Return to Contents

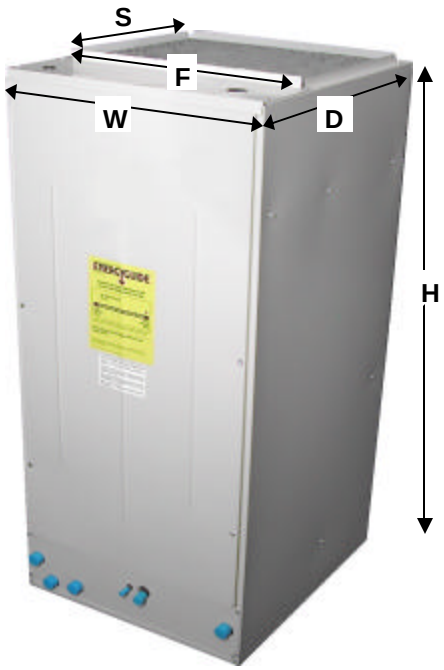
SLW / BLW SERIES HYDRONIC AIR HANDLERS

STANDARD FEATURES

MULTI-POSITION:UPFLOW & HORIZONTAL
(UNIT COMES UPFLOW AND HORIZONTAL LEFT OF RIGHT. FIELD CONVERTIBLE TO THE OPPOSITE HORIZONTAL DIRECT)
HYDRONIC HEATING
ATTRACTIVE POWDER PAINTED EXTERIOR
FULLY INSULATED CABINET
115 VAC OPERATION
MULTI-SPEED DIRECT DRIVE BLOWER
1.0 TO 5.0 TONS COOLING CAPACITY
CIRCULATING PUMP & CHECK VALVE
CIRCULATING PUMP RELAY
ENTERING WATER THERMOSTAT
FIVE YEAR LIMITED WARRANTY

OPTIONAL FEATURES

FREEZESTAT
THERMAL EXPANSION VALVES
TIME DELAY RELAY
DX COIL FOR COOLING



PRODUCT DIMENSIONS					
MODEL	CABINET WIDTH W	CABINET DEPTH D	CABINET HEIGHT H	PLENUM WIDTH F	PLENUM DEPTH S
SLW18 - 36	19.75"	21.50"	45.00"	18.50"	15.00"
BLW42 - 60	23.00"	22.50"	51.00"	21.50"	15.50"

SLW / BLW SERIES
HYDRONIC AIR HANDLERS

HEATING SPECIFICATIONS								
MODEL	CFM	GPM	COIL ROWS	P.D.	HEATING CAPACITY AT			
					EWT 120°	EWT 140°	EWT 160°	EWT 180°
SLW18-*-S2**	600	3.5	2	2.8'	18,122	24,046	30,001	35,975
SLW18-*-S3**	600	3.5	3	1.4'	21,960	29,273	36,633	44,023
SLW24-*-S2**	800	3.5	2	2.8'	20,943	27,703	34,505	41,333
SLW24-*-S3**	800	3.5	3	1.4'	25,499	33,924	42,414	50,944
SLW30-*-S2**	1000	3.5	2	2.8'	22,916	30,341	37,816	45,322
SLW30-*-S3**	1000	3.5	3	1.4'	28,064	37,367	46,748	59,181
SLW36-*-S2**	1200	3.5	2	2.8'	25,519	33,484	41,507	49,567
SLW36-*-S3**	1200	3.5	3	1.4'	31,028	41,038	51,140	60,303
BLW42-*-B2**	1400	3.5	2	3.2'	28,744	37,624	46,574	55,569
BLW42-*-B3**	1400	3.5	3	1.7'	37,240	49,200	61,257	73,378
BLW42-*-B4**	1400	3.5	4	2.2'	42,729	56,634	70,643	84,715
BLW48-*-B2**	1600	3.5	2	3.4'	31,800	41,716	51,707	61,745
BLW48-*-B3**	1600	3.5	3	1.7'	39,093	51,670	64,355	77,110
BLW48-*-B4**	1600	3.5	4	2.2'	46,046	60,981	76,002	91,073
BLW60-*-B2**	2000	3.5	2	3.2'	31,042	41,750	52,543	63,391
BLW60-*-B3**	2000	3.5	3	1.7'	39,257	52,861	66,590	80,400
* Indicates optional air conditioning coil.								
**Unit voltage is indicated at this location in unit model number.								

