Commercial High-Efficiency Condensing Units







10 & 12.5 TON MODEL [35.2 & 44.0 kW]

15 & 20 TON MODEL [52.8 & 70.3 kW]





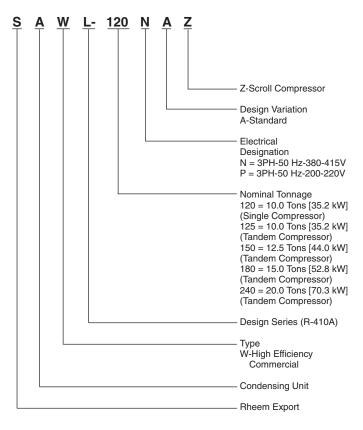
10 THROUGH 20 NOMINAL TON UNITS [35.2 THROUGH 70.3 kW] SAWL- SERIES

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WHY USE A HIGH EFFICIENCY, AIR COOLED SPLIT SYSTEM?

- The size ranges offered by Rheem® allow you to mix or match components to meet actual job requirements, thus eliminating the need to use oversized or undersized equipment. Equipment sized to meet the actual load will provide better operating economy, better humidity control, and longer equipment life.
- With an air cooled system, you have no water or sewer connections to make, and no troublesome and costly water treatment problems.
- Since the condensing unit is located outside the building, and the low profile air handling unit can be installed in the drop ceiling or in the conditioned space, you will not need a separate equipment room which takes up valuable building space.
- Remote mounting of the already quiet condensing unit keeps the compressor and condenser fan noise outside, and the vertical discharge fans carry the sound up and away from the surrounding area.
- Because of the simple design of the Rheem condensing unit, installation is quick and simple, and very little maintenance is required.
- Energy Efficiency Ratings (EER's) to 11.2!

MODEL NUMBER DESIGNATION



CONDENSING UNIT ACCESSORIES

ACCESSORY DESCRIPTION	MODEL NUMBER	SIZES USED ON
Anti-Short Cycle Timer Kit	RXAT-A01	ALL
Sight Glass	RXAG-A048	120, 125
Sight Glass	RXAG-A020	180, 240
Liquid Line Solenoid Valve*	RXAV-BD048	ALL

^{*}Cannot be used as a pump down solenoid.

STANDARD UNIT FEATURES

CABINET—Galvanized steel with a durable powder paint finish. Stamped louvered panels offer 100% protection for the condenser coil.

COMPRESSOR—The Scroll Compressor is hermetically sealed with internal overload protection and durable insulation on motor windings. The entire compressor is mounted on rubber grommets to reduce vibration and noise.

CONDENSER COIL—Constructed with copper tubes and aluminum fins mechanically bonded to the tubes for maximum heat transfer capabilities.

BASE PAN—Galvanized steel with powder paint finish.

REFRIGERANT CONNECTIONS—Field piping connections are made through a fixed panel. This allows removal of access panels after piping connections have been made.

CRANKCASE HEATERS—Standard, all models. Prevents refrigerant migration to compressor(s).

LOW AMBIENT CONTROL—A pressure sensitive fan cycling control to allow unit operation down to 0°F [–17.8°C] is standard.

SERVICE VALVES—Standard on liquid and suction lines. Allows outdoor section to be isolated from indoor coil.

SERVICE ACCESS—Control box as well as the compressor and other refrigerant controls are accessible through access panels. Control box may be open without affecting the normal operation of the unit. Condenser fan motors are accessible by removing wire grilles.

FILTER DRIER—Standard (uninstalled) on all models. Helps ensure refrigerant cleanliness.

TRANSFORMER—Step-down type, line to 24 volts. Provides control circuit voltage.

CONTACTOR—The contactor is an electrical switch which operates the compressor and condenser fans.

HIGH PRESSURE CONTROL—Opens the contactor circuit on high refrigerant pressure; manual reset.

LOW PRESSURE CONTROL—Stops compressor operation in the event of loss of refrigerant.

CONDENSER FAN MOTOR (Direct Drive)—Ball bearing 1075 RPM motors are mounted to minimize vibration and noise problems. These are permanent split capacitor types.

TESTING—All units are run tested at the factory prior to shipment. Units are shipped with a holding charge of nitrogen.

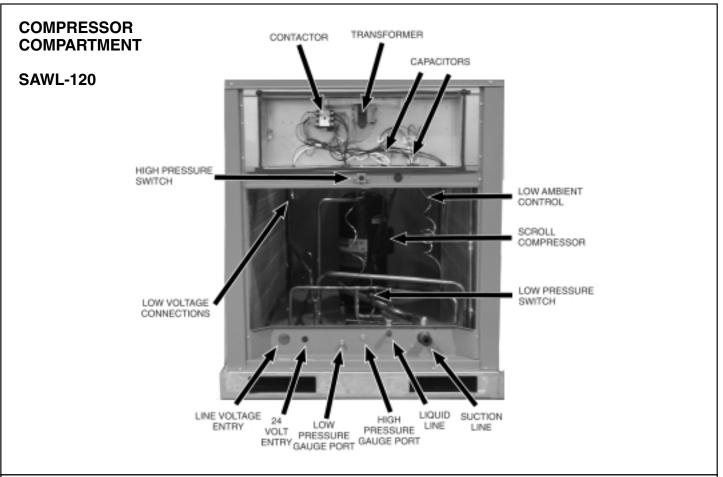
EXTERNAL GAUGE PORTS—Allows pressures to be checked without removing access panel.

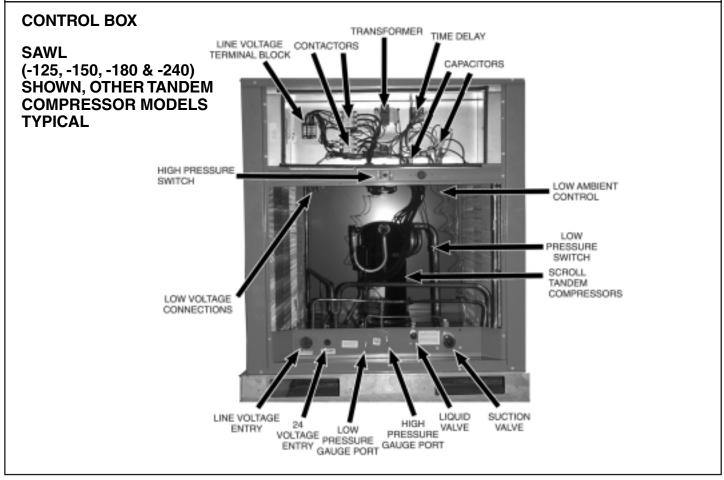
COIL LOUVERS—Helps prevent damage to outdoor coils.

TIME DELAY—Supplied on tandem compressor models to provide a delay between stages.

EQUIPMENT GROUND—Lug for field connection of ground wire.

10, 12.5, 15 & 20 TON [35.2, 44.0, 52.8 & 70.3 kW] MODELS





SELECTION PROCEDURE— MATCHED SYSTEMS

Example 1: Determine the Net System Performance of Condensing Unit SAWL-120 with SHGL-120 at 3800 CFM [1793.4 L/s] at .30" external static pressure [.07 kPa], 80°F [26.7°C] DB/67°F [19.4°C] WB entering indoor air and 95°F [35.0°C] DB outdoor ambient.

From Cooling Performance Data, Condensing Unit SAWL-120 with Air Handler SHGL-120 Total Cap. (gross) = $104.1 \times 1000 = 104,100 \text{ BTUH } [30.51 \text{ kW}]$ Sens. Cap. (gross) = $77.1 \times 1000 = 77,100 \text{ BTUH } [22.60 \text{ kW}]$ Power (gross) = $9.5 \times 1000 = 9,500 \text{ WATTS}$

From Commercial Air Handler Form Airflow Performance Data.

Power = 2,029 WATTS = 2,029 x 3,412 = 6,925 BTUH [2.0 kW]

Therefore, the Net Performance is:

Total Cap. (net) = 104,100 - 6,925 = 97,175 BTUH [28.48 kW] Sens. Cap (net) = 77,100 - 6,925 = 70,175 BTUH [20.57 kW] Power (net) = 9,500 + 2,029 = 11,529 WATTS EER = $97,179 \div 11,529 = 8.43$ BTUH/WATT [2.47 w/w]

Example 2: Determine the Sensible Net Capacity at 75°F [23.9°C] DB entering indoor air with the other conditions from Example 1 being the same.

From Cooling Performance Data, Condensing Unit SAWL-120 with Air Handler SHGL-120 Sens. Cap (net) = 77,100 BTUH [22.60 kW] (from Example 1)

Adjust Capacity for temperature other than 80°F [26.7°C] entering air:

adjustment: [1.10 x 3,800 x (1-.16) x (75-80]) = - 17,556 BTUH [5.14 kW]

Therefore, Sensible Capacity (net) at 75°F [23.9°C] entering air is:

77,100 - 17,556 = 59,544 BTUH [17.45 kW] (Sensible)

CONDENSING UNIT—GROSS CAPACITY AND POWER

			SAWL-120			
°F [°C]		SATU	JRATED EVAPORATO	R TEMPERATURE	°F [°C]	
OUTDOOR AMBIENT	40 [4.	4]	45 [7	7.2]	50 [1	0.0]
TEMPERATURE	MBH [kW]	KW	MBH [kW]	KW	MBH [kW]	KW
75 [24]	101.5 [29.74]	5.7	111.3 [32.60]	5.8	121.4 [35.57]	6.0
80 [27]	98.6 [28.88]	6.0	108.1 [31.67]	6.1	118.0 [34.57]	6.3
85 [29]	95.7 [28.03]	6.4	104.9 [30.74]	6.5	114.6 [33.57]	6.6
90 [32]	92.7 [27.17]	6.7	101.7 [29.81]	6.8	111.1 [32.56]	6.9
95 [35]	89.8 [26.32]	7.0	98.6 [28.88]	7.1	107.7 [31.56]	7.2
100 [38]	86.9 [25.46]	7.3	95.4 [27.95]	7.4	104.3 [30.56]	7.5
105 [41]	84.0 [24.61]	7.6	92.2 [27.02]	7.7	100.9 [29.55]	7.8
110 [43]	81.1 [23.75]	7.9	89.0 [26.09]	8.0	97.4 [28.55]	8.2
115 [46]	78.1 [22.89]	8.2	85.9 [25.16]	8.4	94.0 [27.55]	8.5

			SAWL-125			
°F [°C]		SATU	IRATED EVAPORATOR T	EMPERATURE S	F [°C]	
OUTDOOR AMBIENT	40 [4.4]		45 [7.2]		50 [10.0]	
TEMPERATURE	MBH [kW]	KW	MBH [kW]	KW	MBH [kW]	KW
75 [24]	98.7 [28.92]	5.6	108.0 [31.65]	5.8	117.9 [34.54]	5.9
80 [27]	95.7 [28.05]	6.0	104.9 [30.73]	6.1	114.5 [33.56]	6.2
85 [29]	92.7 [27.17]	6.4	101.8 [29.82]	6.5	111.2 [32.58]	6.6
90 [32]	89.8 [26.30]	6.7	98.6 [28.90]	6.8	107.8 [31.60]	6.9
95 [35]	86.8 [25.43]	7.1	95.5 [27.99]	7.2	104.5 [30.62]	7.3
100 [38]	83.8 [24.56]	7.4	92.4 [27.07]	7.5	101.1 [29.63]	7.6
105 [41]	80.8 [23.68]	7.8	89.3 [26.15]	7.9	97.8 [28.65]	8.0
110 [43]	77.8 [22.81]	8.1	86.1 [25.24]	8.2	94.4 [27.67]	8.3
115 [46]	74.9 [21.94]	8.5	83.0 [24.32]	8.6	91.1 [26.69]	8.7

			SAWL-150			
°F [°C]		SATU	JRATED EVAPORATOR T	EMPERATURE S	°F [°C]	
OUTDOOR AMBIENT	40 [4.4]		45 [7.2]		50 [10.0]	
TEMPERATURE	MBH [kW]	KW	MBH [kW]	KW	MBH [kW]	KW
75 [24]	129.3 [37.89]	7.9	140.1 [41.06]	8.0	151.1 [44.27]	8.1
80 [27]	125.4 [36.73]	8.3	135.9 [39.83]	8.4	146.7 [42.98]	8.5
85 [29]	121.4 [35.57]	8.8	131.8 [38.60]	8.9	142.3 [41.69]	9.0
90 [32]	117.4 [34.40]	9.2	127.6 [37.38]	9.3	137.9 [40.40]	9.4
95 [35]	113.4 [33.24]	9.6	123.4 [36.15]	9.7	133.5 [39.11]	9.8
100 [38]	109.5 [32.08]	10.1	119.2 [34.92]	10.2	129.1 [37.82]	10.3
105 [41]	105.5 [30.91]	10.5	115.0 [33.70]	10.6	124.7 [36.53]	10.7
110 [43]	101.5 [29.75]	10.9	110.8 [32.47]	11.0	120.3 [35.24]	11.1
115 [46]	114.4 [33.51]	13.7	125.0 [36.63]	13.8	135.8 [39.80]	14.0

KW —Condensing Unit Power (Compressor + Fan)
MBH—Gross Capacity x 1000 BTUH [kW]

NOTES: 1. All values at approximately 20°F [11.1°C] subcooling
2. Data includes 25 feet [7.62 m] of recommended vapor and liquid lines

^[] Designates Metric Conversions

CONDENSING UNIT—GROSS CAPACITY AND POWER (cont.)

			SAWL-180			
°F [°C]		SATU	JRATED EVAPORATOR T	EMPERATURE S	°F [°C]	
OUTDOOR AMBIENT	40 [4.4]		45 [7.2]		50 [10.0]
TEMPERATURE	MBH [kW]	KW	MBH [kW]	KW	MBH [kW]	KW
75 [24]	200.8 [58.84]	11.4	216.3 [63.38]	11.8	222.7 [65.24]	12.2
80 [27]	194.3 [56.94]	12.2	209.8 [61.47]	12.6	217.8 [63.82]	12.9
85 [29]	187.8 [55.03]	13.0	203.3 [59.56]	13.3	213.0 [62.40]	13.7
90 [32]	181.3 [53.12]	13.8	196.7 [57.64]	14.1	208.1 [60.98]	14.5
95 [35]	174.8 [51.22]	14.5	190.2 [55.73]	14.8	203.3 [59.56]	15.2
100 [38]	168.3 [49.31]	15.3	183.7 [53.82]	15.6	198.4 [58.14]	16.0
105 [41]	161.8 [47.40]	16.1	177.1 [51.90]	16.3	193.6 [56.72]	16.7
110 [43]	155.3 [45.50]	16.9	170.6 [49.99]	17.1	188.7 [55.30]	17.5
115 [46]	148.8 [43.59]	17.6	164.1 [48.08]	17.8	183.9 [53.88]	18.2

			SAWL-240			
°F [°C]		SATU	IRATED EVAPORATOR TI	EMPERATURE °	F [°C]	
OUTDOOR AMBIENT	40 [4.4]		45 [7.2]		50 [10.0]	
TEMPERATURE	MBH [kW]	KW	MBH [kW]	KW	MBH [kW]	KW
75 [24]	226.6 [66.40]	13.9	244.6 [71.67]	14.2	263.2 [77.12]	14.6
80 [27]	219.5 [64.32]	14.6	237.4 [69.55]	15.0	255.7 [74.92]	15.3
85 [29]	212.4 [62.24]	15.4	230.1 [67.42]	15.7	248.2 [72.73]	16.1
90 [32]	205.3 [60.15]	16.1	222.9 [65.30]	16.4	240.7 [70.53]	16.8
95 [35]	198.2 [58.07]	16.8	215.6 [63.17]	17.1	233.2 [68.34]	17.5
100 [38]	191.1 [55.99]	17.5	208.4 [61.05]	17.9	225.7 [66.14]	18.3
105 [41]	184.0 [53.90]	18.3	201.1 [58.92]	18.6	218.2 [63.95]	19.0
110 [43]	176.9 [51.82]	19.0	193.9 [56.80]	19.3	210.7 [61.75]	19.8
115 [46]	169.7 [49.73]	19.7	186.6 [54.67]	20.0	203.3 [59.55]	20.5

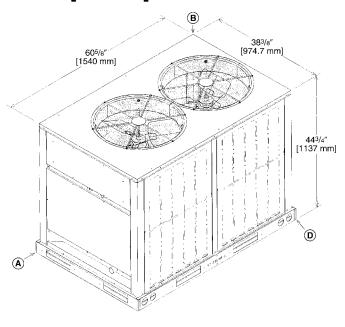
KW —Condensing Unit Power (Compressor + Fan)
MBH—Gross Capacity x 1000 BTUH [kW]

NOTES: 1. All values at approximately 20°F [11.1°C] subcooling
2. Data includes 25 feet [7.62 m] of recommended vapor and liquid lines

