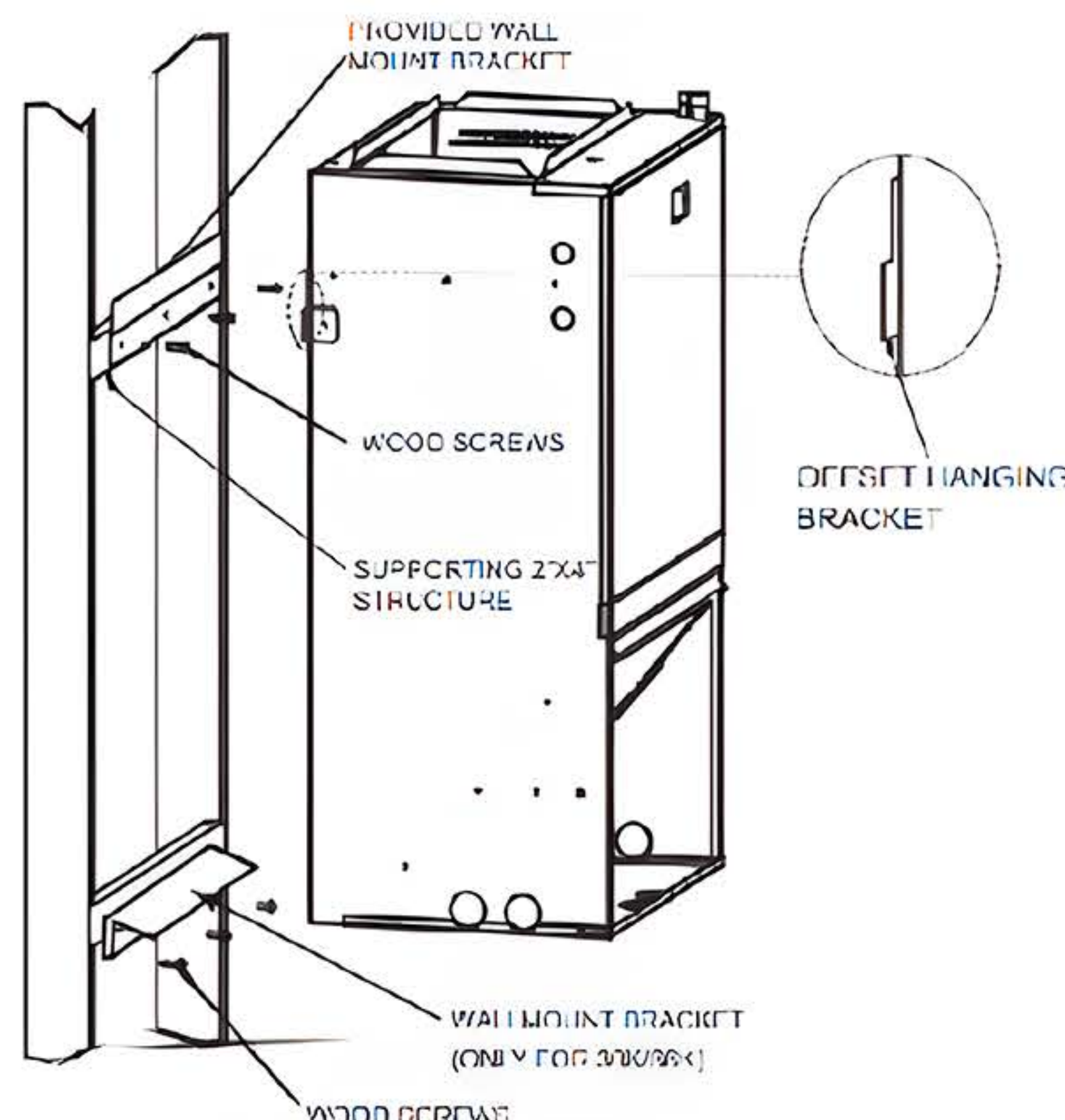
HEATING KIT (OPTIONAL)

