The new degree of comfort.®

# Rheem Classic Plus® Series
# Ducted Split Air Conditioners

SAGN / SAGL - Series Condensing Unit

EL3T- Series Low Hight Air Handler

SHSL/SHLL- Series- Air Handlers

ISO 9001:2008
Certificate Number: 3064

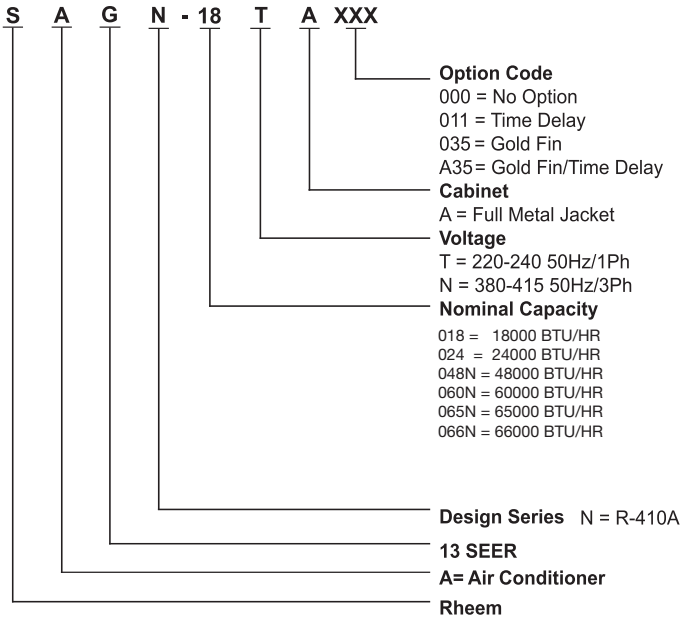
50Hz

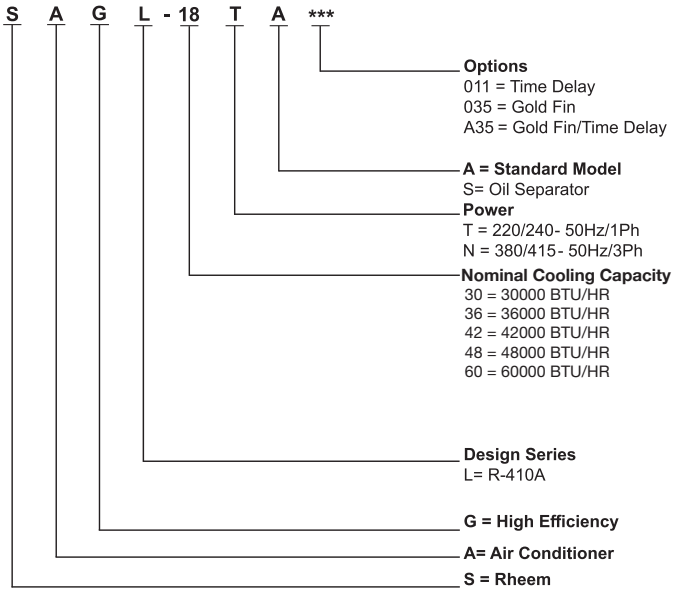
INTEGRATED AIR & WATER

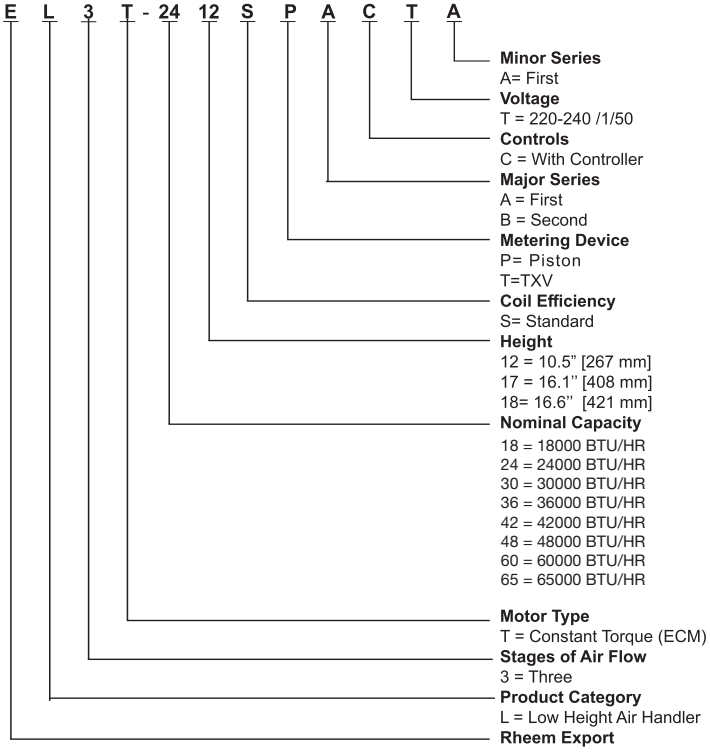
# TABLE OF CONTENTS

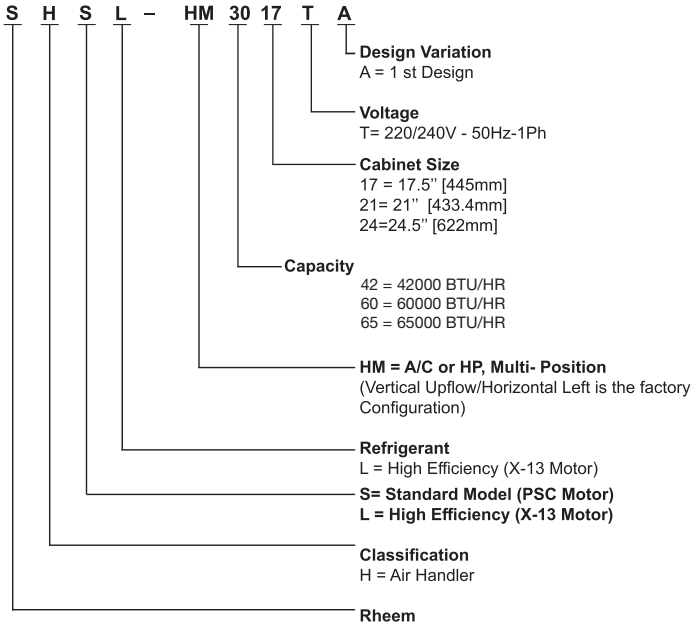

Nomenclature.....3
Available Model SKUs – Condensing Unit / Air Handlers.....4
Standard Features SAGN & SAGL.....5
Standard Features EL3T & SHSL/SHLL.....6
Performance Data Calculation Procedure.....7-10
Summary of Performance Data.....11
Gross System Performance Data.....12-23
Airflow Performance.....24-26
Electrical Data.....26
Unit Dimensions.....27-31
Refrigerant Line Application Guide.....32-34
Pipe Sizing Chart.....35-38
Guides Specification (SAGN).....39
Guides Specification (EL3T).....40
Guides Specification (SAGL).....41
Guides Specification (SHSL/SHLL).....42

# NOMENCLATURE



## Available SKUs - Condensing Unit

| Available Models | 011 - TIME DELAY | 035 - GOLD FIN | A35 - TIME DELAY AND GOLD FIN | Power Supply |
|---|---|---|---|---|
| SAGN-018TA | SAGN-018TA011 | SAGN-018TA035 | SAGN-018TAA35 | 220~240V/1Ph/50Hz |
| SAGN-024TA | SAGN-024TA011 | SAGN-024TA035 | SAGN-024TAA35 | |
| SAGL-030TA | SAGL-030TA011 | SAGL-030TA035 | SAGL-030TAA35 | |
| SAGL-030TS | SAGL-030TS011 | NA | SAGL-030TSA35 | |
| SAGL-036TA | SAGL-036TA011 | SAGL-036TA035 | SAGL-036TAA35 | |
| SAGL-036TS | SAGL-036TS011 | NA | SAGL-036TSA35 | |
| SAGL-042TA | SAGL-042TA011 | SAGL-042TA035 | SAGL-042TAA35 | |
| SAGL-048NA | SAGL-048NA011 | SAGL-048NA035 | SAGL-048NAA35 | 380~415V/3Ph/50Hz |
| SAGL-048NS | SAGL-048NS011 | NA | SAGL-048NS011 | |
| SAGN-048NA | SAGN-048NA011 | SAGN-048NA035 | SAGN-048NAA35 | |
| SAGL-060NA | SAGL-060NA011 | SAGL-060NA035 | SAGL-060NAA35 | |
| SAGN-060NA | SAGN-060NA011 | SAGN-060NA035 | SAGN-060NAA35 | |
| SAGN-065 | SAGN-065NA011 | SAGN-065NA035 | SAGN-065NAA35 | |
| SAGN-066 | SAGN-066NA011 | NA | NA | |

## Available SKUs - Air Handler

| Available Models - Air Handler | |
|---|---|
| EL3T | EL3T1812SPBCTA |
| | EL3T2412SPBCTA |
| | EL3T3012SPBCTA |
| | EL3T3612SPBCTA |
| | EL3T4217STACTA |
| | EL3T4817STACTA |
| | EL3T6017STACTA |
| | EL3T6518STACTA |
| | |
| Available Models - Air Handler | |
| SHSL | SHSL-HM4217TA |
| SHLL | SHLL-HM6021TA |
| | SHLL-HM6524TA |

## SAGN STANDARD FEATURES

- Outdoor air conditioner designed for ground level or rooftop installations. These units offer comfort and dependability for single, multi-family and light commercial applications.
- Condenser coils constructed with copper tubing and enhanced aluminum fins.
- Grille/Motor mount for quiet fan operation
- Filter Drier (shipped – not installed)
- 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.
- Compressors have an internal pressure-relief assembly to protect against excessive pressure differential.
- All refrigerant connections are on the exterior of the units, located close to the ground for neat appearing installations.
- Cabinet is constructed of painted galvanized steel rated at 1008 hours salt spray per ASTM-B117. The full wraparound louvered grille protects the coil from damage.
- The control box is located on the top side corner of the cabinet providing for easy access through a service panel.
- Service valves are standard on all models.
- Power and control wiring are kept separate.
- Every unit is factory charged and tested.
- Drawn base pan for extra corrosion resistance and sound reduction.

### Accessories

- Crankcase Heater
- Sound Enclosure

## SAGL STANDARD FEATURES

- Scroll compressor is hermeticaly 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.
- Compressors have an internal pressure-relief assembly to protect against excessive pressure differential.
- All refrigerant connections are on the exterior of the units, located closw to the ground for neat appearing installations.
- Cabinet is constructed of painted galvanized steel rated at 1008 hours salt spray per ASTM-B117.
- The full wraparound louvered grille protects the coil from damage.
- The control box is located on the top side corner of the cabinet providing for easy access through a service panel.
- Service valvers are standard on all models.
- Power and control wiring are kept separate.
- Every unit is factory charged and tested
- Drawn base pan for extra corrosion resistance and sound reduction.
- 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 (RXAB-A07).

### Applications

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

### Accessories

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

## EL3T STANDARD FEATURES

- All standard air handler models only 10.5" high.(up to 3TR only).
- Attractive pre-painted cabinet exterior.
  Rugged wall steel cabinet construction, designed for added strength and versatility.
- Insulation in blower compartment for excellent thermal and sound performance
- Resilient ring blower mount.
- Removable blower deck assembly for service and mantenance convenience.
  Indoor coil design provides low air side pressure drop, high performance and extermely compact size.
- Coils are constructed of aluminum fins bonded to internally grooved copper tubing.
- Coils are tested at the factory with an extensive refrigerant leak check.
- Coils have copper sweat refrigerant connections.
- Molded polymer corrosion resistant condensate drain pan is provided on all indoor coils.
- Connection point for both high and low voltage field wiring are located in the external control box on the side of the air handler cabinet.
- Refrigerant connections are located above external control box on the side of the unit. Drain connections are located on each side of the plastic drain pan.
- EL3T feature a Constant Torque motor (ECM) which provides enhanced EER performance with Rheem outdoor units.
- Factory-installed indoor coil.
- 1 1/2 ton [5.3kW] through 3 ton [10.5 kW] models are 10.5 inches [267 mm] tall and between 24 3/8 to 25 1/4 inches [619 to 642 mm] deep
- All models meet or exceed 300 to 400 CFM [156 to 189 L/s] per ton at .3 inches [.7kPa] of external static pressure.
- Airflow up to .3" external static pressure (ESP) for 1.5 to 2.5 tons, up to .5" ESP for 3 ton and up to 0.8" ESP for models above 3 ton.

[ ] Designates metric Conversions

## SHLL/SHSL STANDARD FEATURES

- Models are between 42-1/2 to 55-1/2 inches [1080 to 1410 mm ] tall (long, in case of horizontal installation) and 22 inches [559 mm] deep
- Versatile 4-way field convertible design for upflow, downflow, horizontal left side and horizontal right side applicatitons.
- Factory - installed high efficiency indoor coil with Thermostic expansion valve.
- All models meet or exceed 330 to 400 CFM [156 to 189 L/s] per ton at .3 inches [.7 kPa] of external static pressure.
- Enhanced airflow up to .7" external static pressure.
- Sturdy construction with 1/2 inch of reinforced foill faced jacket insulation for excellent thermal and sound lining.
- Field- installed auxiliary electric heater kits provide exact heat for indoor comfort. Kits include circuit breakers which meet UL requirements for servces disconnect.
- Attractive pre-painted cabinet exterior.
- Rugged wall steel cabinet construction, designed for added strength and versatility.
- Four leg blower motor mount.
- Blower housing with controls, motor and blower, side out design for serice and maintenance conveience.
- Indoor coil design provides low air side pressure drop, high performance and extermely compact size.
- Concentric knockouts are provided for power connection to cabinet. Installer may pull desired hole size up to 2 inches [51mm] for 1-1/2 inch [38 mm] conduit.
- Expansion valve on indoor coil suitable for operation with air conditioning or heat pump using the same coil.
- Coils are constructed of aluminum fins bonded to internaly grooved copper tubing.
- Moulded polymer corrosion resistant condensate drain pan is provided on all indoor coils (vertical installation).
- Metalic drain pan is provided on all horizontal installations
- Supply duct flanges provided as standard on air handler cabinet.
- Provisions for field electrical connection available from either side or top of the air handler cabinet.
- Connection point for high voltage wiring is inside the air handler cabinet. Low voltage connnection is made on the outside of the air handler cabinet.
- Front refrigerant and drain connections.

# PERFORMANCE DATA CALCULATION PROCEDURE

Apply interpo lation method to get the required temperatures that are not stated in the table. Extrapolation is not allowed.