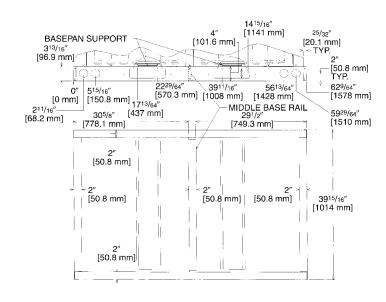
UNIT DIMENSIONS AND WEIGHTS

MODEL	TOTAL WEIGHT		Corner Weig	hts, Lbs. [kg]	
WIODEL	LBS. [kg]	Α	В	С	D
SAWL-120	501 [227]	123 [56]	132 [60]	119 [54]	127 [58]
SAWL-125	586 [266]	144 [65]	154 [70]	139 [63]	149 [67]
SAWL-150	650 [295]	160 [72]	171 [78]	154 [70]	165 [75]
SAWL-180	746 [338]	183 [83]	196 [89]	177 [80]	189 [86]
SAWL-240	952 [432]	234 [106]	251 [114]	226 [103]	241 [110]

10 TON [35.2 kW]



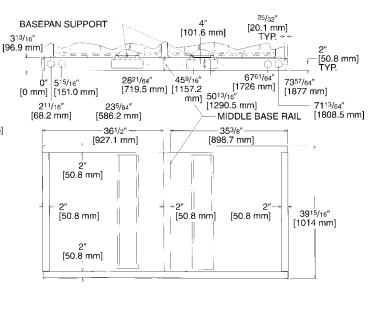
BOTTOM VIEW



12.5 TON [44 kW]

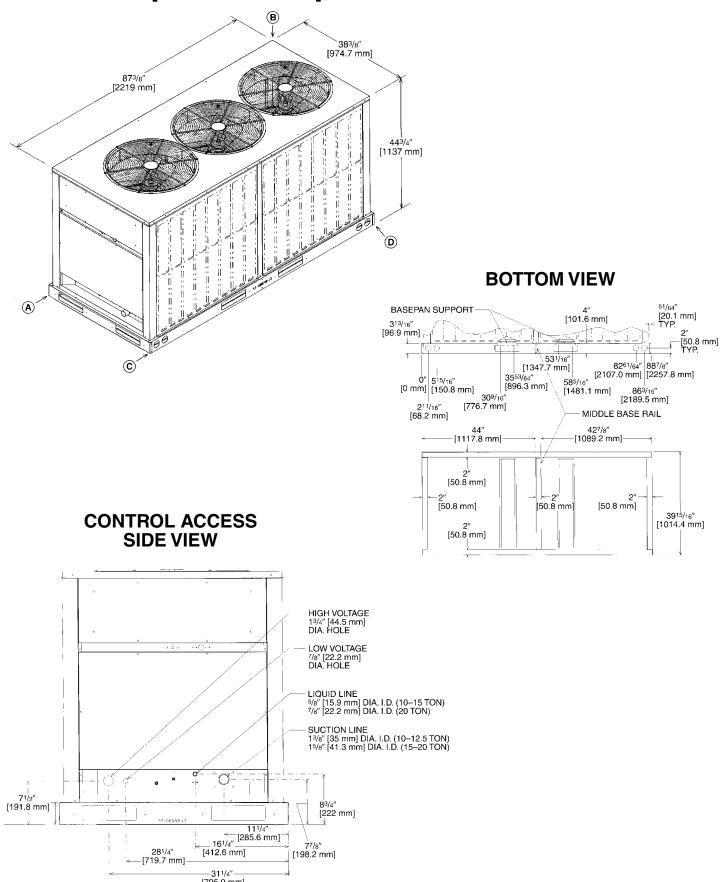
$^{\circ}$ [974.7 mm] 72³/8" [1838 mm] [1137 mm] (D)

BOTTOM VIEW



UNIT DIMENSIONS (cont.)

15 TON & 20 TON [52.8 kW & 70.3 kW]



ALL MODELS

PERFORMANCE DATA @ ARI STANDARD CONDITIONS—COOLING: SAWL-

MODEL	. NUMBERS		.5°C] DB/67°F [19.5°C 95°F [35°C] DB OUT[SOUND	INDOOR
OUTDOOR UNIT SAWL-	INDOOR COIL AND/OR AIR HANDLER	GROSS CAPACITY BTU/H [kW]	GROSS SENSIBLE BTU/H [kW]	LATENT BTU/H [kW]	EER	RATING dB	CFM [L/s]
Rev. 2/20/2009							
120NAZ	SHGL-120N	104,072 [30.5]	77,072 [22.6]	77,072 [22.6] 27,000 [7.9]		88	3,165 [1494]
120PAZ	SHGL-120P 104,072 [30.5] 77,072 [22.6] 27,000 [7.9]		11.20	88	3,165 [1494]		
125NAZ	SHGL-120N	101,072 [29.6]	77,072 [22.6]	24,000 [7.0]	11.20	88	3,165 [1494]
125PAZ	SHGL-120P	101,072 [29.6]	77,072 [22.6]	24,000 [7.0]	11.20	88	3,165 [1494]
150NAZ	SHGL-180N	129,481 [37.9]	98,481 [28.9]	31,000 [9.1]	11.50	88	4,165 [1965]
150PAZ	SHGL-180P	129,481 [37.9]	98,481 [28.9]	31,000 [9.1]	11.50	88	4,165 [1965]
180NAZ	SHGL-180N	154,737 [45.3]	109,737 [32.2]	45,000 [13.2]	11.30	88	4,250 [2006]
180PAZ	SHGL-180P	154,737 [45.3]	109,737 [32.2]	45,000 [13.2]	11.30	88	4,250 [2006]
240NAZ	SHGL-240N	215,840 [63.2]	150,840 [44.2]	65,000 [19.0]	10.50	88	5,700 [2690]
240PAZ	SHGL-240P	215,840 [63.2]	150,840 [44.2]	65,000 [19.0]	10.50	88	5,700 [2690]

① Highest sales volume tested combination required by D.O.E. test procedures.

^[] Designates Metric Conversions

ELECTRICAL & PHYSICAL DATA: SAWL-

			ELECI	ELECTRICAL						H.	PHYSICAL		
Model	Phase	Сотр	Compressor	Fan Motor	Minimum	Fuse or HACR Circuit	HACR	0	Outdoor Coil	_	المراقية المراقية	Weight	ght
SAWI -	Frequency (Hz)	Rated Load	Locked Rotor	Amparae	Ampacity	Breaker	ker				Circuit 0. [a]		
	Voltage (Volts)	Amperes (RLA)	Amperes (LRA)	(FLA)	Amperes	Minimum Amperes	Maximum Amperes	Face Area Sq. Ft. [Sq. m³]	No. Rows	CFM [L/s]	Gilicuit Oz. [y]	Net Lbs. [kg]	Ship Lbs. [kg]
120NAZ	3-50-380/415	16.7/16.7	114	1.4	24/24	30/30	40/40	27 [2.51]	2	6667 [3146]	339 [9611]	501 [227.3]	541 [245.4]
120PAZ	3-50-208/220	30.1/30.1	225	2.4	43/43	20/20	09/09	27 [2.51]	2	6667 [3146]	339 [9611]	501 [227.3]	541 [245.4]
120VAZ	3-60-380	21.4	140	1.4	59	35	45	27 [2.51]	2	6667 [3146]	339 [9611]	501 [227.3]	541 [245.4]
125NAZ	3-50-380/415	9.6/9.6	62	1.4	25/25	30/30	30/30	27 [2.51]	2	6667 [3146]	300 [8505]	586 [265.8]	626 [284]
125PAZ	3-50-208/220	17.6/17.6	123	2.4	45/45	20/20	09/09	27 [2.51]	2	6667 [3146]	300 [8505]	586 [265.8]	626 [284]
150NAZ	3-50-380/415	10.6	75	1.4	27/27	30/30	35/35	32.9 [3.05]	2	6667 [3146]	378 [10716]	650 [294.8]	690 [313]
150PAZ	3-50-208/220	22.4	149	2.4	26/56	65/65	75/75	32.9 [3.05]	2	6667 [3146]	378 [10716]	650 [294.8]	690 [313]
150VAZ	3-60-380	1	88	1.4	28	35	35	32.9 [3.05]	2	6667 [3146]	378 [10716]	650 [294.8]	690 [313]
180NAZ	3-50-380/415	12.2/12.2	100	1.4	32/32	35/35	40/40	40.4 [3.75]	2	9996 [4717]	506 [14345]	746 [338.4]	786 [356.5]
180PAZ	3-50-208/220	25/25	164	2.4	64/64	70/70	80/80	40.4 [3.75]	2	9996 [4717]	506 [14345]	746 [338.4]	786 [356.5]
180VAZ	3-60-380	14	92	1.4	36	40	45	40.4 [3.75]	2	9996 [4717]	506 [14345]	746 [338.4]	786 [356.5]
240NAZ	3-50-380/415	17.9/17.9	125	1.1	44/44	20/20	09/09	40.4 [3.75]	က	9996 [4717]	655 [18569]	952 [431.8]	992 [450]
240PAZ	3-50-208/220	33.3/33.3	239	2.4	83/83	100/100	115/115	40.4 [3.75]	က	9996 [4717]	655 [18569]	952 [431.8]	992 [450]
240VAZ	3-60-380	23.8	145	1.5	29	92	80	40.4 [3.75]	က	9996 [4717]	655 [18569]	952 [431.8]	992 [450]

[] Designates Metric Conversions

CONDENSING UNIT

SAWL-120NAZ COOLING SHGL-120N

				EN	ITERING INDOC	OR AIR @ 80°F	[26.7°C] dbE ①)			
		wbE		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]	
		FM [L/s]	3800 [1794]	3165 [1494]	2530 [1195]	3800 [1794]	3165 [1494]	2530 [1195]	3800 [1794]	3165 [1494]	2530 [1195]
		DR ①	.04	.08	.14	.04	.08	.14	.04	.08	.14
	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	124.0 [36.3] 78.1 [22.9] 8.5	119.6 [35.0] 67.0 [19.6] 8.3	115.3 [33.8] 56.8 [19.6] 8.2	119.2 [34.9] 93.3 [27.3] 8.4	115.0 [33.7] 81.1 [23.8] 8.3	110.8 [32.5] 69.7 [23.8] 8.1	114.6 [33.6] 104.2 [30.5] 8.3	110.6 [32.4] 91.3 [26.8] 8.2	106.6 [31.2] 79.1 [26.8] 8.1
O U T	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	121.3 [35.5] 77.1 [22.6] 8.8	117.1 [34.3] 66.3 [19.4] 8.6	112.8 [33.1] 56.2 [19.4] 8.5	116.5 [34.1] 92.3 [27.0] 8.7	112.4 [32.9] 80.3 [23.5] 8.6	108.3 [31.7] 69.1 [23.5] 8.4	112.0 [32.8] 103.3 [30.3] 8.6	108.0 [31.6] 90.5 [26.5] 8.5	104.1 [30.5] 78.5 [26.5] 8.3
D O O R	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	9.1	114.4 [33.5] 65.4 [19.2] 8.9	110.2 [32.3] 55.5 [19.2] 8.8	113.7 [33.3] 91.2 [26.7] 9.0	109.7 [32.1] 79.4 [23.3] 8.9	105.7 [31.0] 68.3 [23.3] 8.7	109.2 [32.0] 102.3 [30.0] 9.0	105.4 [30.9] 89.7 [26.3] 8.8	101.5 [29.7] 77.8 [26.3] 8.6
D R Y	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	115.7 [33.9] 74.8 [21.9] 9.4	111.6 [32.7] 64.3 [18.8] 9.3	107.5 [31.5] 54.6 [18.8] 9.1	110.9 [32.5] 90.0 [26.4] 9.4	107.0 [31.4] 78.4 [23.0] 9.2	103.1 [30.2] 67.5 [23.0] 9.0	106.3 [31.1] 100.9 [29.6] 9.3	102.6 [30.1] 88.6 [26.0] 9.1	98.8 [28.9] 76.9 [26.0] 9.0
B U L B	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	112.7 [33.0] 73.3 [21.5] 9.8	108.7 [31.8] 63.0 [18.5] 9.6	104.8 [30.7] 53.6 [18.5] 9.4	107.9 [31.6] 88.5 [25.9] 9.7	104.1 [30.5] 77.1 [22.6] 9.5	100.3 [29.4] 66.4 [22.6] 9.4	103.3 [30.3] 99.4 [29.1] 9.7	99.7 [29.2] 87.3 [25.6] 9.5	96.1 [28.2] 75.9 [25.6] 9.3
T E M	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	109.6 [32.1] 71.6 [21.0] 10.2	105.7 [31.0] 61.6 [18.0] 10.0	101.9 [29.9] 52.4 [18.0] 9.8	104.8 [30.7] 86.7 [25.4] 10.1	101.1 [29.6] 75.6 [22.2] 9.9	97.4 [28.5] 65.2 [22.2] 9.7	100.2 [29.4] 97.7 [28.6] 10.0	96.7 [28.3] 85.8 [25.1] 9.8	93.2 [27.3] 74.6 [25.1] 9.7
P E R A	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	106.4 [31.2] 69.8 [20.5] 10.5	102.6 [30.1] 60.0 [17.6] 10.4	98.9 [29.0] 51.0 [17.6] 10.2	101.6 [29.8] 84.9 [24.9] 10.5	98.0 [28.7] 74.0 [21.7] 10.3	94.4 [27.7] 63.8 [21.7] 10.1	97.0 [28.4] 95.8 [28.1] 10.4	93.6 [27.4] 84.2 [24.7] 10.2	90.2 [26.4] 73.2 [24.7] 10.1
T U R E	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	103.1 [30.2] 67.7 [19.8] 11.0	99.5 [29.2] 58.3 [17.1] 10.8	95.8 [28.1] 49.5 [17.1] 10.6	98.3 [28.8] 82.8 [24.3] 10.9	94.8 [27.8] 72.2 [21.2] 10.7	91.3 [26.8] 62.3 [21.2] 10.5	93.7 [27.5] 93.7 [27.5] 10.8	90.4 [26.5] 82.4 [24.1] 10.6	87.1 [25.5] 71.7 [24.1] 10.5
°F [°C]	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	99.7 [29.2] 65.4 [19.2] 11.4	96.2 [28.2] 56.3 [16.5] 11.2	92.7 [27.2] 47.9 [16.5] 11.0	94.8 [27.8] 80.5 [23.6] 11.3	91.5 [26.8] 70.3 [20.6] 11.1	88.2 [25.8] 60.7 [20.6] 10.9	90.3 [26.5] 90.3 [26.5] 11.3	87.1 [25.5] 80.4 [23.6] 11.1	84.0 [24.6] 70.1 [23.6] 10.9
	120 [48.9]	Total BTUH [kW] Sens BTUH [kW] Power	96.1 [28.2] 62.8 [18.4] 11.8	92.8 [27.2] 54.1 [15.9] 11.6	89.4 [26.2] 46.0 [15.9] 11.4	91.3 [26.8] 78.0 [22.9] 11.8	88.1 [25.8] 68.1 [20.0] 11.6	84.9 [24.9] 58.8 [20.0] 11.4	86.8 [25.4] 86.8 [25.4] 11.7	83.7 [24.5] 78.3 [22.9] 11.5	80.7 [23.6] 68.2 [22.9] 11.3

DR —Depression ratio dbE —Entering air dry bulb wbE—Entering air wet bulb Total —Total capacity x 1000 BTUH Sens —Sensible capacity x 1000 BTUH

Power—KW input

NOTES:

- When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 − DR) x (dbE − 80)].
 ② Data includes 25 feet [7.62 m] of recommended suction/liquid lines.

