



The new degree of comfort.™

High Efficiency SAGL-RHLB Series

Low height Air handler with Top Discharge
Condensing unit

featuring **R410A**
earth friendly refrigerant



CONDENSING UNITS - SAGL

Features

- Louvered steel cabinet painted and rated at 1008 hours salt spray per ASTM B117.
- Easily accessible control box.
- Condenser coils constructed with Copper tubing and enhanced aluminum fin.
- Exclusive Combination Grille/Motor mount secures the motor to the underside of the discharge grille for quiet fan operation.
- Bi-Directional Filter Driver (Shipped - not installed).
- Low Pressure Control (RXAC -A07).
- High Pressure Control (RAB-A07).

Applications

Outdoor condensing unit designed for ground level or rooftop installation. These units offer comfort and dependability for single, multi-family and light commercial applications.

Accessories (Optional)

- Low Ambient Control (RXAC-A07).
- Crankcase heater.
- Sound enclosure.

AIR HANDLERS - RHLB

Features

- Low height design for ease of installation. Maximum height 16".
- Polyester powder coated. 1008 Hrs salt spray tested as per ASTM-B117.
- Lower sound levels with enhanced blower housing design.
- 5 mm thick irradiated grade fire retardant EPE insulation.
- Inbuilt antifreeze protection.
- Powder coated drain pan. 1008 Hrs salt spray tested as per ASTM-B117.
- Inbuilt Microprocessor based controller.
- Orifice Valve





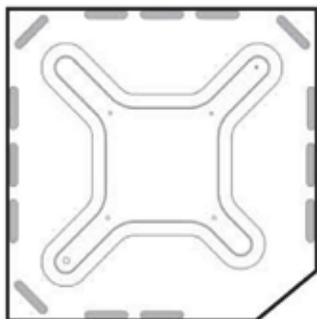
The new degree of comfort.™



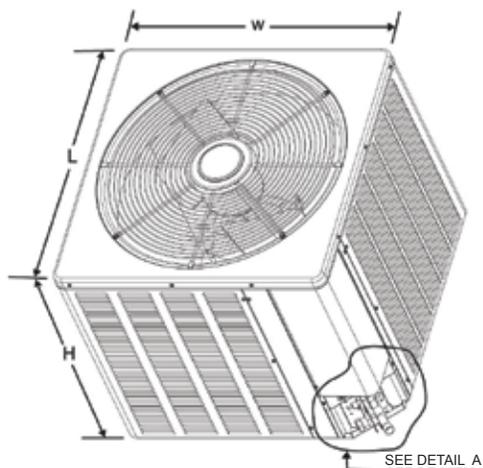
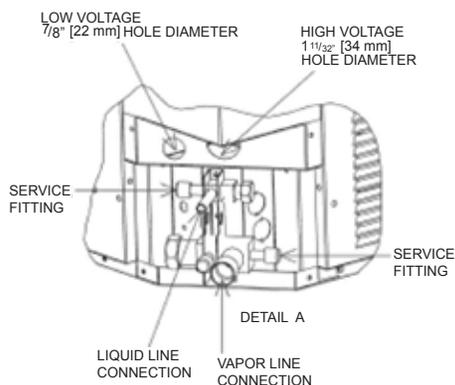
ENGINEERING FEATURES



All controls and compressor are accessible for servicing by removal of its service panels.



DO NOT OBSTRUCT DRAIN SLOTS (SHADED).



Condensing Units

1. Scroll compressor is hermetically sealed and incorporates internal high temperature motor overload protection and durable insulation on the motor windings. It is internally spring mounted and externally mounted on rubber grommets to reduce vibration and noise.
2. Compressors have an internal pressure-relief assembly to protect against excessive pressure differential.
3. All refrigerant connections are on the exterior of the units, located close to the ground for neat appearing installations.
4. Cabinet is constructed of painted galvanized steel. The full wraparound louvered grille protects the coil from damage.
5. The control box is located on the top side corner of the cabinet providing for easy access through a service panel.
6. Service valves are standard on all models.
7. Power and control wiring are kept separate.
8. Every unit is factory charged and tested.
9. Drawn base pan for extra corrosion resistance and sound reduction.
10. Time delay relay is standard feature.

Field Installed Accessories (Optional)

- Low Ambient Switch - Cycles outdoor fan to maintain adequate condensing pressures assuring liquid refrigerant flow to the coil. Allows indoor cooling with outdoor temperatures down to 0°F.(Model No. RXAD-A04) It is recommended that this control be installed in units to be operated at outdoor ambient temperatures under 70 F.
- Hard Start Kits - Available through the Parts Department.
- Crankcase Heater - Available through the Parts Department.

Condensing Unit Dimension & Weight

Model No. SAGL/ SAGN	Unit Dimensions			Weight	
	Width "W" Inches(mm)	Length "L" Inches(mm)	Height "H" Inches(mm)	Net Lbs. [kg]	Shipping Lbs. [kg]
018	23 5/8 [600]	23 5/8 [600]	24 1/4 [616]	126 [57.2]	134 [60.8]
024	23 5/8 [600]	23 5/8 [600]	24 1/4 [616]	127 [57.6]	135 [61.2]
030	27 5/8 [702]	27 5/8 [702]	24 1/4 [616]	144 [65.3]	154 [69.9]
036	31 5/8 [803]	31 5/8 [803]	27 15/16 [710]	166 [75.3]	178 [80.7]
042	31 5/8 [803]	31 5/8 [803]	27 15/16 [710]	194 [88]	206 [93.4]
048	31 5/8 [803]	31 5/8 [803]	35 15/16 [913]	222 [100.7]	233 [105]
061	31 5/8 [803]	31 5/8 [803]	35 15/16 [913]	227 [103]	238 [108]



ENGINEERING FEATURES

RHLB Air Handling Units

- Attractive Powder coated cabinet.
- Rugged steel body construction, designed for added strength and rigidity.
- Self-centering blower mounting arrangement.
- Multi Speed Internally protected ultra-high efficiency, low RPM motors.
- Orifice valve.
- Metallic blower and blower housing as standard feature.
- Brass distributor for uniform distribution of refrigerant.
- Antifreeze protection on coils integrated with unit controller. (Increased compressor life)
- Easily removable drain pan for cleaning purpose.
- Rolled and rigid brackets for unit suspensions.
- Easily removable fan deck assembly for quick service.
- All field accessible components on one side of unit.
- Supply duct flanges as standard on all units.
- Easily removable filter for quick cleaning operation.
- Micro Processor based unit controller
- No need of external thermostat
- High Pressure protection
- Low Pressure Protection
- Built in Time Delay for compressor
- Over trip lockout

ELECTRICAL & OTHER PERFORMANCE DATA OF OUTDOOR UNITS

Model Number	Phase-Hertz Voltage	Comp RLA	Comp LRA	Motor FLA	MCA	Fuse Sizes		Outdoor coil area Sq.Ft (M ²)	Rows CFM (L/S)	R410A Charge Weight (Oz)	Sound Rating db(A)
						Min	Max				
SAGL -018TA	1-50-220/240	7.9	44	0.6	12	15	15	11.06(1.03)	1 1573 (742)	61	70
SAGL -024TA	1-50-220/240	10	52	0.6	17	30	30	11.06(1.03)	1 1573 (742)	70	70
SAGL -030TA	1-50-220/240	12.5	60	0.8	19	30	30	13.72(1.27)	1 2362 (1114)	78	69
SAGL -036TA	1-50-220/240	15	67	0.8	23	30	30	16.39(1.52)	1 2511 (1184)	95	71
SAGL -042TA	1-50-220/240	17.9	87	1.2	29	35	35	16.39(1.52)	1 2880(1358)	104	72
SAGL -048NA	3-50-380/415	6.9	41	1	12	15	15	21.85(2.03)	1 2975(1403)	142	72
SAGN-048NA	3-50-380/415	6.9	41	1	12	15	15	21.85(2.03)	1 3295 (1554)	142	72
SAGL-061NA	3-50-380/415	8.5	67.1	0.9	14	20	20	21.85(2.03)	1 2975(1403)	172	74



