

Thermal \approx Flow

Ultra-Efficient Indoor Comfort Systems

Residential Water Cooled Air Conditioner

Attractive All-Fiberglass Enclosure

Cannot corrode. Low profile design with smooth gray finish. Never requires paint.

High Efficiency Fan

Durable aluminum epoxy coated frame. Precision balanced heavy duty plastic blades for quiet, trouble-free service.

Heat Exchangers

100% Copper tubing. Modular design provides space and cooling capacity for multiple zones in a single enclosure.

Plastic Spray Nozzle

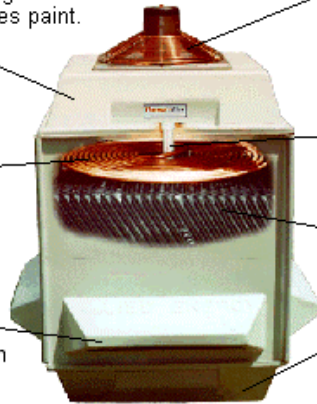
Overlapping spray pattern. Non-corrosive, non-fouling.

High Efficiency Plastic Media

Enhances evaporation. Eliminates corrosion.

Air Inlet Windows

Designed to block sunlight which eliminates algae formation as a maintenance concern.



Freeze Protection

Fiberglass basin designed to eliminate freeze damage. Pump is protected by low wattage heat strips.

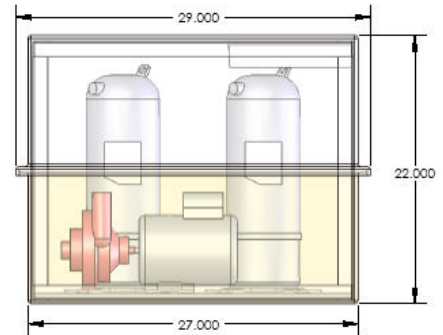
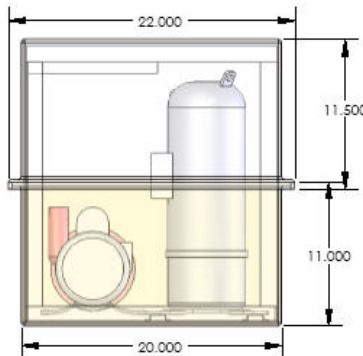
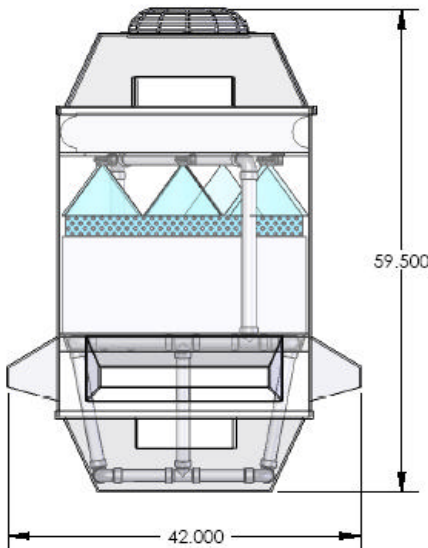
Available in these Single Compressor Sizes

	Capacity BTU/Hr	Min. Circuit Amps	Min/Max Breaker
2 Ton	25,900	16	20/25
3 Ton	33,700	23	30/40
3.5 Ton	40,500	27	35/45
4 Ton	47,800	29	35/50
5 Ton	58,500	40	50/60

Multiple Compressor Systems Available with Two or Three Compressors - 4 Ton to 8 Ton Total Capacity
All systems use R-22 refrigerant



Condenser with Dual Compressor Box



Water Cooled Condenser

Single Compressor Box

Dual Compressor Box

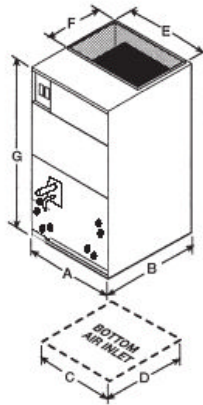
Thermal~Flow Ultra-Efficient Indoor Comfort Systems

P.O. Box 136664 Ft. Worth, TX 76136 PHONE: 1-800-810-4307

**B41, S41, B17,
S17, B15, S15
"C" SERIES™**

Air Handler / Electric Furnace

Multiposition Design With Coil Cavity 0-20 KW
(Upflow/Horizontal Left or Horizontal Right *)



Description:

The B/S41, B/S17 and B/S15 DX fan coil units with electric heat are designed for multi-position applications in closet, attic, or basement installations.