CONDENSING UNIT

SAWL-120VAZ

WITH AIR Handler

SHGL-120N

				EN	ITERING INDOC	OR AIR @ 80°F	[26.7°C] dbE ①)			
		wbE		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]	
		FM [L/s]	4560 [2152]	3800 [1794]	3040 [1435]	4560 [2152]	3800 [1794]	3040 [1435]	4560 [2152]	3800 [1794]	3040 [1435]
		DR ①	.05	.08	.13	.05	.08	.13	.05	.08	.13
	75	Total BTUH [kW]	142.3 [41.7]	137.3 [40.2]	132.3 [38.8]	137.5 [40.3]	132.7 [38.9]	127.8 [37.4]	133.0 [39.0]	128.3 [37.6]	123.6 [36.2]
	[23.9]	Sens BTUH [kW] Power	94.2 [27.6] 8.0	81.2 [23.8] 7.8	69.1 [23.8] 7.7	109.4 [32.1] 7.9	95.3 [27.9] 7.8	82.0 [27.9] 7.6	120.5 [35.3] 7.8	105.5 [30.9] 7.7	91.4 [30.9] 7.6
	80	Total BTUH [kW]		134.7 [39.5]	129.8 [38.0]	134.8 [39.5]	130.1 [38.1]	125.4 [36.7]	130.3 [38.2]	125.7 [36.8]	121.1 [35.5]
Ū	[26.7]	Sens BTUH [kW] Power	93.3 [27.3] 8.3	80.4 [23.6] 8.1	68.5 [23.6] 8.0	108.5 [31.8] 8.2	94.5 [27.7] 8.1	81.4 [27.7] 7.9	119.5 [35.0] 8.1	104.7 [30.7] 8.0	90.8 [30.7] 7.9
T								_			
0	85	Total BTUH [kW] Sens BTUH [kW]	136.9 [40.1] 92.3 [27.0]	132.1 [38.7] 79.6 [23.3]	127.3 [37.3] 67.8 [23.3]	132.1 [38.7] 107.5 [31.5]	127.4 [37.3] 93.6 [27.4]	122.8 [36.0] 80.7 [27.4]	127.5 [37.4] 118.4 [34.7]	123.0 [36.0] 103.8 [30.4]	118.6 [34.7] 90.1 [30.4]
O R	[29.4]	Power	8.6	8.4	8.3	8.5	8.4	8.2	8.5	8.3	8.2
D	90	Total BTUH [kW]		129.3 [37.9]	124.6 [36.5]	129.2 [37.9]	124.6 [36.5]	120.1 [35.2]	124.6 [36.5]	120.3 [35.2]	115.9 [34.0]
R	[32.2]	Sens BTUH [kW] Power	91.0 [26.7] 8.9	78.5 [23.0] 8.8	66.9 [23.0] 8.6	106.2 [31.1] 8.9	92.5 [27.1]	79.8 [27.1] 8.6	117.1 [34.3]	102.8 [30.1] 8.6	89.2 [30.1]
'							8.7		8.8		8.5
B	95	Total BTUH [kW] Sens BTUH [kW]	131.0 [38.4] 89.4 [26.2]	126.4 [37.0] 77.2 [22.6]	121.8 [35.7] 65.8 [22.6]	126.2 [37.0] 104.6 [30.6]	121.8 [35.7] 91.3 [26.8]	117.3 [34.4] 78.7 [26.8]	121.6 [35.6] 115.6 [33.9]	117.4 [34.4] 101.5 [29.7]	113.1 [33.1] 88.1 [29.7]
L	[35]	Power	9.3	9.1	9.0	9.2	9.1	8.9	9.1	9.0	8.8
В	100	Total BTUH [kW]		123.4 [36.2]	118.9 [34.8]	123.1 [36.1]	118.8 [34.8]	114.5 [33.5]	118.6 [34.7]	114.4 [33.5]	110.2 [32.3]
T	[37.8]	Sens BTUH [kW]	87.8 [25.7]	75.8 [22.2]	64.6 [22.2]	102.9 [30.1]	89.8 [26.3]	77.5 [26.3]	113.9 [33.4]	100.0 [29.3]	86.9 [29.3]
E M		Power	9.7	9.5	9.3	9.6	9.4	9.3	9.5	9.4	9.2
P	105	Total BTUH [kW] Sens BTUH [kW]	124.7 [36.5] 85.9 [25.2]	120.3 [35.2] 74.2 [21.7]	116.0 [34.0] 63.4 [21.7]	119.9 [35.1] 101.0 [29.6]	115.7 [33.9] 88.2 [25.8]	111.5 [32.7] 76.2 [25.8]	115.4 [33.8] 112.1 [32.8]	111.3 [32.6] 98.4 [28.8]	107.3 [31.4] 85.6 [28.8]
E R A	[40.6]	Power	10.0	9.9	9.7	10.0	9.8	9.6	9.9	9.7	9.6
Т	110	Total BTUH [kW]	121.4 [35.6]	117.1 [34.3]	112.9 [33.1]	116.6 [34.2]	112.5 [33.0]	108.4 [31.8]	112.0 [32.8]	108.1 [31.7]	104.2 [30.5]
U R	[43.3]	Sens BTUH [kW]	83.9 [24.6]	72.4 [21.2]	61.8 [21.2]	98.9 [29.0]	86.4 [25.3]	74.6 [25.3]	109.9 [32.2]	96.6 [28.3]	84.0 [28.3]
R E		Power	10.5	10.3	10.1	10.4	10.2	10.0	10.3	10.1	10.0
°F	115	Total BTUH [kW] Sens BTUH [kW]		113.8 [33.3]	109.7 [32.1]	113.2 [33.2]	109.2 [32.0]	105.2 [30.8]	108.6 [31.8]	104.8 [30.7]	101.0 [29.6]
[°C]	[46.1]	Power	81.6 [23.9] 10.9	70.4 [20.6] 10.7	60.1 [20.6] 10.5	96.8 [28.4] 10.8	84.5 [24.8] 10.6	73.0 [24.8] 10.4	107.6 [31.5] 10.8	94.6 [27.7] 10.6	82.3 [27.7] 10.4
	400	Total BTUH [kW]	114.5 [33.5]	110.4 [32.3]	106.4 [31.2]	109.6 [32.1]	105.8 [31.0]	101.9 [29.9]	105.1 [30.8]	101.4 [29.7]	97.7 [28.6]
	120 [48.9]	Sens BTUH [kW]	79.0 [23.1]	68.2 [20.0]	58.2 [20.0]	94.1 [27.6]	82.3 [24.1]	71.1 [24.1]	105.1 [30.8]	92.5 [27.1]	80.5 [27.1]
	[.5.5]	Power	11.3	11.1	10.9	11.3	11.1	10.9	11.2	11.0	10.8

DR —Depression ratio dbE —Entering air dry bulb wbE—Entering air wet bulb

Total —Total capacity x 1000 BTUH Sens —Sensible capacity x 1000 BTUH Power—KW input

NOTES:

- When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 DR) x (dbE 80)].
 Data includes 25 feet [7.62 m] of recommended suction/liquid lines.

CONDENSING UNIT

 $\begin{array}{ccc} \textbf{SAWL-125NAZ} & \tiny{\tiny{\tiny{\tiny{COOLING}}}} & \textbf{SHGL-120N} \\ \end{array}$

				EN	ITERING INDOC	OR AIR @ 80°F	[26.7°C] dbE ①)			
		wbE		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]	
		FM [L/s]	3800 [1794]	3165 [1494]	2530 [1195]	3800 [1794]	3165 [1494]	2530 [1195]	3800 [1794]	3165 [1494]	2530 [1195]
		DR ①	.02	.06	.10	.02	.06	.10	.02	.06	.10
	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	122.6 [35.9] 78.6 [23.0] 6.6	118.3 [34.7] 67.6 [19.8] 6.5	114.0 [33.4] 57.4 [19.8] 6.4	115.6 [33.9] 91.8 [26.9] 6.5	111.6 [32.7] 79.9 [23.4] 6.4	107.5 [31.5] 68.7 [23.4] 6.3	107.5 [31.5] 98.8 [28.9] 6.4	103.7 [30.4] 86.5 [25.3] 6.3	100.0 [29.3] 75.0 [25.3] 6.2
O U T	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	119.8 [35.1] 78.0 [22.9] 6.9	115.6 [33.9] 67.1 [19.7] 6.8	111.4 [32.6] 57.0 [19.7] 6.7	112.9 [33.1] 91.3 [26.8] 6.8	108.9 [31.9] 79.5 [23.3] 6.7	105.0 [30.8] 68.5 [23.3] 6.6	104.8 [30.7] 98.3 [28.8] 6.8	101.1 [29.6] 86.2 [25.3] 6.6	97.4 [28.5] 74.8 [25.3] 6.5
D O O R	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	117.1 [34.3] 77.3 [22.6] 7.3	113.0 [33.1] 66.6 [19.5] 7.2	108.9 [31.9] 56.6 [19.5] 7.0	110.2 [32.3] 90.6 [26.5] 7.2	106.3 [31.1] 78.9 [23.1] 7.1	102.4 [30.0] 68.0 [23.1] 7.0	102.1 [29.9] 97.6 [28.6] 7.1	98.5 [28.9] 85.6 [25.1] 7.0	94.9 [27.8] 74.3 [25.1] 6.9
D R Y	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	114.4 [33.5] 76.3 [22.4] 7.7	110.4 [32.3] 65.8 [19.3] 7.5	106.3 [31.1] 55.9 [19.3] 7.4	107.5 [31.5] 89.6 [26.3] 7.6	103.7 [30.4] 78.1 [22.9] 7.5	99.9 [29.3] 67.3 [22.9] 7.3	99.3 [29.1] 96.5 [28.3] 7.5	95.8 [28.1] 84.7 [24.8] 7.4	92.3 [27.0] 73.6 [24.8] 7.2
B U L	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	111.7 [32.7] 75.1 [22.0] 8.1	107.8 [31.6] 64.8 [19.0] 7.9	103.8 [30.4] 55.1 [19.0] 7.8	104.8 [30.7] 88.4 [25.9] 8.0	101.1 [29.6] 77.1 [22.6] 7.8	97.4 [28.5] 66.5 [22.6] 7.7	96.6 [28.3] 95.3 [27.9] 7.9	93.2 [27.3] 83.7 [24.5] 7.8	89.8 [26.3] 72.8 [24.5] 7.6
T E M	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	109.0 [31.9] 73.6 [21.6] 8.5	105.2 [30.8] 63.5 [18.6] 8.4	101.3 [29.7] 54.0 [18.6] 8.2	102.1 [29.9] 86.8 [25.4] 8.4	98.5 [28.9] 75.8 [22.2] 8.3	94.9 [27.8] 65.4 [22.2] 8.1	94.0 [27.5] 93.8 [27.5] 8.3	90.7 [26.6] 82.5 [24.2] 8.2	87.3 [25.6] 71.7 [24.2] 8.0
P E R A	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	106.3 [31.1] 71.9 [21.1] 8.9	102.6 [30.1] 62.0 [18.2] 8.8	98.9 [29.0] 52.8 [18.2] 8.6	99.4 [29.1] 85.1 [24.9] 8.9	95.9 [28.1] 74.3 [21.8] 8.7	92.4 [27.1] 64.2 [21.8] 8.6	91.3 [26.8] 91.3 [26.8] 8.8	88.1 [25.8] 81.0 [23.7] 8.6	84.9 [24.9] 70.5 [23.7] 8.5
T U R E	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	103.7 [30.4] 69.9 [20.5] 9.4	100.0 [29.3] 60.2 [17.6] 9.3	96.4 [28.2] 51.3 [17.6] 9.1	96.8 [28.4] 83.2 [24.4] 9.3	93.4 [27.4] 72.7 [21.3] 9.2	89.9 [26.3] 62.7 [21.3] 9.0	88.6 [26.0] 88.6 [26.0] 9.3	85.5 [25.1] 79.3 [23.2] 9.1	82.4 [24.1] 69.1 [23.2] 8.9
°F [°C]	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	101.1 [29.6] 67.8 [19.9] 9.9	97.5 [28.6] 58.4 [17.1] 9.7	93.9 [27.5] 49.7 [17.1] 9.6	94.1 [27.6] 80.9 [23.7] 9.8	90.8 [26.6] 70.7 [20.7] 9.7	87.5 [25.6] 61.1 [20.7] 9.5	86.0 [25.2] 86.0 [25.2] 9.7	83.0 [24.3] 77.4 [22.7] 9.6	79.9 [23.4] 67.3 [22.7] 9.4
	120 [48.9]	Total BTUH [kW] Sens BTUH [kW] Power	98.4 [28.8] 65.2 [19.1] 10.4	95.0 [27.8] 56.2 [16.5] 10.2	91.5 [26.8] 47.8 [16.5] 10.1	91.5 [26.8] 78.5 [23.0] 10.3	88.3 [25.9] 68.6 [20.1] 10.2	85.1 [24.9] 59.3 [20.1] 10.0	83.4 [24.4] 83.4 [24.4] 10.3	80.4 [23.6] 75.2 [22.0] 10.1	77.5 [22.7] 65.5 [22.0] 9.9

DR —Depression ratio dbE —Entering air dry bulb wbE—Entering air wet bulb

Total —Total capacity x 1000 BTUH Sens —Sensible capacity x 1000 BTUH Power—KW input

NOTES:

- When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 DR) x (dbE 80)].
 Data includes 25 feet [7.62 m] of recommended suction/liquid lines.

CONDENSING UNIT

SAWL-125PAZ

WITH AIR Handler

SHGL-120P

				EN	ITERING INDOC	OR AIR @ 80°F	[26.7°C] dbE ①)			
	w	bE		71°F [21.7°C]			67°F [19.4°C]		63°F [17.2°C]		
		[L/s]	3800 [1794]	3165 [1494]	2530 [1195]	3800 [1794]	3165 [1494]	2530 [1195]	3800 [1794]	3165 [1494]	2530 [1195]
	DR	R ①	.02	.06	.10	.02	.06	.10	.02	.06	.10
	123 01 S	otal BTUH [kW] ens BTUH [kW] 'ower	122.6 [35.9] 78.6 [23.0] 6.6	118.3 [34.7] 67.6 [19.8] 6.5	114.0 [33.4] 57.4 [19.8] 6.4	115.6 [33.9] 91.8 [26.9] 6.5	111.6 [32.7] 79.9 [23.4] 6.4	107.5 [31.5] 68.7 [23.4] 6.3	107.5 [31.5] 98.8 [28.9] 6.4	103.7 [30.4] 86.5 [25.3] 6.3	100.0 [29.3] 75.0 [25.3] 6.2
O U T	126 71 S	otal BTUH [kW] ens BTUH [kW] ower	119.8 [35.1] 78.0 [22.9] 6.9	115.6 [33.9] 67.1 [19.7] 6.8	111.4 [32.6] 57.0 [19.7] 6.7	112.9 [33.1] 91.3 [26.8] 6.8	108.9 [31.9] 79.5 [23.3] 6.7	105.0 [30.8] 68.5 [23.3] 6.6	104.8 [30.7] 98.3 [28.8] 6.8	101.1 [29.6] 86.2 [25.3] 6.6	97.4 [28.5] 74.8 [25.3] 6.5
D O O R	120 A1 S	otal BTUH [kW] ens BTUH [kW] 'ower	117.1 [34.3] 77.3 [22.6] 7.3	113.0 [33.1] 66.6 [19.5] 7.2	108.9 [31.9] 56.6 [19.5] 7.0	110.2 [32.3] 90.6 [26.5] 7.2	106.3 [31.1] 78.9 [23.1] 7.1	102.4 [30.0] 68.0 [23.1] 7.0	102.1 [29.9] 97.6 [28.6] 7.1	98.5 [28.9] 85.6 [25.1] 7.0	94.9 [27.8] 74.3 [25.1] 6.9
D R Y	S 10 S	otal BTUH [kW] ens BTUH [kW] ower	114.4 [33.5] 76.3 [22.4] 7.7	110.4 [32.3] 65.8 [19.3] 7.5	106.3 [31.1] 55.9 [19.3] 7.4	107.5 [31.5] 89.6 [26.3] 7.6	103.7 [30.4] 78.1 [22.9] 7.5	99.9 [29.3] 67.3 [22.9] 7.3	99.3 [29.1] 96.5 [28.3] 7.5	95.8 [28.1] 84.7 [24.8] 7.4	92.3 [27.0] 73.6 [24.8] 7.2
B U L B	95 S	otal BTUH [kW] ens BTUH [kW] ower	111.7 [32.7] 75.1 [22.0] 8.1	107.8 [31.6] 64.8 [19.0] 7.9	103.8 [30.4] 55.1 [19.0] 7.8	104.8 [30.7] 88.4 [25.9] 8.0	101.1 [29.6] 77.1 [22.6] 7.8	97.4 [28.5] 66.5 [22.6] 7.7	96.6 [28.3] 95.3 [27.9] 7.9	93.2 [27.3] 83.7 [24.5] 7.8	89.8 [26.3] 72.8 [24.5] 7.6
T E M	100 S	otal BTUH [kW] ens BTUH [kW] ower	109.0 [31.9] 73.6 [21.6] 8.5	105.2 [30.8] 63.5 [18.6] 8.4	101.3 [29.7] 54.0 [18.6] 8.2	102.1 [29.9] 86.8 [25.4] 8.4	98.5 [28.9] 75.8 [22.2] 8.3	94.9 [27.8] 65.4 [22.2] 8.1	94.0 [27.5] 93.8 [27.5] 8.3	90.7 [26.6] 82.5 [24.2] 8.2	87.3 [25.6] 71.7 [24.2] 8.0
P E R A	105 S	otal BTUH [kW] ens BTUH [kW] ower	106.3 [31.1] 71.9 [21.1] 8.9	102.6 [30.1] 62.0 [18.2] 8.8	98.9 [29.0] 52.8 [18.2] 8.6	99.4 [29.1] 85.1 [24.9] 8.9	95.9 [28.1] 74.3 [21.8] 8.7	92.4 [27.1] 64.2 [21.8] 8.6	91.3 [26.8] 91.3 [26.8] 8.8	88.1 [25.8] 81.0 [23.7] 8.6	84.9 [24.9] 70.5 [23.7] 8.5
T U R E	110 8	otal BTUH [kW] ens BTUH [kW] ower	103.7 [30.4] 69.9 [20.5] 9.4	100.0 [29.3] 60.2 [17.6] 9.3	96.4 [28.2] 51.3 [17.6] 9.1	96.8 [28.4] 83.2 [24.4] 9.3	93.4 [27.4] 72.7 [21.3] 9.2	89.9 [26.3] 62.7 [21.3] 9.0	88.6 [26.0] 88.6 [26.0] 9.3	85.5 [25.1] 79.3 [23.2] 9.1	82.4 [24.1] 69.1 [23.2] 8.9
°F [°C]	S G11	otal BTUH [kW] ens BTUH [kW] ower	101.1 [29.6] 67.8 [19.9] 9.9	97.5 [28.6] 58.4 [17.1] 9.7	93.9 [27.5] 49.7 [17.1] 9.6	94.1 [27.6] 80.9 [23.7] 9.8	90.8 [26.6] 70.7 [20.7] 9.7	87.5 [25.6] 61.1 [20.7] 9.5	86.0 [25.2] 86.0 [25.2] 9.7	83.0 [24.3] 77.4 [22.7] 9.6	79.9 [23.4] 67.3 [22.7] 9.4
	12U S	otal BTUH [kW] ens BTUH [kW] ower	98.4 [28.8] 65.2 [19.1] 10.4	95.0 [27.8] 56.2 [16.5] 10.2	91.5 [26.8] 47.8 [16.5] 10.1	91.5 [26.8] 78.5 [23.0] 10.3	88.3 [25.9] 68.6 [20.1] 10.2	85.1 [24.9] 59.3 [20.1] 10.0	83.4 [24.4] 83.4 [24.4] 10.3	80.4 [23.6] 75.2 [22.0] 10.1	77.5 [22.7] 65.5 [22.0] 9.9

DR —Depression ratio dbE —Entering air dry bulb wbE—Entering air wet bulb

Power—KW input

[] Designates Metric Conversions

NOTES:

Total —Total capacity x 1000 BTUH Sens —Sensible capacity x 1000 BTUH

When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 – DR) x (dbE – 80)].
 Data includes 25 feet [7.62 m] of recommended suction/liquid lines.