Part No.	Remark
CHE6-05B	5kw
CHE6-08B	8kw
CHE6-10B	10kw

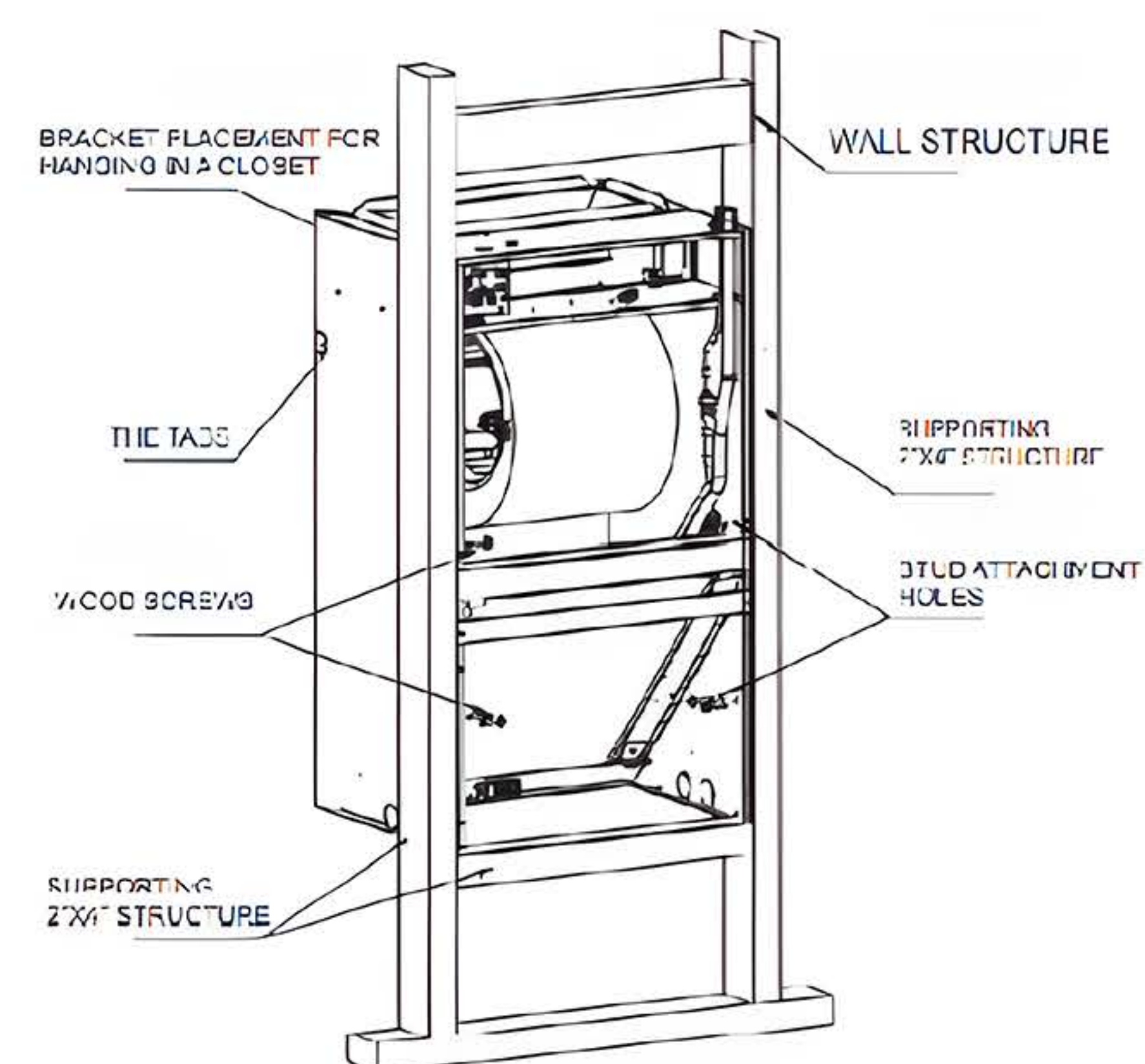
14.3 SEER2



Different Air Supply



Wall Mount



Frame Mount