See the example of calculation procedure below:

GROSS SYSTEMS PERFORMANCE DATA - SAGN-018TA+EL3T1812SPACTA

| Indoor | | | Outdoor Temperature | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 95°F [35°C] | | | 115°F [46°C] | | | 118.4°F [48°C] | | | 126°F [52°C] | | |
| Air Flow CFM [L/s] | WBE | DBE | Total Capacity | Sensible Capacity | Power Input | Total Capacity | Sensible Capacity | Power Input | Total Capacity | Sensible Capacity | Power Input | Total Capacity | Sensible Capacity | Power Input |
| | | | MBH | MBH | kW | MBH | MBH | kW | MBH | MBH | kW | MBH | MBH | kW |
| 430 [203] | 61°F [16°C] | 70°F | 17.06 | 11.51 | 1.49 | 15.20 | 10.51 | 1.87 | 14.82 | 10.34 | 1.94 | 13.94 | 9.93 | 2.11 |
| | | 75°F | 16.85 | 13.70 | 1.48 | 15.05 | 12.87 | 1.87 | 14.84 | 12.56 | 1.94 | 14.01 | 12.22 | 2.12 |
| | | 81°F | 17.26 | 16.59 | 1.48 | 15.31 | 15.20 | 1.87 | 14.99 | 14.92 | 1.93 | 14.35 | 14.34 | 2.09 |
| | | 86°F | 17.70 | 17.70 | 1.50 | 16.12 | 16.12 | 1.88 | 15.81 | 15.81 | 1.95 | 15.34 | 15.34 | 2.08 |
| | 66°F [19°C] | 75°F | 18.53 | 11.44 | 1.50 | 16.55 | 10.49 | 1.88 | 16.31 | 10.54 | 1.96 | 15.37 | 10.06 | 2.12 |
| | | 81°F | 18.66 | 14.43 | 1.50 | 16.59 | 13.25 | 1.89 | 16.30 | 13.27 | 1.96 | 15.32 | 12.58 | 2.13 |
| | | 86°F | 18.76 | 16.46 | 1.51 | 16.75 | 15.87 | 1.89 | 16.38 | 15.68 | 1.96 | 15.84 | 15.42 | 2.08 |
| | | 91°F | 18.96 | 18.96 | 1.50 | 17.27 | 17.27 | 1.89 | 16.79 | 16.79 | 1.96 | 16.32 | 16.32 | 2.09 |
| | 72°F [22°C] | 81°F | 20.98 | 11.51 | 1.53 | 18.57 | 10.58 | 1.92 | 18.22 | 10.44 | 1.97 | 17.12 | 10.02 | 2.15 |
| | | 86°F | 20.92 | 13.89 | 1.53 | 18.53 | 12.91 | 1.92 | 18.25 | 12.85 | 1.97 | 17.14 | 12.41 | 2.15 |
| | | 91°F | 20.77 | 16.02 | 1.52 | 18.40 | 15.06 | 1.90 | 18.20 | 14.97 | 1.97 | 17.11 | 14.56 | 2.15 |
| | | 97°F | 20.78 | 18.87 | 1.52 | 18.73 | 18.20 | 1.91 | 18.35 | 18.05 | 1.97 | 17.69 | 17.69 | 2.07 |

Required conditions:

Outdoor temperature: 120°F
On-coil temperature [DB/WB]: 76°F/63°F
Airflow: 430 CFM

From the Performance table, the following are determined:

1. 76°F DB is between 75°F and 81°F, interpolation can be applied
2. 63°F WB is between 61°F and 66°F, interpolation can be applied
3. 120°F outdoor temperature is between 118.4°F and 126°F, interpolation can be applied

| Indoor | | | Outdoor Temperature | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 95°F [35°C] | | | 115°F [46°C] | | | ***118.4°F [48°C]*** | | | ***126°F [52°C]*** | | |
| Air Flow CFM [L/s] | WBE | DBE | Total Capacity | Sensible Capacity | Power Input | Total Capacity | Sensible Capacity | Power Input | Total Capacity | Sensible Capacity | Power Input | Total Capacity | Sensible Capacity | Power Input |
| | | | MBH | MBH | kW | MBH | MBH | kW | MBH | MBH | kW | MBH | MBH | kW |
| 430 [203] | | 70°F | 17.06 | 11.51 | 1.49 | 15.20 | 10.51 | 1.87 | 14.82 | 10.34 | 1.94 | 13.94 | 9.93 | 2.11 |
| | | 75°F | 16.85 | 13.70 | 1.48 | 15.05 | 12.87 | 1.87 | 14.84 | 12.56 | 1.94 | 14.01 | 12.22 | 2.12 |
| | ***61°F [16°C]*** | **76°F** | | | | | | | ***Step 1*** | | | ***Step 3*** | | |
| | | 81°F | 17.26 | 16.59 | 1.48 | 15.31 | 15.20 | 1.87 | 14.99 | 14.92 | 1.93 | 14.35 | 14.34 | 2.09 |
| | | 86°F | 17.70 | 17.70 | 1.50 | 16.12 | 16.12 | 1.88 | 15.81 | 15.81 | 1.95 | 15.34 | 15.34 | 2.08 |
| | | 75°F | 18.53 | 11.44 | 1.50 | 16.55 | 10.49 | 1.88 | 16.31 | 10.54 | 1.96 | 15.37 | 10.06 | 2.12 |
| | ***66°F [19°C]*** | **76°F** | | | | | | | ***Step 2*** | | | ***Step 4*** | | |
| | | 81°F | 18.66 | 14.43 | 1.50 | 16.59 | 13.25 | 1.89 | 16.30 | 13.27 | 1.96 | 15.32 | 12.58 | 2.13 |
| | | 86°F | 18.76 | 16.46 | 1.51 | 16.75 | 15.87 | 1.89 | 16.38 | 15.68 | 1.96 | 15.84 | 15.42 | 2.08 |
| | | 91°F | 18.96 | 18.96 | 1.50 | 17.27 | 17.27 | 1.89 | 16.79 | 16.79 | 1.96 | 16.32 | 16.32 | 2.09 |
| | 72°F [22°C] | 81°F | 20.98 | 11.51 | 1.53 | 18.57 | 10.58 | 1.92 | 18.22 | 10.44 | 1.97 | 17.12 | 10.02 | 2.15 |
| | | 86°F | 20.92 | 13.89 | 1.53 | 18.53 | 12.91 | 1.92 | 18.25 | 12.85 | 1.97 | 17.14 | 12.41 | 2.15 |
| | | 91°F | 20.77 | 16.02 | 1.52 | 18.40 | 15.06 | 1.90 | 18.20 | 14.97 | 1.97 | 17.11 | 14.56 | 2.15 |
| | | 97°F | 20.78 | 18.87 | 1.52 | 18.73 | 18.20 | 1.91 | 18.35 | 18.05 | 1.97 | 17.69 | 17.69 | 2.07 |

Solution:

Step 1: Interpolate to get the values of TC, SC and PI at 76°F/61°F On coil and outdoor 118.4°F.

| Air Flow CFM [L/s] | WBE | DBE | 118.4°F [48°C] | | |
|---|---|---|---|---|---|
| | | | Total Capacity | Sensible Capacity | Power Input |
| | | | MBH | MBH | kW |
| 430 [203] | 61°F [16°C] | 70°F | 14.82 | 10.34 | 1.94 |
| | | 75°F | 14.84 | 12.56 | 1.94 |
| | | ***76°F*** | ***Step 1*** | | |
| | | 81°F | 14.99 | 14.92 | 1.93 |
| | | 86°F | 15.81 | 15.81 | 1.95 |

$$TC_1: \quad \frac{76°F-75°F}{81°F-75°F} = \frac{TC_1-14.84}{14.99-14.84}$$

$TC_1$: 14.865 MBH

Follow the same steps to get $SC_1$ and $PI_1$.

$SC_1$: 12.953 MBH

$PI_1$: 1.938 kW

Step 2: Interpolate to get the values of TC, SC and PI at 76°F/66°F On coil and outdoor 118.4°F.

| Air Flow CFM [L/s] | WBE | DBE | 118.4°F [48°C] | | |
|---|---|---|---|---|---|
| | | | Total Capacity | Sensible Capacity | Power Input |
| | | | MBH | MBH | kW |
| 430 [203] | 66°F [19°C] | 75°F | 16.31 | 10.54 | 1.96 |
| | | ***76°F*** | ***Step 2*** | | |
| | | 81°F | 16.30 | 13.27 | 1.96 |
| | | 86°F | 16.38 | 15.68 | 1.96 |
| | | 91°F | 16.79 | 16.79 | 1.96 |

$$TC_2: \quad \frac{76°F-75°F}{81°F-75°F} = \frac{TC_2-16.31}{16.30-16.31}$$

$TC_2$: 16.308 MBH

Follow the same steps to get $SC_2$ and $PI_2$.

$SC_2$: 10.995 MBH

$PI_2$: 1.96 kW

Step 3: Interpolate to get the values of TC, SC and PI at 76°F/61°F On-coil and outdoor 126°F.

| Air Flow CFM [L/s] | WBE | DBE | 126°F [52°C] Total Capacity | Sensible Capacity | Power Input |
|---|---|---|---|---|---|
| | | | MBH | MBH | kW |
| 430 [203] | 61°F [16°C] | 70°F | 13.94 | 9.93 | 2.11 |
| | | 75°F | 14.01 | 12.22 | 2.12 |
| | | ***76°F*** | ***Step 3*** | | |
| | | 81°F | 14.35 | 14.34 | 2.09 |
| | | 86°F | 15.34 | 15.34 | 2.08 |

$$TC_3: \quad \frac{76°F-75°F}{81°F-75°F} = \frac{TC_3-14.01}{14.35-14.01}$$

$TC_3$: 14.067 MBH

Follow the same steps to get $SC_3$ and $PI_3$.

$SC_3$: 12.573 MBH

$PI_3$: 2.115 kW

Step 4: Interpolate to get the values of TC, SC and PI at 76°F/66°F On-coil and outdoor 126°F.

| Air Flow CFM [L/s] | WBE | DBE | 126°F [52°C] Total Capacity | Sensible Capacity | Power Input |
|---|---|---|---|---|---|
| | | | MBH | MBH | kW |
| 430 [203] | 66°F [19°C] | 75°F | 15.37 | 10.06 | 2.12 |
| | | **76°F** | **Step 4** | | |
| | | 81°F | 15.32 | 12.58 | 2.13 |
| | | 86°F | 15.84 | 15.42 | 2.08 |
| | | 91°F | 16.32 | 16.32 | 2.09 |

$$TC_4: \quad \frac{76°F-75°F}{81°F-75°F} = \frac{TC_4-15.37}{15.32-15.37}$$

$TC_4$: 15.361 MBH

Follow the same steps to get $SC_4$ and $PI_4$.

$SC_4$: 10.48 MBH

$PI_4$: 2.12 kW

Step 5: Interpolate the results of TC, SC and PI at 76°F/61°F in Step 1 [118.4°F] and Step 3 [126°F] to get the values at Step 5 [120°F].

| Indoor | | | 118.4°F [48°C] | | | 120°F [48.9°C] | | | 126°F [52°C] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Air Flow CFM [L/s] | WBE | DBE | Total Capacity | Sensible Capacity | Power Input | Total Capacity | Sensible Capacity | Power Input | Total Capacity | Sensible Capacity | Power Input |
| | | | MBH | MBH | kW | MBH | MBH | kW | MBH | MBH | kW |
| 430 [203] | 61°F [16°C] | ***76°F*** | 14.87 | 12.95 | 1.94 | ***Step 5*** | | | 14.07 | 12.57 | 2.12 |

$TC_5$: 14.67 MBH
$SC_5$: 12.86 MBH
$PI_5$: 1.985 kW

Step 6: Interpolate the results of TC, SC and PI at 76°F/66°F in Step 2 [118.4°F] and Step 4 [126°F] to get the values at Step 6 [120°F].

| Indoor | | | Outdoor Temperature | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 118.4°F [48°C] | | | 120°F [48.9°C] | | | 126°F [52°C] | | |
| Air Flow CFM [L/s] | WBE | DBE | Total Capacity | Sensible Capacity | Power Input | Total Capacity | Sensible Capacity | Power Input | Total Capacity | Sensible Capacity | Power Input |
| | | | MBH | MBH | kW | MBH | MBH | kW | MBH | MBH | kW |
| 430 [203] | 66°F [19°C] | ***76°F*** | 16.31 | 11.00 | 1.96 | ***Step 6*** | | | 15.36 | 10.48 | 2.12 |

$TC_6$: 16.073 MBH
$SC_6$: 10.87 MBH
$PI_6$: 2.0 kW

Step 7: Interpolate the results of TC, SC and PI of Step 5 [76°F/61°F and 120°F] and Step 6 [76°F/66°F and 120°F] to get the values at 76°F/63°F On-coil and 120°F outdoor.

| Indoor | | | Outdoor Temperature | | |
|---|---|---|---|---|---|
| | | | 120°F [48.9°C] | | |
| Air Flow CFM [L/s] | WBE | DBE | Total Capacity | Sensible Capacity | Power Input |
| | | | MBH | MBH | kW |
| 430 [203] | 61°F [16°C] | 76°F | 14.67 | 12.86 | 1.99 |
| | 63°F [19°C] | ***76°F*** | ***Step 7*** | | |
| | 66°F [19°C] | 76°F | 16.07 | 10.87 | 2.00 |