CONDENSING UNIT

SAWL-150NAZ COOLING SHGL-180N

					ITERING INDOC	OR AIR @ 80°F	[26.7°C] dbE (1)			
		wbE		71°F [21.7°C]			67°F [19.4°C] 63°F [17.2°C]				
	CF	FM [L/s]	5000 [2360]	4165 [1966]	3330 [1572]	5000 [2360]	4165 [1966]	3330 [1572]	5000 [2360]	4165 [1966]	3330 [1572]
		DR ①	.05	.09	.13	.05	.09	.13	.05	.09	.13
	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	154.9 [45.4] 101.5 [29.7] 8.4	149.4 [43.8] 87.3 [25.6] 8.2	144.0 [42.2] 74.2 [25.6] 8.1	148.9 [43.6] 119.9 [35.1] 8.2	143.7 [42.1] 104.4 [30.6] 8.1	138.4 [40.6] 89.8 [30.6] 8.0	143.2 [42.0] 132.9 [38.9] 8.1	138.1 [40.5] 116.4 [34.1] 7.9	133.1 [39.0] 101.0 [34.1] 7.8
O U T	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	151.5 [44.4] 100.0 [29.3] 8.8	146.2 [42.8] 86.1 [25.2] 8.7	140.8 [41.3] 73.1 [25.2] 8.5	145.5 [42.6] 118.4 [34.7] 8.7	140.4 [41.1] 103.2 [30.2] 8.5	135.3 [39.6] 88.9 [30.2] 8.4	139.8 [41.0] 131.4 [38.5] 8.5	134.9 [39.5] 115.3 [33.8] 8.4	130.0 [38.1] 100.1 [33.8] 8.2
D O O R	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	147.9 [43.3] 98.2 [28.8] 9.3	142.7 [41.8] 84.6 [24.8] 9.1	137.5 [40.3] 72.0 [24.8] 8.9	142.0 [41.6] 116.8 [34.2] 9.1	137.0 [40.1] 101.8 [29.8] 9.0	132.0 [38.7] 87.7 [29.8] 8.8	136.2 [39.9] 129.7 [38.0] 9.0	131.4 [38.5] 113.8 [33.3] 8.8	126.6 [37.1] 98.8 [33.3] 8.7
D R Y	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	144.2 [42.3] 96.5 [28.3] 9.8	139.1 [40.8] 83.1 [24.3] 9.6	134.0 [39.3] 70.7 [24.3] 9.4	138.2 [40.5] 114.9 [33.7] 9.6	133.3 [39.1] 100.2 [29.4] 9.4	128.5 [37.7] 86.5 [29.4] 9.3	132.5 [38.8] 127.9 [37.5] 9.5	127.8 [37.4] 112.3 [32.9] 9.3	123.1 [36.1] 97.5 [32.9] 9.1
B U L B	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	140.2 [41.1] 94.4 [27.7] 10.3	135.2 [39.6] 81.3 [23.8] 10.1	130.3 [38.2] 69.3 [23.8] 9.9	134.2 [39.3] 112.9 [33.1] 10.1	129.5 [37.9] 98.5 [28.9] 9.9	124.8 [36.6] 85.0 [28.9] 9.8	128.5 [37.7] 125.9 [36.9] 10.0	123.9 [36.3] 110.5 [32.4] 9.8	119.4 [35.0] 96.1 [32.4] 9.6
T E M	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	136.0 [39.8] 92.2 [27.0] 10.8	131.2 [38.4] 79.5 [23.3] 10.6	126.4 [37.0] 67.7 [23.3] 10.4	130.0 [38.1] 110.6 [32.4] 10.6	125.4 [36.7] 96.5 [28.3] 10.5	120.9 [35.4] 83.4 [28.3] 10.3	124.3 [36.4] 123.6 [36.2] 10.5	119.9 [35.1] 108.6 [31.8] 10.3	115.5 [33.8] 94.5 [31.8] 10.1
P E R A	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	131.6 [38.6] 89.7 [26.3] 11.4	126.9 [37.2] 77.3 [22.6] 11.2	122.3 [35.8] 65.9 [22.6] 11.0	125.6 [36.8] 108.2 [31.7] 11.2	121.2 [35.5] 94.5 [27.7] 11.0	116.8 [34.2] 81.7 [27.7] 10.8	119.9 [35.1] 119.9 [35.1] 11.1	115.7 [33.9] 106.6 [31.2] 10.9	111.4 [32.6] 92.7 [31.2] 10.7
T U R E	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	127.0 [37.2] 87.0 [25.5] 12.0	122.5 [35.9] 75.1 [22.0] 11.7	118.0 [34.6] 64.0 [22.0] 11.5	121.0 [35.5] 105.5 [30.9] 11.8	116.7 [34.2] 92.2 [27.0] 11.6	112.5 [33.0] 79.8 [27.0] 11.4	115.3 [33.8] 115.3 [33.8] 11.7	111.2 [32.6] 104.3 [30.6] 11.5	107.2 [31.4] 90.9 [30.6] 11.2
°F [°C]	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	122.1 [35.8] 84.2 [24.7] 12.6	117.8 [34.5] 72.7 [21.3] 12.4	113.6 [33.3] 62.1 [21.3] 12.1	116.2 [34.0] 102.7 [30.1] 12.4	112.1 [32.8] 89.8 [26.3] 12.2	108.0 [31.6] 77.7 [26.3] 12.0	110.4 [32.3] 110.4 [32.3] 12.3	106.6 [31.2] 101.9 [29.9] 12.1	102.7 [30.1] 88.8 [29.9] 11.8
	120 [48.9]	Total BTUH [kW] Sens BTUH [kW] Power	117.1 [34.3] 81.1 [23.8] 13.2	113.0 [33.1] 70.1 [20.5] 13.0	108.9 [31.9] 59.8 [20.5] 12.8	111.2 [32.6] 99.7 [29.2] 13.1	107.2 [31.4] 87.2 [25.5] 12.8	103.3 [30.3] 75.5 [25.5] 12.6	105.4 [30.9] 105.4 [30.9] 12.9	101.7 [29.8] 99.3 [29.1] 12.7	98.0 [28.7] 86.7 [28.7] 12.5

DR —Depression ratio dbE —Entering air dry bulb wbE—Entering air wet bulb Total —Total capacity x 1000 BTUH Sens —Sensible capacity x 1000 BTUH

Power—KW input

NOTES:

- When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 DR) x (dbE 80)].
 Data includes 25 feet [7.62 m] of recommended suction/liquid lines.

CONDENSING UNIT

SAWL-150PAZ

WITH AIR Handler

SHGL-180P

				EN	ITERING INDOC	R AIR @ 80°F	[26.7°C] dbE (1)			
		wbE		71°F [21.7°C]			67°F [19.4°C]		63°F [17.2°C]		
		M [L/s]	5000 [2360]	4165 [1966]	3330 [1572]	5000 [2360]	4165 [1966]	3330 [1572]	5000 [2360]	4165 [1966]	3330 [1572]
		DR ①	.05	.09	.13	.05	.09	.13	.05	.09	.13
	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	154.9 [45.4] 101.5 [29.7] 8.4	149.4 [43.8] 87.3 [25.6] 8.2	144.0 [42.2] 74.2 [25.6] 8.1	148.9 [43.6] 119.9 [35.1] 8.2	143.7 [42.1] 104.4 [30.6] 8.1	138.4 [40.6] 89.8 [30.6] 8.0	143.2 [42.0] 132.9 [38.9] 8.1	138.1 [40.5] 116.4 [34.1] 7.9	133.1 [39.0] 101.0 [34.1] 7.8
O U T	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	151.5 [44.4] 100.0 [29.3] 8.8	146.2 [42.8] 86.1 [25.2] 8.7	140.8 [41.3] 73.1 [25.2] 8.5	145.5 [42.6] 118.4 [34.7] 8.7	140.4 [41.1] 103.2 [30.2] 8.5	135.3 [39.6] 88.9 [30.2] 8.4	139.8 [41.0] 131.4 [38.5] 8.5	134.9 [39.5] 115.3 [33.8] 8.4	130.0 [38.1] 100.1 [33.8] 8.2
D O O R	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	147.9 [43.3] 98.2 [28.8] 9.3	142.7 [41.8] 84.6 [24.8] 9.1	137.5 [40.3] 72.0 [24.8] 8.9	142.0 [41.6] 116.8 [34.2] 9.1	137.0 [40.1] 101.8 [29.8] 9.0	132.0 [38.7] 87.7 [29.8] 8.8	136.2 [39.9] 129.7 [38.0] 9.0	131.4 [38.5] 113.8 [33.3] 8.8	126.6 [37.1] 98.8 [33.3] 8.7
D R Y	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	144.2 [42.3] 96.5 [28.3] 9.8	139.1 [40.8] 83.1 [24.3] 9.6	134.0 [39.3] 70.7 [24.3] 9.4	138.2 [40.5] 114.9 [33.7] 9.6	133.3 [39.1] 100.2 [29.4] 9.4	128.5 [37.7] 86.5 [29.4] 9.3	132.5 [38.8] 127.9 [37.5] 9.5	127.8 [37.4] 112.3 [32.9] 9.3	123.1 [36.1] 97.5 [32.9] 9.1
B U L B	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	140.2 [41.1] 94.4 [27.7] 10.3	135.2 [39.6] 81.3 [23.8] 10.1	130.3 [38.2] 69.3 [23.8] 9.9	134.2 [39.3] 112.9 [33.1] 10.1	129.5 [37.9] 98.5 [28.9] 9.9	124.8 [36.6] 85.0 [28.9] 9.8	128.5 [37.7] 125.9 [36.9] 10.0	123.9 [36.3] 110.5 [32.4] 9.8	119.4 [35.0] 96.1 [32.4] 9.6
T E M	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	136.0 [39.8] 92.2 [27.0] 10.8	131.2 [38.4] 79.5 [23.3] 10.6	126.4 [37.0] 67.7 [23.3] 10.4	130.0 [38.1] 110.6 [32.4] 10.6	125.4 [36.7] 96.5 [28.3] 10.5	120.9 [35.4] 83.4 [28.3] 10.3	124.3 [36.4] 123.6 [36.2] 10.5	119.9 [35.1] 108.6 [31.8] 10.3	115.5 [33.8] 94.5 [31.8] 10.1
P E R A	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	131.6 [38.6] 89.7 [26.3] 11.4	126.9 [37.2] 77.3 [22.6] 11.2	122.3 [35.8] 65.9 [22.6] 11.0	125.6 [36.8] 108.2 [31.7] 11.2	121.2 [35.5] 94.5 [27.7] 11.0	116.8 [34.2] 81.7 [27.7] 10.8	119.9 [35.1] 119.9 [35.1] 11.1	115.7 [33.9] 106.6 [31.2] 10.9	111.4 [32.6] 92.7 [31.2] 10.7
T U R E	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	127.0 [37.2] 87.0 [25.5] 12.0	122.5 [35.9] 75.1 [22.0] 11.7	118.0 [34.6] 64.0 [22.0] 11.5	121.0 [35.5] 105.5 [30.9] 11.8	116.7 [34.2] 92.2 [27.0] 11.6	112.5 [33.0] 79.8 [27.0] 11.4	115.3 [33.8] 115.3 [33.8] 11.7	111.2 [32.6] 104.3 [30.6] 11.5	107.2 [31.4] 90.9 [30.6] 11.2
°F [°C]	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	122.1 [35.8] 84.2 [24.7] 12.6	117.8 [34.5] 72.7 [21.3] 12.4	113.6 [33.3] 62.1 [21.3] 12.1	116.2 [34.0] 102.7 [30.1] 12.4	112.1 [32.8] 89.8 [26.3] 12.2	108.0 [31.6] 77.7 [26.3] 12.0	110.4 [32.3] 110.4 [32.3] 12.3	106.6 [31.2] 101.9 [29.9] 12.1	102.7 [30.1] 88.8 [29.9] 11.8
	120 [48.9]	Total BTUH [kW] Sens BTUH [kW] Power	117.1 [34.3] 81.1 [23.8] 13.2	113.0 [33.1] 70.1 [20.5] 13.0	108.9 [31.9] 59.8 [20.5] 12.8	111.2 [32.6] 99.7 [29.2] 13.1	107.2 [31.4] 87.2 [25.5] 12.8	103.3 [30.3] 75.5 [25.5] 12.6	105.4 [30.9] 105.4 [30.9] 12.9	101.7 [29.8] 99.3 [29.1] 12.7	98.0 [28.7] 86.7 [28.7] 12.5

DR —Depression ratio dbE —Entering air dry bulb wbE—Entering air wet bulb

Total —Total capacity x 1000 BTUH Sens —Sensible capacity x 1000 BTUH

Power—KW input

NOTES:

- When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 DR) x (dbE 80)].
 Data includes 25 feet [7.62 m] of recommended suction/liquid lines.