AIR FLOW PERFORMANCE DATA

RHLB-TN Series Air Handlers

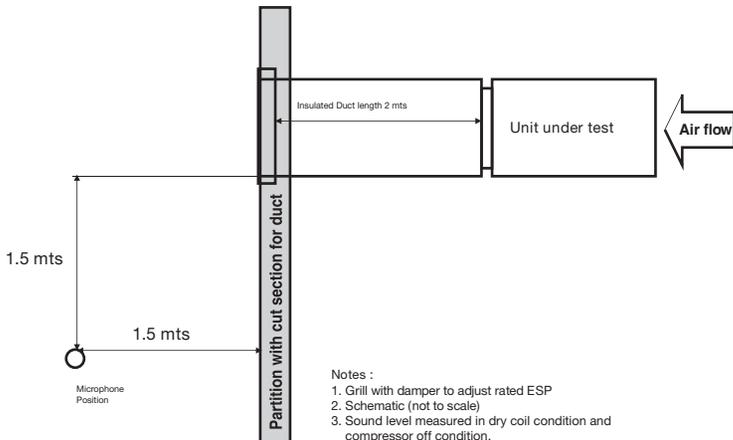
AIR FLOW PERFORMANCE DATA -RHLB-TN 50Hz

MODEL	BLOWER MOTOR SPEED	PERFORMANCE	CFM @ EXTERNAL STATIC PRESSURE (Inches of Water)					
			0	0.1	0.15	0.2	0.3	0.4
RHLB-018TN	5	CFM	460	350	300	165	-	-
		POWER	50	45	40	35	-	-
	4	CFM	610	515	345	200	-	-
		POWER	55	50	45	40	-	-
	3	CFM	585	610	400	250	-	-
		POWER	65	60	50	45	-	-
2	CFM	690	715	540	365	-	-	
	POWER	80	70	65	60	-	-	
1	CFM	825	715	635	415	-	-	
	POWER	95	85	80	70	-	-	
RHLB-024TN	3	CFM	890	745	645	425	-	-
		POWER	90	80	70	60	-	-
	2	CFM	925	770	665	450	-	-
		POWER	95	85	75	65	-	-
	1	CFM	955	790	685	470	-	-
		POWER	100	90	80	70	-	-
RHLB-030TN	5	CFM	850	750	700	630	460	-
		POWER	120	115	110	105	100	-
	4	CFM	890	795	745	695	520	-
		POWER	130	125	120	115	110	-
	3	CFM	930	840	795	740	585	-
		POWER	140	135	130	125	120	-
2	CFM	980	890	845	790	640	-	
	POWER	150	145	140	135	130	-	
1	CFM	1030	945	900	845	690	-	
	POWER	170	160	155	150	140	-	
RHLB-036TN	5	CFM	1360	1240	1170	1075	655	-
		POWER	200	170	160	140	100	-
	4	CFM	1440	1300	1225	1125	720	-
		POWER	210	180	170	150	110	-
	3	CFM	1540	1360	1275	1170	750	-
		POWER	220	190	180	160	120	-
2	CFM	1600	1430	1330	1225	845	-	
	POWER	230	200	190	180	140	-	
1	CFM	1680	1490	1400	1290	890	-	
	POWER	275	260	250	240	210	-	

RHLB-042TN	5	CFM	1290	1225	1145	1045	615	-
		POWER	190	160	150	140	95	-
	4	CFM	1420	1280	1200	1100	635	-
		POWER	200	180	165	150	100	-
	3	CFM	1485	1330	1200	1145	705	-
		POWER	210	185	170	160	120	-
2	CFM	1560	1385	1250	1185	720	-	
	POWER	220	190	180	170	130	-	
1	CFM	1635	1455	1355	1235	785	-	
	POWER	270	250	240	230	190	-	
RHLB-048TN	5	CFM	1200	1150	1100	1040	740	380
		POWER	230	210	200	180	130	100
	4	CFM	1310	1260	1180	1100	880	470
		POWER	250	240	230	200	150	120
	3	CFM	1520	1460	1390	1260	890	480
		POWER	290	250	230	200	150	120
2	CFM	1810	1660	1560	1400	980	480	
	POWER	310	270	250	230	180	140	
1	CFM	2025	1810	1700	1560	1200	540	
	POWER	360	330	310	290	260	210	
RHLB-054TN1	5	CFM	1730	1690	1630	1560	1180	465
		POWER	340	315	300	285	235	165
	4	CFM	1965	1830	1740	1640	1200	475
		POWER	365	325	305	295	245	180
	3	CFM	2130	1950	1835	1720	1265	490
		POWER	395	355	335	320	275	205
2	CFM	2285	2065	1935	1825	1370	530	
	POWER	435	400	385	365	325	270	
1	CFM	2390	2155	2025	1890	1435	600	
	POWER	520	500	480	465	435	390	
RHLB-054TN	5	CFM	1730	1690	1630	1560	1180	465
		POWER	340	315	300	285	235	165
	4	CFM	1965	1830	1740	1640	1200	475
		POWER	365	325	305	295	245	180
	3	CFM	2130	1950	1835	1720	1265	490
		POWER	395	355	335	320	275	205
2	CFM	2285	2065	1935	1825	1370	530	
	POWER	435	400	385	365	325	270	
1	CFM	2390	2155	2025	1890	1435	600	
	POWER	520	500	480	465	435	390	

* Airflow at dry coil condition
 Highlighted speeds are connected from factory

Sound Testing Arrangement



SOUND LEVEL DATA

Noise level testing of RHLB-TN Series IDU-50Hz

Model	Speed	1/1 Octave Sound Pressure (dB, ref 20µPa)								Overall dB	Overall dBA	Noise Criteria
		63 Hz	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	8 KHz			
RHLB-018TN	High	47	44.7	41.3	38.2	36.2	30.9	23	15.4	56.3	40.7	40
	Medium	44.6	42.8	40.5	39.6	35.5	29.7	21.4	15.2	56.1	40.6	35
	Low	46.7	40.6	39.9	37	34	27.5	19.2	14.6	55.4	38.8	35
RHLB-024TN	High	47.6	49.9	43	41.3	34.7	22.9	17	14.3	55.7	41.3	40
	Medium	49.7	49.2	42.5	40.8	34.3	24.9	18.7	14.3	55.3	41.3	40
	Low	48.9	49.1	41.6	40.2	33.9	23.9	18	14.4	55.2	40.8	35
RHLB-030TN	High	51.1	50.9	52.2	49.3	39.8	27.9	21.2	16.5	60.1	48.8	45
	Medium	50.8	50.8	51	47.5	38.9	30.6	23.6	15.9	58.8	47.5	45
	Low	50.6	50.1	50	46.5	37.9	29.2	22	15.5	58.6	46.5	40
RHLB-036TN	High	51.3	56.4	50.7	45	41.7	34.4	29.6	20.4	60.1	47.9	40
	Medium	51.2	55.2	49.9	44.5	41	33.6	28.7	19.7	59.7	47.1	40
	Low	50.6	53.5	49	43.9	40.5	32.9	27.8	19.1	58.6	46.3	40
RHLB-042TN	High	50.4	53.5	49.2	44.2	41.3	33.7	28.6	19.4	58.4	46.7	40
	Medium	50.9	52.2	47.7	43	40.9	34.4	29.8	19.7	58.7	45.9	40
	Low	51.7	51.4	48.1	42.9	40.1	32.3	26.8	18.2	58	45.4	40
RHLB-048TN	High	56.4	51.1	52.6	50.8	45.3	41.9	38.6	29	65.4	52.5	50
	Medium	53.8	59.1	51.2	49.3	43.5	39.8	36.1	26	66.4	50.7	45
	Low	56.6	57.6	48.7	47.4	42.2	38.9	35	24.6	66.8	49.1	45
RHLB-054TN1	High	53.9	59.5	56.9	51.9	45.6	40.8	36.3	28.8	65.3	53.4	50
	Medium	52.3	58.1	56	51.3	44.8	39.8	35.2	27.6	64.6	52.6	50
	Low	53.9	57.4	55.1	50.6	44.1	38.9	33.9	28.3	63	51.8	50
RHLB-054TN	High	53.9	59.5	56.9	51.9	45.6	40.8	36.3	28.8	65.3	53.4	50
	Medium	52.3	58.1	56	51.3	44.8	39.8	35.2	27.6	64.6	52.6	50
	Low	53.9	57.4	55.1	50.6	44.1	38.9	33.9	28.3	63	51.8	50



PHYSICAL AND ELECTRICAL DATA

PHYSICAL & ELECTRICAL DATA											Date	30/01/2025	
											Revision	01	
TABLE FOR TECHNICAL DATA													
AIR HANDLING UNIT MODEL			RHLB-018TN	RHLB-024TN	RHLB-030TN	RHLB-036TN	RHLB-042TN	RHLB-042TN	RHLB-048TN	RHLB-048TN	RHLB-054TN1	RHLB-054TN	
CONDENSING UNIT MODEL			SAGL-018TA	SAGL-024TA	SAGL-030TA	SAGL-036TA	SAGL-036TA	SAGL-042TA	SAGL-042TA	SAGL-048TA	SAGL-048NA	SAGL-061NA	
AMBIENT TEMP 35 °C	EVAP ENTERING AIR TEMP.	27 DB / 19 WB °C	TMBH	15.3	20.8	24.2	28.7	29.6	34.8	36.2	40.5	45.4	53.2
			SMBH	14.0	17.2	19.7	24.7	25.3	27.7	32.3	34.5	39.3	42.6
			EER	11.95	11.81	11.80	11.98	11.98	11.88	12.35	11.95	12.11	11.67
	24.4 DB / 17.2 WB °C	TMBH	14.7	19.3	22.8	26.5	27.0	31.9	33.5	38.2	40.3	48.8	
		SMBH	13.5	16.2	18.9	23.3	23.4	25.7	30.3	33.1	36.1	39.6	
		EER	13.7	18.9	21.3	25.0	27.3	30.9	31.7	37.2	40.4	47.2	
AMBIENT TEMP 46 °C	EVAP ENTERING AIR TEMP.	29 DB / 19 WB °C	SMBH	13.5	18.7	21.1	24.8	26.9	30.6	30.8	37.2	39.7	46.7
			EER	8.56	8.40	8.32	8.30	8.67	8.37	8.59	8.86	8.69	8.52
			TMBH	12.6	16.6	19.5	23.1	24.6	27.0	28.9	30.8	33.2	41.0
	24.4 DB / 17.2 WB °C	SMBH	12.5	15.1	17.5	22.5	21.9	23.6	25.5	28.4	32.7	36.6	
		EER	515	745	840	1200	1200	1200	1260	1390	1640	1640	
		CFM	610	770	890	1250	1250	1250	1390	1560	1720	1720	
AIR FLOW PERFORMANCE (DRY COIL)	MED	715	790	945	1290	1290	1290	1560	1700	1825	1825		
	HIGH	38.8	40.8	46.5	45.4	45.4	45.4	48.1	52.5	51.8	51.8		
	LOW	40.6	41.3	47.5	45.9	45.9	45.9	49.1	50.7	52.6	52.6		
NOISE LEVEL	MED	40.7	41.7	48.8	46.7	46.7	46.7	50.7	49.1	53.4	53.4		
	HIGH	0.1 (25)	0.1 (25)	0.1 (25)	0.15 (37)	0.15 (37)	0.15 (37)	0.15 (37)	0.15 (37)	0.2 (50)	0.2 (50)		
	IN (Pa)	1	1	1	1	1	1	1	1	1	1		
EXTERNAL STATIC PRESSURE (ESP)													
NUMBER OF COMPRESSORS													
NUMBER OF REFRIGERANT CIRCUIT FOR AHU													
EXPANSION DEVICE/REFRIGERANT - R410A													
ELECTRICAL DATA	POWER SUPPLY	AIR HANDLING UNIT	PH-HZ-VOLT	1-50-230	1-50-230	1-50-230	1-50-230	1-50-230	1-50-230	1-50-230	1-50-230	1-50-230	
		CONDENSING UNIT		1-50-230	1-50-230	1-50-230	1-50-230	1-50-230	1-50-230	3-50-400	3-50-400	3-50-400	
	POWER INPUT	AIR HANDLING UNIT	KW	0.085	0.10	0.16	0.18	0.18	0.18	0.29	0.31	0.37	0.37
		CONDENSING UNIT		1.195	1.66	1.89	2.22	2.29	2.75	2.64	3.08	3.39	4.20
	CIRCUIT BREAKER SIZE	AIR HANDLING UNIT	AMPS	15	15	15	15	15	15	15	15	15	15
		CONDENSING UNIT		25	25	32	32	32	32	32	20	20	25
	FULL LOAD CURRENT	AIR HANDLING UNIT	AMPS	0.3	0.4	0.7	1.4	1.4	1.4	1.4	1.4	1.9	1.9
		CONDENSING UNIT		5.2	7.3	8.2	8.9	9.9	12.2	12.2	5.5	4.1	5.4
	COIL FACE AREA	AIR HANDLING UNIT	SQ. FT	3.6	3.6	3.6	4.5	4.5	4.5	6.1	6.1	8.2	8.2
		CONDENSING UNIT		11.1	11.1	13.7	16.4	16.4	16.4	21.9	21.9	21.9	
	NO OF FANS	AIR HANDLING UNIT	NOS.	2	2	2	2	2	2	2	2	2	2
		CONDENSING UNIT		1	1	1	1	1	1	1	1	1	
NET WEIGHT	INDOOR UNIT	KG	40	40	42	50	53	58	58	68	68		
	OUTDOOR UNIT		57	58	65	75	75	68	68	101	101		