$TC_7$: 15.23 MBH
$SC_7$: 12.06 MBH
$PI_7$: 1.99 kW

| TOP DISCHARGE CONDENSING UNIT WITH LOW HEIGHT INDOOR UNIT | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ODU | IDU | T1 | | | | T3 | | | |
| | | Rated Capacity (Btu/Hr) | Rated EER | Rated Power (KW) | Rated Current (Amps) | Rated Capacity (Btu/Hr) | Rated EER | Rated Power (KW) | Rated Current (Amps) |
| SAGN-018TA | EL3T1812SPBCTA | 19000 | 13 | 1.461 | 7.42 | 17000 | 9.09 | 1.57 | 10.1 |
| SAGN-024TA | EL3T2412SPBCTA | 22500 | 13 | 1.731 | 8.79 | 19600 | 9.72 | 1.71 | 12.4 |
| SAGL-030TA | EL3T3012SPBCTA | 26595 | 12.37 | 2.15 | 11.7 | 23157 | 8.58 | 2.7 | 14.8 |
| SAGL-036TA | EL3T4217STACTA | 30561 | 11.75 | 2.6 | 12.52 | 27733 | 8.4 | 3.3 | 15.38 |
| SAGL-042TA | EL3T4217STACTA | 37087 | 11.81 | 3.14 | 15 | 34551 | 8.86 | 3.9 | 18 |
| SAGL-048NA | EL3T4817STACTA | 43540 | 12.96 | 3.36 | 8 | 39241 | 9.13 | 4.3 | 9 |
| SAGL-060NA | EL3T6518STACTA | 58014 | 11.84 | 4.9 | 12 | 50148 | 8.36 | 6 | 14 |
| SAGN-065NA | EL3T6518STACTA | 62300 | 12.13 | 5.138 | 7.99 | 58500 | 9.36 | 6.25 | 9.43 |

| TOP DISCHARGE CONDENSING UNIT WITH AMERICAN STYLE INDOOR UNIT | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ODU | IDU | T1 | | | | T3 | | | |
| | | Rated Capacity | Rated EER | Rated Power | Rated Current | Rated Capacity | Rated EER | Rated Power | Rated Current |
| SAGL-036TA | SHSL-HM4217TA | 31550 | 11.55 | 2.73 | 12.2 | 28024 | 9.69 | 2.891 | 14.9 |
| SAGN-048NA | SHLL-HM6021TA | 47594 | 12.6 | 3.78 | 6.67 | 42769 | 9.3 | 4.6 | 7.37 |
| SAGN-060NA | SHLL-HM6524TA | 62185 | 13.66 | 4.553 | 7.47 | 55215 | 10.26 | 5.382 | 8.27 |
| SAGN-066NA | SHLL-HM6524TA | 67820 | 12.87 | 5.269 | 9.03 | 60603 | 9.64 | 6.29 | 10.23 |

## GROSS SYSTEMS PERFORMANCE DATA - SAGN-018TA+EL3T1812SPBCTA

| Indoor | | | | 95 | | | | | 115 | | | | | 118.4 | | | | | 126 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Air Flow - CFM [L/s] | WBE | DBE | | Total Capacity | | Sensible Capacity | | Power Input | Total Capacity | | Sensible Capacity | | Power Input | Total Capacity | | Sensible Capacity | | Power Input | Total Capacity | | Sensible Capacity | | Power Input |
| | | | | kW | kBTUH | kW | kBTUH | kW | kW | kBTUH | kW | kBTUH | kW | kW | kBTUH | kW | kBTUH | kW | kW | kBTUH | kW | kBTUH | kW |
| 430 [203] | 61 | 70 | 21°F | 4.86 | 16.58 | 3.28 | 11.18 | 1.31 | 4.33 | 14.77 | 3.00 | 10.22 | 1.65 | 4.21 | 14.37 | 2.94 | 10.03 | 1.71 | 3.97 | 13.55 | 2.83 | 9.65 | 1.85 |
| | | 75 | 24°F | 4.80 | 16.38 | 3.90 | 13.32 | 1.30 | 4.29 | 14.63 | 3.67 | 12.51 | 1.64 | 4.22 | 14.39 | 3.57 | 12.19 | 1.71 | 3.99 | 13.62 | 3.48 | 11.87 | 1.86 |
| | | 81 | 27°F | 4.92 | 16.78 | 4.73 | 16.12 | 1.30 | 4.36 | 14.88 | 4.33 | 14.78 | 1.65 | 4.26 | 14.53 | 4.24 | 14.48 | 1.71 | 4.09 | 13.95 | 4.08 | 13.94 | 1.83 |
| | | 86 | 30°F | 5.04 | 17.21 | 5.04 | 17.21 | 1.31 | 4.59 | 15.66 | 4.59 | 15.66 | 1.65 | 4.49 | 15.33 | 4.50 | 15.35 | 1.72 | 4.37 | 14.91 | 4.37 | 14.91 | 1.82 |
| | 67 | 75 | 24°C | 5.36 | 18.31 | 3.13 | 10.69 | 1.32 | 4.80 | 16.38 | 2.87 | 9.78 | 1.66 | 4.72 | 16.11 | 2.87 | 9.80 | 1.73 | 4.43 | 15.12 | 2.74 | 9.36 | 1.87 |
| | | 80 | 26.7°C | 5.40 | 18.41 | 3.85 | 13.15 | 1.32 | 4.81 | 16.42 | 3.53 | 12.04 | 1.66 | 4.72 | 16.10 | 3.53 | 12.04 | 1.73 | 4.45 | 15.17 | 3.35 | 11.42 | 1.87 |
| | | 86 | 30°C | 5.43 | 18.53 | 4.56 | 15.57 | 1.33 | 4.86 | 16.57 | 4.40 | 15.00 | 1.67 | 4.74 | 16.19 | 4.34 | 14.80 | 1.73 | 4.60 | 15.70 | 4.27 | 14.56 | 1.88 |
| | | 91 | 33°C | 5.49 | 18.73 | 5.28 | 18.01 | 1.33 | 5.01 | 17.09 | 4.80 | 16.36 | 1.67 | 4.86 | 16.58 | 4.65 | 15.87 | 1.73 | 4.74 | 16.16 | 4.53 | 15.44 | 1.88 |
| | 72 | 81 | 27°F | 5.98 | 20.40 | 3.28 | 11.19 | 1.35 | 5.29 | 18.05 | 3.01 | 10.28 | 1.69 | 5.18 | 17.67 | 2.97 | 10.13 | 1.74 | 4.88 | 16.64 | 2.85 | 9.74 | 1.89 |
| | | 86 | 30°F | 5.96 | 20.34 | 3.96 | 13.50 | 1.34 | 5.28 | 18.01 | 3.68 | 12.55 | 1.69 | 5.19 | 17.70 | 3.65 | 12.47 | 1.74 | 4.88 | 16.66 | 3.54 | 12.06 | 1.89 |
| | | 91 | 33°C | 5.92 | 20.19 | 4.56 | 15.57 | 1.34 | 5.24 | 17.88 | 4.29 | 14.63 | 1.67 | 5.17 | 17.66 | 4.26 | 14.53 | 1.74 | 4.88 | 16.64 | 4.15 | 14.15 | 1.89 |
| | | 97 | 36°C | 5.92 | 20.20 | 5.38 | 18.34 | 1.34 | 5.34 | 18.20 | 5.19 | 17.69 | 1.68 | 5.21 | 17.79 | 5.14 | 17.53 | 1.74 | 5.04 | 17.20 | 5.04 | 17.20 | 1.82 |
| 525 [248] | 61 | 70 | 21°F | 4.90 | 16.72 | 3.35 | 11.44 | 1.32 | 4.36 | 14.87 | 3.10 | 10.58 | 1.66 | 4.22 | 14.41 | 3.03 | 10.33 | 1.73 | 4.01 | 13.69 | 2.94 | 10.05 | 1.87 |
| | | 75 | 24°F | 4.94 | 16.86 | 4.04 | 13.78 | 1.32 | 4.35 | 14.85 | 3.77 | 12.86 | 1.66 | 4.28 | 14.62 | 3.73 | 12.72 | 1.73 | 4.03 | 13.75 | 3.60 | 12.30 | 1.86 |
| | | 81 | 27°F | 4.97 | 16.94 | 4.84 | 16.53 | 1.32 | 4.41 | 15.04 | 4.40 | 15.00 | 1.65 | 4.28 | 14.61 | 4.28 | 14.62 | 1.73 | 4.21 | 14.35 | 4.21 | 14.35 | 1.83 |
| | | 86 | 30°F | 5.17 | 17.64 | 5.17 | 17.64 | 1.33 | 4.68 | 15.96 | 4.68 | 15.96 | 1.67 | 4.56 | 15.56 | 4.57 | 15.58 | 1.74 | 4.43 | 15.12 | 4.43 | 15.12 | 1.86 |
| | 67 | 75 | 24°C | 5.47 | 18.68 | 3.24 | 11.06 | 1.34 | 4.86 | 16.59 | 2.98 | 10.17 | 1.68 | 4.74 | 16.18 | 2.92 | 9.97 | 1.74 | 4.60 | 15.68 | 2.86 | 9.75 | 1.85 |
| | | 80 | 26.7°C | 5.44 | 18.55 | 3.91 | 13.34 | 1.34 | 4.86 | 16.58 | 3.67 | 12.53 | 1.68 | 4.76 | 16.24 | 3.61 | 12.30 | 1.75 | 4.62 | 15.75 | 3.54 | 12.08 | 1.85 |
| | | 86 | 30°C | 5.40 | 18.44 | 4.69 | 16.02 | 1.34 | 4.94 | 16.84 | 4.57 | 15.59 | 1.69 | 4.81 | 16.40 | 4.50 | 15.36 | 1.76 | 4.64 | 15.83 | 4.43 | 15.11 | 1.86 |
| | | 91 | 33°C | 5.36 | 18.29 | 5.33 | 18.19 | 1.34 | 5.06 | 17.26 | 4.85 | 16.54 | 1.69 | 4.96 | 16.94 | 4.76 | 16.24 | 1.76 | 4.82 | 16.46 | 4.61 | 15.74 | 1.86 |
| | 72 | 81 | 27°F | 6.09 | 20.79 | 3.39 | 11.57 | 1.36 | 5.32 | 18.14 | 3.08 | 10.53 | 1.70 | 5.21 | 17.79 | 3.04 | 10.39 | 1.75 | 5.09 | 17.38 | 3.00 | 10.24 | 1.84 |
| | | 86 | 30°F | 5.99 | 20.45 | 4.10 | 13.98 | 1.36 | 5.33 | 18.19 | 3.84 | 13.09 | 1.70 | 5.25 | 17.93 | 3.78 | 12.90 | 1.75 | 4.86 | 16.59 | 3.54 | 12.08 | 1.91 |
| | | 91 | 33°C | 5.98 | 20.42 | 4.73 | 16.14 | 1.35 | 5.35 | 18.24 | 4.50 | 15.36 | 1.69 | 5.22 | 17.80 | 4.44 | 15.17 | 1.75 | 5.07 | 17.30 | 4.35 | 14.85 | 1.85 |
| | | 97 | 36°C | 6.05 | 20.64 | 5.56 | 18.98 | 1.36 | 5.41 | 18.46 | 5.40 | 18.42 | 1.69 | 5.26 | 17.96 | 5.27 | 17.98 | 1.76 | 5.11 | 17.43 | 5.11 | 17.43 | 1.85 |
| 700 [330] | 61 | 70 | 21°F | 4.98 | 17.00 | 3.50 | 11.94 | 1.34 | 4.37 | 14.91 | 3.18 | 10.84 | 1.67 | 4.29 | 14.65 | 3.13 | 10.69 | 1.74 | 4.02 | 13.72 | 3.01 | 10.25 | 1.89 |
| | | 75 | 24°F | 5.01 | 17.09 | 4.24 | 14.48 | 1.35 | 4.42 | 15.08 | 3.96 | 13.52 | 1.68 | 4.31 | 14.70 | 3.90 | 13.32 | 1.75 | 4.12 | 14.07 | 3.82 | 13.03 | 1.88 |
| | | 81 | 27°F | 5.12 | 17.48 | 5.10 | 17.40 | 1.35 | 4.54 | 15.51 | 4.54 | 15.51 | 1.69 | 4.46 | 15.23 | 4.47 | 15.24 | 1.75 | 4.28 | 14.62 | 4.28 | 14.62 | 1.88 |
| | | 86 | 30°F | 5.28 | 18.00 | 5.28 | 18.00 | 1.35 | 4.82 | 16.45 | 4.82 | 16.45 | 1.69 | 4.71 | 16.07 | 4.71 | 16.08 | 1.76 | 4.61 | 15.71 | 4.61 | 15.71 | 1.87 |
| | 67 | 75 | 24°C | 5.57 | 18.99 | 3.38 | 11.53 | 1.36 | 4.86 | 16.57 | 3.05 | 10.40 | 1.70 | 4.74 | 16.19 | 3.00 | 10.22 | 1.76 | 4.60 | 15.69 | 2.93 | 10.01 | 1.87 |
| | | 80 | 26.7°C | 5.57 | 19.00 | 4.14 | 14.13 | 1.46 | 4.98 | 17.00 | 3.87 | 13.19 | 1.57 | **4.60** | **15.70** | 3.82 | 13.04 | **1.60** | 4.62 | 15.78 | 3.72 | 12.70 | 1.87 |
| | | 86 | 30°C | 5.60 | 19.11 | 5.01 | 17.10 | 1.36 | 4.99 | 17.04 | 4.78 | 16.32 | 1.71 | 4.84 | 16.50 | 4.63 | 15.80 | 1.77 | 4.68 | 15.97 | 4.47 | 15.25 | 1.87 |
| | | 91 | 33°C | 5.64 | 19.24 | 5.43 | 18.52 | 1.36 | 5.19 | 17.69 | 4.97 | 16.97 | 1.71 | 5.10 | 17.39 | 4.89 | 16.69 | 1.77 | 4.97 | 16.95 | 4.76 | 16.23 | 1.88 |
| | 72 | 81 | 27°F | 6.11 | 20.85 | 3.50 | 11.95 | 1.38 | 5.37 | 18.32 | 3.21 | 10.96 | 1.72 | 5.22 | 17.80 | 3.12 | 10.65 | 1.77 | 5.07 | 17.29 | 3.06 | 10.46 | 1.87 |
| | | 86 | 30°F | 6.07 | 20.71 | 4.23 | 14.43 | 1.38 | 5.37 | 18.33 | 3.97 | 13.53 | 1.72 | 5.28 | 18.01 | 3.96 | 13.52 | 1.77 | 5.09 | 17.37 | 3.89 | 13.27 | 1.86 |
| | | 91 | 33°C | 6.11 | 20.83 | 5.03 | 17.18 | 1.38 | 5.43 | 18.51 | 4.78 | 16.31 | 1.72 | 5.28 | 18.00 | 4.74 | 16.18 | 1.78 | 5.09 | 17.36 | 4.65 | 15.86 | 1.86 |
| | | 97 | 36°C | 6.16 | 21.02 | 6.03 | 20.56 | 1.38 | 5.48 | 18.71 | 5.48 | 18.71 | 1.72 | 5.37 | 18.33 | 5.38 | 18.35 | 1.76 | 5.22 | 17.81 | 5.22 | 17.81 | 1.88 |

DBE —Entering air dry bulb
WBE—Entering air wet bulb
Power Input kW - Total Power Input