ELECTRICAL SPECIFICATIONS							
MODEL	NOMINAL CFM	BLOWER HP/AMPS	PUMP HP/AMPS	VAC 60 HZ	RATED AMPS	MCA	MOP
SLW18-*-S*1	600	1/4 / 4.0	4/100 / .74	115	4.8	6	15
SLW18-*-S*2	600	1/4 / 1.7	4/100 / .43	208/230	2.2	2.8	15
SLW24-*-S*1	800	1/4 - 4.0	4/100 / .74	115	4.8	6	15
SLW24-*-S*2	800	1/4 - 1.7	4/100 / .43	208/230	2.2	2.8	15
SLW30-*-S*1	1000	1/3 - 4.3	4/100 / .74	115	5.1	6.4	20
SLW30-*-S*2	1000	1/3 - 2.7	4/100 / .43	208/230	3.2	4	15
SLW36-*-S*1	1200	1/2 - 7.5	4/100 / .74	115	8.3	10.4	20
SLW36-*-S*2	1200	1/2 - 4.0	4/100 / .43	208/230	4.5	5.7	15
BLW42-*-B*1	1400	1/2 - 7.5	4/100 / .74	115	8.3	10.4	20
BLW42-*-B*2	1400	3/4 - 4.0	4/100 / .43	208/230	4.5	5.7	15
BLW48-*-B*1	1600	3/4 - 8.4	4/100 / .74	115	9.2	11.5	20
BLW48-*-B*2	1600	3/4 - 5.0	4/100 / .43	208/230	5.5	6.9	15
BLW60-*-B*1	1800	3/4 - 8.4	4/100 / .74	115	9.2	11.5	20
BLW60-*-B*2	1800	3/4 - 5.0	4/100 / .43	208/230	5.5	6.9	15
* Indicates position in model number for identification of heating & cooling coils.							
Specifications may change without notice.							

SLW / BLW SERIES HYDRONIC AIR HANDLERS

HEATING MODE SEQUENCE OF OPERATION

When the space thermostat calls for heat the unit circulating pump moves heated water from the water heater to the hydronic coil in the air handler. If the temperature of the water is above 120° F. the entering water thermostat closes and allows the fan motor to operate. If the water temperatures is below 100° F. , then the entering water thermostat remains open until the water temperature reaches 120°. When adequate temperature has been achieved the blower will start heating the conditioned space with air warmed as it passes over the hydronic coil which has heated water circulating through it by the pump in the air handler. The heated water loses about 15—20° F. as it passes through the hydronic coil and gives its heat to the cooler air being circulated through the coil by the air handler blower. The process continues until the thermostat senses the room temperature has reached its set point. The heating control circuit then opens and the circuit is broken to the pump and to the blower motor.

The actual heating output of the unit can not exceed the BTUH output of the water heating source. Determine the BTUH input from the heater rating plate and divide the input rating by the recovery efficiency of the water hearer. The heating capacity of the air handler must equal or exceed the calculated heating load of the structure.

WATER HEATER SELECTION CHART

Air Handler Model	Water Heater Size		Air Handler Model	Water Heater Size
SLW 18	40 Gallon		BLW 42	70 Gallon or 2-40 Gallon
SLW 24	40 Gallon		BLW 48	70 Gallon or 2-40 Gallon
SLW 30	50 Gallon		BLW 60	Any combination of heaters
SLW 36	50 Gallon			with 96,000 BTUH output.

SL & BL BLOWER SPECIFICATIONS

MODEL	Speed	Wheel Size	External Static Pressure				
			0.1	0.2	0.3	0.4	0.5
SLW18	Low	10 x 6	775	720	690	600	600
SLW24	High	10 x 6	824	780	750	665	665
SLW30	Low	10 x 8	1252	1190	1092	1026	1026
SLW36	High	10 x 8	1304	1255	1197	1081	1081
BLW42	High	10 x 8	1655	1560	1510	1355	1355
BLW48	High	8 x 11	1700	1655	1600	1450	1450
BLW60	High	9 x 11	1850	1800	1755	1630	1630