CONDENSING UNIT

 $\begin{array}{ccc} \textbf{SAWL-150VAZ} & \tiny{\tiny{\tiny{\tiny{COOLING}}}} & \textbf{SHGL-180N} \\ \end{array}$

						OR AIR @ 80°F	[26.7°C] dbE ①)			
		wbE		71°F [21.7°C]			67°F [19.4°C]] 63°F [17.2°C]			
	CF	FM [L/s]	6000 [2832]	5000 [2360]	4000 [1888]	6000 [2832]	5000 [2360]	4000 [1888]	6000 [2832]	5000 [2360]	4000 [1888]
		DR ①	.05	.09	.12	.05	.09	.12	.05	.09	.12
	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	8.6	151.5 [44.4] 93.3 [27.3] 8.5	146.0 [42.8] 79.6 [27.3] 8.3	161.3 [47.3] 135.5 [39.7] 9.6	155.6 [45.6] 118.2 [34.6] 9.4	150.0 [43.9] 102.1 [34.6] 9.3	154.8 [45.4] 150.8 [44.2] 10.6	149.3 [43.7] 132.4 [38.8] 10.4	143.9 [42.2] 115.1 [38.8] 10.2
O U T	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	157.1 [46.0] 108.6 [31.8] 9.2	151.6 [44.4] 93.8 [27.5] 9.1	146.1 [42.8] 80.1 [27.5] 8.9	161.4 [47.3] 135.9 [39.8] 10.2	155.8 [45.6] 118.7 [34.8] 10.0	150.1 [44.0] 102.5 [34.8] 9.8	154.9 [45.4] 151.2 [44.3] 11.2	149.4 [43.8] 132.8 [38.9] 11.0	144.0 [42.2] 115.5 [38.9] 10.8
D 0 0 R	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	9.8	150.8 [44.2] 93.6 [27.4] 9.7	145.3 [42.6] 79.9 [27.4] 9.5	160.5 [47.0] 135.7 [39.8] 10.8	154.9 [45.4] 118.5 [34.7] 10.6	149.3 [43.7] 102.4 [34.7] 10.4	154.0 [45.1] 151.0 [44.2] 11.8	148.6 [43.5] 132.7 [38.9] 11.6	143.2 [42.0] 115.4 [38.9] 11.4
D R Y	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	154.4 [45.2] 107.5 [31.5] 10.5	149.0 [43.7] 92.9 [27.2] 10.3	143.6 [42.1] 79.3 [27.2] 10.1	158.7 [46.5] 134.8 [39.5] 11.5	153.1 [44.9] 117.7 [34.5] 11.3	147.5 [43.2] 101.6 [34.5] 11.1	152.1 [44.6] 150.1 [44.0] 12.5	146.8 [43.0] 132.0 [38.7] 12.2	141.4 [41.4] 114.8 [38.7] 12.0
B U L B	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	151.5 [44.4] 105.7 [31.0] 11.2	146.2 [42.8] 91.4 [26.8] 11.0	140.9 [41.3] 78.1 [26.8] 10.8	155.8 [45.6] 133.2 [39.0] 12.2	150.3 [44.0] 116.3 [34.1] 12.0	144.9 [42.5] 100.5 [34.1] 11.8	149.3 [43.7] 148.5 [43.5] 13.2	144.0 [42.2] 130.5 [38.2] 12.9	138.8 [40.7] 113.6 [38.2] 12.7
T E M	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	147.7 [43.3] 103.5 [30.3] 11.9	142.5 [41.8] 89.5 [26.2] 11.7	137.3 [40.2] 76.4 [26.2] 11.5	151.9 [44.5] 130.8 [38.3] 12.9	146.6 [43.0] 114.3 [33.5] 12.7	141.3 [41.4] 98.8 [33.5] 12.5	145.4 [42.6] 145.4 [42.6] 13.9	140.3 [41.1] 128.6 [37.7] 13.7	135.2 [39.6] 112.0 [37.7] 13.4
P E R A	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	142.8 [41.8] 100.5 [29.4] 12.7	137.8 [40.4] 86.9 [25.5] 12.5	132.8 [38.9] 74.3 [25.5] 12.3	147.1 [43.1] 127.8 [37.4] 13.7	141.9 [41.6] 111.7 [32.7] 13.5	136.8 [40.1] 96.6 [32.7] 13.2	140.6 [41.2] 140.6 [41.2] 14.7	135.6 [39.7] 125.9 [36.9] 14.4	130.7 [38.3] 109.7 [36.9] 14.2
T U R E	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	137.0 [40.1] 96.8 [28.4] 13.5	132.2 [38.7] 83.7 [24.5] 13.3	127.4 [37.3] 71.5 [24.5] 13.1	141.3 [41.4] 124.2 [36.4] 14.5	136.3 [39.9] 108.6 [31.8] 14.3	131.4 [38.5] 94.0 [31.8] 14.0	134.7 [39.5] 134.7 [39.5] 15.5	130.0 [38.1] 122.8 [36.0] 15.2	125.3 [36.7] 107.1 [36.0] 15.0
°F [°C]	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	130.2 [38.1] 92.4 [27.1] 14.4	125.6 [36.8] 79.9 [23.4] 14.1	121.0 [35.5] 68.3 [23.4] 13.9	134.5 [39.4] 119.7 [35.1] 15.4	129.7 [38.0] 104.7 [30.7] 15.1	125.0 [36.6] 90.7 [30.7] 14.8	127.9 [37.5] 127.9 [37.5] 16.3	123.4 [36.2] 119.0 [34.9] 16.1	118.9 [34.8] 103.8 [34.8] 15.8
	120 [48.9]	Total BTUH [kW] Sens BTUH [kW] Power	122.4 [35.9] 87.2 [25.5] 15.3	118.1 [34.6] 75.5 [22.1] 15.0	113.8 [33.3] 64.6 [22.1] 14.7	126.6 [37.1] 114.6 [33.6] 16.2	122.2 [35.8] 100.4 [29.4] 16.0	117.8 [34.5] 87.0 [29.4] 15.7	120.1 [35.2] 120.1 [35.2] 17.2	115.9 [34.0] 114.6 [33.6] 16.9	111.7 [32.7] 100.1 [32.7] 16.6

DR —Depression ratio dbE—Entering air dry bulb wbE—Entering air wet bulb Total —Total capacity x 1000 BTUH Sens —Sensible capacity x 1000 BTUH Power—KW input

NOTES:

- When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 DR) x (dbE 80)].
 Data includes 25 feet [7.62 m] of recommended suction/liquid lines.

CONDENSING SAWL-180NAZ

WITH AIR Handler

SHGL-180N

				EN	ITERING INDOC	OR AIR @ 80°F	[26.7°C] dbE ①)			
		wbE		71°F [21.7°C]			67°F [19.4°C]		63°F [17.2°C]		
		FM [L/s]	5100 [2407]	4250 [2006]	3400 [1605]	5100 [2407]	4250 [2006]	3400 [1605]	5100 [2407]	4250 [2006]	3400 [1605]
		DR ①	.02	.08	.15	.02	.08	.15	.02	.08	.15
	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	10.4	175.2 [51.3] 96.6 [28.3] 10.2	168.8 [49.5] 81.8 [28.3] 10.0	172.1 [50.4] 131.6 [38.6] 10.2	166.1 [48.7] 114.4 [33.5] 10.0	160.0 [46.9] 98.2 [33.5] 9.8	162.4 [47.6] 145.9 [42.7] 10.0	156.7 [45.9] 127.7 [37.4] 9.8	151.0 [44.2] 110.6 [37.4] 9.7
O U T	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	179.2 [52.5] 111.6 [32.7] 10.9	172.9 [50.7] 95.8 [28.1] 10.7	166.6 [48.8] 81.1 [28.1] 10.5	169.7 [49.7] 130.7 [38.3] 10.7	163.7 [48.0] 113.5 [33.3] 10.5	157.8 [46.2] 97.6 [33.3] 10.3	160.0 [46.9] 145.0 [42.5] 10.5	154.4 [45.2] 127.0 [37.2] 10.3	148.8 [43.6] 110.1 [37.2] 10.2
D O O R	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	11.5	170.2 [49.9] 94.8 [27.8] 11.3	164.0 [48.1] 80.3 [27.8] 11.1	166.9 [48.9] 129.5 [37.9] 11.3	161.1 [47.2] 112.6 [33.0] 11.1	155.2 [45.5] 96.7 [33.0] 10.9	157.3 [46.1] 143.8 [42.1] 11.1	151.7 [44.4] 125.9 [36.9] 10.9	146.2 [42.8] 109.2 [36.9] 10.7
D R Y	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power		167.2 [49.0] 93.5 [27.4] 11.8	161.1 [47.2] 79.2 [27.4] 11.6	163.8 [48.0] 127.9 [37.5] 11.9	158.1 [46.3] 111.3 [32.6] 11.7	152.3 [44.6] 95.7 [32.6] 11.4	154.1 [45.2] 142.1 [41.6] 11.7	148.7 [43.6] 124.6 [36.5] 11.5	143.3 [42.0] 108.1 [36.5] 11.3
B U L B	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	169.8 [49.8] 107.0 [31.4] 12.7	163.9 [48.0] 92.0 [27.0] 12.5	157.9 [46.3] 78.0 [27.0] 12.2	160.4 [47.0] 126.2 [37.0] 12.5	154.7 [45.3] 109.7 [32.1] 12.3	149.1 [43.7] 94.4 [32.1] 12.1	150.7 [44.2] 140.4 [41.1] 12.3	145.4 [42.6] 123.1 [36.1] 12.1	140.1 [41.0] 106.8 [36.1] 11.9
T E M	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	166.0 [48.6] 104.9 [30.7] 13.3	160.2 [46.9] 90.1 [26.4] 13.1	154.4 [45.2] 76.4 [26.4] 12.9	156.6 [45.9] 124.1 [36.4] 13.1	151.1 [44.3] 108.0 [31.6] 12.9	145.6 [42.7] 92.9 [31.6] 12.7	146.9 [43.0] 138.3 [40.5] 13.0	141.7 [41.5] 121.3 [35.5] 12.7	136.6 [40.0] 105.4 [35.5] 12.5
P E R A	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	161.9 [47.4] 102.6 [30.1] 14.0	156.2 [45.8] 88.1 [25.8] 13.8	150.5 [44.1] 74.7 [25.8] 13.5	152.4 [44.7] 121.6 [35.6] 13.8	147.1 [43.1] 105.9 [31.0] 13.6	141.7 [41.5] 91.1 [31.0] 13.4	142.7 [41.8] 135.9 [39.8] 13.6	137.7 [40.3] 119.3 [35.0] 13.4	132.7 [38.9] 103.6 [35.0] 13.2
T U R E	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	157.4 [46.1] 99.8 [29.2] 14.7	151.9 [44.5] 85.8 [25.1] 14.5	146.4 [42.9] 72.8 [25.1] 14.2	147.9 [43.3] 119.0 [34.9] 14.6	142.7 [41.8] 103.6 [30.4] 14.3	137.6 [40.3] 89.3 [30.4] 14.0	138.3 [40.5] 133.3 [39.1] 14.4	133.4 [39.1] 117.0 [34.3] 14.1	128.6 [37.7] 101.7 [34.3] 13.9
°F [°C]	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	152.6 [44.7] 96.9 [28.4] 15.5	147.2 [43.1] 83.2 [24.4] 15.2	141.9 [41.6] 70.6 [24.4] 15.0	143.1 [41.9] 116.0 [34.0] 15.3	138.1 [40.5] 101.1 [29.6] 15.0	133.1 [39.0] 87.1 [29.6] 14.8	133.4 [39.1] 130.2 [38.1] 15.1	128.8 [37.7] 114.5 [33.5] 14.9	124.1 [36.4] 99.6 [33.5] 14.6
	120 [48.9]	Total BTUH [kW] Sens BTUH [kW] Power	147.4 [43.2] 93.6 [27.4] 16.3	142.2 [41.7] 80.4 [23.6] 16.0	137.1 [40.2] 68.3 [23.6] 15.7	137.9 [40.4] 112.7 [33.0] 16.1	133.1 [39.0] 98.3 [28.8] 15.8	128.3 [37.6] 84.8 [28.8] 15.5	128.3 [37.6] 127.0 [37.2] 15.9	123.8 [36.3] 111.7 [32.7] 15.6	119.3 [35.0] 97.2 [32.7] 15.4

DR —Depression ratio dbE —Entering air dry bulb wbE—Entering air wet bulb

NOTES:

Total —Total capacity x 1000 BTUH Sens —Sensible capacity x 1000 BTUH

Power—KW input

When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 – DR) x (dbE – 80)].
 Data includes 25 feet [7.62 m] of recommended suction/liquid lines.

CONDENSING UNIT

 $\begin{array}{ccc} \textbf{SAWL-180PAZ} & \tiny{\tiny{\tiny{\tiny{COOLING}}}} & \textbf{SHGL-180P} \\ \end{array}$

						OR AIR @ 80°F	[26.7°C] dbE ①)			
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
	CFM [L/s]		5100 [2407]	4250 [2006]	3400 [1605]	5100 [2407]	4250 [2006]	3400 [1605]	5100 [2407]	4250 [2006]	3400 [1605]
		DR ①	.02	.08	.15	.02	.08	.15	.02	.08	.15
	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	181.6 [53.2] 112.6 [33.0] 10.4	175.2 [51.3] 96.6 [28.3] 10.2	168.8 [49.5] 81.8 [28.3] 10.0	172.1 [50.4] 131.6 [38.6] 10.2	166.1 [48.7] 114.4 [33.5] 10.0	160.0 [46.9] 98.2 [33.5] 9.8	162.4 [47.6] 145.9 [42.7] 10.0	156.7 [45.9] 127.7 [37.4] 9.8	151.0 [44.2] 110.6 [37.4] 9.7
O U T	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	179.2 [52.5] 111.6 [32.7] 10.9	172.9 [50.7] 95.8 [28.1] 10.7	166.6 [48.8] 81.1 [28.1] 10.5	169.7 [49.7] 130.7 [38.3] 10.7	163.7 [48.0] 113.5 [33.3] 10.5	157.8 [46.2] 97.6 [33.3] 10.3	160.0 [46.9] 145.0 [42.5] 10.5	154.4 [45.2] 127.0 [37.2] 10.3	148.8 [43.6] 110.1 [37.2] 10.2
D O O R	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	176.4 [51.7] 110.4 [32.3] 11.5	170.2 [49.9] 94.8 [27.8] 11.3	164.0 [48.1] 80.3 [27.8] 11.1	166.9 [48.9] 129.5 [37.9] 11.3	161.1 [47.2] 112.6 [33.0] 11.1	155.2 [45.5] 96.7 [33.0] 10.9	157.3 [46.1] 143.8 [42.1] 11.1	151.7 [44.4] 125.9 [36.9] 10.9	146.2 [42.8] 109.2 [36.9] 10.7
D R Y	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	12.0	167.2 [49.0] 93.5 [27.4] 11.8	161.1 [47.2] 79.2 [27.4] 11.6	163.8 [48.0] 127.9 [37.5] 11.9	158.1 [46.3] 111.3 [32.6] 11.7	152.3 [44.6] 95.7 [32.6] 11.4	154.1 [45.2] 142.1 [41.6] 11.7	148.7 [43.6] 124.6 [36.5] 11.5	143.3 [42.0] 108.1 [36.5] 11.3
B U L B	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	169.8 [49.8] 107.0 [31.4] 12.7	163.9 [48.0] 92.0 [27.0] 12.5	157.9 [46.3] 78.0 [27.0] 12.2	160.4 [47.0] 126.2 [37.0] 12.5	154.7 [45.3] 109.7 [32.1] 12.3	149.1 [43.7] 94.4 [32.1] 12.1	150.7 [44.2] 140.4 [41.1] 12.3	145.4 [42.6] 123.1 [36.1] 12.1	140.1 [41.0] 106.8 [36.1] 11.9
T E M	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	166.0 [48.6] 104.9 [30.7] 13.3	160.2 [46.9] 90.1 [26.4] 13.1	154.4 [45.2] 76.4 [26.4] 12.9	156.6 [45.9] 124.1 [36.4] 13.1	151.1 [44.3] 108.0 [31.6] 12.9	145.6 [42.7] 92.9 [31.6] 12.7	146.9 [43.0] 138.3 [40.5] 13.0	141.7 [41.5] 121.3 [35.5] 12.7	136.6 [40.0] 105.4 [35.5] 12.5
P E R A	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	161.9 [47.4] 102.6 [30.1] 14.0	156.2 [45.8] 88.1 [25.8] 13.8	150.5 [44.1] 74.7 [25.8] 13.5	152.4 [44.7] 121.6 [35.6] 13.8	147.1 [43.1] 105.9 [31.0] 13.6	141.7 [41.5] 91.1 [31.0] 13.4	142.7 [41.8] 135.9 [39.8] 13.6	137.7 [40.3] 119.3 [35.0] 13.4	132.7 [38.9] 103.6 [35.0] 13.2
T U R E	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	157.4 [46.1] 99.8 [29.2] 14.7	151.9 [44.5] 85.8 [25.1] 14.5	146.4 [42.9] 72.8 [25.1] 14.2	147.9 [43.3] 119.0 [34.9] 14.6	142.7 [41.8] 103.6 [30.4] 14.3	137.6 [40.3] 89.3 [30.4] 14.0	138.3 [40.5] 133.3 [39.1] 14.4	133.4 [39.1] 117.0 [34.3] 14.1	128.6 [37.7] 101.7 [34.3] 13.9
°F [°C]	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	152.6 [44.7] 96.9 [28.4] 15.5	147.2 [43.1] 83.2 [24.4] 15.2	141.9 [41.6] 70.6 [24.4] 15.0	143.1 [41.9] 116.0 [34.0] 15.3	138.1 [40.5] 101.1 [29.6] 15.0	133.1 [39.0] 87.1 [29.6] 14.8	133.4 [39.1] 130.2 [38.1] 15.1	128.8 [37.7] 114.5 [33.5] 14.9	124.1 [36.4] 99.6 [33.5] 14.6
	120 [48.9]	Total BTUH [kW] Sens BTUH [kW] Power	147.4 [43.2] 93.6 [27.4] 16.3	142.2 [41.7] 80.4 [23.6] 16.0	137.1 [40.2] 68.3 [23.6] 15.7	137.9 [40.4] 112.7 [33.0] 16.1	133.1 [39.0] 98.3 [28.8] 15.8	128.3 [37.6] 84.8 [28.8] 15.5	128.3 [37.6] 127.0 [37.2] 15.9	123.8 [36.3] 111.7 [32.7] 15.6	119.3 [35.0] 97.2 [32.7] 15.4

DR —Depression ratio dbE —Entering air dry bulb wbE—Entering air wet bulb Total —Total capacity x 1000 BTUH Sens —Sensible capacity x 1000 BTUH

Power—KW input

NOTES:

- When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 DR) x (dbE 80)].
 Data includes 25 feet [7.62 m] of recommended suction/liquid lines.