PERFORMANCE DATA

MODEL		RHLB-018TN/SAGL-018TA									RHLB-024TN/SAGL-024TA									
INDOOR TEMP OF		80.6° FDB / 71.0° FWB			80.6° FDB / 66.2°F WB			80.6° FDB / 63.0° FWB			80.6° FDB / 71.0° FWB			80.6° FDB / 66.2° FWB			80.6° FDB / 63.0° FWB			
		High	Med	Low																
DEPRESSION RATIO		0.2	0.22	0.24	0.2	0.22	0.24	0.2	0.22	0.24	0.19	0.21	0.23	0.19	0.21	0.23	0.19	0.21	0.23	
CFM AIR VOL.		715	610	515	715	610	515	715	610	515	790	770	745	790	770	745	790	770	745	
OUTDOOR TEMPERATURE	75°F	TMBH	18.0	17.7	17.4	17.0	16.6	16.2	16.1	15.7	15.4	24.9	24.7	24.6	23.0	22.9	22.8	21.8	21.7	21.6
		SMBH	10.9	10.4	9.9	13.8	12.9	12.1	15.6	14.5	13.5	14.9	14.8	14.6	18.3	18.1	17.9	20.7	20.4	20.1
		Power	0.99	0.98	0.97	0.99	0.98	0.96	0.98	0.97	0.96	1.39	1.39	1.38	1.38	1.37	1.37	1.37	1.37	1.36
	80°F	TMBH	17.6	17.3	17.0	16.7	16.3	15.9	15.8	15.4	15.1	24.3	24.2	24.1	22.4	22.3	22.2	21.2	21.1	21.1
		SMBH	10.7	10.2	9.8	13.6	12.7	11.9	15.4	14.3	13.3	14.7	14.6	14.4	18.1	17.9	17.6	20.4	20.1	19.8
		Power	1.05	1.04	1.03	1.05	1.04	1.02	1.04	1.03	1.02	1.48	1.47	1.47	1.46	1.45	1.45	1.45	1.44	1.44
	85°F	TMBH	17.1	16.9	16.6	16.3	15.9	15.6	15.4	15.1	14.8	23.7	23.6	23.5	21.9	21.8	21.7	20.6	20.6	20.5
		SMBH	10.4	10.0	9.6	13.4	12.5	11.7	15.2	14.2	13.2	14.4	14.3	14.1	17.8	17.6	17.4	20.1	19.9	19.6
		Power	1.12	1.11	1.09	1.11	1.10	1.09	1.11	1.09	1.08	1.57	1.56	1.55	1.55	1.54	1.53	1.53	1.53	1.52
	90°F	TMBH	16.6	16.4	16.2	15.9	15.5	15.2	15.1	14.7	14.4	23.1	23.0	22.9	21.3	21.2	21.2	20.1	20.0	19.9
		SMBH	10.2	9.8	9.4	13.2	12.3	11.6	15.0	14.0	13.0	14.2	14.1	13.9	17.6	17.4	17.2	19.9	19.6	19.3
		Power	1.18	1.17	1.16	1.18	1.17	1.15	1.17	1.16	1.15	1.66	1.66	1.65	1.64	1.63	1.63	1.62	1.62	1.61
	95°F	TMBH	16.1	16.0	15.4	15.4	15.1	14.8	14.7	14.3	14.0	22.4	22.4	22.3	20.7	20.7	20.6	19.6	19.5	19.4
		SMBH	9.9	9.6	9.3	12.9	12.1	11.4	14.7	13.8	12.8	14.0	13.8	13.7	17.5	17.2	16.9	19.6	19.5	19.1
		Power	1.25	1.25	1.25	1.25	1.24	1.22	1.24	1.23	1.22	1.77	1.76	1.75	1.74	1.73	1.73	1.72	1.72	1.71
	100°F	TMBH	15.5	15.4	15.2	14.9	14.6	14.4	14.3	13.9	13.6	21.8	21.7	21.6	20.1	20.1	20.0	19.1	19.0	18.8
		SMBH	9.6	9.3	8.9	12.7	11.9	11.2	14.3	13.5	12.6	13.7	13.6	13.4	17.1	16.9	16.6	19.1	19.0	18.8
		Power	1.33	1.32	1.31	1.32	1.31	1.30	1.32	1.30	1.29	1.87	1.87	1.86	1.84	1.84	1.83	1.83	1.82	1.81
	105°F	TMBH	14.9	14.8	14.6	14.4	14.2	13.9	13.9	13.5	13.2	21.1	21.1	21.0	19.5	19.5	19.4	18.6	18.5	18.3
		SMBH	9.3	9.0	8.7	12.4	11.6	10.9	13.9	13.2	12.4	13.4	13.3	13.2	16.8	16.6	16.4	18.6	18.5	18.3
		Power	1.41	1.40	1.38	1.40	1.39	1.38	1.40	1.38	1.37	1.99	1.98	1.98	1.96	1.95	1.95	1.94	1.94	1.93
	110°F	TMBH	14.3	14.2	14.1	13.9	13.7	13.4	13.4	13.0	12.7	20.4	20.4	20.3	18.8	18.8	18.7	18.1	18.0	17.9
		SMBH	9.0	8.7	8.4	12.1	11.4	10.7	13.4	13.0	12.2	13.2	13.0	12.9	16.5	16.4	16.1	18.1	18.0	17.9
		Power	1.49	1.48	1.47	1.49	1.47	1.46	1.48	1.47	1.45	2.11	2.10	2.10	2.08	2.07	2.07	2.07	2.06	2.05
	115°F	TMBH	13.6	13.6	13.5	13.3	13.1	12.9	13.0	12.6	12.3	19.7	19.7	19.6	18.2	18.2	18.1	17.6	17.5	17.4
		SMBH	8.6	8.4	8.1	11.8	11.1	10.4	13.0	12.6	11.9	12.9	12.8	12.6	16.3	16.1	15.9	17.6	17.5	17.4
		Power	1.58	1.57	1.56	1.57	1.56	1.55	1.57	1.56	1.54	2.24	2.23	2.23	2.21	2.20	2.19	2.20	2.19	2.18
	120°F	TMBH	13.0	13.0	12.9	12.7	12.6	12.4	12.5	12.2	11.8	19.0	18.9	18.9	17.5	17.5	17.4	17.0	17.0	16.8
		SMBH	8.3	8.0	7.8	11.4	10.8	10.2	12.5	12.2	11.6	12.6	12.5	12.3	16.0	15.8	15.6	17.0	17.0	16.8
		Power	1.67	1.66	1.65	1.67	1.65	1.64	1.66	1.65	1.64	2.37	2.36	2.36	2.34	2.34	2.33	2.33	2.33	2.32
	125°F	TMBH	12.4	12.3	12.3	12.2	12.1	11.9	12.0	11.7	11.3	18.2	18.2	18.1	16.8	16.8	16.7	16.5	16.4	16.3
		SMBH	7.9	7.7	7.5	11.1	10.4	9.9	12.0	11.7	11.3	12.3	12.2	12.0	15.7	15.6	15.3	16.5	16.4	16.3
		Power	1.77	1.76	1.74	1.76	1.75	1.74	1.76	1.75	1.73	2.51	2.50	2.50	2.48	2.48	2.47	2.48	2.47	2.46