**[ ] Designates Metric Conversions**

## GROSS SYSTEMS PERFORMANCE DATA - SAGN-024TA+EL3T2412SPBCTA

| Indoor | | | | 95 | | | | | 115 | | | | | 118.4 | | | | | 126 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Air Flow - CFM [L/s] | WBE | DBE | | Total Capacity | | Sensible Capacity | | Power Input | Total Capacity | | Sensible Capacity | | Power Input | Total Capacity | | Sensible Capacity | | Power Input | Total Capacity | | Sensible Capacity | | Power Input |
| | | | | kW | kBTUH | kW | kBTUH | kW | kW | kBTUH | kW | kBTUH | kW | kW | kBTUH | kW | kBTUH | kW | kW | kBTUH | kW | kBTUH | kW |
| 650 [307] | 61 | 70 | 21°F | 5.59 | 19.06 | 3.90 | 13.30 | 1.40 | 4.84 | 16.52 | 3.50 | 11.95 | 1.72 | 4.72 | 16.11 | 3.44 | 11.74 | 1.77 | 4.52 | 15.43 | 3.35 | 11.44 | 1.88 |
| | | 75 | 24°F | 5.54 | 18.90 | 4.72 | 16.09 | 1.40 | 4.88 | 16.65 | 4.30 | 14.67 | 1.72 | 4.76 | 16.25 | 4.32 | 14.73 | 1.77 | 4.57 | 15.59 | 4.15 | 14.17 | 1.90 |
| | | 81 | 27°F | 5.63 | 19.21 | 5.63 | 19.21 | 1.39 | 5.04 | 17.19 | 5.04 | 17.19 | 1.72 | 4.97 | 16.95 | 4.96 | 16.92 | 1.80 | 4.76 | 16.25 | 4.76 | 16.25 | 1.89 |
| | | 86 | 30°F | 5.95 | 20.29 | 5.95 | 20.29 | 1.40 | 5.37 | 18.31 | 5.37 | 18.31 | 1.73 | 5.25 | 17.93 | 5.24 | 17.89 | 1.79 | 5.08 | 17.32 | 5.08 | 17.32 | 1.90 |
| | 67 | 75 | 24°C | 6.17 | 21.05 | 3.77 | 12.85 | 1.41 | 5.38 | 18.36 | 3.47 | 11.84 | 1.73 | 5.26 | 17.95 | 3.41 | 11.65 | 1.79 | 5.12 | 17.47 | 3.26 | 11.13 | 1.89 |
| | | 80 | 26.7°C | 6.22 | 21.21 | 4.63 | 15.81 | 1.41 | 5.45 | 18.60 | 4.30 | 14.67 | 1.73 | 5.33 | 18.20 | 4.27 | 14.58 | 1.79 | 5.14 | 17.54 | 4.14 | 14.11 | 1.89 |
| | | 86 | 30°C | 6.29 | 21.46 | 5.62 | 19.19 | 1.41 | 5.54 | 18.89 | 5.32 | 18.16 | 1.73 | 5.47 | 18.65 | 5.25 | 17.90 | 1.80 | 5.20 | 17.76 | 4.99 | 17.04 | 1.88 |
| | | 91 | 33°C | 6.35 | 21.68 | 6.14 | 20.96 | 1.41 | 5.80 | 19.78 | 5.58 | 19.06 | 1.73 | 5.70 | 19.46 | 5.48 | 18.70 | 1.80 | 5.55 | 18.92 | 5.33 | 18.20 | 1.89 |
| | 72 | 81 | 27°F | 6.76 | 23.06 | 3.88 | 13.24 | 1.42 | 5.95 | 20.30 | 3.53 | 12.05 | 1.75 | 5.86 | 19.98 | 3.49 | 11.91 | 1.82 | 5.67 | 19.36 | 3.42 | 11.68 | 1.88 |
| | | 86 | 30°F | 6.82 | 23.27 | 4.76 | 16.23 | 1.43 | 6.02 | 20.56 | 4.43 | 15.11 | 1.76 | 5.89 | 20.10 | 4.41 | 15.03 | 1.81 | 5.78 | 19.73 | 4.36 | 14.89 | 1.88 |
| | | 91 | 33°C | 6.79 | 23.18 | 5.60 | 19.10 | 1.42 | 6.07 | 20.73 | 5.33 | 18.20 | 1.75 | 5.90 | 20.11 | 5.27 | 17.99 | 1.81 | 5.72 | 19.52 | 5.18 | 17.68 | 1.88 |
| | | 97 | 36°C | 6.83 | 23.31 | 6.66 | 22.71 | 1.42 | 6.10 | 20.83 | 6.10 | 20.83 | 1.75 | 6.01 | 20.50 | 6.00 | 20.46 | 1.82 | 5.85 | 19.97 | 5.85 | 19.97 | 1.89 |
| 700 [330] | 61 | 70 | 21°F | 5.58 | 19.02 | 3.97 | 13.54 | 1.41 | 4.87 | 16.62 | 3.58 | 12.21 | 1.74 | 4.81 | 16.40 | 3.63 | 12.38 | 1.80 | 4.53 | 15.45 | 3.42 | 11.67 | 1.89 |
| | | 75 | 24°F | 5.58 | 19.04 | 4.88 | 16.64 | 1.41 | 4.91 | 16.75 | 4.47 | 15.26 | 1.73 | 4.82 | 16.43 | 4.51 | 15.39 | 1.79 | 4.60 | 15.68 | 4.36 | 14.87 | 1.89 |
| | | 81 | 27°F | 5.65 | 19.30 | 5.65 | 19.30 | 1.41 | 5.14 | 17.55 | 5.14 | 17.55 | 1.75 | 5.04 | 17.21 | 5.03 | 17.17 | 1.81 | 4.90 | 16.73 | 4.90 | 16.73 | 1.92 |
| | | 86 | 30°F | 6.03 | 20.57 | 6.03 | 20.57 | 1.41 | 5.49 | 18.75 | 5.49 | 18.75 | 1.75 | 5.37 | 18.33 | 5.36 | 18.30 | 1.82 | 5.23 | 17.85 | 5.23 | 17.85 | 1.92 |
| | 67 | 75 | 24°C | 6.10 | 20.81 | 3.86 | 13.19 | 1.42 | 5.52 | 18.83 | 3.56 | 12.16 | 1.75 | 5.30 | 18.08 | 3.51 | 11.96 | 1.80 | 5.19 | 17.69 | 3.43 | 11.72 | 1.89 |
| | | 80 | 26.7°C | 6.18 | 21.08 | 4.75 | 16.22 | 1.42 | 5.53 | 18.86 | 4.49 | 15.31 | 1.75 | 5.37 | 18.34 | 4.42 | 15.07 | 1.80 | 5.20 | 17.73 | 4.30 | 14.69 | 1.89 |
| | | 86 | 30°C | 6.22 | 21.23 | 5.83 | 19.91 | 1.42 | 5.56 | 18.98 | 5.35 | 18.26 | 1.75 | 5.46 | 18.65 | 5.24 | 17.89 | 1.82 | 5.32 | 18.15 | 5.11 | 17.43 | 1.90 |
| | | 91 | 33°C | 6.46 | 22.06 | 6.25 | 21.34 | 1.42 | 5.93 | 20.24 | 5.72 | 19.52 | 1.75 | 5.82 | 19.85 | 5.60 | 19.10 | 1.82 | 5.63 | 19.23 | 5.42 | 18.50 | 1.91 |
| | 72 | 81 | 27°F | 6.77 | 23.12 | 3.94 | 13.43 | 1.43 | 6.03 | 20.56 | 3.64 | 12.41 | 1.77 | 5.88 | 20.05 | 3.58 | 12.21 | 1.82 | 5.77 | 19.67 | 3.57 | 12.20 | 1.90 |
| | | 86 | 30°F | 6.96 | 23.75 | 4.96 | 16.93 | 1.44 | 6.06 | 20.66 | 4.55 | 15.52 | 1.77 | 5.93 | 20.25 | 4.55 | 15.54 | 1.82 | 5.77 | 19.68 | 4.50 | 15.34 | 1.90 |
| | | 91 | 33°C | 6.88 | 23.47 | 5.80 | 19.78 | 1.43 | 6.08 | 20.74 | 5.49 | 18.74 | 1.76 | 5.96 | 20.34 | 5.48 | 18.68 | 1.82 | 5.77 | 19.68 | 5.39 | 18.40 | 1.89 |
| | | 97 | 36°C | 6.93 | 23.65 | 6.89 | 23.50 | 1.43 | 6.20 | 21.15 | 6.20 | 21.15 | 1.77 | 6.07 | 20.72 | 6.06 | 20.68 | 1.83 | 5.88 | 20.07 | 5.88 | 20.07 | 1.89 |
| 783 [370] | 61 | 70 | 21°F | 5.59 | 19.09 | 4.08 | 13.92 | 1.45 | 4.90 | 16.72 | 3.75 | 12.79 | 1.78 | 4.78 | 16.32 | 3.65 | 12.47 | 1.83 | 4.60 | 15.71 | 3.61 | 12.31 | 1.94 |
| | | 75 | 24°F | 5.62 | 19.17 | 5.08 | 17.34 | 1.45 | 4.95 | 16.89 | 4.77 | 16.27 | 1.78 | 4.81 | 16.42 | 4.59 | 15.66 | 1.83 | 4.65 | 15.87 | 4.53 | 15.47 | 1.93 |
| | | 81 | 27°F | 5.84 | 19.94 | 5.84 | 19.94 | 1.45 | 5.26 | 17.96 | 5.26 | 17.96 | 1.79 | 5.14 | 17.54 | 5.13 | 17.50 | 1.86 | 4.98 | 17.00 | 4.98 | 17.00 | 1.96 |
| | | 86 | 30°F | 6.20 | 21.15 | 6.20 | 21.15 | 1.47 | 5.58 | 19.04 | 5.58 | 19.04 | 1.79 | 5.46 | 18.62 | 5.45 | 18.58 | 1.86 | 5.31 | 18.13 | 5.31 | 18.13 | 1.96 |
| | 67 | 75 | 24°C | 6.14 | 20.95 | 4.01 | 13.68 | 1.47 | 5.49 | 18.72 | 3.60 | 12.28 | 1.79 | 5.35 | 18.26 | 3.54 | 12.07 | 1.85 | 5.15 | 17.56 | 3.45 | 11.76 | 1.94 |
| | | 80 | 26.7°C | 6.59 | 22.50 | 4.96 | 16.93 | 1.73 | 5.74 | 19.60 | 4.65 | 15.87 | 1.71 | **5.53** | **18.86** | 4.52 | 15.41 | **1.93** | 5.18 | 17.68 | 4.50 | 15.35 | 1.94 |
| | | 86 | 30°C | 6.30 | 21.50 | 6.09 | 20.78 | 1.47 | 5.63 | 19.21 | 5.42 | 18.49 | 1.79 | 5.53 | 18.86 | 5.31 | 18.11 | 1.86 | 5.34 | 18.22 | 5.13 | 17.50 | 1.94 |
| | | 91 | 33°C | 6.69 | 22.82 | 6.48 | 22.10 | 1.47 | 6.07 | 20.70 | 5.86 | 19.98 | 1.81 | 5.94 | 20.27 | 5.72 | 19.52 | 1.86 | 5.76 | 19.65 | 5.55 | 18.93 | 1.95 |
| | 72 | 81 | 27°F | 6.80 | 23.21 | 4.05 | 13.82 | 1.47 | 6.03 | 20.56 | 3.75 | 12.79 | 1.82 | 5.85 | 19.96 | 3.68 | 12.55 | 1.87 | 5.81 | 19.82 | 3.69 | 12.60 | 1.93 |
| | | 86 | 30°F | 6.82 | 23.27 | 5.10 | 17.41 | 1.48 | 6.07 | 20.71 | 4.80 | 16.37 | 1.81 | 5.97 | 20.38 | 4.77 | 16.29 | 1.87 | 5.80 | 19.78 | 4.70 | 16.02 | 1.94 |
| | | 91 | 33°C | 6.96 | 23.74 | 6.15 | 20.97 | 1.48 | 6.11 | 20.84 | 5.83 | 19.89 | 1.80 | 6.01 | 20.49 | 5.75 | 19.63 | 1.87 | 5.80 | 19.80 | 5.64 | 19.24 | 1.94 |
| | | 97 | 36°C | 6.99 | 23.84 | 6.99 | 23.84 | 1.48 | 6.26 | 21.36 | 6.26 | 21.36 | 1.81 | 6.15 | 20.98 | 6.14 | 20.95 | 1.87 | 6.01 | 20.52 | 6.01 | 20.52 | 1.94 |

DBE —Entering air dry bulb
WBE—Entering air wet bulb
Power Input kW - Total Power Input