- The B/S41 unit will move up to 1200 CFM air flow, up to 3 tons of cooling capacity and up to 15 KW electric heat.
- The B/S17 unit will move up to 1410 CFM air flow, 3 to 3.5 tons of cooling capacity and up to 20 KW electric heat.
- The B/S15 unit will move up to 2100 CFM air flow, 3 to 5 tons of cooling capacity and up to 20 KW electric heat.

For cooling requirements, these units are designed to accept coils to match with most brands of A/C condensing units and HP outdoor units. These units are UL & ULc listed.
(Approved for Canada).



Physical Dimensions

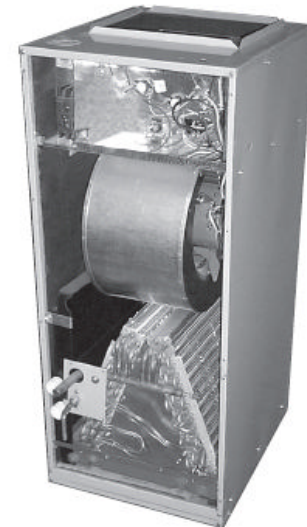
Model No.	A	B	C	D	E	F	G
B41, S41	17-1/2	21	15	17-1/2	16	12-5/8	39-3/4
B17, S17	21-1/2	21	19-1/4	17-1/2	19-5/8	12-5/8	49-3/4
B15, S15	21-1/2	25	19-1/4	22-1/4	19-5/8	17-1/4	49-3/4

Standard Features:

- Upflow, horizontal right to left and (*) easily converted to horizontal left or right airflow without additional parts.
- Drain pans are durable non corrosive plastic, and met ASHRAE standards for IAQ.
- Drain pans have primary and secondary drains for either left or right hand connections.
- Cabinet is heavy gauge, embossed galvanized steel substrate, with front and top panels pre-painted a durable, attractive neutral gray.
- All units are equipped with factory installed time delay relay as standard.
- All units include a 1 inch throwaway filter.
- All units are 208/230/60/1.
- All units shipped with a 208/240V / 40 VA transformer.
- Standard units w/ 12 KW electric heat and above have factory installed circuit breakers (UL requirement). All units 10 KW and below may be ordered with or without circuit breaker option.
- All units are suitable for 0 inch clearance to combustible materials.
- Units are not suitable for counterflow / downflow applications.
- Blower assembly slides out of easy maintenance.
- Refrigeration coil connections are swaged and then factory sealed with copper caps to maintain a nitrogen holding charge.

Options:

- Factory installed circuit breaker on 10 KW and below models.
- Factory installed thermal expansion valve (TXV).



07/01/06



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General Specifications:

Model No.	Cooling Capacity	Blower	Nominal SCFM @.2ESP w/coil	KW
B41, S41	1.5-2 tons	-45	900	0-10
B41, S41	2.5-3 tons	-34	1200	0-15
B17, S17	3-3.5 tons	-55	1510	0-20
B15, S15	3-4 tons	-55	1700	0-20
B15, S15	5 tons	-51	2100	0-20

Filters:

Model No.	Filter Size
B41, S41	16x20x1
B17, S17	20x20x1
B15, S15	20x25x1

Shipping Data:

Model No.	Max. Shp. Wt. w/coil	Qty. Per Truck Load
B/S41	118	192
B/S17	155	144
B/S15	180	144

Blower Data:

Model No.	Airflow Tonnage Range	Motor @230V 1 Ph 60 Hz		DD Blower Wheel	3 Spd. Motor (Tons)	Duty	SCFM vs. ESP (1) (2)				
		HP	FLA				.1	.2	.3	.4	.5
B/S41-45-00-C1BA	1.5 - 2.0	1/4	1.7	10x6	H(2.0)	Cool	950	900	850	790	720
B/S41-45-05-C1BA					M(1.5)	Cool	950	900	850	790	720
B/S41-45-08-C1BA					L	Heat	950	900	850	790	720
B/S41-45-10-C1BA											
B/S41-34-00-C1BA	2.5 - 3.0	1/3	2.8	10x7							
B/S41-34-05-C1BA					H(3.0)	Cool	1250	1200	1120	1060	1000
B/S41-34-08-C1BA					M(2.5)	Cool	1070	1020	970	920	860
B/S41-34-10-C1BA					L	Heat	900	870	840	790	720
B41-34-15-C1BA											
B/S17-55-00-C1BA	3.0 - 3.5	1/3	3.1	10x8							
B/S17-55-05-C1BA					H(3.5)	Cool	1650	1510	1410	1280	1200
B/S17-55-08-C1BA					M(3.0)	Cool	1450	1330	1180	1080	960
B/S17-55-10-C1BA					L	Heat	1000	920	810	750	660
B17-55-15-C1BA											
B17-55-20-C1BA											
B/S15-55-00-C1BA	3.0 - 4.0	1/3	3.1	10x8							
B/S15-55-05-C1BA					H(4.0)	Cool	1850	1700	1650	1500	1410
B/S15-55-08-C1BA					M(3.5)	Cool	1750	1650	1450	1330	1180
B/S15-55-10-C1BA					L	Heat	1150	1060	1000	920	810
B15-55-15-C1BA											
B15-55-20-C1BA											
B/S15-51-00-C1BA	4.0 - 5.0	3/4	4.8	11x9							
B/S15-51-05-C1BA					H(5.0)	Cool	2160	2100	2000	1940	1880
B/S15-51-08-C1BA					M(4.0)	Cool	2110	1980	1810	1750	1650
B/S15-51-10-C1BA					L	Heat	2000	1860	1670	1340	1200
B/S15-51-15-C1BA											
B/S15-51-20-C1BA											



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Performance Data:

Model No.	Nominal SCFM	Nominal Cooling BTUH	KW Electric Heat		Min. Circuit Ampacity		Max. Fuse or Breaker (HACR)	
			240V	208V	240V	208V	240V	208V
B/S41-45-00-C1BA	800 to 900	18,000 to 24,000	0	0	2.1	1.9	15	15
B/S41-45-05-C1BA			5	3.8	29	25	30	25
B/S41-45-08-C1BA	900 to 1020	24,000 to 30,000	8	6	44	39	45	40
B/S41-45-10-C1BA			10	7.5	55	48	60	50
B/S41-34-00-C1BA	1020 to 1200	30,000 to 36,000	0	0	3.5	3.4	15	15
B/S41-34-05-C1BA			5	3.8	30	27	30	30
B/S41-34-08-C1BA	1200 to 1450	36,000 to 42,000	8	6	46	40	50	40
B/S41-34-10-C1BA			10	7.5	56	49	60	50
B41-34-15-C1BA			15	11.3	56/26	49/23	60/30	50/30
B/S17-55-00-C1BA	1250 to 1450	36,000 to 42,000	0	0	4.1	3.9	15	15
B/S17-55-05-C1BA			5	3.8	30	27	30	25
B/S17-55-08-C1BA	1450 to 1750	42,000 to 48,000	8	6	46	41	50	45
B/S17-55-10-C1BA			10	7.5	57	50	60	50
B17-55-15-C1BA			15	11.3	53/30	46/27	60/30	50/30
B17-55-20-C1BA			20	15	57/53	50/46	60/60	50/50
B/S15-55-00-C1BA	1650 to 1750	36,000 to 48,000	0	0	4.0	3.9	15	15
B/S15-55-05-C1BA			5	3.8	30	27	30	25
B/S15-55-08-C1BA	1750 to 2100	48,000 to 60,000	8	6	46	41	50	45
B/S15-55-10-C1BA			10	7.5	57	50	60	50
B15-55-15-C1BA			15	11.3	53/30	46/27	60/30	50/30
B15-55-20-C1BA			20	15	57/53	50/46	60/60	50/50
B/S15-51-00-C1BA	1980 to 2100	48,000 to 60,000	0	0	6.0	5.9	15	15
B/S15-51-05-C1BA			5	3.8	32	29	35	30
B/S15-51-08-C1BA	2100 to 2400	60,000 to 72,000	8	6	48	42	50	45
B/S15-51-10-C1BA			10	7.5	59	52	60	60
B15-51-15-C1BA			15	11.3	53/32	46/29	60/35	50/30
B15-51-20-C1BA			20	15	59/53	52/46	60/60	60/50

Units with over 10KW available in circuit breaker "B" models.
Other KW sizes also available.