MODEL		RHLB-030TN/SAGL-030TA									RHLB-042TN/SAGL-036TA									
INDOOR TEMP OF		80.6° FDB / 71.0° FWB			80.6° FDB / 66.2°F WB			80.6° FDB / 63.0° FWB			80.6° FDB / 71.0° FWB			80.6° FDB / 66.2°F WB			80.6° FDB / 63.0° FWB			
		High	Med	Low																
DEPRESSION RATIO		0.15	0.17	0.19	0.15	0.17	0.19	0.15	0.17	0.19	0.20	0.22	0.24	0.20	0.22	0.24	0.20	0.22	0.24	
CFM AIR VOL.		945	890	840	945	890	840	945	890	840	1290	1250	1200	1290	1250	1200	1290	1250	1200	
OUTDOOR TEMPERATURE	75°F	TMBH	28.1	27.9	27.7	26.2	26.0	25.8	24.9	24.7	24.6	34.5	34.4	34.4	33.2	33.2	33.0	31.7	31.6	31.4
		SMBH	16.7	16.4	16.1	20.5	20.1	19.6	23.2	22.6	22.1	20.8	20.7	20.5	27.3	27.0	26.6	31.7	31.3	30.7
		Power	1.67	1.65	1.64	1.67	1.65	1.64	1.66	1.65	1.64	1.98	1.97	1.97	1.97	1.96	1.95	1.95	1.94	1.94
	80°F	TMBH	27.5	27.4	27.1	25.7	25.5	25.3	24.4	24.2	24.1	33.5	33.5	33.4	32.4	32.3	32.2	31.1	30.9	30.8
		SMBH	16.4	16.1	15.8	20.3	19.8	19.4	23.0	22.3	21.9	20.3	20.2	20.0	26.8	26.5	26.2	31.1	30.9	30.5
		Power	1.75	1.73	1.72	1.75	1.73	1.72	1.74	1.72	1.71	2.10	2.09	2.08	2.09	2.07	2.07	2.07	2.06	2.05
	85°F	TMBH	26.9	26.8	26.6	25.2	25.0	24.8	23.9	23.8	23.6	32.5	32.5	32.4	31.6	31.5	31.4	30.4	30.3	30.0
		SMBH	16.1	15.8	15.6	20.0	19.6	19.1	22.7	22.1	21.6	19.8	19.7	19.5	26.3	26.0	25.6	30.4	30.3	30.0
		Power	1.83	1.82	1.81	1.83	1.81	1.80	1.82	1.81	1.80	2.22	2.21	2.20	2.21	2.20	2.19	2.20	2.19	2.18
	90°F	TMBH	26.2	26.1	25.9	24.6	24.4	24.3	23.3	23.2	23.1	31.5	31.4	31.4	30.7	30.6	30.5	29.7	29.6	29.3
		SMBH	15.8	15.6	15.3	20.0	19.3	18.9	22.4	21.8	21.3	19.2	19.2	19.0	26.1	25.5	25.2	29.7	29.6	29.3
		Power	1.93	1.91	1.90	1.92	1.91	1.90	1.92	1.90	1.89	2.35	2.34	2.33	2.34	2.33	2.32	2.33	2.31	2.31
	95°F	TMBH	25.6	25.4	25.3	24.0	23.8	23.6	22.7	22.6	22.4	30.4	30.3	30.3	29.7	29.7	29.6	28.9	28.8	28.6
		SMBH	15.5	15.3	15.0	19.9	19.0	18.6	22.1	21.5	21.0	18.7	18.6	18.5	26.0	24.9	24.6	28.9	28.8	28.6
		Power	2.03	2.01	2.00	2.02	2.01	2.00	2.02	2.00	1.99	2.48	2.47	2.46	2.46	2.46	2.45	2.46	2.45	2.44
	100°F	TMBH	24.9	24.7	24.6	23.3	23.2	23.0	22.1	22.0	21.8	29.3	29.2	29.2	28.8	28.8	28.6	28.1	27.9	27.8
		SMBH	15.2	14.9	14.7	19.1	18.7	18.3	21.8	21.3	20.8	18.1	18.0	17.9	24.5	24.3	24.0	28.1	27.9	27.8
		Power	2.14	2.12	2.11	2.14	2.12	2.11	2.13	2.11	2.10	2.62	2.61	2.61	2.62	2.61	2.60	2.61	2.60	2.59
	105°F	TMBH	24.1	24.0	23.9	22.6	22.5	22.4	21.4	21.3	21.2	28.1	28.1	28.1	27.7	27.7	27.6	27.2	27.1	26.9
		SMBH	14.9	14.6	14.4	18.8	18.4	18.0	21.4	21.0	20.4	17.5	17.3	17.3	23.8	23.6	23.3	27.2	27.1	26.9
		Power	2.26	2.24	2.23	2.26	2.24	2.23	2.25	2.23	2.22	2.77	2.76	2.76	2.77	2.76	2.75	2.76	2.75	2.74
	110°F	TMBH	23.3	23.2	23.1	21.9	21.8	21.6	20.9	20.6	20.5	26.9	26.9	26.9	26.7	26.6	26.6	26.2	26.2	26.0
		SMBH	14.5	14.3	14.0	18.4	18.0	17.6	20.9	20.6	20.1	16.8	16.7	16.7	23.1	22.9	22.7	26.2	26.2	26.0
		Power	2.39	2.37	2.36	2.38	2.36	2.35	2.37	2.36	2.35	2.94	2.93	2.92	2.93	2.92	2.92	2.93	2.92	2.91
	115°F	TMBH	22.5	22.4	22.3	21.2	21.0	20.9	20.3	20.0	19.8	25.8	25.8	25.7	25.6	25.5	25.5	25.2	25.2	25.0
		SMBH																		

PERFORMANCE DATA

MODEL		RHLB-042TN/SAGL-042TA									RHLB-048TN/SAGL-042TA									
INDOOR TEMP OF		80.6 F (27.0C) DB / 71.0 F (21.7C) WB			80.6 F (27.0C) DB / 66.2F (19.0C) WB			80.6 F (27C) DB / 63.0 F (17.2C) WB			80.6 F (27.0C) DB / 71.0 F (21.7C) WB			80.6 F (27.0C) DB / 66.2F (19.0C) WB			80.6 F (27C) DB / 63.0 F (17.2C) WB			
DEPRESSION RATIO		0.20	0.22	0.24	0.20	0.22	0.24	0.20	0.22	0.24	0.20	0.22	0.24	0.20	0.22	0.24	0.20	0.22	0.24	
CFM AIR VOL.		1355	1290	1250	1355	1290	1250	1355	1290	1250	1560	1390	1260	1560	1390	1260	1560	1390	1260	
OUTDOOR TEMPERATURE	75°F	TMBH	41.6	41.4	41.3	38.7	38.5	38.3	36.4	36.2	36.2	43.5	43.1	42.6	40.2	39.8	39.3	38.8	37.3	36.8
		SMBH	24.9	24.5	24.3	30.9	30.2	29.8	35.1	34.3	33.7	27.1	26.0	25.2	33.8	32.1	30.7	38.4	36.4	34.7
		Power	2.33	2.27	2.26	2.31	2.25	2.24	2.30	2.24	2.23	2.35	2.29	2.27	2.34	2.29	2.26	2.34	2.28	2.26
	80°F	TMBH	40.7	40.6	40.6	38.0	37.7	37.5	35.8	35.6	35.4	42.5	42.1	41.7	39.3	38.9	38.4	38.0	36.4	36.0
		SMBH	24.5	24.1	24.1	30.5	29.9	29.5	34.8	34.0	33.4	26.7	25.6	24.7	33.5	31.7	30.3	37.6	36.0	34.3
		Power	2.46	2.40	2.39	2.44	2.38	2.37	2.43	2.37	2.36	2.48	2.42	2.39	2.47	2.42	2.39	2.47	2.42	2.39
	85°F	TMBH	39.7	39.5	39.4	37.1	37.0	36.7	35.0	34.8	34.7	41.4	41.1	40.7	38.3	37.9	37.5	37.2	36.0	35.1
		SMBH	24.1	23.7	23.5	30.1	29.6	29.1	34.5	33.6	33.1	26.2	25.2	24.3	33.0	31.3	29.9	36.9	35.7	33.9
		Power	2.60	2.54	2.53	2.58	2.53	2.51	2.57	2.51	2.50	2.62	2.56	2.54	2.61	2.56	2.53	2.61	2.56	2.53
	90°F	TMBH	38.5	38.4	38.2	36.1	36.0	35.8	34.1	33.9	33.7	40.3	40.0	39.6	37.3	36.9	36.5	36.4	35.4	34.9
		SMBH	23.5	23.2	23.0	29.7	29.1	28.7	34.0	33.2	32.6	25.8	24.8	23.9	32.7	30.8	29.5	36.1	35.0	33.4
		Power	2.75	2.69	2.68	2.73	2.67	2.66	2.72	2.66	2.65	2.77	2.72	2.69	2.77	2.71	2.69	2.76	2.71	2.68
95°F	TMBH	37.3	37.1	37.1	34.9	34.8	34.7	33.2	32.9	32.8	39.1	38.9	38.5	36.2	35.9	35.5	35.5	34.6	33.4	
	SMBH	23.0	22.7	22.4	28.5	28.4	28.2	33.2	32.7	32.3	25.3	24.3	23.5	32.3	30.5	29.0	35.1	34.2	33.0	
	Power	2.91	2.85	2.84	2.89	2.83	2.82	2.88	2.82	2.81	2.93	2.88	2.85	2.93	2.88	2.85	2.93	2.87	2.84	
100°F	TMBH	36.1	35.9	35.8	34.1	33.9	33.7	32.4	32.0	31.8	37.9	37.7	37.4	35.1	34.9	34.5	34.3	33.8	32.9	
	SMBH	22.4	22.1	21.9	28.4	28.1	27.7	32.4	32.0	31.7	24.8	23.8	23.0	31.9	30.1	28.6	34.0	33.5	32.6	
	Power	3.08	3.02	3.01	3.07	3.00	2.99	3.05	2.99	2.98	3.11	3.05	3.03	3.10	3.05	3.02	3.11	3.05	3.03	
105°F	TMBH	34.8	34.7	34.5	32.9	32.8	32.6	31.5	31.1	30.9	36.7	36.5	36.3	33.9	33.8	33.5	33.4	32.9	32.1	
	SMBH	21.8	21.5	21.3	28.1	27.6	27.2	31.5	31.1	30.9	24.3	23.3	22.6	31.4	29.6	28.2	33.1	32.6	31.8	
	Power	3.27	3.20	3.19	3.25	3.19	3.18	3.24	3.17	3.16	3.30	3.24	3.21	3.29	3.24	3.21	3.30	3.24	3.21	
110°F	TMBH	33.5	33.3	33.3	31.8	31.7	31.5	30.6	30.3	30.0	35.5	35.3	35.1	32.8	32.7	32.4	32.2	32.1	31.3	
	SMBH	21.1	20.8	20.7	27.6	27.1	26.7	30.6	30.3	30.0	23.7	22.8	22.1	30.9	29.3	27.8	31.9	31.8	31.0	
	Power	3.46	3.40	3.39	3.44	3.38	3.37	3.43	3.37	3.36	3.50	3.45	3.41	3.50	3.44	3.41	3.49	3.44	3.41	
115°F	TMBH	32.2	32.0	32.0	30.6	30.5	30.4	29.7	29.4	29.1	34.2	34.1	33.9	31.6	31.3	31.3	31.3	31.2	30.5	
	SMBH	20.4	20.2	20.0	27.1	26.4	26.1	29.7	29.4	29.1	23.1	22.3	21.6	30.6	28.8	27.4	31.0	30.9	30.2	
	Power	3.66	3.60	3.59	3.65	3.59	3.57	3.64	3.57	3.56	3.72	3.67	3.64	3.71	3.66	3.63	3.71	3.66	3.63	
120°F	TMBH	30.8	30.7	30.7	29.4	29.3	29.3	28.7	28.4	28.2	32.9	32.8	32.7	30.5	30.4	30.1	30.2	30.3	29.7	
	SMBH	19.8	19.5	19.4	26.5	25.9	25.6	28.7	28.4	28.2	22.5	21.7	21.1	30.1	28.4	27.1	29.9	30.0	29.4	
	Power	3.87	3.82	3.81	3.86	3.80	3.79	3.86	3.79	3.78	3.96	3.89	3.87	3.95	3.89	3.84	3.95	3.89	3.87	
125°F	TMBH	29.5	29.5	29.4	28.2	28.2	28.1	27.7	27.5	27.3	31.6	31.6	31.4	29.3	29.3	28.9	28.8	28.5	28.2	
	SMBH	19.1	18.8	18.7	25.9	25.5	25.1	27.7	27.5	27.3	21.8	21.1	20.5	29.0	28.1	26.6	28.5	28.2	28.0	
	Power	4.11	4.04	4.03	4.09	4.03	4.02	4.09	4.02	4.01	4.20	4.14	4.12	4.20	4.02	3.87	4.20	4.14	4.12	