CONDENSING UNIT

SAWL-180VAZ

WITH AIR Handler

SHGL-180N

				EN	ITERING INDO	OR AIR @ 80°F	[26.7°C] dbE ①)				
		wbE	71°F [21.7°C]				67°F [19.4°C]			63°F [17.2°C]		
		FM [L/s]	6120 [2889]	5100 [2407]	4080 [1926]	6120 [2889]	5100 [2407]	4080 [1926]	6120 [2889]	5100 [2407]	4080 [1926]	
	DR ①		.03	.09	.16	.03	.09	.16	.03	.09	.16	
	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	233.1 [68.3] 144.3 [42.3] 13.9	224.9 [65.9] 123.8 [36.3] 13.7	216.7 [63.5] 104.8 [36.3] 13.5	212.3 [62.2] 160.2 [46.9] 12.6	204.9 [60.0] 139.1 [40.8] 12.3	197.4 [57.8] 119.3 [40.8] 12.1	205.6 [60.2] 176.8 [51.8] 11.2	198.4 [58.1] 154.5 [45.3] 11.0	191.2 [56.0] 133.6 [45.3] 10.8	
O U T	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	227.0 [66.5] 141.7 [41.5] 14.5	219.0 [64.2] 121.6 [35.6] 14.3	211.0 [61.8] 103.0 [35.6] 14.0	206.2 [60.4] 157.4 [46.1] 13.1	199.0 [58.3] 136.8 [40.1] 12.9	191.8 [56.2] 117.5 [40.1] 12.7	199.5 [58.5] 174.1 [51.0] 11.8	192.5 [56.4] 152.2 [44.6] 11.6	185.5 [54.4] 131.6 [44.6] 11.3	
D O O R	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	221.1 [64.8] 138.9 [40.7] 15.1	213.3 [62.5] 119.2 [34.9] 14.9	205.6 [60.2] 101.1 [34.9] 14.6	200.4 [58.7] 154.8 [45.4] 13.7	193.3 [56.6] 134.5 [39.4] 13.5	186.3 [54.6] 115.6 [39.4] 13.3	193.6 [56.7] 171.3 [50.2] 12.4	186.8 [54.7] 149.9 [43.9] 12.2	180.0 [52.7] 129.7 [43.9] 11.9	
D R Y	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	215.4 [63.1] 135.9 [39.8] 15.8	207.9 [60.9] 116.8 [34.2] 15.5	200.3 [58.7] 99.0 [34.2] 15.2	194.7 [57.0] 151.9 [44.5] 14.4	187.9 [55.1] 132.1 [38.7] 14.2	181.0 [53.0] 113.5 [38.7] 13.9	188.0 [55.1] 168.5 [49.4] 13.0	181.4 [53.1] 147.5 [43.2] 12.8	174.8 [51.2] 127.7 [43.2] 12.6	
B U L B	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	210.0 [61.5] 133.1 [39.0] 16.5	202.6 [59.4] 114.3 [33.5] 16.2	195.3 [57.2] 97.0 [33.5] 15.9	189.3 [55.5] 149.0 [43.7] 15.1	182.6 [53.5] 129.6 [38.0] 14.8	176.0 [51.6] 111.5 [38.0] 14.6	182.5 [53.5] 165.5 [48.5] 13.7	176.1 [51.6] 145.0 [42.5] 13.5	169.7 [49.7] 125.7 [42.5] 13.2	
T E M	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	204.8 [60.0] 130.1 [38.1] 17.2	197.6 [57.9] 111.8 [32.8] 16.9	190.4 [55.8] 94.8 [32.8] 16.6	184.0 [53.9] 146.0 [42.8] 15.8	177.6 [52.0] 127.1 [37.2] 15.5	171.1 [50.1] 109.3 [37.2] 15.3	177.3 [51.9] 162.6 [47.6] 14.4	171.1 [50.1] 142.5 [41.8] 14.2	164.8 [48.3] 123.5 [41.8] 13.9	
P E R	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	199.8 [58.5] 127.0 [37.2] 18.0	192.8 [56.5] 109.2 [32.0] 17.6	185.7 [54.4] 92.6 [32.0] 17.3	179.0 [52.4] 142.9 [41.9] 16.6	172.7 [50.6] 124.4 [36.4] 16.3	166.5 [48.8] 107.2 [36.4] 16.0	172.3 [50.5] 159.5 [46.7] 15.2	166.2 [48.7] 139.8 [41.0] 14.9	160.2 [46.9] 121.3 [41.0] 14.7	
T U R E	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	195.0 [57.1] 123.9 [36.3] 18.8	188.1 [55.1] 106.4 [31.2] 18.4	181.3 [53.1] 90.3 [31.2] 18.1	174.2 [51.0] 139.7 [40.9] 17.4	168.1 [49.3] 121.7 [35.7] 17.1	162.0 [47.5] 104.8 [35.7] 16.8	167.5 [49.1] 156.3 [45.8] 16.0	161.6 [47.3] 137.1 [40.2] 15.7	155.7 [45.6] 119.0 [40.2] 15.4	
°F [°C]	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	190.4 [55.8] 120.7 [35.4] 19.6	183.7 [53.8] 103.7 [30.4] 19.3	177.0 [51.9] 87.9 [30.4] 18.9	169.6 [49.7] 136.4 [40.0] 18.2	163.7 [48.0] 118.9 [34.8] 17.9	157.7 [46.2] 102.4 [34.8] 17.6	162.9 [47.7] 153.1 [44.9] 16.8	157.2 [46.1] 134.3 [39.3] 16.6	151.5 [44.4] 116.6 [39.3] 16.3	
	120 [48.9]	Total BTUH [kW] Sens BTUH [kW] Power	186.0 [54.5] 117.3 [34.4] 20.5	179.5 [52.6] 100.8 [29.5] 20.1	173.0 [50.7] 85.5 [29.5] 19.8	165.3 [48.4] 133.3 [39.1] 19.1	159.5 [46.7] 116.1 [34.0] 18.8	153.7 [45.0] 100.0 [34.0] 18.4	158.5 [46.4] 149.8 [43.9] 17.7	153.0 [44.8] 131.5 [38.5] 17.4	147.4 [43.2] 114.1 [38.5] 17.1	

DR —Depression ratio dbE —Entering air dry bulb wbE—Entering air wet bulb

Total —Total capacity x 1000 BTUH Sens —Sensible capacity x 1000 BTUH

Power—KW input

NOTES:

- When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 DR) x (dbE 80)].
 Data includes 25 feet [7.62 m] of recommended suction/liquid lines.

CONDENSING UNIT

 $\begin{array}{ccc} \text{SAWL-240NAZ} & \tiny{\tiny{\text{COOLING}}\\ \text{COIL}} & \text{SHGL-240N} \end{array}$

				EN	ITERING INDOC	OR AIR @ 80°F	[26.7°C] dbE ()			
		wbE		71°F [21.7°C]		67°F [19.4°C] 63°F [17.2°C]					
		FM [L/s]	6840 [3228]	5700 [2690]	4560 [2152]	6840 [3228]	5700 [2690]	4560 [2152]	6840 [3228]	5700 [2690]	4560 [2152]
	DR ①		.01	.07	.15	.01	.07	.15	.01	.07	.15
	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	261.7 [76.7] 161.8 [47.4] 15.4	252.6 [74.0] 138.9 [40.7] 15.2	243.4 [71.3] 117.6 [40.7] 14.9	249.6 [73.1] 186.7 [54.7] 15.1	240.9 [70.6] 162.1 [47.5] 14.8	232.1 [68.0] 139.0 [47.5] 14.5	242.5 [71.1] 211.0 [61.8] 14.7	234.0 [68.6] 184.5 [54.1] 14.4	225.5 [66.1] 159.6 [54.1] 14.2
O U T	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	255.0 [74.7] 158.3 [46.4] 16.2	246.1 [72.1] 135.9 [39.8] 16.0	237.1 [69.5] 115.1 [39.8] 15.7	242.9 [71.2] 183.2 [53.7] 15.9	234.4 [68.7] 159.1 [46.6] 15.6	225.8 [66.2] 136.5 [46.6] 15.3	235.7 [69.1] 207.3 [60.7] 15.5	227.5 [66.7] 181.4 [53.1] 15.2	219.2 [64.2] 156.9 [53.1] 14.9
D 0 0 R	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	248.4 [72.8] 154.9 [45.4] 17.1	239.7 [70.2] 133.0 [39.0] 16.8	231.0 [67.7] 112.7 [39.0] 16.5	236.3 [69.2] 179.9 [52.7] 16.7	228.0 [66.8] 156.2 [45.8] 16.4	219.7 [64.4] 134.1 [45.8] 16.1	229.2 [67.2] 204.0 [59.8] 16.3	221.1 [64.8] 178.5 [52.3] 16.1	213.1 [62.4] 154.6 [52.3] 15.8
D R Y	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	242.0 [70.9] 151.6 [44.4] 18.0	233.5 [68.4] 130.2 [38.1] 17.7	225.1 [66.0] 110.4 [38.1] 17.4	229.9 [67.4] 176.6 [51.7] 17.6	221.8 [65.0] 153.4 [44.9] 17.3	213.8 [62.6] 131.8 [44.9] 17.0	222.8 [65.3] 200.7 [58.8] 17.3	214.9 [63.0] 175.7 [51.5] 17.0	207.1 [60.7] 152.2 [51.5] 16.7
B U L B	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	235.8 [69.1] 148.6 [43.5] 19.0	227.5 [66.7] 127.6 [37.4] 18.7	219.3 [64.3] 108.3 [37.4] 18.3	223.7 [65.5] 173.5 [50.8] 18.6	215.8 [63.2] 150.8 [44.2] 18.3	208.0 [60.9] 129.7 [44.2] 18.0	216.5 [63.4] 197.6 [57.9] 18.2	208.9 [61.2] 173.1 [50.7] 17.9	201.3 [59.0] 150.1 [50.7] 17.6
T E M	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	229.8 [67.3] 145.7 [42.7] 20.0	221.7 [65.0] 125.2 [36.7] 19.7	213.6 [62.6] 106.2 [36.7] 19.3	217.6 [63.8] 170.6 [50.0] 19.6	210.0 [61.5] 148.4 [43.5] 19.3	202.4 [59.3] 127.7 [43.5] 19.0	210.5 [61.7] 194.7 [57.0] 19.3	203.1 [59.5] 170.7 [50.0] 18.9	195.7 [57.3] 148.1 [50.0] 18.6
P E R A	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	223.9 [65.6] 142.9 [41.9] 21.1	216.0 [63.3] 122.8 [36.0] 20.7	208.2 [61.0] 104.3 [36.0] 20.4	211.8 [62.1] 167.8 [49.2] 20.7	204.3 [59.9] 146.0 [42.8] 20.3	196.9 [57.7] 125.7 [42.8] 20.0	204.6 [59.9] 191.9 [56.2] 20.3	197.4 [57.8] 168.3 [49.3] 20.0	190.3 [55.8] 146.2 [49.3] 19.6
T U R E	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	218.2 [63.9] 140.3 [41.1] 22.2	210.5 [61.7] 120.6 [35.3] 21.8	202.9 [59.4] 102.5 [35.3] 21.4	206.1 [60.4] 165.2 [48.4] 21.8	198.8 [58.2] 143.8 [42.1] 21.5	191.6 [56.1] 123.8 [42.1] 21.1	198.9 [58.3] 189.3 [55.5] 21.5	191.9 [56.2] 166.1 [48.7] 21.1	185.0 [54.2] 144.3 [48.7] 20.7
°F [°C]	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	212.7 [62.3] 137.9 [40.4] 23.4	205.2 [60.1] 118.6 [34.7] 23.0	197.7 [57.9] 100.7 [34.7] 22.6	200.5 [58.7] 162.7 [47.7] 23.0	193.5 [56.7] 141.8 [41.5] 22.6	186.5 [54.6] 122.2 [41.5] 22.2	193.4 [56.7] 186.9 [54.8] 22.6	186.6 [54.7] 164.1 [48.1] 22.2	179.8 [52.7] 142.6 [48.1] 21.8
	120 [48.9]	Total BTUH [kW] Sens BTUH [kW] Power	207.3 [60.7] 135.5 [39.7] 24.6	200.0 [58.6] 116.6 [34.2] 24.2	192.8 [56.5] 99.2 [34.2] 23.8	195.2 [57.2] 160.5 [47.0] 24.2	188.3 [55.2] 139.9 [41.0] 23.8	181.5 [53.2] 120.7 [41.0] 23.4	188.0 [55.1] 184.6 [54.1] 23.9	181.4 [53.1] 162.2 [47.5] 23.4	174.8 [51.2] 141.1 [47.5] 23.0

DR —Depression ratio dbE—Entering air dry bulb wbE—Entering air wet bulb Total —Total capacity x 1000 BTUH Sens —Sensible capacity x 1000 BTUH Power—KW input

NOTES:

- When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 DR) x (dbE 80)].
 Data includes 25 feet [7.62 m] of recommended suction/liquid lines.

CONDENSING UNIT

SAWL-240PAZ

WITH AIR Handler

SHGL-240P

						OR AIR @ 80°F	[26.7°C] dbE (1)			
		wbE		71°F [21.7°C]			67°F [19.4°C]		63°F [17.2°C]		
	CFM [L/s]		6840 [3228]	5700 [2690]	4560 [2152]	6840 [3228]	5700 [2690]	4560 [2152]	6840 [3228]	5700 [2690]	4560 [2152]
		DR ①	.01	.07	.15	.01	.07	.15	.01	.07	.15
	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	15.4	252.6 [74.0] 138.9 [40.7] 15.2	243.4 [71.3] 117.6 [40.7] 14.9	249.6 [73.1] 186.7 [54.7] 15.1	240.9 [70.6] 162.1 [47.5] 14.8	232.1 [68.0] 139.0 [47.5] 14.5	242.5 [71.1] 211.0 [61.8] 14.7	234.0 [68.6] 184.5 [54.1] 14.4	225.5 [66.1] 159.6 [54.1] 14.2
O U T	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	255.0 [74.7] 158.3 [46.4] 16.2	246.1 [72.1] 135.9 [39.8] 16.0	237.1 [69.5] 115.1 [39.8] 15.7	242.9 [71.2] 183.2 [53.7] 15.9	234.4 [68.7] 159.1 [46.6] 15.6	225.8 [66.2] 136.5 [46.6] 15.3	235.7 [69.1] 207.3 [60.7] 15.5	227.5 [66.7] 181.4 [53.1] 15.2	219.2 [64.2] 156.9 [53.1] 14.9
D O O R	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	17.1	239.7 [70.2] 133.0 [39.0] 16.8	231.0 [67.7] 112.7 [39.0] 16.5	236.3 [69.2] 179.9 [52.7] 16.7	228.0 [66.8] 156.2 [45.8] 16.4	219.7 [64.4] 134.1 [45.8] 16.1	229.2 [67.2] 204.0 [59.8] 16.3	221.1 [64.8] 178.5 [52.3] 16.1	213.1 [62.4] 154.6 [52.3] 15.8
D R Y	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	242.0 [70.9] 151.6 [44.4] 18.0	233.5 [68.4] 130.2 [38.1] 17.7	225.1 [66.0] 110.4 [38.1] 17.4	229.9 [67.4] 176.6 [51.7] 17.6	221.8 [65.0] 153.4 [44.9] 17.3	213.8 [62.6] 131.8 [44.9] 17.0	222.8 [65.3] 200.7 [58.8] 17.3	214.9 [63.0] 175.7 [51.5] 17.0	207.1 [60.7] 152.2 [51.5] 16.7
B U L B	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	235.8 [69.1] 148.6 [43.5] 19.0	227.5 [66.7] 127.6 [37.4] 18.7	219.3 [64.3] 108.3 [37.4] 18.3	223.7 [65.5] 173.5 [50.8] 18.6	215.8 [63.2] 150.8 [44.2] 18.3	208.0 [60.9] 129.7 [44.2] 18.0	216.5 [63.4] 197.6 [57.9] 18.2	208.9 [61.2] 173.1 [50.7] 17.9	201.3 [59.0] 150.1 [50.7] 17.6
T E M	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	229.8 [67.3] 145.7 [42.7] 20.0	221.7 [65.0] 125.2 [36.7] 19.7	213.6 [62.6] 106.2 [36.7] 19.3	217.6 [63.8] 170.6 [50.0] 19.6	210.0 [61.5] 148.4 [43.5] 19.3	202.4 [59.3] 127.7 [43.5] 19.0	210.5 [61.7] 194.7 [57.0] 19.3	203.1 [59.5] 170.7 [50.0] 18.9	195.7 [57.3] 148.1 [50.0] 18.6
P E R A	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	223.9 [65.6] 142.9 [41.9] 21.1	216.0 [63.3] 122.8 [36.0] 20.7	208.2 [61.0] 104.3 [36.0] 20.4	211.8 [62.1] 167.8 [49.2] 20.7	204.3 [59.9] 146.0 [42.8] 20.3	196.9 [57.7] 125.7 [42.8] 20.0	204.6 [59.9] 191.9 [56.2] 20.3	197.4 [57.8] 168.3 [49.3] 20.0	190.3 [55.8] 146.2 [49.3] 19.6
T U R E	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	218.2 [63.9] 140.3 [41.1] 22.2	210.5 [61.7] 120.6 [35.3] 21.8	202.9 [59.4] 102.5 [35.3] 21.4	206.1 [60.4] 165.2 [48.4] 21.8	198.8 [58.2] 143.8 [42.1] 21.5	191.6 [56.1] 123.8 [42.1] 21.1	198.9 [58.3] 189.3 [55.5] 21.5	191.9 [56.2] 166.1 [48.7] 21.1	185.0 [54.2] 144.3 [48.7] 20.7
°F [°C]	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	212.7 [62.3] 137.9 [40.4] 23.4	205.2 [60.1] 118.6 [34.7] 23.0	197.7 [57.9] 100.7 [34.7] 22.6	200.5 [58.7] 162.7 [47.7] 23.0	193.5 [56.7] 141.8 [41.5] 22.6	186.5 [54.6] 122.2 [41.5] 22.2	193.4 [56.7] 186.9 [54.8] 22.6	186.6 [54.7] 164.1 [48.1] 22.2	179.8 [52.7] 142.6 [48.1] 21.8
	120 [48.9]	Total BTUH [kW] Sens BTUH [kW] Power	207.3 [60.7] 135.5 [39.7] 24.6	200.0 [58.6] 116.6 [34.2] 24.2	192.8 [56.5] 99.2 [34.2] 23.8	195.2 [57.2] 160.5 [47.0] 24.2	188.3 [55.2] 139.9 [41.0] 23.8	181.5 [53.2] 120.7 [41.0] 23.4	188.0 [55.1] 184.6 [54.1] 23.9	181.4 [53.1] 162.2 [47.5] 23.4	174.8 [51.2] 141.1 [47.5] 23.0

DR —Depression ratio dbE —Entering air dry bulb wbE—Entering air wet bulb

NOTES:

Total —Total capacity x 1000 BTUH Sens —Sensible capacity x 1000 BTUH

Power—KW input

When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 – DR) x (dbE – 80)].
 Data includes 25 feet [7.62 m] of recommended suction/liquid lines.