**[ ] Designates Metric Conversions**

## GROSS SYSTEMS PERFORMANCE DATA - SAGL-030TA+EL3T3012SPBCTA

| Indoor | | | | Outdoor Ambient Temperature, DB | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 95°F [35°C] | | | | | 115°F [46°C] | | | | | 118.4°F [48°C] | | | | | 126°F [52°C] | | | | |
| Air Flow - CFM [L/s] | WBE | DBE | | Total Capacity | | Sensible Capacity | | Power Input | Total Capacity | | Sensible Capacity | | Power Input | Total Capacity | | Sensible Capacity | | Power Input | Total Capacity | | Sensible Capacity | | Power Input |
| | | | | kW | kBTUH | kW | kBTUH | kW | kW | kBTUH | kW | kBTUH | kW | kW | kBTUH | kW | kBTUH | kW | kW | kBTUH | kW | kBTUH | kW |
| 1021 [482] | 61°F [16°C] | 70 | 21°F | 7.12 | 24.29 | 4.96 | 16.94 | 2.05 | 6.27 | 21.42 | 4.54 | 15.50 | 2.63 | 6.09 | 20.80 | 4.45 | 15.20 | 2.73 | 5.74 | 19.60 | 4.28 | 14.60 | 2.99 |
| | | 75 | 24°F | 7.11 | 24.29 | 5.98 | 20.41 | 2.05 | 6.28 | 21.43 | 5.50 | 18.79 | 2.63 | 6.15 | 21.01 | 5.48 | 18.70 | 2.72 | 5.76 | 19.65 | 5.26 | 17.97 | 3.00 |
| | | 81 | 27°F | 7.12 | 24.30 | 7.13 | 24.34 | 2.05 | 6.36 | 21.72 | 6.65 | 22.71 | 2.62 | 6.18 | 21.10 | 6.45 | 22.02 | 2.74 | 5.90 | 20.13 | 6.16 | 21.04 | 3.00 |
| | | 86 | 30°F | 7.18 | 24.50 | 7.50 | 25.61 | 2.05 | 6.59 | 22.50 | 6.89 | 23.52 | 2.63 | 6.48 | 22.12 | 6.76 | 23.09 | 2.74 | 6.36 | 21.73 | 6.65 | 22.71 | 2.95 |
| | 66°F [19°C] | 75 | 24°F | 7.83 | 26.73 | 4.99 | 17.03 | 2.08 | 6.96 | 23.76 | 4.58 | 15.63 | 2.64 | 6.81 | 23.25 | 4.51 | 15.40 | 2.73 | 6.42 | 21.92 | 4.33 | 14.80 | 3.00 |
| | | 81 | 27°F | 7.83 | 26.72 | 6.21 | 21.19 | 2.08 | 6.95 | 23.74 | 5.78 | 19.74 | 2.64 | 6.82 | 23.28 | 5.72 | 19.52 | 2.74 | 6.40 | 21.84 | 5.47 | 18.68 | 3.01 |
| | | 86 | 30°F | 7.84 | 26.76 | 7.18 | 24.51 | 2.08 | 6.96 | 23.77 | 6.69 | 22.85 | 2.64 | 6.82 | 23.29 | 6.71 | 22.92 | 2.74 | 6.46 | 22.07 | 6.55 | 22.36 | 3.00 |
| | | 91 | 33°C | 7.82 | 26.70 | 8.17 | 27.91 | 2.07 | 7.05 | 24.08 | 7.37 | 25.17 | 2.63 | 6.93 | 23.65 | 7.23 | 24.68 | 2.73 | 6.56 | 22.41 | 6.86 | 23.43 | 2.99 |
| | 72°F [22°C] | 81 | 27°F | 8.76 | 29.90 | 4.98 | 17.00 | 2.10 | 7.84 | 26.77 | 4.60 | 15.71 | 2.65 | 7.64 | 26.09 | 4.51 | 15.41 | 2.78 | 7.21 | 24.62 | 4.34 | 14.82 | 3.04 |
| | | 86 | 30°F | 8.83 | 30.14 | 6.04 | 20.62 | 2.11 | 7.82 | 26.71 | 5.63 | 19.21 | 2.65 | 7.63 | 26.06 | 5.54 | 18.91 | 2.77 | 7.18 | 24.52 | 5.37 | 18.32 | 3.05 |
| | | 91 | 33°C | 8.80 | 30.04 | 7.03 | 24.01 | 2.11 | 7.84 | 26.77 | 6.62 | 22.61 | 2.65 | 7.71 | 26.31 | 6.56 | 22.41 | 2.77 | 7.34 | 25.06 | 6.41 | 21.90 | 3.00 |
| | | 97 | 36°C | 8.79 | 29.99 | 8.20 | 27.98 | 2.10 | 7.85 | 26.80 | 7.84 | 26.77 | 2.66 | 7.70 | 26.28 | 7.78 | 26.58 | 2.75 | 7.37 | 25.15 | 7.65 | 26.11 | 2.99 |
| 1077 [508] | 61°F [16°C] | 70 | 21°F | 7.24 | 24.71 | 5.17 | 17.64 | 2.10 | 6.37 | 21.74 | 4.73 | 16.14 | 2.65 | 6.24 | 21.30 | 4.66 | 15.90 | 2.76 | 5.85 | 19.99 | 4.47 | 15.27 | 3.02 |
| | | 75 | 24°F | 7.24 | 24.72 | 6.23 | 21.27 | 2.10 | 6.37 | 21.75 | 5.81 | 19.85 | 2.65 | 6.24 | 21.32 | 5.75 | 19.63 | 2.76 | 5.88 | 20.07 | 5.57 | 19.02 | 3.02 |
| | | 81 | 27°F | 7.26 | 24.79 | 7.59 | 25.91 | 2.10 | 6.49 | 22.16 | 6.79 | 23.16 | 2.65 | 6.29 | 21.46 | 6.56 | 22.40 | 2.76 | 5.99 | 20.44 | 6.26 | 21.37 | 3.03 |
| | | 86 | 30°F | 7.49 | 25.56 | 7.83 | 26.72 | 2.10 | 6.91 | 23.58 | 7.22 | 24.65 | 2.68 | 6.80 | 23.20 | 7.09 | 24.22 | 2.79 | 6.60 | 22.54 | 6.90 | 23.56 | 2.98 |
| | 66°F [19°C] | 75 | 24°F | 7.91 | 27.01 | 5.15 | 17.60 | 2.11 | 7.06 | 24.09 | 4.76 | 16.26 | 2.68 | 6.90 | 23.56 | 4.69 | 16.02 | 2.77 | 6.50 | 22.18 | 4.52 | 15.41 | 3.04 |
| | | 81 | 27°F | 7.96 | 27.18 | 6.52 | 22.27 | 2.11 | 7.05 | 24.07 | 6.08 | 20.74 | 2.68 | 6.90 | 23.56 | 6.02 | 20.54 | 2.77 | 6.50 | 22.20 | 5.85 | 19.97 | 3.04 |
| | | 86 | 30°F | 8.00 | 27.31 | 7.63 | 26.04 | 2.11 | 7.09 | 24.20 | 7.13 | 24.34 | 2.68 | 6.96 | 23.77 | 7.18 | 24.50 | 2.78 | 6.46 | 22.06 | 6.75 | 23.06 | 3.02 |
| | | 91 | 33°C | 8.10 | 27.65 | 8.47 | 28.90 | 2.12 | 7.22 | 24.64 | 7.54 | 25.75 | 2.67 | 7.11 | 24.28 | 7.43 | 25.35 | 2.77 | 6.81 | 23.26 | 7.12 | 24.31 | 3.02 |
| | 72°F [22°C] | 81 | 27°F | 8.94 | 30.51 | 5.20 | 17.74 | 2.15 | 7.96 | 27.19 | 4.79 | 16.36 | 2.70 | 7.75 | 26.47 | 4.71 | 16.07 | 2.82 | 7.27 | 24.84 | 4.52 | 15.43 | 3.07 |
| | | 86 | 30°F | 8.85 | 30.23 | 6.29 | 21.47 | 2.14 | 7.96 | 27.18 | 5.92 | 20.20 | 2.70 | 7.75 | 26.47 | 5.83 | 19.91 | 2.82 | 7.41 | 25.30 | 5.69 | 19.44 | 3.03 |
| | | 91 | 33°C | 8.89 | 30.33 | 7.39 | 25.23 | 2.14 | 7.97 | 27.21 | 7.01 | 23.93 | 2.70 | 7.79 | 26.61 | 6.91 | 23.60 | 2.80 | 7.44 | 25.40 | 6.83 | 23.30 | 3.03 |
| | | 97 | 36°C | 8.95 | 30.57 | 8.76 | 29.90 | 2.14 | 8.01 | 27.33 | 8.35 | 28.52 | 2.70 | 7.88 | 26.92 | 8.23 | 28.11 | 2.80 | 7.49 | 25.58 | 7.83 | 26.74 | 3.03 |
| 1175 [555] | 61°F [16°C] | 70 | 21°F | 7.41 | 25.31 | 5.60 | 19.13 | 2.20 | 6.52 | 22.26 | 5.17 | 17.63 | 2.77 | 6.36 | 21.72 | 5.09 | 17.37 | 2.87 | 5.97 | 20.38 | 4.90 | 16.73 | 3.11 |
| | | 75 | 24°F | 7.46 | 25.48 | 6.95 | 23.72 | 2.21 | 6.56 | 22.39 | 6.51 | 22.21 | 2.76 | 6.39 | 21.82 | 6.42 | 21.90 | 2.86 | 5.96 | 20.34 | 6.09 | 20.79 | 3.13 |
| | | 81 | 27°F | 7.51 | 25.65 | 7.85 | 26.81 | 2.21 | 6.84 | 23.34 | 7.15 | 24.40 | 2.78 | 6.68 | 22.81 | 6.98 | 23.81 | 2.88 | 6.51 | 22.22 | 6.80 | 23.23 | 3.11 |
| | | 86 | 30°F | 8.23 | 28.10 | 8.60 | 29.37 | 2.23 | 7.42 | 25.33 | 7.76 | 26.48 | 2.80 | 7.28 | 24.85 | 7.60 | 25.94 | 2.90 | 6.96 | 23.78 | 7.28 | 24.85 | 3.11 |
| | 66°F [19°C] | 75 | 24°F | 8.21 | 28.04 | 5.65 | 19.30 | 2.23 | 7.21 | 24.63 | 5.21 | 17.77 | 2.79 | 7.05 | 24.08 | 5.13 | 17.53 | 2.88 | 6.59 | 22.51 | 4.89 | 16.70 | 3.13 |
| | | 81 | 27°F | 8.24 | 28.12 | 7.26 | 24.79 | 2.23 | 7.21 | 24.61 | 6.79 | 23.19 | 2.78 | 7.11 | 24.27 | 6.75 | 23.03 | 2.89 | 6.72 | 22.94 | 6.58 | 22.46 | 3.12 |
| | | 86 | 30°F | 8.26 | 28.19 | 8.57 | 29.26 | 2.23 | 7.31 | 24.97 | 7.65 | 26.10 | 2.79 | 7.19 | 24.56 | 7.51 | 25.64 | 2.87 | 6.84 | 23.37 | 7.15 | 24.43 | 3.11 |
| | | 91 | 33°C | 8.62 | 29.42 | 9.01 | 30.75 | 2.23 | 7.70 | 26.30 | 8.05 | 27.50 | 2.79 | 7.58 | 25.87 | 7.91 | 27.01 | 2.89 | 7.25 | 24.75 | 7.58 | 25.87 | 3.11 |
| | 72°F [22°C] | 81 | 27°F | 9.17 | 31.30 | 5.66 | 19.32 | 2.26 | 8.13 | 27.76 | 5.24 | 17.89 | 2.81 | 7.91 | 27.02 | 5.15 | 17.59 | 2.92 | 7.47 | 25.49 | 4.91 | 16.78 | 3.13 |
| | | 86 | 30°F | 9.18 | 31.32 | 7.03 | 24.02 | 2.26 | 8.12 | 27.71 | 6.57 | 22.43 | 2.80 | 7.91 | 27.02 | 6.52 | 22.24 | 2.92 | 7.70 | 26.30 | 6.43 | 21.95 | 3.08 |
| | | 91 | 33°C | 9.20 | 31.39 | 8.35 | 28.52 | 2.26 | 8.19 | 27.98 | 7.93 | 27.06 | 2.82 | 7.95 | 27.13 | 7.82 | 26.71 | 2.90 | 7.71 | 26.33 | 7.79 | 26.61 | 3.06 |
| | | 97 | 36°C | 9.29 | 31.73 | 9.71 | 33.16 | 2.26 | 8.27 | 28.25 | 8.65 | 29.53 | 2.81 | 8.11 | 27.69 | 8.47 | 28.91 | 2.91 | 7.98 | 27.25 | 8.34 | 28.49 | 3.08 |

DBE —Entering air dry bulb
WBE—Entering air wet bulb
Power Input kW - Total Power Input

[ ] Designates Metric Conversions

## GROSS SYSTEMS PERFORMANCE DATA -SAGL-036TA+SHSL-HM4217TA

| Indoor | | | | 95 | | | | | 115 | | | | | 118.4 | | | | | 126 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Air Flow - CFM [L/s] | WBE | DBE | | Total Capacity | | Sensible Capacity | | Power Input | Total Capacity | | Sensible Capacity | | Power Input | Total Capacity | | Sensible Capacity | | Power Input | Total Capacity | | Sensible Capacity | | Power Input |
| | | | | kW | kBTUH | kW | kBTUH | kW | kW | kBTUH | kW | kBTUH | kW | kW | kBTUH | kW | kBTUH | kW | kW | kBTUH | kW | kBTUH | kW |
| 1414 [664] | 61 | 70 | 21°F | 8.04 | 27.44 | 5.66 | 19.31 | 2.53 | 6.97 | 23.78 | 5.11 | 17.43 | 3.14 | 6.92 | 23.61 | 5.13 | 17.49 | 3.28 | 6.44 | 21.97 | 4.90 | 16.72 | 3.56 |
| | | 75 | 24°F | 8.04 | 27.43 | 6.95 | 23.71 | 2.53 | 7.05 | 24.04 | 6.47 | 22.09 | 3.16 | 6.91 | 23.57 | 6.37 | 21.73 | 3.28 | 6.44 | 21.98 | 6.20 | 21.15 | 3.57 |
| | | 81 | 27°F | 8.12 | 27.71 | 8.12 | 27.71 | 2.53 | 7.26 | 24.76 | 7.26 | 24.76 | 3.15 | 7.13 | 24.34 | 7.12 | 24.31 | 3.27 | 6.76 | 23.05 | 6.76 | 23.05 | 3.60 |
| | | 86 | 30°F | 8.54 | 29.16 | 8.54 | 29.16 | 2.53 | 7.63 | 26.05 | 7.63 | 26.05 | 3.16 | 7.77 | 26.50 | 7.76 | 26.46 | 3.27 | 7.39 | 25.23 | 7.39 | 25.23 | 3.59 |
| | 66 | 75 | 24°F | 8.89 | 30.32 | 5.71 | 19.48 | 2.54 | 7.77 | 26.53 | 5.20 | 17.75 | 3.15 | 7.64 | 26.07 | 5.16 | 17.60 | 3.27 | 7.21 | 24.60 | 4.97 | 16.97 | 3.57 |
| | | 81 | 27°F | 8.88 | 30.29 | 7.26 | 24.77 | 2.54 | 7.84 | 26.74 | 6.82 | 23.26 | 3.17 | 7.60 | 25.95 | 6.69 | 22.84 | 3.28 | 7.16 | 24.42 | 6.50 | 22.18 | 3.57 |
| | | 86 | 30°F | 8.92 | 30.42 | 8.51 | 29.05 | 2.54 | 7.82 | 26.70 | 7.82 | 26.70 | 3.17 | 7.69 | 26.25 | 7.68 | 26.22 | 3.28 | 7.27 | 24.80 | 7.27 | 24.80 | 3.58 |
| | | 91 | 33°C | 9.09 | 31.00 | 9.09 | 31.00 | 2.53 | 8.21 | 28.02 | 8.21 | 28.02 | 3.14 | 8.06 | 27.49 | 8.05 | 27.45 | 3.27 | 7.73 | 26.39 | 7.73 | 26.39 | 3.54 |
| | 67 | 75 | 24°C | 8.87 | 30.28 | 5.58 | 19.05 | 2.54 | 7.83 | 26.73 | 5.08 | 17.33 | 3.15 | 7.60 | 25.94 | 5.03 | 17.18 | 3.28 | 7.15 | 24.41 | 4.85 | 16.55 | 3.57 |
| | | 80 | 26.7°C | 9.24 | 31.55 | 6.89 | 23.52 | 2.73 | 8.21 | 28.02 | 6.44 | 21.98 | 2.89 | **7.98** | **27.23** | 6.33 | 21.59 | **2.94** | 7.23 | 24.67 | 6.14 | 20.95 | 3.57 |
| | | 86 | 30°C | 9.00 | 30.72 | 8.39 | 28.63 | 2.54 | 8.11 | 27.67 | 7.70 | 26.28 | 3.16 | 7.78 | 26.55 | 7.56 | 25.79 | 3.28 | 7.35 | 25.09 | 7.14 | 24.37 | 3.58 |
| | | 91 | 33°C | 9.17 | 31.30 | 8.96 | 30.58 | 2.54 | 8.30 | 28.32 | 8.09 | 27.59 | 3.16 | 8.14 | 27.79 | 7.92 | 27.03 | 3.28 | 7.82 | 26.69 | 7.61 | 25.97 | 3.58 |
| | 72 | 81 | 27°F | 9.95 | 33.94 | 5.73 | 19.54 | 2.54 | 8.77 | 29.94 | 5.26 | 17.95 | 3.16 | 8.63 | 29.45 | 5.20 | 17.75 | 3.26 | 8.12 | 27.69 | 5.01 | 17.09 | 3.57 |
| | | 86 | 30°F | 9.94 | 33.90 | 7.03 | 23.98 | 2.55 | 8.82 | 30.09 | 6.58 | 22.47 | 3.17 | 8.61 | 29.37 | 6.50 | 22.19 | 3.27 | 8.11 | 27.66 | 6.30 | 21.48 | 3.57 |
| | | 91 | 33°C | 10.02 | 34.19 | 8.39 | 28.63 | 2.55 | 8.83 | 30.14 | 7.83 | 26.73 | 3.16 | 8.64 | 29.48 | 7.74 | 26.42 | 3.27 | 8.13 | 27.74 | 7.59 | 25.91 | 3.56 |
| | | 97 | 36°C | 10.02 | 34.20 | 9.82 | 33.52 | 2.55 | 8.95 | 30.54 | 8.95 | 30.54 | 3.17 | 8.78 | 29.97 | 8.77 | 29.94 | 3.27 | 8.36 | 28.52 | 8.36 | 28.52 | 3.55 |