MODEL		RHLB-048TN/SAGL-048NA									
INDOOR TEMP OF		80.6 F (27.0C) DB / 71.0 F (21.7C) WB			80.6 F (27.0C) DB / 66.2F (19.0C) WB			80.6 F (27C) DB / 63.0 F (17.2C) WB			
DEPRESSION RATIO		0.20	0.22	0.24	0.20	0.22	0.24	0.20	0.22	0.24	
CFM AIR VOL.		1700	1560	1390	1700	1560	1390	1700	1560	1390	
OUTDOOR TEMPERATURE	75°F	TMBH	48.1	47.8	47.1	44.6	44.2	43.5	41.9	40.2	37.9
		SMBH	29.2	28.4	27.3	36.2	34.8	33.1	41.3	39.5	37.3
		Power	2.73	2.67	2.64	2.72	2.67	2.64	2.72	2.68	2.65
	80°F	TMBH	47.1	46.8	46.0	43.6	43.3	42.6	41.6	39.8	37.6
		SMBH	28.8	28.0	26.9	35.7	34.5	32.7	40.9	39.2	37.0
		Power	2.88	2.82	2.82	2.88	2.82	2.79	2.88	2.82	2.79
	85°F	TMBH	46.0	45.8	45.2	42.6	42.3	41.7	40.9	39.4	37.2
		SMBH	28.4	27.5	26.5	35.4	34.0	32.4	40.2	38.7	36.6
		Power	3.03	2.97	2.95	3.03	2.97	2.95	3.03	2.97	2.95
	90°F	TMBH	44.9	44.7	44.1	41.6	41.3	40.7	40.1	38.9	36.8
		SMBH	27.9	27.1	26.0	35.0	33.6	31.9	39.5	38.3	36.2
		Power	3.21	3.15	3.12	3.21	3.15	3.12	3.21	3.15	3.12
95°F	TMBH	43.7	43.5	43.0	40.5	40.3	39.7	39.3	38.4	36.2	
	SMBH	27.4	26.6	25.6	34.5	33.1	31.5	38.6	37.8	35.6	
	Power	3.39	3.33	3.30	3.39	3.33	3.30	3.40	3.34	3.31	
100°F	TMBH	42.5	42.4	41.8	39.4	39.2	38.7	38.4	37.6	35.9	
	SMBH	26.9	26.2	25.1	34.1	32.7	31.1	37.8	37.0	35.3	
	Power	3.59	3.53	3.53	3.59	3.53	3.51	3.60	3.54	3.52	
105°F	TMBH	41.3	41.2	40.7	38.2	38.1	37.6	37.5	36.7	35.4	
	SMBH	26.4	25.7	24.7	33.6	32.3	30.6	36.9	36.1	34.8	
	Power	3.81	3.76	3.73	3.81	3.76	3.73	3.82	3.77	3.74	
110°F	TMBH	40.0	39.9	39.5	37.0	36.9	36.5	36.4	35.8	34.8	
	SMBH	25.9	25.1	24.2	33.3	31.8	30.1	35.8	35.3	34.2	
	Power	4.05	3.99	3.96	4.06	4.00	3.97	4.07	4.01	3.99	
115°F	TMBH	38.7	38.6	38.2	35.8	35.7	35.4	35.2	34.9	33.9	
	SMBH	25.3	24.6	23.7	32.7	31.4	29.7	34.7	34.4	33.4	
	Power	4.31	4.25	4.23	4.32	4.26	4.24	4.33	4.27	4.25	
120°F	TMBH	37.3	37.2	36.9	34.6	34.5	34.2	34.1	34.0	33.0	
	SMBH	24.7	24.0	23.1	32.3	31.0	29.2	33.6	33.4	32.5	
	Power	4.59	4.54	4.54	4.61	4.55	4.52	4.61	4.56	4.54	
125°F	TMBH	35.9	35.9	35.6	33.3	33.3	33.0	32.8	32.7	32.1	
	SMBH	24.0	23.4	22.6	31.9	30.6	28.9	32.2	32.2	31.6	
	Power	4.90	4.84	4.81	4.92	4.86	4.83	4.92	4.87	4.85	

Power: Total Unit Input Power (kW)
 DR: Depression Ratio
 dbE: Entering Air Temperature in °F

When the entering air dry bulb temperature is other than 80.6°F, adjust the sensible capacity from the table by adding 1.1 x CFM X (1-DR) X (dbE-80.6)