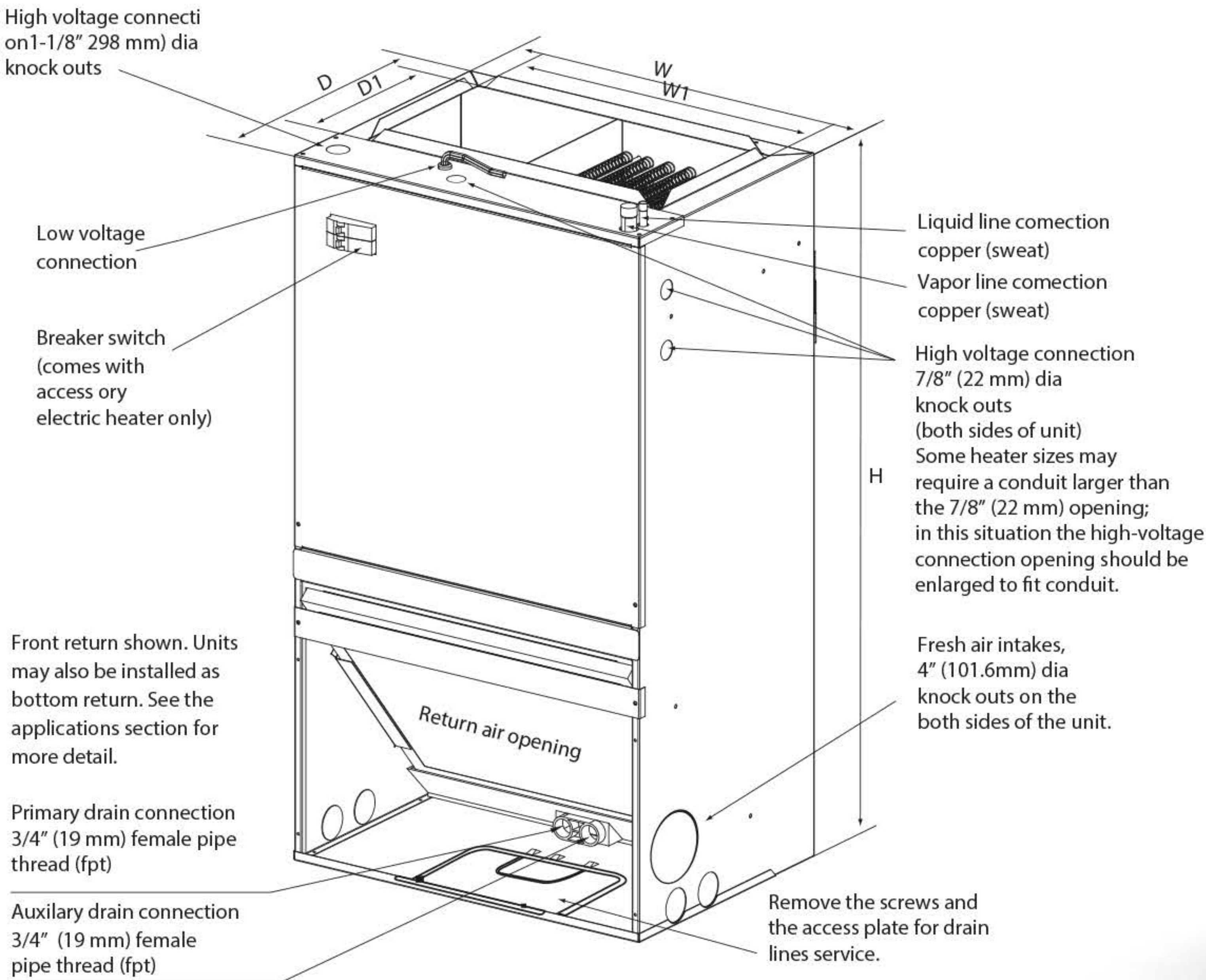
CWM6 SERIES

WALL MOUNTED

AIR HANDLER

1.5 TONS UP TO 3 TONS

SPECIFICATION:



14.3 SEER2



SPECIFICATION:

Model			CWM6-18E-15	CWM6-24E-15	CWM6-30E-15	CWM6-36E-15
Power Supply	Rated Voltage	V-Ph-Hz	208/230V,1Ph,60Hz	208/230V,1Ph,60Hz	208/230V,1Ph,60Hz	208/230V,1Ph,60Hz
	Min. / Max. Voltage	V	187/253	187/253	187/253	187/253
Cooling	Capacity	BTU/h	18,000	24,000	30,000	36,000
Indoor Fan	Type		ECM	ECM	ECM	ECM
Indoor Coil	Type		Tube & Fin	Tube & Fin	Tube & Fin	Tube & Fin
	Tube Outside Dia.	Inch	Φ 0.276	Φ 0.276	Φ 0.276	Φ 0.276
	Tube Material		Inner Grooved	Inner Grooved	Inner Grooved	Inner Grooved
Indoor Unit	Unit (W×H×D)	Inch	20-1/2"×15"×36-1/2"	20-1/2"×15"×36-1/2"	22"×19"×39-1/2"	22"×19"×39-1/2"
	Packing (W×H×D)	Inch	23-3/7"×17-1/2"×39-1/2"	23-3/7"×17-1/2"×39-1/2"	24-1/2"×21-4/5"×42-1/10"	24-1/2"×21-4/5"×42-1/10"
	Air Outlet (W×H)	Inch	17 1/2 * 9 1/2	17 1/2 * 9 1/2	17 1/2 * 9 1/2	17 1/2 * 9 1/2
Refrigerant Piping	Liquid Side	Inch	Φ3/8	Φ3/8	Φ3/8	Φ3/8
	Gas Side	Inch	Φ3/4	Φ3/4	Φ3/4	Φ3/4
Design Information	Design Pressure	Psig	550/250	550/250	550/250	550/250
	Control		24V Wire Control	24V Wire Control	24V Wire Control	24V Wire Control
Operation Temperature Range		°F	53-120	53-120	53-120	53-120





BAR6 SERIES

Model		Cooling Capacity (BTU/h)	Heating Capacity (BTU/h)	EER2	SEER2	HSPF2
Outdoor	Indoor					
BAR6-18-15	LUC6-18-15	17600	/	11.7	14.3	/
BAR6-24-15	LUC6-24-15	22800	/	11.7	14.3	/
BAR6-30-15	LUC6-30-15	28000	/	11.7	14.3	/
BAR6-36-15	LUC6-36-15	33000	/	11.7	14.3	/
BAR6-42-15	LUC6-42-15	41000	/	11.7	14.3	/
BAR6-48-15	LUC6-48-15	46000	/	11.2	13.8	/
BAR6-60-15	LUC6-60-15	54000	/	11.2	13.8	/
BAR6-18-15	CWM6-18E-15	17400	/	11.7	14.3	/
BAR6-24-15	CWM6-24E-15	22000	/	11.7	14.3	/
BAR6-30-15	CWM6-30E-15	29000	/	11.7	14.3	/
BAR6-36-15	CWM6-36E-15	33800	/	11.7	14.3	/



BAH6 SERIES

Model		Cooling Capacity (BTU/h)	Heating Capacity (BTU/h)	EER2	SEER2	HSPF2
Outdoor	Indoor					
BAH6-18-15	LUC6-18-15	17600	17200	11.7	14.3	7.5
BAH6-24-15	LUC6-24-15	22800	21800	11.7	14.3	7.5
BAH6-30-15	LUC6-30-15	28000	27800	11.7	14.3	7.5
BAH6-36-15	LUC6-36-15	33000	33000	11.7	14.3	7.5
BAH6-42-15	LUC6-42-15	41000	40600	11.7	14.3	7.5
BAH6-48-15	LUC6-48-15	46000	45600	11.2	14.3	7.5
BAH6-60-15	LUC6-60-15	54000	54000	11.2	14.3	7.5
BAH6-18-15	CWM6-18E-15	17400	17000	11.7	14.3	7.5
BAH6-24-15	CWM6-24E-15	22000	22000	11.7	14.3	7.5
BAH6-30-15	CWM6-30E-15	29000	27600	11.7	14.3	7.5
BAH6-36-15	CWM6-36E-15	33800	33000	11.7	14.3	7.5



ComfortStar®

Air Conditioning & Heating Products

BAR6 & BAH6 SERIES

1.5 UP TO 5 TONS

R454B

**UP TO
14.3 SEER2**



**10 YEARS
WARRANTY
PARTS**

**10 YEARS
WARRANTY
COMPRESSOR**

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