DBE —Entering air dry bulb
WBE—Entering air wet bulb

**[ ] Designates Metric Conversions**

## GROSS SYSTEMS PERFORMANCE DATA - SAGL-036TA+EL3T4217STACTA

| Indoor | | | | Outdoor Ambient Temperature, DB | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 95°F [35°C] | | | | | 115°F [46°C] | | | | | 118.4°F [48°C] | | | | | 126°F [52°C] | | | | |
| Air Flow - CFM [L/s] | WBE | DBE | | Total Capacity | | Sensible Capacity | | Power Input | Total Capacity | | Sensible Capacity | | Power Input | Total Capacity | | Sensible Capacity | | Power Input | Total Capacity | | Sensible Capacity | | Power Input |
| | | | | kW | kBTUH | kW | kBTUH | kW | kW | kBTUH | kW | kBTUH | kW | kW | kBTUH | kW | kBTUH | kW | kW | kBTUH | kW | kBTUH | kW |
| 990 [467] | 61°F [16°C] | 70 | 21°F | 8.27 | 28.24 | 5.55 | 18.94 | 2.57 | 7.28 | 24.85 | 5.07 | 17.31 | 3.23 | 7.12 | 24.31 | 5.00 | 17.06 | 3.36 | 6.62 | 22.61 | 4.75 | 16.23 | 3.67 |
| | | 75 | 24°F | 8.24 | 28.14 | 6.71 | 22.90 | 2.57 | 7.27 | 24.81 | 6.21 | 21.21 | 3.22 | 7.12 | 24.30 | 6.14 | 20.96 | 3.36 | 6.67 | 22.77 | 5.96 | 20.35 | 3.67 |
| | | 81 | 27°F | 8.26 | 28.19 | 8.08 | 27.58 | 2.56 | 7.37 | 25.17 | 7.28 | 24.86 | 3.23 | 7.19 | 24.55 | 7.09 | 24.22 | 3.35 | 6.77 | 23.10 | 6.68 | 22.82 | 3.67 |
| | | 86 | 30°F | 8.56 | 29.24 | 8.46 | 28.88 | 2.57 | 7.67 | 26.19 | 7.58 | 25.87 | 3.22 | 7.46 | 25.47 | 7.36 | 25.12 | 3.34 | 7.15 | 24.41 | 7.06 | 24.11 | 3.68 |
| | 66°F [19°C] | 75 | 24°F | 9.09 | 31.03 | 5.57 | 19.02 | 2.56 | 8.08 | 27.59 | 5.12 | 17.50 | 3.22 | 7.95 | 27.16 | 5.07 | 17.30 | 3.35 | 7.39 | 25.24 | 4.83 | 16.49 | 3.67 |
| | | 81 | 27°F | 9.08 | 30.99 | 6.98 | 23.84 | 2.57 | 8.07 | 27.55 | 6.54 | 22.32 | 3.23 | 7.88 | 26.91 | 6.45 | 22.03 | 3.36 | 7.41 | 25.30 | 6.27 | 21.41 | 3.68 |
| | | 86 | 30°F | 9.14 | 31.19 | 8.17 | 27.88 | 2.58 | 8.09 | 27.62 | 7.67 | 26.20 | 3.22 | 7.92 | 27.04 | 7.59 | 25.93 | 3.35 | 7.47 | 25.49 | 7.38 | 25.18 | 3.65 |
| | | 91 | 33°C | 9.22 | 31.49 | 9.11 | 31.11 | 2.57 | 8.22 | 28.07 | 8.12 | 27.72 | 3.22 | 8.08 | 27.60 | 7.98 | 27.23 | 3.34 | 7.78 | 26.56 | 7.68 | 26.23 | 3.61 |
| | 72°F [22°C] | 81 | 27°F | 10.26 | 35.01 | 5.62 | 19.17 | 2.58 | 9.10 | 31.06 | 5.16 | 17.61 | 3.24 | 8.93 | 30.50 | 5.09 | 17.38 | 3.34 | 8.35 | 28.51 | 4.86 | 16.61 | 3.65 |
| | | 86 | 30°F | 10.25 | 34.98 | 6.80 | 23.21 | 2.59 | 9.08 | 31.00 | 6.34 | 21.64 | 3.23 | 8.92 | 30.47 | 6.28 | 21.43 | 3.36 | 8.40 | 28.66 | 6.07 | 20.73 | 3.65 |
| | | 91 | 33°C | 10.24 | 34.94 | 7.97 | 27.20 | 2.58 | 9.10 | 31.08 | 7.55 | 25.79 | 3.22 | 8.92 | 30.45 | 7.45 | 25.43 | 3.34 | 8.40 | 28.67 | 7.25 | 24.75 | 3.65 |
| | | 97 | 36°C | 10.24 | 34.96 | 9.34 | 31.88 | 2.58 | 9.12 | 31.14 | 8.88 | 30.30 | 3.21 | 8.98 | 30.64 | 8.84 | 30.17 | 3.36 | 8.49 | 28.97 | 8.38 | 28.62 | 3.65 |
| 1050 [496] | 61°F [16°C] | 70 | 21°F | 8.30 | 28.34 | 5.64 | 19.25 | 2.60 | 7.32 | 24.99 | 5.17 | 17.65 | 3.24 | 7.08 | 24.16 | 5.06 | 17.26 | 3.38 | 6.69 | 22.84 | 4.88 | 16.64 | 3.68 |
| | | 75 | 24°F | 8.32 | 28.40 | 6.87 | 23.46 | 2.59 | 7.28 | 24.84 | 6.35 | 21.66 | 3.24 | 7.17 | 24.49 | 6.33 | 21.59 | 3.38 | 6.68 | 22.82 | 6.07 | 20.71 | 3.68 |
| | | 81 | 27°F | 8.27 | 28.24 | 8.17 | 27.90 | 2.59 | 7.44 | 25.40 | 7.35 | 25.09 | 3.26 | 7.21 | 24.61 | 7.11 | 24.28 | 3.38 | 6.89 | 23.51 | 6.80 | 23.22 | 3.70 |
| | | 86 | 30°F | 8.69 | 29.68 | 8.59 | 29.32 | 2.60 | 7.83 | 26.73 | 7.73 | 26.41 | 3.26 | 7.63 | 26.04 | 7.53 | 25.69 | 3.37 | 7.46 | 25.46 | 7.37 | 25.15 | 3.70 |
| | 66°F [19°C] | 75 | 24°F | 9.20 | 31.41 | 5.69 | 19.43 | 2.60 | 8.09 | 27.63 | 5.21 | 17.77 | 3.26 | 7.94 | 27.11 | 5.14 | 17.55 | 3.38 | 7.41 | 25.31 | 4.92 | 16.79 | 3.70 |
| | | 81 | 27°F | 9.20 | 31.41 | 7.18 | 24.50 | 2.60 | 8.11 | 27.67 | 6.69 | 22.82 | 3.26 | 7.89 | 26.95 | 6.60 | 22.53 | 3.38 | 7.41 | 25.31 | 6.40 | 21.83 | 3.71 |
| | | 86 | 30°F | 9.19 | 31.37 | 8.35 | 28.52 | 2.61 | 8.13 | 27.76 | 7.89 | 26.95 | 3.25 | 7.96 | 27.17 | 7.80 | 26.64 | 3.39 | 7.50 | 25.59 | 7.40 | 25.28 | 3.69 |
| | | 91 | 33°C | 9.30 | 31.76 | 9.19 | 31.37 | 2.60 | 8.33 | 28.45 | 8.23 | 28.10 | 3.24 | 8.25 | 28.17 | 8.14 | 27.80 | 3.37 | 7.89 | 26.94 | 7.79 | 26.61 | 3.63 |
| | 72°F [22°C] | 81 | 27°F | 10.37 | 35.39 | 5.74 | 19.58 | 2.63 | 9.12 | 31.14 | 5.24 | 17.90 | 3.26 | 8.97 | 30.64 | 5.18 | 17.70 | 3.37 | 8.44 | 28.83 | 4.98 | 17.00 | 3.70 |
| | | 86 | 30°F | 10.35 | 35.32 | 6.97 | 23.80 | 2.62 | 9.12 | 31.12 | 6.49 | 22.14 | 3.26 | 8.97 | 30.61 | 6.43 | 21.94 | 3.37 | 8.44 | 28.80 | 6.22 | 21.24 | 3.69 |
| | | 91 | 33°C | 10.35 | 35.35 | 8.21 | 28.01 | 2.62 | 9.21 | 31.43 | 7.78 | 26.56 | 3.26 | 8.97 | 30.62 | 7.65 | 26.13 | 3.37 | 8.44 | 28.81 | 7.43 | 25.36 | 3.69 |
| | | 97 | 36°C | 10.37 | 35.42 | 9.63 | 32.88 | 2.62 | 9.23 | 31.51 | 9.12 | 31.12 | 3.27 | 9.03 | 30.82 | 8.91 | 30.41 | 3.38 | 8.54 | 29.16 | 8.44 | 28.81 | 3.69 |
| 1140 [538] | 61°F [16°C] | 70 | 21°F | 8.45 | 28.84 | 5.87 | 20.05 | 2.65 | 7.32 | 24.99 | 5.30 | 18.10 | 3.28 | 7.27 | 24.82 | 5.32 | 18.16 | 3.43 | 6.76 | 23.08 | 5.08 | 17.35 | 3.72 |
| | | 75 | 24°F | 8.44 | 28.82 | 7.21 | 24.62 | 2.64 | 7.40 | 25.27 | 6.72 | 22.93 | 3.30 | 7.26 | 24.78 | 6.61 | 22.56 | 3.42 | 6.77 | 23.10 | 6.43 | 21.95 | 3.72 |
| | | 81 | 27°F | 8.53 | 29.12 | 8.43 | 28.77 | 2.65 | 7.62 | 26.02 | 7.53 | 25.70 | 3.29 | 7.49 | 25.58 | 7.39 | 25.24 | 3.42 | 7.10 | 24.23 | 7.01 | 23.93 | 3.76 |
| | | 86 | 30°F | 8.98 | 30.64 | 8.87 | 30.27 | 2.65 | 8.02 | 27.37 | 7.92 | 27.04 | 3.30 | 8.16 | 27.85 | 8.05 | 27.48 | 3.41 | 7.77 | 26.51 | 7.67 | 26.19 | 3.75 |
| | 66°F [19°C] | 75 | 24°F | 9.33 | 31.86 | 5.92 | 20.22 | 2.65 | 8.17 | 27.88 | 5.40 | 18.43 | 3.29 | 8.03 | 27.40 | 5.35 | 18.27 | 3.42 | 7.57 | 25.85 | 5.16 | 17.62 | 3.73 |
| | | 81 | 27°F | 9.32 | 31.83 | 7.53 | 25.71 | 2.65 | 8.23 | 28.10 | 7.07 | 24.15 | 3.31 | 7.99 | 27.27 | 6.94 | 23.71 | 3.42 | 7.52 | 25.66 | 6.75 | 23.03 | 3.73 |
| | | 86 | 30°F | 9.36 | 31.97 | 8.83 | 30.16 | 2.65 | 8.22 | 28.06 | 8.12 | 27.72 | 3.31 | 8.08 | 27.59 | 7.97 | 27.22 | 3.42 | 7.63 | 26.06 | 7.54 | 25.74 | 3.74 |
| | | 91 | 33°C | 9.54 | 32.58 | 9.43 | 32.18 | 2.65 | 8.62 | 29.44 | 8.52 | 29.08 | 3.28 | 8.46 | 28.89 | 8.35 | 28.51 | 3.42 | 8.12 | 27.73 | 8.02 | 27.40 | 3.69 |
| | 72°F [22°C] | 81 | 27°F | 10.45 | 35.67 | 5.94 | 20.29 | 2.66 | 9.22 | 31.46 | 5.46 | 18.64 | 3.30 | 9.07 | 30.95 | 5.40 | 18.43 | 3.41 | 8.52 | 29.10 | 5.20 | 17.74 | 3.73 |
| | | 86 | 30°F | 10.44 | 35.63 | 7.29 | 24.90 | 2.66 | 9.26 | 31.62 | 6.83 | 23.32 | 3.31 | 9.04 | 30.87 | 6.75 | 23.03 | 3.42 | 8.52 | 29.07 | 6.53 | 22.30 | 3.73 |
| | | 91 | 33°C | 10.52 | 35.93 | 8.71 | 29.72 | 2.67 | 9.28 | 31.68 | 8.13 | 27.75 | 3.30 | 9.08 | 30.98 | 8.03 | 27.43 | 3.41 | 8.54 | 29.15 | 7.88 | 26.90 | 3.71 |
| | | 97 | 36°C | 10.53 | 35.94 | 10.19 | 34.80 | 2.67 | 9.40 | 32.10 | 9.29 | 31.71 | 3.31 | 9.23 | 31.50 | 9.11 | 31.09 | 3.42 | 8.78 | 29.97 | 8.67 | 29.60 | 3.70 |