The new degree of comfort.™

PERFORMANCE DATA

MODEL		RHLB-054TN1/SAGN-048NA									RHLB-054TN/SAGL-061NA									
INDOOR TEMP OF		80.6 F (27.0C) DB / 71.0 F (21.7C) WB			80.6 F (27.0C) DB / 66.2F (19.0C) WB			80.6 F (27C) DB / 63.0 F (17.2C) WB			80.6 F (27.0C) DB / 71.0 F (21.7C) WB			80.6 F (27.0C) DB / 66.2F (19.0C) WB			80.6 F (27C) DB / 63.0 F (17.2C) WB			
DEPRESSION RATIO		High	Med	Low	High	Med	Low	High	Med	Low	High	Med	Low	High	Med	Low	High	Med	Low	
CFM AIR VOL.		1825	1720	1640	1825	1720	1640	1825	1720	1640	1825	1720	1640	1825	1720	1640	1825	1720	1640	
OUTDOOR TEMPERATURE	75°F	TMBH	53.7	53.4	53.1	49.7	49.4	49.2	46.7	46.5	46.3	62.8	62.4	62.0	58.2	57.8	57.3	55.0	54.6	54.3
		SMBH	33.2	32.5	32.0	41.0	40.0	39.2	46.6	45.4	44.3	37.1	36.4	35.8	44.9	43.8	42.9	50.3	48.9	47.8
		Power	3.03	2.98	2.96	3.02	2.98	2.95	3.02	2.98	2.95	3.69	3.64	3.61	3.65	3.60	3.57	3.63	3.58	3.55
	80°F	TMBH	52.5	52.3	52.0	48.7	48.4	48.2	46.2	45.6	45.3	61.5	61.3	60.8	57.0	56.6	56.2	53.8	53.4	53.1
		SMBH	32.7	32.0	31.5	40.6	39.5	38.7	46.1	44.9	44.0	36.5	35.9	35.3	44.3	43.2	42.4	49.8	48.4	47.3
		Power	3.18	3.13	3.12	3.18	3.13	3.12	3.18	3.13	3.12	3.89	3.88	3.82	3.85	3.81	3.78	3.84	3.79	3.76
	85°F	TMBH	51.4	51.2	50.9	47.6	47.4	47.2	45.6	44.5	44.3	60.2	59.9	59.5	55.8	55.4	55.0	52.5	52.2	51.9
		SMBH	32.2	31.6	31.1	40.1	39.1	38.3	45.5	44.3	43.5	36.0	35.3	34.7	43.8	42.7	41.8	49.3	47.9	46.8
		Power	3.35	3.31	3.28	3.35	3.31	3.28	3.35	3.31	3.28	4.11	4.06	4.03	4.07	4.02	3.99	4.05	4.00	3.97
	90°F	TMBH	50.2	50.0	49.8	46.5	46.3	46.1	45.0	43.9	43.3	58.9	58.5	58.2	54.5	54.1	53.8	51.1	51.0	50.7
		SMBH	31.8	31.1	30.6	39.7	38.6	37.8	44.9	43.8	42.9	35.5	34.8	34.2	43.2	42.1	41.3	48.6	47.3	46.2
		Power	3.54	3.50	3.47	3.54	3.49	3.47	3.54	3.49	3.47	4.34	4.29	4.26	4.30	4.25	4.22	4.25	4.23	4.20
95°F	TMBH	49.0	48.8	48.6	45.4	45.2	45.0	44.1	43.3	42.4	57.5	57.2	56.8	53.2	52.8	52.5	49.9	49.6	49.4	
	SMBH	31.2	30.6	30.1	39.3	38.1	37.3	44.0	43.2	42.3	34.9	34.2	33.6	42.6	41.5	40.7	48.1	46.7	45.7	
	Power	3.74	3.69	3.67	3.74	3.69	3.67	3.74	3.69	3.67	4.59	4.54	4.51	4.55	4.50	4.47	4.52	4.47	4.44	
100°F	TMBH	47.7	47.6	47.4	44.2	44.1	43.9	43.2	42.5	41.8	56.1	55.7	55.4	51.8	51.5	51.2	48.6	48.3	48.0	
	SMBH	30.7	30.1	29.6	38.8	37.7	36.8	43.1	42.4	41.7	34.3	33.6	33.0	42.0	40.9	40.1	47.5	46.2	45.1	
	Power	3.95	3.91	3.88	3.95	3.90	3.88	3.95	3.90	3.88	4.86	4.81	4.78	4.81	4.76	4.74	4.78	4.73	4.71	
105°F	TMBH	46.4	46.3	46.1	43.0	42.9	42.7	42.2	41.6	41.1	54.6	54.2	53.9	50.3	50.1	49.8	47.1	46.9	46.7	
	SMBH	30.2	29.6	29.1	38.3	37.2	36.3	42.1	41.5	41.0	33.6	33.0	32.4	40.7	40.3	39.5	46.9	45.5	44.5	
	Power	4.18	4.13	4.11	4.18	4.13	4.11	4.18	4.13	4.11	5.14	5.09	5.06	5.39	5.04	5.02	5.06	5.01	4.98	
110°F	TMBH	45.1	45.0	44.8	41.7	41.7	41.5	41.2	40.6	40.2	53.0	52.7	52.4	48.9	48.6	48.3	45.9	44.6	43.6	
	SMBH	29.6	29.0	28.5	37.9	36.8	35.9	41.1	40.6	40.1	33.0	32.3	31.8	40.7	39.6	38.8	45.9	44.6	43.6	
	Power	4.41	4.37	4.35	4.41	4.36	4.35	4.41	4.36	4.35	5.44	5.40	5.37	5.39	5.34	5.31	5.36	5.31	5.28	
115°F	TMBH	43.7	43.6	43.5	40.4	40.4	40.3	40.2	39.7	39.2	51.3	51.1	50.8	47.2	47.0	46.8	45.0	43.9	42.9	
	SMBH	29.0	28.4	28.0	37.4	36.3	35.4	40.1	39.6	39.1	32.3	31.7	31.1	40.0	39.0	38.1	45.0	43.9	42.9	
	Power	4.67	4.63	4.60	4.67	4.62	4.60	4.67	4.62	4.60	5.76	5.71	5.68	5.71	5.66	5.63	5.67	5.62	5.59	
120°F	TMBH	42.2	42.2	42.1	39.1	39.0	39.0	38.9	38.6	38.2	49.6	49.4	49.1	45.6	45.3	45.1	43.8	43.0	42.1	
	SMBH	28.4	27.8	27.4	36.9	35.9	35.0	38.8	38.5	38.1	31.6	30.9	30.4	39.4	38.3	37.4	43.8	43.0	42.1	
	Power	4.95	4.90	4.88	4.95	4.90	4.88	4.95	4.90	4.88	6.09	6.04	6.01	6.04	5.99	5.96	6.00	5.95	5.92	
125°F	TMBH	40.7	40.7	40.6	37.7	37.7	37.6	37.6	37.6	37.2	47.8	47.6	47.4	43.7	43.6	43.3	42.5	41.8	41.1	
	SMBH	27.7	27.2	26.8	36.4	35.4	34.5	37.5	37.5	37.1	30.9	30.2	29.7	38.7	37.6	36.7	42.5	41.8	41.1	
	Power	5.24	5.20	5.17	5.24	5.20	5.17	5.24	5.20	5.17	6.43	6.39	6.36	6.39	6.34	6.31	6.34	6.29	6.26	

MODEL		RHLB-036TN/SAGL-036TA									
INDOOR TEMP °F		80.6 F (27.0C) DB / 71.0 F (21.7C) WB			80.6 F (27.0C) DB / 66.2F (19.0C) WB			80.6 F (27C) DB / 63.0 F (17.2C) WB			
Depression Ratio		High	Med	Low	High	Med	Low	High	Med	Low	
CFM AIR VOL.		1290	1250	1200	1290	1250	1200	1290	1250	1200	
Outdoor Temperature	75F(23.9C)	Total MBH	33.8	33.6	33.5	31.7	31.6	31.5	30.1	30.0	29.8
		Sens MBH	20.4	20.2	19.9	25.6	25.2	24.9	29.2	28.7	28.2
		Power KW	1.90	1.89	1.88	1.89	1.87	1.86	1.87	1.86	1.85
	80F(26.7C)	Total MBH	33.0	32.9	32.8	30.9	30.9	30.7	29.3	29.3	29.2
		Sens MBH	20.1	19.9	19.6	25.1	24.9	24.5	28.9	28.3	27.8
		Power KW	2.01	2.01	2.00	2.00	1.99	1.98	1.99	1.98	1.96
	85F(29.4C)	Total MBH	32.1	32.0	31.9	30.3	30.1	30.0	28.7	28.6	28.4
		Sens MBH	19.7	19.5	19.2	24.8	24.5	24.1	28.4	28.2	27.4
		Power KW	2.14	2.14	2.13	2.13	2.12	2.10	2.11	2.10	2.09
	90F(32.3C)	Total MBH	31.2	31.2	31.1	29.5	29.4	29.3	28.0	27.9	27.7
		Sens MBH	19.2	19.1	18.8	24.4	24.1	23.8	28.0	27.7	27.2
		Power KW	2.27	2.27	2.25	2.26	2.24	2.23	2.24	2.23	2.22
95F(35.0C)	Total MBH	30.3	30.3	30.2	28.7	28.6	28.4	27.4	27.1	27.0	
	Sens MBH	18.8	18.6	18.4	24.1	23.7	23.3	27.4	27.1	26.7	
	Power KW	2.40	2.40	2.39	2.39	2.38	2.37	2.38	2.36	2.35	
100F(37.8C)	Total MBH	29.3	29.3	29.2	27.9	27.7	27.6	26.6	26.4	26.2	
	Sens MBH	18.4	18.2	18.0	23.7	23.3	22.9	26.6	26.4	26.2	
	Power KW	2.55	2.55	2.54	2.54	2.53	2.52	2.52	2.51	2.50	
105F(40.6C)	Total MBH	28.4	28.3	28.2	27.0	26.9	26.8	25.9	25.8	25.5	
	Sens MBH	17.9	17.7	17.5	23.1	22.8	22.5	25.9	25.8	25.5	
	Power KW	2.70	2.70	2.69	2.69	2.68	2.67	2.68	2.67	2.66	
110F(43.3C)	Total MBH	27.3	27.3	27.2	26.1	26.0	25.9	25.1	25.0	24.8	
	Sens MBH	17.3	17.2	17.0	22.6	22.3	22.0	25.1	25.0	24.8	
	Power KW	2.87	2.87	2.85	2.86	2.85	2.84	2.85	2.84	2.82	
115F(46.1C)	Total MBH	26.2	26.2	26.1	25.1	25.0	25.0	24.3	24.2	24.0	
	Sens MBH	16.8	16.6	16.5	22.1	21.8	21.5	24.3	24.2	24.0	
	Power KW	3.04	3.04	3.03	3.04	3.03	3.01	3.03	3.02	3.00	
120F(48.9C)	Total MBH	25.1	25.1	25.1	24.1	24.0	23.9	23.5	23.3	23.2	
	Sens MBH	16.2	16.1	15.9	21.6	21.3	20.9	23.5	23.3	23.2	
	Power KW	3.23	3.23	3.22	3.23	3.22	3.20	3.22	3.21	3.19	
125F(51.7C)	Total MBH	23.9	23.9	23.9	23.0	23.0	22.9	22.6	22.5	22.4	
	Sens MBH	15.6	15.5	15.3	21.2	20.8	20.4	22.6	22.5	22.4	
	Power KW	3.43	3.43	3.42	3.43	3.42	3.41	3.42	3.41	3.40	

Power: Total Unit Input Power (kW)
 DR: Depression Ratio
 dbE: Entering Air Temperature in °F