CONDENSING UNIT

 $\begin{array}{ccc} \text{SAWL-240VAZ} & \tiny{\tiny{\tiny{\tiny{COOLING}}\\\tiny{\tiny{COIL}}}} & \text{SHGL-240N} \end{array}$

				EN	ITERING INDOC	OR AIR @ 80°F	[26.7°C] dbE (1)			
		wbE		71°F [21.7°C]		67°F [19.4°C] 63°F [17.2°C]					
		FM [L/s]	8280 [3908]	6900 [3257]	5520 [2605]	8280 [3908]	6900 [3257]	5520 [2605]	8280 [3908]	6900 [3257]	5520 [2605]
	DR ①		.03	.09	.16	.03	.09	.16	.03	.09	.16
	75	Total BTUH [kW]	304.3 [89.2]	293.6 [86.0]	282.9 [82.9]	291.0 [85.3]	280.8 [82.3]	270.6 [79.3]	283.6 [83.1]	273.7 [80.2]	263.7 [77.3]
	[23.9]	Sens BTUH [kW] Power	188.7 [55.3] 18.2	161.9 [47.4] 17.9	137.1 [47.4] 17.6	219.3 [64.3] 17.8	190.4 [55.8] 17.5	163.4 [55.8] 17.2	250.4 [73.4] 17.4	219.1 [64.2] 17.1	189.6 [64.2] 16.8
	80	Total BTUH [kW]	297.3 [87.1]	286.8 [84.0]	276.4 [81.0]	284.0 [83.2]	274.0 [80.3]	264.1 [77.4]	276.6 [81.0]	266.9 [78.2]	257.2 [75.4]
O U	[26.7]	Sens BTUH [kW]	185.0 [54.2]	158.7 [46.5]	134.5 [46.5]	215.6 [63.2]	187.2 [54.8]	160.8 [54.8]	246.7 [72.3]	215.9 [63.3]	187.0 [63.3]
Ť	[20.7]	Power	19.2	18.9	18.5	18.8	18.5	18.1	18.4	18.0	17.7
DO	85	Total BTUH [kW]	290.1 [85.0]	279.9 [82.0]	269.7 [79.0]	276.8 [81.1]	267.1 [78.3]	257.4 [75.4]	269.4 [78.9]	260.0 [76.2]	250.5 [73.4]
O R	[29.4]	Sens BTUH [kW] Power	181.3 [53.1] 20.3	155.6 [45.6] 19.9	131.8 [45.6] 19.6	211.9 [62.1] 19.9	184.1 [53.9] 19.5	158.1 [53.9] 19.2	242.9 [71.2] 19.4	212.8 [62.3] 19.1	184.3 [62.3] 18.8
D	90	Total BTUH [kW]	282.8 [82.9]	272.8 [79.9]	262.9 [77.0]	269.5 [79.0]	260.1 [76.2]	250.6 [73.4]	262.1 [76.8]	252.9 [74.1]	243.7 [71.4]
R	[32.2]	Sens BTUH [kW]	177.6 [52.0]	152.4 [44.7]	129.2 [44.7]	208.2 [61.0]	181.0 [53.0]	155.5 [53.0]	239.2 [70.1]	209.6 [61.4]	181.7 [61.4]
Y		Power	21.4	21.0	20.7	21.0	20.6	20.3	20.6	20.2	19.9
B	95	Total BTUH [kW] Sens BTUH [kW]	275.3 [80.7] 173.8 [50.9]	265.6 [77.8]	255.9 [75.0]	262.0 [76.8]	252.8 [74.1]	243.6 [71.4]	254.6 [74.6] 235.5 [69.0]	245.7 [72.0]	236.8 [69.4]
Ĺ	[35]	Power	22.6	149.3 [43.7] 22.2	126.6 [43.7] 21.8	204.5 [59.9] 22.2	177.8 [52.1] 21.8	152.9 [52.1] 21.4	233.3 [69.0]	206.5 [60.5] 21.4	179.2 [60.5] 21.0
В	400	Total BTUH [kW]	267.6 [78.4]	258.2 [75.7]	248.8 [72.9]	254.4 [74.5]	245.4 [71.9]	236.5 [69.3]	247.0 [72.4]	238.3 [69.8]	229.6 [67.3]
Ī	100 [37.8]	Sens BTUH [kW]	170.1 [49.8]	146.2 [42.8]	124.0 [42.8]	200.8 [58.8]	174.7 [51.2]	150.3 [51.2]	231.8 [67.9]	203.3 [59.6]	176.4 [59.6]
E M	[07.0]	Power	23.9	23.5	23.1	23.5	23.1	22.6	23.0	22.6	22.2
Р	105	Total BTUH [kW]	259.8 [76.1]	250.7 [73.5]	241.6 [70.8]	246.6 [72.3]	237.9 [69.7]	229.3 [67.2]	239.2 [70.1]	230.8 [67.6]	222.4 [65.2]
E R	[40.6]	Sens BTUH [kW] Power	166.4 [48.8] 25.2	143.1 [41.9] 24.8	121.5 [41.9] 24.3	197.1 [57.7] 24.8	171.6 [50.3] 24.4	147.8 [50.3] 23.9	228.2 [66.9] 24.4	200.3 [58.7]	174.0 [58.7] 23.5
A T		Total BTUH [kW]	251.8 [73.8]	243.0 [71.2]	234.2 [68.6]	238.6 [69.9]	230.2 [67.4]	221.8 [65.0]	231.2 [67.7]	223.1 [65.4]	215.0 [63.0]
Ú	110	Sens BTUH [kW]	162.7 [47.7]	140.0 [41.0]	119.0 [41.0]	193.4 [56.7]	168.5 [49.4]	145.2 [49.4]	224.5 [65.8]	197.2 [57.8]	171.4 [57.8]
R	[43.3]	Power	26.6	26.2	25.7	26.2	25.7	25.3	25.8	25.3	24.9
l ∘F	115	Total BTUH [kW]	243.7 [71.4]	235.1 [68.9]	226.6 [66.4]	230.5 [67.5]	222.4 [65.2]	214.3 [62.8]	223.1 [65.4]	215.2 [63.1]	207.4 [60.8]
[°C]	[46.1]	Sens BTUH [kW]	159.0 [46.6]	136.8 [40.1]	116.3 [40.1]	189.7 [55.6]	165.4 [48.5]	142.6 [48.5]	220.7 [64.7]	194.0 [56.8]	168.8 [56.8]
l` '		Power	28.1	27.6	27.1	27.7	27.2	26.7	27.2	26.8	26.3
	120	Total BTUH [kW]	235.4 [69.0]	227.1 [66.5]	218.9 [64.1]	222.2 [65.1]	214.4 [62.8]	206.6 [60.5]	214.8 [62.9]	207.2 [60.7]	199.7 [58.5]
	[48.9]	Sens BTUH [kW] Power	155.3 [45.5] 29.6	133.7 [39.2] 29.1	113.8 [39.2] 28.6	186.0 [54.5] 29.2	162.3 [47.6] 28.7	140.1 [47.6] 28.2	214.8 [62.9] 28.8	190.9 [55.9] 28.3	166.3 [55.9] 27.8
									20.0		27.0

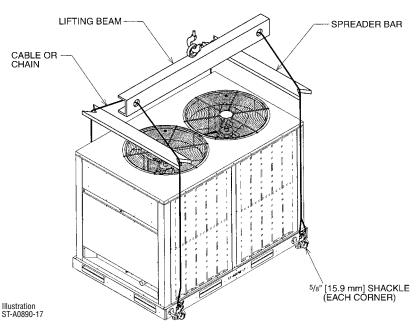
DR —Depression ratio dbE—Entering air dry bulb wbE—Entering air wet bulb Total —Total capacity x 1000 BTUH Sens —Sensible capacity x 1000 BTUH Power—KW input

NOTES:

- When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 DR) x (dbE 80)].
 Data includes 25 feet [7.62 m] of recommended suction/liquid lines.

RIGGING ROOFTOP INSTALLATION

If rooftop installation is required, make certain that the building construction is adequate for the weight of the unit. (Refer to physical data chart.) Before placing the unit on the roof, make certain that the nylon rigging slings are of sufficient length to maintain equilibrium of the unit when lifting. Under no circumstances should the unit be lifted by only one corner for rooftop installation.

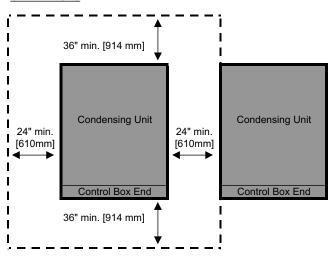


GENERAL INSTALLATION

The condensing unit should be installed outdoors. It should be located as near as possible to the evaporator section to keep connecting refrigerant tubing lengths to a minimum. The unit must be installed to allow a free air flow to the condenser coils.

If several units are installed adjacent to each other, care must be taken to avoid recirculation of air from one condenser to another. In all installations, adequate space must be provided for installation and servicing.

CLEARANCES



SLAB INSTALLATION

Condensing units should be set on a solid level foundation. When installed at ground level, the unit should be placed on a cement slab. If the pad is formed at the installation site, do not pour the pad tight against the structure, otherwise vibration will be transmitted from the unit through the pad.

The unit must not be connected to any duct work. Do not locate unit under a roof drip; if necessary, install gutters, etc., to prevent water run-off from hitting the unit. To prevent air recirculation, it is recommended that the unit not be installed under an overhang, but if necessary allow a minimum of 60 inches [1524 mm] above the unit for air discharge.

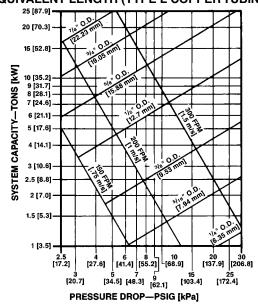
TYPICAL REFRIGERANT PIPING RECOMMENDATIONS

General Notes:

- 1. Vertical risers not to exceed 60 feet [18.29 mm].
- 2. Locate the condensing unit and evaporator(s) as close together as possible to minimize piping runs.
- 3. Condensing units are shipped with a nitrogen holding charge. Evacuate condensing unit before charging with refrigerant.

EQUIVALENT LENGTH (FT.) [m] OF STRAIGHT TYPE "L" TUBING FOR NON-FERROUS VALVES AND FITTINGS (BRAZED)								
TUBE SIZE (IN.) [mm] O.D.	SOLENOID VALVE	ANGLE VALVE	SHORT Radius Ell	LONG Radius Ell	TEE Line Flow	TEE Branch Flow		
1/2 [12.7]	12 [3.7]	8.3 [2.5]	1.6 [0.5]	1.0 [0.3]	1.0 [0.3]	3.1 [0.9]		
5/8 [15.88]	15 [4.6]	10.4 [3.2]	1.9 [0.6]	1.2 [0.4]	1.2 [0.4]	3.6 [1.1]		
3/4 [19.05]	18 [5.5]	12.5 [3.8]	2.1 [0.7]	1.4 [0.4]	1.4 [0.4]	4.2 [1.3]		
7/8 [22.23]	21 [6.4]	14.6 [4.4]	2.4 [0.7]	1.6 [0.5]	1.6 [0.5]	4.8 [1.5]		
11/8 [28.58]		18.8 [5.7]	3.0 [0.9]	2.0 [0.6]	2.0 [0.6]	6.0 [1.8]		
13/8 [34.93]		22.9 [7.0]	3.6 [1.1]	2.4 [0.7]	2.4 [0.7]	7.2 [2.2]		
15/8 [41.28]		27.1 [8.3]	4.2 [1.3]	2.8 [0.8]	2.8 [0.8]	8.4 [2.6]		
21/8 [53.98]		35.4 [10.8]	5.3 [1.6]	3.5 [1.1]	3.5 [1.1]	10.7 [3.3]		

LIQUID LINE PRESSURE DROP PER 100 FEET [30.48 m]
FOLIVALENT LENGTH (TYPE L COPPER TURING)



NOTES:

- When evaporator coil is above condenser, the pressure drop due to vertical lift (.5 PSIG per foot of lift) [1.05 kPa per meter] must be added to the pressure drop derived from this curve.
- Size liquid line for no more than 10°F [5.6°C] loss (approximately 50 PSIG [206.8 kPa] total pressure drop).
- Do not oversize liquid line. Oversized liquid lines add significantly to the amount of refrigerant required to charge the system.
- The maximum recommended velocity with solenoid valves or other quick closing devices in the liquid line is 300 FPM [1.5 m/s].

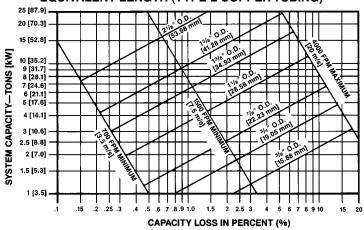
[] Designates Metric Conversions

RECOMMENDED VAPOR AND LIQUID LINE SIZES TO VARIOUS LENGTH OF RUN					
EQUIVALENT LENGTH TO	LIQUID LINE O.D. (IN.) [mm]		VAPOR LINE O.D. (IN.) [mm]		
EVAPORATOR	COOLING	COOLING MODEL COOLING N		MODEL	
(FT.) [m]	120	125	120	125	
1-15 [1-4.57]	5/8 [15.9]	5/8 [15.9]	13/8 [34.9]	13/8 [34.9]	
16-50 [4.88-15.24]	5/8 [15.9]	5/8 [15.9]	13/8 [34.9]	13/8 [34.9]	
51-100 [15.54-30.48]	5/8 [15.9]	5/8 [15.9]	13/8 [34.9]	13/8 [34.9]	
101-150 [30.78-45.72]	5/8 [15.9]	5/8 [15.9]	15/8 [41.3]	15/8 [41.3]	

RECOMMENDED VAPOR AND LIQUID LINE SIZES TO VARIOUS LENGTH OF RUN						
EQUIVALENT LENGTH TO	LIQUID LINE O.D. (IN.) [mm]		VAPOR LINE O.D. (IN.) [mm]			
EVAPORATOR	CO	OLING MOI	MODEL COOLING MODEL		EL	
(FT.) [m]	150	180	240	150	180	240
1-15 [1-4.57]	5/8 [15.9]	5/8 [15.9]	7/8 [22.2]	13/8 [34.9]	15/8 [41.3]	15/8 [41.3]
16-50 [4.88-15.24]	5/8 [15.9]	5/8 [15.9]	7/8 [22.2]	15/8 [41.3]	15/8 [41.3]	15/8 [41.3]
51-100 [15.54-30.48]	5/8 [15.9]	3/4 [19.1]	7/8 [22.2]	15/8 [41.3]	15/8 [41.3]	21/8 [53.9]
101-150 [30.78-45.72]	5/8 [15.9]	3/4 [19.1]	7/8 [22.2]	21/8 [53.9]	21/8 [53.9]	21/8 [53.9]

NOTE: Runs between condenser and evaporator not to exceed an equivalent length greater than 150 [45.7 m] feet.