DBE —Entering air dry bulb
WBE—Entering air wet bulb
Power Input kW - Total Power Input

**[ ] Designates Metric Conversions**

## GROSS SYSTEMS PERFORMANCE DATA - SAGL-042TA+EL3T4217STACTA

| Indoor | | | | Outdoor Ambient Temperature, DB | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 95°F [35°C] | | | | | 115°F [46°C] | | | | | 118.4°F [48°C] | | | | | 126°F [52°C] | | | | |
| Air Flow - CFM [L/s] | WBE | DBE | | Total Capacity | | Sensible Capacity | | Power Input | Total Capacity | | Sensible Capacity | | Power Input | Total Capacity | | Sensible Capacity | | Power Input | Total Capacity | | Sensible Capacity | | Power Input |
| | | | | kW | kBTUH | kW | kBTUH | kW | kW | kBTUH | kW | kBTUH | kW | kW | kBTUH | kW | kBTUH | kW | kW | kBTUH | kW | kBTUH | kW |
| 930 [438] | 61°F [16°C] | 70 | 21°F | 9.78 | 33.40 | 5.99 | 20.46 | 2.95 | 8.61 | 29.40 | 5.47 | 18.69 | 3.68 | 8.56 | 29.21 | 5.58 | 19.05 | 3.83 | 8.03 | 27.40 | 5.35 | 18.26 | 4.15 |
| | | 75 | 24°F | 9.85 | 33.64 | 7.38 | 25.20 | 2.96 | 8.70 | 29.69 | 6.87 | 23.45 | 3.69 | 8.49 | 28.99 | 6.89 | 23.52 | 3.85 | 8.02 | 27.37 | 6.72 | 22.94 | 4.17 |
| | | 81 | 27°F | 9.99 | 34.12 | 8.75 | 29.86 | 2.95 | 9.06 | 30.92 | 7.98 | 27.26 | 3.74 | 8.35 | 28.49 | 7.06 | 24.11 | 3.91 | 7.89 | 26.95 | 6.66 | 22.74 | 4.24 |
| | | 86 | 30°F | 10.57 | 36.08 | 9.32 | 31.80 | 2.92 | 9.54 | 32.57 | 8.41 | 28.71 | 3.70 | 8.25 | 28.16 | 7.26 | 24.79 | 3.92 | 7.92 | 27.03 | 6.98 | 23.83 | 4.27 |
| | 66°F [19°C] | 75 | 24°F | 10.83 | 36.97 | 6.08 | 20.77 | 2.97 | 9.59 | 32.75 | 5.62 | 19.19 | 3.68 | 9.46 | 32.29 | 5.57 | 19.00 | 3.81 | 8.64 | 29.50 | 5.24 | 17.89 | 4.25 |
| | | 81 | 27°F | 10.80 | 36.88 | 7.66 | 26.15 | 2.98 | 9.58 | 32.70 | 7.23 | 24.68 | 3.68 | 9.38 | 32.03 | 7.15 | 24.42 | 3.81 | 8.68 | 29.62 | 6.91 | 23.59 | 4.27 |
| | | 86 | 30°F | 10.93 | 37.33 | 9.28 | 31.70 | 2.97 | 9.66 | 32.98 | 8.49 | 28.98 | 3.67 | 9.54 | 32.57 | 8.36 | 28.55 | 3.80 | 9.31 | 31.78 | 7.94 | 27.09 | 4.11 |
| | | 91 | 33°C | 11.06 | 37.77 | 9.75 | 33.30 | 2.97 | 10.16 | 34.70 | 8.96 | 30.59 | 3.72 | 9.99 | 34.11 | 8.80 | 30.04 | 3.91 | 9.66 | 32.99 | 8.52 | 29.09 | 4.18 |
| | 72°F [22°C] | 81 | 27°F | 12.03 | 41.09 | 6.07 | 20.74 | 2.94 | 10.67 | 36.43 | 5.59 | 19.08 | 3.73 | 10.37 | 35.40 | 5.49 | 18.75 | 3.83 | 10.01 | 34.18 | 5.39 | 18.39 | 4.06 |
| | | 86 | 30°F | 12.10 | 41.30 | 7.46 | 25.46 | 2.94 | 10.80 | 36.86 | 6.95 | 23.72 | 3.72 | 10.48 | 35.77 | 6.87 | 23.45 | 3.81 | 10.08 | 34.40 | 6.73 | 22.98 | 4.06 |
| | | 91 | 33°C | 12.11 | 41.34 | 8.95 | 30.56 | 2.94 | 10.72 | 36.60 | 8.36 | 28.53 | 3.71 | 10.52 | 35.90 | 8.20 | 27.99 | 3.82 | 10.07 | 34.37 | 8.03 | 27.42 | 4.06 |
| | | 97 | 36°C | 12.21 | 41.69 | 10.45 | 35.69 | 2.93 | 10.85 | 37.05 | 9.57 | 32.66 | 3.72 | 10.51 | 35.87 | 9.25 | 31.60 | 3.86 | 10.03 | 34.23 | 8.81 | 30.06 | 4.16 |
| 1050 [495] | 61°F [16°C] | 70 | 21°F | 10.03 | 34.24 | 6.36 | 21.71 | 2.99 | 8.88 | 30.32 | 5.89 | 20.10 | 3.73 | 8.58 | 29.30 | 5.73 | 19.57 | 3.89 | 8.17 | 27.89 | 5.56 | 18.98 | 4.20 |
| | | 75 | 24°F | 10.07 | 34.36 | 7.97 | 27.21 | 2.99 | 8.91 | 30.42 | 7.39 | 25.23 | 3.78 | 8.70 | 29.71 | 7.36 | 25.12 | 3.87 | 8.18 | 27.93 | 7.11 | 24.29 | 4.17 |
| | | 81 | 27°F | 10.35 | 35.33 | 9.12 | 31.14 | 2.98 | 9.34 | 31.89 | 8.23 | 28.11 | 3.77 | 8.72 | 29.79 | 7.54 | 25.74 | 3.90 | 8.38 | 28.62 | 7.23 | 24.69 | 4.23 |
| | | 86 | 30°F | 10.96 | 37.41 | 9.66 | 32.97 | 3.01 | 9.92 | 33.88 | 8.75 | 29.86 | 3.73 | 8.83 | 30.14 | 7.77 | 26.54 | 3.86 | 8.65 | 29.51 | 7.62 | 26.02 | 4.20 |
| | 66°F [19°C] | 75 | 24°F | 11.00 | 37.56 | 6.49 | 22.16 | 3.02 | 9.72 | 33.20 | 5.95 | 20.32 | 3.73 | 9.57 | 32.66 | 5.89 | 20.11 | 3.86 | 9.01 | 30.75 | 5.68 | 19.39 | 4.19 |
| | | 81 | 27°F | 10.99 | 37.51 | 8.13 | 27.77 | 3.02 | 9.75 | 33.30 | 7.78 | 26.58 | 3.78 | 9.53 | 32.53 | 7.70 | 26.30 | 3.90 | 9.02 | 30.79 | 7.51 | 25.64 | 4.24 |
| | | 86 | 30°F | 11.17 | 38.14 | 9.79 | 33.42 | 3.01 | 9.91 | 33.85 | 8.74 | 29.84 | 3.76 | 9.81 | 33.51 | 8.58 | 29.31 | 3.90 | 9.39 | 32.06 | 8.15 | 27.82 | 4.21 |
| | | 91 | 33°C | 11.58 | 39.53 | 10.21 | 34.84 | 3.00 | 10.56 | 36.06 | 9.31 | 31.79 | 3.73 | 10.32 | 35.22 | 9.09 | 31.02 | 3.93 | 9.93 | 33.91 | 8.75 | 29.89 | 4.20 |
| | 72°F [22°C] | 81 | 27°F | 12.38 | 42.28 | 6.55 | 22.37 | 3.02 | 10.88 | 37.14 | 5.92 | 20.21 | 3.77 | 10.73 | 36.62 | 5.86 | 20.01 | 3.88 | 10.16 | 34.70 | 5.67 | 19.36 | 4.21 |
| | | 86 | 30°F | 12.28 | 41.94 | 7.88 | 26.92 | 2.98 | 10.80 | 36.88 | 7.37 | 25.17 | 3.76 | 10.64 | 36.34 | 7.32 | 24.98 | 3.87 | 10.15 | 34.64 | 7.13 | 24.34 | 4.09 |
| | | 91 | 33°C | 12.36 | 42.21 | 9.47 | 32.34 | 3.02 | 10.89 | 37.17 | 9.02 | 30.80 | 3.75 | 10.64 | 36.31 | 8.90 | 30.40 | 3.87 | 10.07 | 34.39 | 8.69 | 29.67 | 4.20 |
| | | 97 | 36°C | 12.51 | 42.72 | 11.03 | 37.66 | 3.02 | 11.09 | 37.88 | 9.78 | 33.39 | 3.73 | 10.88 | 37.16 | 9.59 | 32.73 | 3.85 | 10.37 | 35.40 | 9.14 | 31.20 | 4.17 |
| 1163 [548] | 61°F [16°C] | 70 | 21°F | 10.11 | 34.50 | 6.60 | 22.54 | 3.06 | 8.85 | 30.20 | 6.08 | 20.77 | 3.85 | 8.62 | 29.44 | 5.91 | 20.19 | 3.93 | 8.08 | 27.59 | 5.69 | 19.43 | 4.23 |
| | | 75 | 24°F | 10.19 | 34.80 | 8.26 | 28.21 | 3.04 | 9.01 | 30.75 | 7.67 | 26.18 | 3.85 | 8.75 | 29.87 | 7.50 | 25.60 | 3.94 | 8.32 | 28.39 | 7.25 | 24.76 | 4.25 |
| | | 81 | 27°F | 10.65 | 36.37 | 9.39 | 32.06 | 3.08 | 9.59 | 32.74 | 8.45 | 28.86 | 3.80 | 8.75 | 29.87 | 7.61 | 25.98 | 3.97 | 8.33 | 28.43 | 7.23 | 24.69 | 4.32 |
| | | 86 | 30°F | 11.31 | 38.61 | 9.97 | 34.03 | 3.08 | 10.21 | 34.85 | 9.00 | 30.73 | 3.83 | 8.83 | 30.15 | 7.78 | 26.55 | 4.00 | 8.42 | 28.73 | 7.42 | 25.33 | 4.34 |
| | 66°F [19°C] | 75 | 24°F | 11.15 | 38.06 | 6.71 | 22.90 | 3.07 | 9.72 | 33.19 | 6.13 | 20.93 | 3.83 | 8.72 | 29.76 | 5.10 | 17.41 | 3.92 | 8.24 | 28.12 | 4.92 | 16.79 | 4.24 |
| | | 81 | 27°F | 11.20 | 38.25 | 8.69 | 29.68 | 3.08 | 9.79 | 33.43 | 8.22 | 28.05 | 3.84 | 9.28 | 31.69 | 6.45 | 22.02 | 4.07 | 8.78 | 29.98 | 6.26 | 21.38 | 4.38 |
| | | 86 | 30°F | 11.28 | 38.50 | 9.94 | 33.94 | 3.07 | 10.13 | 34.59 | 8.93 | 30.50 | 3.83 | 9.97 | 34.05 | 8.78 | 29.99 | 4.01 | 9.50 | 32.43 | 8.37 | 28.59 | 4.33 |
| | | 91 | 33°C | 11.99 | 40.93 | 10.57 | 36.08 | 3.04 | 10.85 | 37.06 | 9.57 | 32.67 | 3.84 | 10.57 | 36.09 | 9.31 | 31.78 | 3.98 | 10.21 | 34.86 | 9.00 | 30.73 | 4.26 |
| | 72°F [22°C] | 81 | 27°F | 12.30 | 42.00 | 6.66 | 22.73 | 3.08 | 10.88 | 37.15 | 6.14 | 20.98 | 3.83 | 10.24 | 34.96 | 5.92 | 20.22 | 4.09 | 9.66 | 33.00 | 5.73 | 19.56 | 4.42 |
| | | 86 | 30°F | 12.36 | 42.21 | 8.33 | 28.45 | 3.07 | 10.93 | 37.32 | 7.78 | 26.55 | 3.81 | 10.40 | 35.49 | 7.24 | 24.71 | 4.09 | 9.84 | 33.58 | 7.03 | 24.01 | 4.40 |
| | | 91 | 33°C | 12.44 | 42.48 | 9.98 | 34.08 | 3.07 | 10.99 | 37.53 | 9.53 | 32.53 | 3.81 | 10.72 | 36.61 | 9.41 | 32.14 | 3.98 | 10.51 | 35.89 | 8.95 | 30.56 | 4.29 |
| | | 97 | 36°C | 12.68 | 43.30 | 11.18 | 38.17 | 3.07 | 11.54 | 39.41 | 10.18 | 34.74 | 3.85 | 10.87 | 37.12 | 9.58 | 32.70 | 3.90 | 10.40 | 35.50 | 9.17 | 31.29 | 4.19 |

DBE —Entering air dry bulb
WBE—Entering air wet bulb
Power Input kW - Total Power Input