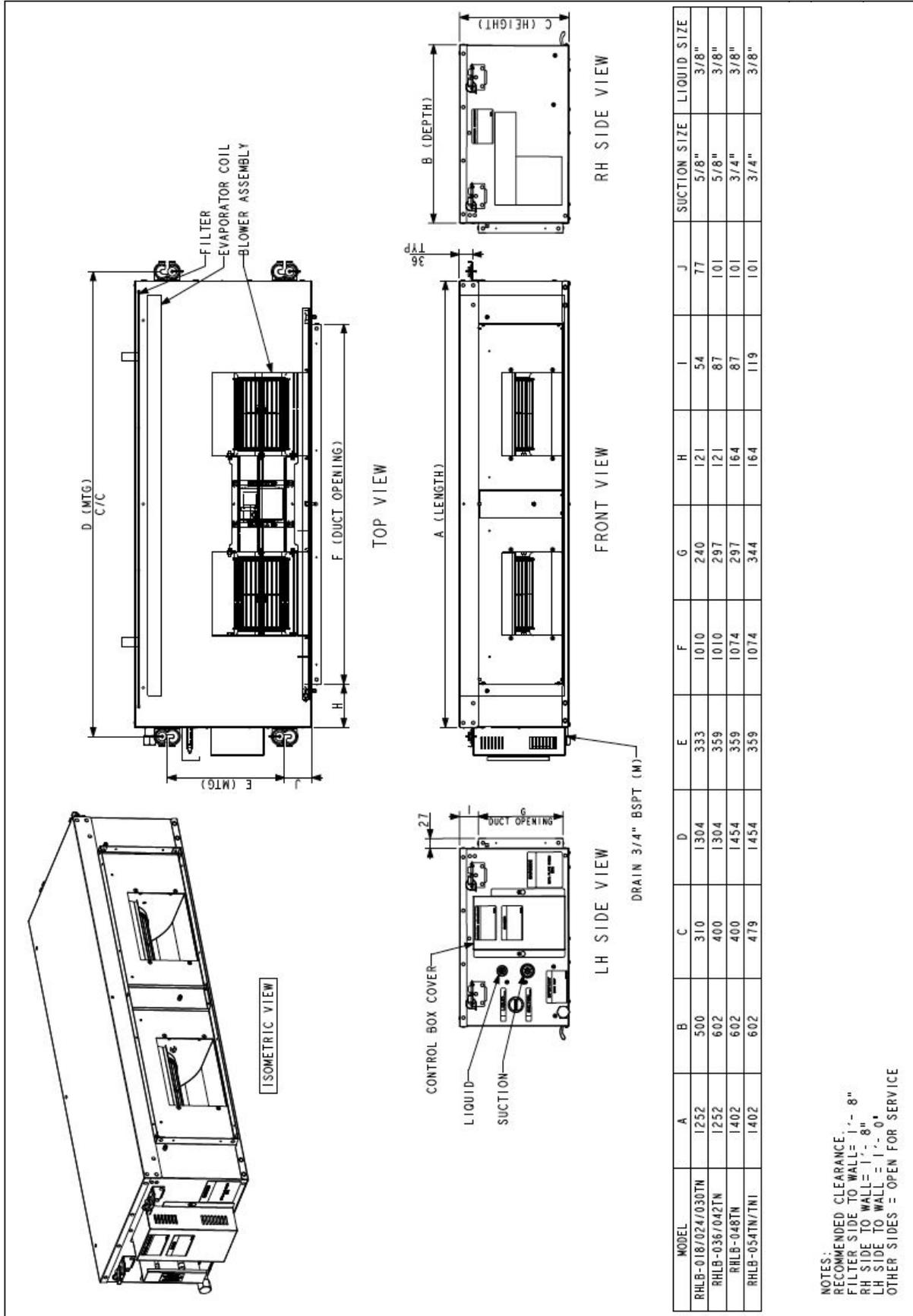
When the entering air dry bulb temperature is other than 80.6°F, adjust the sensible capacity from the table by adding 1.1 x CFM X (1-DR) X (dbE-80.6)



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GENERAL ARRANGEMENT DRAWING

Indoor Unit



MODEL	A	B	C	D	E	F	G	H	I	J	SUCTION SIZE	LIQUID SIZE
RHLB-018/024/030TN	1252	500	310	1304	333	1010	240	121	54	77	5/8"	3/8"
RHLB-036/042TN	1252	602	400	1304	359	1010	297	121	87	101	5/8"	3/8"
RHLB-048TN	1402	602	400	1454	359	1074	297	164	87	101	3/4"	3/8"
RHLB-054TN/TNI	1402	602	479	1454	359	1074	344	164	119	101	3/4"	3/8"

NOTES:
 RECOMMENDED CLEARANCE:
 FILTER SIDE TO WALL = 1'-8"
 RH SIDE TO WALL = 1'-8"
 LH SIDE TO WALL = 1'-0"
 OTHER SIDES = OPEN FOR SERVICE

ALL DIMENSIONS IN MM UNLESS OTHERWISE SPECIFIED | SYMBOLS: ● SAFETY ○ MAJOR Δ REVISION ○ CRITICAL



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PIPE SIZE CHART

Outdoor Unit ABOVE Indoor Unit														
Single Stage	Liquid Line Size	Suction Line Size	Equivalent Length in Meters											
			Condition - A			Condition - B			Condition - C					
			<15	15.5-22.5	23-45	38-45	45-75	75-90	45.5-52.5	53-60	61.5-67.5	68-75	75.5-82.5	83-90
Maximum Vertical Separation / Capacity Multiplier														
SAGL-018	1/4"	5/8"	15 / 1.00	22.5 / 0.99	33.5 / 0.99	40 / 0.98	N/A	N/A	52.5 / 0.97	N/A	N/A	N/A	N/A	N/A
	5/16"	5/8"	15 / 1.00	22.5 / 0.99	33.5 / 0.98	40 / 0.98	45 / 0.96	45 / 0.95	52.5 / 0.97	58 / 0.97	56 / 0.96	55 / 0.96	52.5 / 0.96	52.5 / 0.95
	3/8"	5/8"	15 / 1.00	22.5 / 0.99	33.5 / 0.98	40 / 0.98	45 / 0.96	45 / 0.95	52.5 / 0.97	60 / 0.97	60 / 0.96	60 / 0.96	60 / 0.96	60 / 0.95
SAGL-024	1/4"	5/8"	15 / 1.00	22.5 / 0.99	33.5 / 0.98	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16"	5/8"	15 / 1.00	22.5 / 0.99	33.5 / 0.98	40 / 0.97	45 / 0.95	N/A	52 / 0.97	55 / 0.96	50 / 0.95	47 / 0.95	N/A	N/A
	3/8"	5/8"	15 / 1.00	22.5 / 0.99	33.5 / 0.98	40 / 0.97	45 / 0.94	45 / 0.94	52.5 / 0.97	60 / 0.96	60 / 0.96	60 / 0.95	60 / 0.95	60* / 0.94
SAGL-030	5/16"	5/8"	15 / 0.98	22.5 / 0.97	33.5 / 0.97	40 / 0.95	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8"	5/8"	15 / 0.98	22.5 / 0.97	33.5 / 0.97	40 / 0.95	45 / 0.92	45 / 0.91	52.5 / 0.94	60 / 0.93	60 / 0.93	60 / 0.92	60* / 0.92	60* / 0.91
	5/16"	3/4"	15 / 1.00	22.5 / 0.99	33.5 / 0.99	40 / 0.98	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SAGL-036	3/8"	3/4"	15 / 1.00	22.5 / 0.99	33.5 / 0.99	40 / 0.98	45 / 0.97	45 / 0.96	52.5 / 0.98	60 / 0.98	60 / 0.97	60 / 0.97	60* / 0.97	60* / 0.96
	5/16"	5/8"	15 / 0.98	22.5 / 0.97	33.5 / 0.96	40 / 0.93	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8"	5/8"	15 / 0.98	22.5 / 0.97	33.5 / 0.96	40 / 0.93	45 / 0.90	45 / 0.88	52.5 / 0.93	60 / 0.91	60 / 0.90	60 / 0.90	60* / 0.89	60* / 0.88
SAGL-042	5/16"	3/4"	15 / 1.00	22.5 / 0.99	33.5 / 0.99	40 / 0.98	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8"	3/4"	15 / 1.00	22.5 / 0.99	33.5 / 0.99	40 / 0.98	45 / 0.96	45 / 0.95	52.5 / 0.98	60 / 0.97	60 / 0.96	60* / 0.96	60* / 0.95	60* / 0.95
	5/16"	7/8"	15 / 1.00	22.5 / 1.00	33.5 / 1.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SAGL-048/ SAGN-048	3/8"	7/8"	15 / 1.00	22.5 / 1.00	33.5 / 1.00	40 / 1.00	45 / 0.96	45 / 0.95	52.5 / 0.99	60 / 0.99	60 / 0.99	60* / 0.96	60* / 0.95	60* / 0.95
	3/8"	3/4"	15 / 0.98	22.5 / 0.97	33.5 / 0.96	40 / 0.95	45 / 0.92	45 / 0.91	52.5 / 0.94	60* / 0.93	60* / 0.93	58* / 0.92	52* / 0.92	47* / 0.91
	1/2"	3/4"	15 / 0.98	22.5 / 0.97	33.5 / 0.96	40 / 0.95	45 / 0.92	45 / 0.91	52.5 / 0.94	60 / 0.93	60 / 0.93	60 / 0.92	60* / 0.92	60* / 0.91
SAGL-061NA	3/8"	7/8"	15 / 1.00	22.5 / 0.98	33.5 / 0.98	40 / 0.97	45 / 0.96	45 / 0.96	52.5 / 0.97	60* / 0.97	60* / 0.96	58* / 0.96	52* / 0.96	47* / 0.96
	1/2"	7/8"	15 / 1.00	22.5 / 0.98	33.5 / 0.98	40 / 0.97	45 / 0.96	45 / 0.96	52.5 / 0.97	60 / 0.97	60 / 0.96	60 / 0.96	60* / 0.96	60* / 0.96
	3/8"	3/4"	15 / 0.98	22.5 / 0.96	33.5 / 0.95	40 / 0.93	45 / 0.90	N/A	52.5 / 0.92	60* / 0.92	55* / 0.91	49* / 0.90	N/A	N/A
SAGL-061NA	1/2"	3/4"	15 / 0.98	22.5 / 0.96	33.5 / 0.95	40 / 0.93	45 / 0.90	45 / 0.89	52.5 / 0.92	60 / 0.92	60 / 0.92	60 / 0.90	60* / 0.90	60* / 0.89
	3/8"	7/8"	15 / 1.00	22.5 / 0.99	33.5 / 0.98	40 / 0.97	45 / 0.95	N/A	52.5 / 0.97	60* / 0.96	55* / 0.96	49* / 0.95	N/A	N/A
	1/2"	7/8"	15 / 1.00	22.5 / 0.99	33.5 / 0.98	40 / 0.97	45 / 0.95	45 / 0.94	52.5 / 0.97	60 / 0.96	60 / 0.96	60 / 0.95	60* / 0.95	60* / 0.94

Note: This chart is applicable for ODU with scroll compressor only.