VAPOR LINE SYSTEM CAPACITY LOSS IN PERCENT PER 100 FEET [30.48 m] EQUIVALENT LENGTH (TYPE L COPPER TUBING)



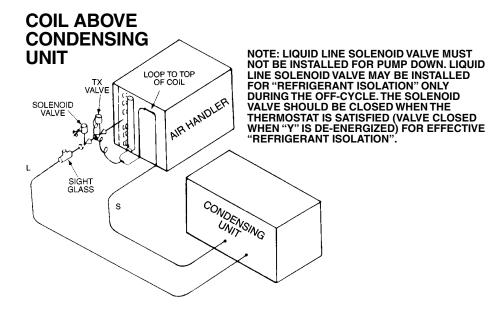
NOTES:

- 1) The minimum velocity line (700 fpm) [3.6 m/s] is recommended.
- 2) For vapor pressure drop (PSIG) [6.9 kPa], multiply percent (%) loss by 1.18.
- Size vapor lines for no more than 2°F [1.1°C] loss which corresponds to approximately 5 PSIG [20.7 kPa] pressure drop.
- 4) Pitch all horizontal vapor lines downward in the direction of flow (1/2" [12.7 mm] to10' [3.0 m] run).

WARNING

Do not use oxygen to purge lines or pressure system for leak test. Oxygen reacts violently with oil, which can cause an explosion resulting in severe personal injury or death.

TYPICAL REFRIGERANT PIPING RECOMMENDATIONS (cont.)



REQUIRED OZS. [g] R410A CHARGE PER FT. [m] OF TUBING

TUBE SIZE O.D. (IN.) [mm]	LIQUID (OZ.) [g]	VAPOR (OZ.) [g]
1/2 [12.7]	1.06 [30.0]	.04 [1.13]
5/8 [15.88]	1.65 [46.7]	.07 [1.98]
3/4 [19.05]	2.46 [69.7]	.10 [2.83]
7/8 [22.23]	3.28 [92.9]	.13 [3.68]
11/8 [28.58]		.22 [6.23]
13/8 [34.93]		.34 [9.63]
15/8 [41.28]		.48 [13.60]
21/8 [53.98]		.84 [23.81]

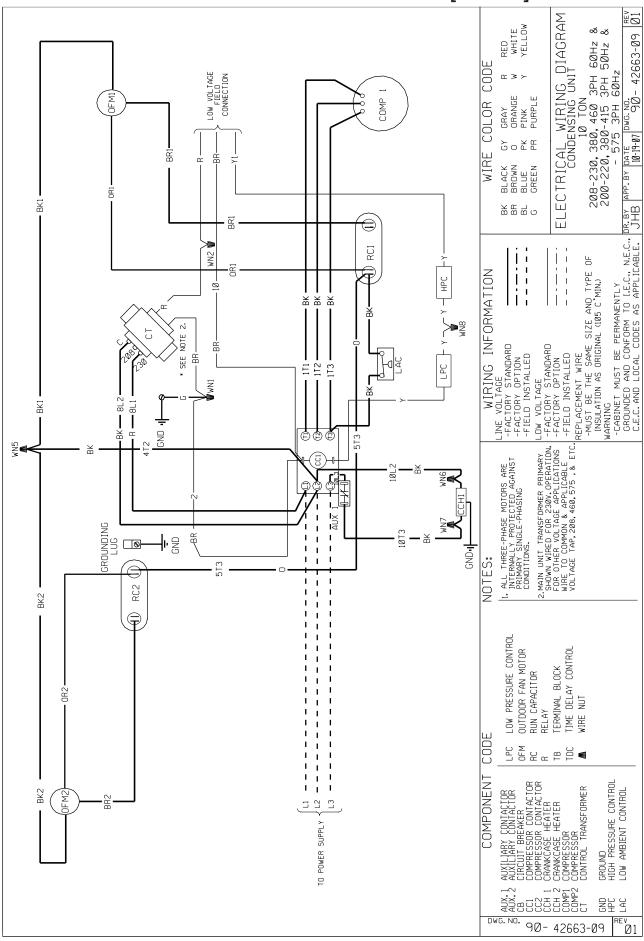
Quantities based on 110°F liquid and 45°F vapor.

BASIC SYSTEM CHARGE*

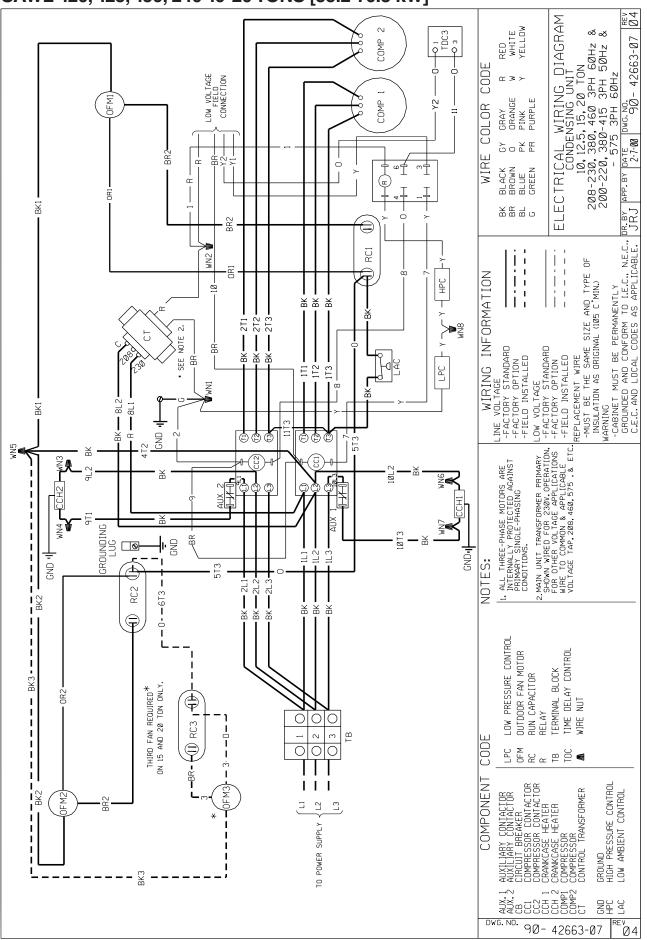
SAWL-120	SAWL-125	SAWL-150	SAWL-180	SAWL-240
339 oz.	300 oz.	378 oz.	506 oz.	655 oz.
[9610 g]	[8505 g]	[10716 g]	[14345 g]	[18569 g]

^{*}System with 0 feet [m] of tubing.

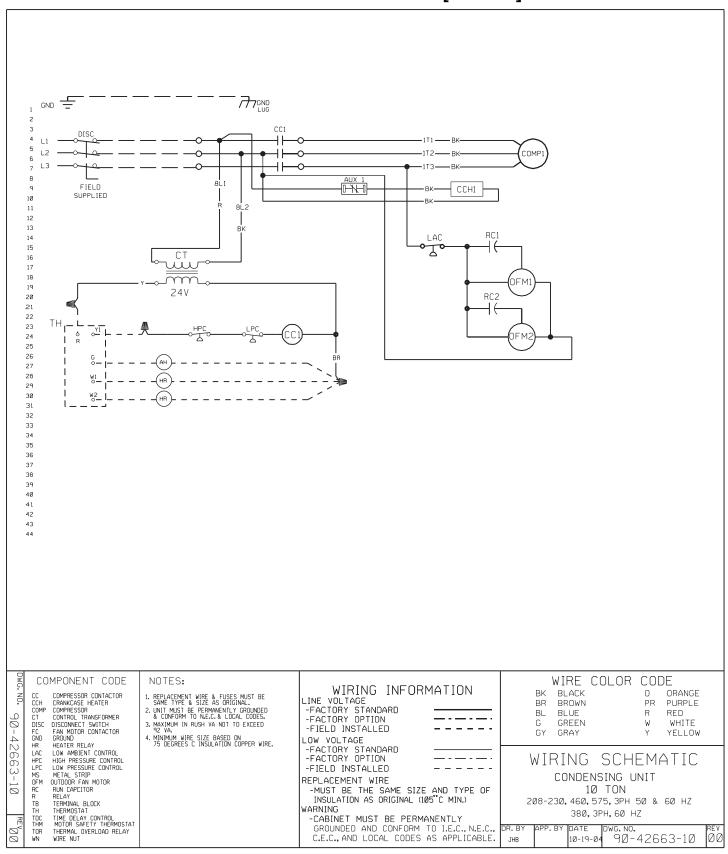
TYPICAL WIRING SCHEMATIC—SAWL-120 10 TONS [35.2 kW]



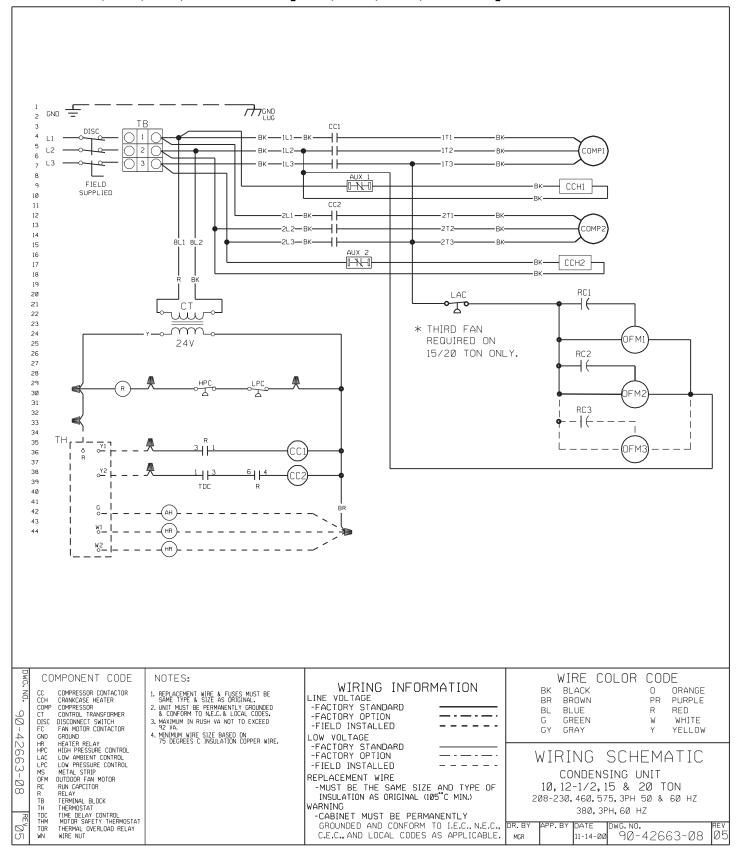
TYPICAL WIRING SCHEMATIC— SAWL-120, 125, 150, 240 10-20 TONS [35.2-70.3 kW]



TYPICAL WIRING SCHEMATIC—SAWL-120 10 TON [35.2 kW]



TYPICAL WIRING SCHEMATIC— SAWL-125, 150, 180, 240 10 TON [35.2, 44.0, 52.8, 70.3 kW]



SEQUENCE OF OPERATION SAWL-120, Single Stage

- When the room thermostat is set on "Cool", "Fan Auto", and the temperature is higher than the thermostat setting, the thermostat "Y1" circuit closes and energizes the compressor contactor (CC) through the closed contacts of the high pressure and low pressure controls. Power to the crankcase heater (CCH) will be de-energized by the auxiliary contacts (AUX-1)
- Simultaneously, the "G" circuit provides power to the indoor blower motor circuit and starts indoor air circulation through the evaporator coil.
- 3. When the discharge pressure increases to 450 psig, the contacts on the low ambient control (LAC) will allow supply power to start the outdoor fan motors (ODF) which begin to pull air through the condenser coils.
- 4. The system will continue cooling operation, as long as the room thermostat "Y1" circuit and all safety device contacts are closed. The low ambient control (LAC) will open and close, allowing the outdoor fans to maintain discharge pressure between 250 and 450 psig.
- 5. When the thermostat is satisfied, the "Y1" circuit will open and de-energize the compressor contactor (CC), stopping compressor operation and closing the auxiliary contacts (AUX-1), which energizes the crankcase heater (CCH).
- 6. The thermostat "G" circuit will stop blower operation.

SEQUENCE OF OPERATION SAWL-125, 150, 180, 240, Two Stage

- When the room thermostat is set on "Cool", "Fan Auto", and the temperature is higher than the thermostat setting, the thermostat "Y1" circuit closes and energizes the number one compressor contactor (CC1) through the closed cooling relay (R) contacts. Power to the crankcase heater (CCH1) will be de-energized by the auxiliary contacts (AUX-1).
- Simultaneously, the "G" circuit provides power to the indoor blower motor circuit and starts indoor air circulation through the evaporator coil.
- 3. When the discharge pressure increases to 450 psig, the contacts on the low ambient control (LAC) will allow supply power to start the outdoor fan motors (ODF) which begin to pull air through the condenser coils. The system is now in first stage cooling, operating at near fifty percent of full load capacity.
- 4. If the temperature at the thermostat continues to increase, the thermostat "Y2" circuit closes and after a 30 second delay, power passes through the time delay control (TDC) and energizes the number two compressor contactor (CC2) through the second set of closed cooling relay (R) contacts. Power to the crankcase heater (CCH2) will be de-energized by the auxiliary contacts (AUX-2)

- 5. The system will continue cooling at maximum capacity, as long as the room thermostat is demanding full load and all safety device contacts are closed. The low ambient control (LAC) will open and close, allowing the outdoor fans to maintain discharge pressure between 250 and 450 psig.
- As the temperature at the thermostat drops enough to satisfy "Y2", the circuit will open and de-energize the compressor contactor (CC2), stopping compressor operation and closing the auxiliary contacts (AUX-2), which energizes the crankcase heater (CCH2).
- When continued cooling satisfies the "Y1" circuit, it will open and de-energize the compressor contactor (CC1), stopping compressor operation and closing the auxiliary contacts (AUX-1), which energizes the crankcase heater (CCH1).
- 8. The thermostat "G" circuit will stop blower operation.

SAMPLE SPECIFICATIONS

Furnish and install as shown on the drawing Rheem Mode air cooled condensing unit suitable for out
door application.
COMPRESSOR—Unit shall have scroll compressor(s). It shat be externally mounted on rubber grommets to reduce vibration transmission and noise to surrounding area. Maximum power input shall not be more than at conditions specified
LOW AMBIENT CONTROL—All units shall have standard head pressure controls that cycle the condenser fan motors to

LOW AMBIENT CONTROL—All units shall have standard head pressure controls that cycle the condenser fan motors to maintain condensing pressures for operation down to 0°F [–17.8°C] ambient (12.5 and 15 ton [44.0 and 52.8 kW] models only.)

CAPACITY—Capacity shall be ______ BTU/H when operating at _____ °F [°C] saturated suction temperature.

MOTORS & FANS—Each unit shall have 1075 RPM sleeve bearing, permanently lubricated motor(s) fixed with direct-drive, dual bladed fan(s). Motor(s) shall be equipped with inherent overload protection. Motor(s) & fan(s) shall be mounted on top panel for easy access. Condenser air shall discharge vertically.

COILS—Coils shall be fabricated of 3/8" [9.53 mm] O.D. seamless copper tubing and aluminum fins with die-formed collars mechanically bonded to tubes arranged in a staggered pattern. All coils shall be submitted to a pressure test after fabrication and dehydrated. Units shall be shipped with a dry nitrogen holding charge. Airflow shall be drawn through design providing uniform air distribution across the coil surface.

CASINGS—Casings shall make unit suitable for outdoor installation. Casing, base pan and framework shall be manufactured of galvanized sheet metal subjected to multistage cleaning, primed, and finished with a durable powder coat paint, capable of withstanding a 1000-HR salt spray test per ASTM B 117. Units shall have stamped louver panels offering 100% protection of the condenser coil. Openings shall be provided for power. Dimensions of entire assembly shall be not more than _____ inches [mm] high, _____ inches [mm] long and _____ inches [mm] wide.

REFRIGERATION CIRCUIT—Shall include the compressor, the condenser coils, all internal refrigerant piping and liquid and suction line service valves. Refrigerant stubs shall be extended through the cabinet for external field connection without affecting accessibility to compressor compartment.

CONTROL PANEL—The panel shall be designed for single power source to the compressor and fan motor(s) and shall include fan cycling control, and compressor contactor.

SAFETY CONTROLS—Manual reset high pressure and automatic reset low pressure control shall be provided.

FACTORY TESTING—All units shall be test run at the factory.

NOTES

NOTES

Before proceeding with installation, refer to installation instructions packaged with each model, as well as complying with all Federal, State, Provincial, and Local codes, regulations, and practices.

Rheem Heating, Cooling and Water Heating

P.O. Box 17010, Fort Smith, AR 72917