- Light Gray - (<45m vertical separation)
- Dark Gray - Use Oil Separator and Crank case heater. (Less than 45m vertical separation)
- Black - Use Oil Separator, Crank case heater, Hard Start Kit and Non-bleed TXV.
- Not Recommended

* Applications with asterisks (*) require a minimum of 15m vertical separation.

Condition	Total Equivalent Length (M)	Max. Vertical Separation (M)
A	3 ~ 45	<33.5
B	50.1 ~ 90	34 ~ 45
C	50.1 ~ 90	45.1 ~ 60



PIPE SIZE CHART

Single Stage	Liquid Line Size	Suction Line Size	Outdoor Unit BELOW Indoor Unit														
			Equivalent Length in Meter														
			<15	15.5-22.5	23-30	30.5-37.5	38 - 45	45.5-52.5	53-60	61.5-67.5	68-75	75.6-82.5	83-90				
SAGL-018	5/16"	5/8"	15/0.99	21.0/0.99	18/0.98	13.5/0.98	10.5/0.98	6/0.97	3/0.97	N/A	N/A	N/A	N/A	N/A	N/A		
	3/8"	5/8"	15/0.99	22.5/0.99	24.5/0.98	24.5/0.98	24.5/0.98	24.5/0.97	24.5/0.97	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96	18/0.96	15/0.95	
	5/16"	3/4"	15/1.00	21.0/1.00	18/1.00	13.5/1.00	10.5/0.99	6/0.99	3/0.99	N/A							
	3/8"	3/4"	15/1.00	22.5/1.00	24.5/1.00	24.5/1.00	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	18/0.99	15/0.99
	5/16"	5/8"	15/1.00	13.5/0.99	25/0.98	N/A											
SAGL-024	3/8"	5/8"	15/1.00	22.5/0.99	24.5/0.98	24.5/0.97	24.5/0.97	24.5/0.96	24.5/0.95	24.5/0.94	24.5/0.94	24.5/0.94	24.5/0.94	24.5/0.94	9/0.94	3/0.93	
	5/16"	3/4"	15/1.00	13.5/1.00	25/1.00	N/A											
	3/8"	3/4"	15/1.00	22.5/1.00	24.5/1.00	24.5/1.00	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.98	9/0.98	3/0.98	
	5/16"	5/8"	12/0.98	3/0.97	N/A												
	3/8"	5/8"	15/0.98	22.5/0.97	24.5/0.97	24.5/0.96	24.5/0.96	24.5/0.95	24.5/0.94	24.5/0.93	24.5/0.93	24.5/0.93	24.5/0.93	24.5/0.93	15/0.92	N/A	
SAGL-030	5/16"	3/4"	12/1.00	3/0.99	N/A												
	3/8"	3/4"	15/1.00	22.5/0.99	24.5/0.99	24.5/0.99	24.5/0.98	24.5/0.98	24.5/0.98	24.5/0.98	24.5/0.98	24.5/0.98	24.5/0.98	24.5/0.97	15/0.97	N/A	
	5/16"	3/4"	10.5/1.00	10/0.99	N/A												
	3/8"	3/4"	15/1.00	22.5/0.99	24.5/0.98	24.5/0.98	24.5/0.98	24.5/0.98	24.5/0.97	24.5/0.97	24.5/0.97	24.5/0.97	24.5/0.97	24.5/0.96	10/0.96	N/A	
	1/2"	3/4"	15/1.00	22.5/0.99	24.5/0.98	24.5/0.98	24.5/0.98	24.5/0.98	24.5/0.97	24.5/0.97	24.5/0.97	24.5/0.97	24.5/0.97	24.5/0.96	24.5/0.96	24.5/0.96	24.5/09.5
SAGL-036	3/8"	7/8"	15/1.00	22.5/1.00	24.5/1.00	24.5/1.00	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.98	10/0.98	N/A	
	1/2"	7/8"	15/1.00	22.5/1.00	24.5/1.00	24.5/1.00	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.98	24.5/0.98	24.5/0.98	
	3/8"	3/4"	15/0.99	22.5/0.99	24.5/0.98	24.5/0.98	24.5/0.98	24.5/0.97	24.5/0.97	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96	21.0/0.95	N/A	N/A	
	1/2"	3/4"	15/0.99	22.5/0.99	24.5/0.98	24.5/0.98	24.5/0.98	24.5/0.97	24.5/0.97	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96	21.0/0.95	21.0/0.95	18/0.94	
	3/8"	7/8"	15/1.00	22.5/1.00	24.5/1.00	24.5/1.00	24.5/0.98	24.5/0.97	24.5/0.97	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96	21.0/0.98	N/A	N/A	
SAGL-042	1/2"	7/8"	15/1.00	22.5/1.00	24.5/1.00	24.5/1.00	24.5/0.98	24.5/0.97	24.5/0.97	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96	21.0/0.98	N/A	N/A	
	3/8"	7/8"	15/1.00	22.5/1.00	24.5/1.00	24.5/1.00	24.5/0.98	24.5/0.97	24.5/0.97	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96	21.0/0.98	N/A	N/A	
	1/2"	7/8"	15/1.00	22.5/1.00	24.5/1.00	24.5/1.00	24.5/0.98	24.5/0.97	24.5/0.97	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96	21.0/0.98	N/A	N/A	
	3/8"	3/4"	15/0.99	22.5/0.99	24.5/0.98	24.5/0.98	24.5/0.98	24.5/0.97	24.5/0.97	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96	21.0/0.95	N/A	N/A	
	1/2"	3/4"	15/0.99	22.5/0.99	24.5/0.98	24.5/0.98	24.5/0.98	24.5/0.97	24.5/0.97	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96	21.0/0.95	15/0.95	N/A	
SAGL-048/ SAGN-048	1/2"	3/4"	15/0.99	22.5/0.99	24.5/0.98	24.5/0.98	24.5/0.98	24.5/0.97	24.5/0.97	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96	21.0/0.95	18/0.95	N/A	N/A
	3/8"	7/8"	15/1.00	22.5/1.00	24.5/1.00	24.5/1.00	24.5/0.98	24.5/0.97	24.5/0.97	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96	21.0/0.98	N/A	N/A	
	1/2"	7/8"	15/1.00	22.5/1.00	24.5/1.00	24.5/1.00	24.5/0.98	24.5/0.97	24.5/0.97	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96	21.0/0.98	18/0.98	12/0.97	
	3/8"	3/4"	15/0.98	22.5/0.98	24.5/0.97	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.95	24.5/0.95	24.5/0.95	24.5/0.95	24.5/0.95	6/0.94	N/A	N/A	
	1/2"	3/4"	15/0.98	22.5/0.98	24.5/0.97	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.95	24.5/0.95	24.5/0.95	24.5/0.95	24.5/0.95	15/0.94	N/A	N/A	
SAGL-061NA	3/8"	7/8"	15/1.00	22.5/0.99	24.5/0.99	24.5/0.98	24.5/0.98	24.5/0.98	18/0.97	6/0.96	6/0.96	6/0.96	6/0.96	N/A	N/A	N/A	
	1/2"	7/8"	15/1.00	22.5/0.99	24.5/0.99	24.5/0.98	24.5/0.98	24.5/0.97	24.5/0.97	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96	15/0.96	N/A	N/A	
	3/8"	7/8"	15/1.00	22.5/0.99	24.5/0.99	24.5/0.99	24.5/0.98	24.5/0.98	24.5/0.97	24.5/0.97	24.5/0.96	24.5/0.96	24.5/0.96	15/0.96	N/A	N/A	
	1/2"	7/8"	15/1.00	22.5/0.99	24.5/0.99	24.5/0.99	24.5/0.98	24.5/0.98	24.5/0.97	24.5/0.97	24.5/0.96	24.5/0.96	24.5/0.96	15/0.96	9/0.93	N/A	
	3/8"	7/8"	15/1.00	22.5/0.99	24.5/0.99	24.5/0.99	24.5/0.98	24.5/0.98	24.5/0.97	24.5/0.97	24.5/0.96	24.5/0.96	24.5/0.96	15/0.96	N/A	N/A	

Always Use the smallest Liquid Line allowable to keep system charge to a minimum
 Areas in light grey shade requires long line set application (Use Oil Separator, Crank case heater, Hard Start Kit and Non-bleed TXV).
 Do not use line sets in areas shaded in Dark Grey
 Vertical separation cannot Exceed 24.5 meter of length.

Note: This chart is applicable for ODU with scroll compressor only





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