[ ] Designates Metric Conversions

## GROSS SYSTEMS PERFORMANCE DATA - SAGL-048NA+EL3T4817STACTA

| Indoor | | | | Outdoor Ambient Temperature, DB | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 95°F [35°C] | | | | | 115°F [46°C] | | | | | 118.4°F [48°C] | | | | | 126°F [52°C] | | | | |
| Air Flow - CFM [L/s] | WBE | DBE | | Total Capacity | | Sensible Capacity | | Power Input | Total Capacity | | Sensible Capacity | | Power Input | Total Capacity | | Sensible Capacity | | Power Input | Total Capacity | | Sensible Capacity | | Power Input |
| | | | | kW | kBTUH | kW | kBTUH | kW | kW | kBTUH | kW | kBTUH | kW | kW | kBTUH | kW | kBTUH | kW | kW | kBTUH | kW | kBTUH | kW |
| 1300 [613] | 61°F [16°C] | 70 | 21°F | 11.67 | 39.85 | 7.35 | 25.08 | 3.33 | 10.41 | 35.54 | 6.86 | 23.43 | 4.14 | 10.13 | 34.59 | 6.75 | 23.05 | 4.25 | 9.84 | 33.58 | 6.67 | 22.78 | 4.50 |
| | | 75 | 24°F | 11.70 | 39.95 | 9.05 | 30.88 | 3.34 | 10.45 | 35.69 | 8.58 | 29.29 | 4.13 | 10.19 | 34.77 | 8.31 | 28.37 | 4.27 | 9.81 | 33.49 | 8.23 | 28.11 | 4.49 |
| | | 81 | 27°F | 11.88 | 40.56 | 10.74 | 36.67 | 3.34 | 10.55 | 36.02 | 9.54 | 32.56 | 4.12 | 10.36 | 35.38 | 9.36 | 31.96 | 4.27 | 10.06 | 34.34 | 9.09 | 31.05 | 4.49 |
| | | 86 | 30°F | 12.41 | 42.38 | 11.22 | 38.31 | 3.34 | 11.29 | 38.53 | 10.20 | 34.83 | 4.14 | 11.15 | 38.06 | 10.07 | 34.38 | 4.30 | 10.85 | 37.04 | 9.81 | 33.49 | 4.51 |
| | 66°F [19°C] | 75 | 24°F | 12.87 | 43.95 | 7.47 | 25.52 | 3.35 | 11.44 | 39.05 | 6.91 | 23.58 | 4.13 | 11.29 | 38.54 | 6.86 | 23.41 | 4.28 | 10.58 | 36.10 | 6.56 | 22.38 | 4.61 |
| | | 81 | 27°F | 12.82 | 43.75 | 9.45 | 32.25 | 3.36 | 11.27 | 38.49 | 8.79 | 30.02 | 4.14 | 11.25 | 38.41 | 8.86 | 30.23 | 4.29 | 10.67 | 36.43 | 8.58 | 29.29 | 4.59 |
| | | 86 | 30°F | 12.88 | 43.98 | 11.21 | 38.27 | 3.36 | 11.54 | 39.41 | 10.44 | 35.63 | 4.15 | 11.28 | 38.51 | 10.19 | 34.78 | 4.28 | 10.90 | 37.20 | 9.85 | 33.63 | 4.50 |
| | | 91 | 33°C | 13.00 | 44.40 | 11.76 | 40.14 | 3.36 | 11.87 | 40.52 | 10.73 | 36.63 | 4.16 | 11.64 | 39.74 | 10.51 | 35.90 | 4.30 | 11.13 | 37.99 | 10.06 | 34.34 | 4.62 |
| | 72°F [22°C] | 81 | 27°F | 14.35 | 49.00 | 7.44 | 25.41 | 3.39 | 12.69 | 43.32 | 6.85 | 23.40 | 4.17 | 12.37 | 42.24 | 6.74 | 23.02 | 4.31 | 12.07 | 41.21 | 6.67 | 22.78 | 4.50 |
| | | 86 | 30°F | 14.39 | 49.14 | 9.27 | 31.66 | 3.39 | 12.69 | 43.34 | 8.63 | 29.46 | 4.17 | 12.42 | 42.39 | 8.42 | 28.73 | 4.32 | 12.19 | 41.62 | 8.50 | 29.00 | 4.49 |
| | | 91 | 33°C | 14.33 | 48.92 | 10.83 | 36.98 | 3.40 | 12.71 | 43.40 | 10.14 | 34.61 | 4.17 | 12.35 | 42.15 | 10.06 | 34.35 | 4.32 | 12.13 | 41.41 | 9.98 | 34.08 | 4.50 |
| | | 97 | 36°C | 14.26 | 48.69 | 12.84 | 43.82 | 3.40 | 12.96 | 44.24 | 11.72 | 40.00 | 4.20 | 12.74 | 43.49 | 11.51 | 39.29 | 4.33 | 12.25 | 41.84 | 11.08 | 37.82 | 4.50 |
| 1450 [684] | 61°F [16°C] | 70 | 21°F | 11.90 | 40.62 | 7.79 | 26.60 | 3.38 | 10.52 | 35.92 | 7.23 | 24.67 | 4.18 | 10.29 | 35.13 | 7.13 | 24.34 | 4.31 | 9.89 | 33.75 | 6.90 | 23.55 | 4.53 |
| | | 75 | 24°F | 11.94 | 40.75 | 9.62 | 32.84 | 3.39 | 10.52 | 35.93 | 9.05 | 30.90 | 4.18 | 10.29 | 35.14 | 8.82 | 30.12 | 4.31 | 9.84 | 33.60 | 8.78 | 29.96 | 4.54 |
| | | 81 | 27°F | 12.00 | 40.98 | 10.85 | 37.04 | 3.38 | 10.93 | 37.30 | 9.88 | 33.72 | 4.20 | 10.69 | 36.49 | 9.65 | 32.96 | 4.33 | 10.49 | 35.81 | 9.48 | 32.37 | 4.54 |
| | | 86 | 30°F | 12.86 | 43.91 | 11.63 | 39.70 | 3.40 | 11.73 | 40.04 | 10.60 | 36.20 | 4.20 | 11.54 | 39.39 | 10.42 | 35.58 | 4.33 | 11.22 | 38.29 | 10.14 | 34.62 | 4.58 |
| | 66°F [19°C] | 75 | 24°F | 13.07 | 44.63 | 7.80 | 26.62 | 3.42 | 11.54 | 39.41 | 7.23 | 24.69 | 4.19 | 11.40 | 38.91 | 7.16 | 24.44 | 4.35 | 10.87 | 37.11 | 6.90 | 23.57 | 4.54 |
| | | 81 | 27°F | 12.93 | 44.16 | 9.90 | 33.79 | 3.41 | 11.55 | 39.42 | 9.40 | 32.08 | 4.19 | 11.32 | 38.65 | 9.32 | 31.82 | 4.34 | 10.65 | 36.37 | 8.94 | 30.53 | 4.64 |
| | | 86 | 30°F | 13.13 | 44.82 | 11.87 | 40.52 | 3.41 | 11.68 | 39.87 | 10.56 | 36.04 | 4.20 | 11.52 | 39.32 | 10.40 | 35.52 | 4.35 | 10.94 | 37.37 | 9.89 | 33.78 | 4.68 |
| | | 91 | 33°C | 13.38 | 45.69 | 12.10 | 41.30 | 3.42 | 12.15 | 41.48 | 10.99 | 37.50 | 4.20 | 12.05 | 41.13 | 10.88 | 37.15 | 4.36 | 11.74 | 40.06 | 10.61 | 36.22 | 4.69 |
| | 72°F [22°C] | 81 | 27°F | 14.54 | 49.65 | 7.77 | 26.54 | 3.45 | 12.87 | 43.94 | 7.23 | 24.68 | 4.23 | 12.73 | 43.45 | 7.16 | 24.44 | 4.37 | 12.29 | 41.97 | 7.17 | 24.48 | 4.56 |
| | | 86 | 30°F | 14.44 | 49.30 | 9.58 | 32.70 | 3.44 | 12.86 | 43.90 | 9.03 | 30.82 | 4.22 | 12.61 | 43.07 | 8.91 | 30.40 | 4.37 | 12.28 | 41.91 | 8.85 | 30.22 | 4.55 |
| | | 91 | 33°C | 14.38 | 49.11 | 11.43 | 39.01 | 3.45 | 12.89 | 44.00 | 10.83 | 36.99 | 4.23 | 12.65 | 43.18 | 10.96 | 37.42 | 4.36 | 12.22 | 41.73 | 10.59 | 36.17 | 4.53 |
| | | 97 | 36°C | 14.59 | 49.82 | 13.19 | 45.04 | 3.45 | 13.17 | 44.97 | 11.91 | 40.65 | 4.23 | 12.97 | 44.26 | 11.71 | 39.99 | 4.37 | 12.63 | 43.13 | 11.42 | 38.99 | 4.56 |
| 1609 [759] | 61°F [16°C] | 70 | 21°F | 12.07 | 41.22 | 8.12 | 27.72 | 3.46 | 10.55 | 36.02 | 7.50 | 25.60 | 4.24 | 10.33 | 35.25 | 7.37 | 25.16 | 4.38 | 10.07 | 34.38 | 7.37 | 25.15 | 4.61 |
| | | 75 | 24°F | 11.88 | 40.56 | 9.98 | 34.08 | 3.44 | 10.70 | 36.52 | 9.58 | 32.72 | 4.25 | 10.46 | 35.71 | 9.45 | 32.25 | 4.38 | 10.09 | 34.44 | 9.12 | 31.14 | 4.62 |
| | | 81 | 27°F | 12.28 | 41.94 | 11.11 | 37.92 | 3.45 | 11.27 | 38.47 | 10.19 | 34.78 | 4.26 | 11.12 | 37.97 | 10.05 | 34.30 | 4.40 | 10.79 | 36.85 | 9.76 | 33.32 | 4.62 |
| | | 86 | 30°F | 13.19 | 45.03 | 11.92 | 40.71 | 3.47 | 12.01 | 41.01 | 10.86 | 37.07 | 4.28 | 11.78 | 40.23 | 10.64 | 36.34 | 4.40 | 11.52 | 39.32 | 10.41 | 35.55 | 4.65 |
| | 66°F [19°C] | 75 | 24°F | 13.21 | 45.08 | 8.11 | 27.67 | 3.48 | 11.74 | 40.09 | 7.56 | 25.81 | 4.26 | 11.45 | 39.08 | 7.45 | 25.45 | 4.41 | 10.96 | 37.42 | 7.25 | 24.75 | 4.64 |
| | | 81 | 27°F | 13.10 | 44.72 | 10.29 | 35.13 | 3.47 | 11.69 | 39.91 | 9.91 | 33.84 | 4.27 | 11.34 | 38.70 | 9.74 | 33.25 | 4.39 | 10.99 | 37.53 | 9.61 | 32.82 | 4.62 |
| | | 86 | 30°F | 13.38 | 45.69 | 12.10 | 41.30 | 3.49 | 11.86 | 40.48 | 10.72 | 36.59 | 4.26 | 11.63 | 39.71 | 10.51 | 35.87 | 4.39 | 11.11 | 37.94 | 10.05 | 34.30 | 4.73 |
| | | 91 | 33°C | 13.74 | 46.91 | 12.42 | 42.41 | 3.49 | 12.64 | 43.16 | 11.43 | 39.02 | 4.29 | 12.49 | 42.63 | 11.28 | 38.51 | 4.41 | 12.08 | 41.25 | 10.92 | 37.30 | 4.77 |
| | 72°F [22°C] | 81 | 27°F | 14.48 | 49.44 | 8.05 | 27.47 | 3.52 | 12.90 | 44.05 | 7.51 | 25.64 | 4.29 | 12.55 | 42.86 | 7.39 | 25.24 | 4.44 | 12.32 | 42.06 | 7.32 | 24.98 | 4.61 |
| | | 86 | 30°F | 14.54 | 49.64 | 9.97 | 34.02 | 3.52 | 12.99 | 44.35 | 9.49 | 32.41 | 4.30 | 12.72 | 43.44 | 9.40 | 32.08 | 4.45 | 12.33 | 42.10 | 9.27 | 31.65 | 4.62 |
| | | 91 | 33°C | 14.68 | 50.13 | 12.10 | 41.31 | 3.52 | 13.02 | 44.45 | 11.45 | 39.08 | 4.29 | 12.80 | 43.71 | 11.50 | 39.25 | 4.44 | 12.41 | 42.37 | 11.22 | 38.30 | 4.60 |
| | | 97 | 36°C | 14.77 | 50.42 | 13.35 | 45.59 | 3.52 | 13.57 | 46.31 | 12.26 | 41.87 | 4.32 | 13.21 | 45.09 | 11.93 | 40.73 | 4.45 | 12.92 | 44.11 | 11.68 | 39.88 | 4.62 |

DBE —Entering air dry bulb
WBE—Entering air wet bulb
Power Input kW - Total Power Input

[ ] Designates Metric Conversions

## GROSS SYSTEMS PERFORMANCE DATA -SAGN-048NA+SHLL-HM6021TA

| Indoor | | | | 95 | | | | | 115 | | | | | 118.4 | | | | | 126 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Air Flow - CFM [L/s] | WBE | DBE | | Total Capacity | | Sensible Capacity | | Power Input | Total Capacity | | Sensible Capacity | | Power Input | Total Capacity | | Sensible Capacity | | Power Input | Total Capacity | | Sensible Capacity | | Power Input |
| | | | | kW | kBTUH | kW | kBTUH | kW | kW | kBTUH | kW | kBTUH | kW | kW | kBTUH | kW | kBTUH | kW | kW | kBTUH | kW | kBTUH | kW |
| 1741 [821] | 61 | 70 | 21°F | 12.19 | 41.59 | 8.94 | 30.50 | 3.70 | 10.79 | 36.81 | 8.26 | 28.20 | 4.52 | 10.61 | 36.21 | 8.30 | 28.33 | 4.65 | 10.16 | 34.68 | 8.06 | 27.52 | 4.99 |
| | | 75 | 24°F | 12.26 | 41.82 | 11.15 | 38.03 | 3.70 | 10.84 | 37.00 | 10.49 | 35.78 | 4.51 | 10.59 | 36.12 | 10.37 | 35.37 | 4.67 | 10.12 | 34.53 | 10.09 | 34.42 | 5.00 |
| | | 81 | 27°F | 12.54 | 42.78 | 12.54 | 42.78 | 3.70 | 11.38 | 38.84 | 11.38 | 38.84 | 4.54 | 11.13 | 37.99 | 11.12 | 37.96 | 4.67 | 10.70 | 36.51 | 10.09 | 34.42 | 5.04 |
| | | 86 | 30°F | 13.56 | 46.27 | 13.56 | 46.27 | 3.73 | 12.34 | 42.12 | 12.34 | 42.12 | 4.53 | 12.03 | 41.04 | 12.02 | 41.00 | 4.73 | 11.70 | 39.91 | 11.05 | 37.69 | 5.15 |
| | 66 | 75 | 24°F | 13.56 | 46.26 | 9.04 | 30.83 | 3.73 | 12.00 | 40.94 | 8.37 | 28.55 | 4.55 | 11.68 | 39.87 | 8.32 | 28.38 | 4.67 | 11.11 | 37.90 | 8.00 | 27.30 | 4.98 |
| | | 81 | 27°F | 13.47 | 45.98 | 11.70 | 39.94 | 3.72 | 11.94 | 40.75 | 11.04 | 37.67 | 4.55 | 11.68 | 39.85 | 10.87 | 37.07 | 4.67 | 11.08 | 37.81 | 10.63 | 36.28 | 4.97 |
| | | 86 | 30°F | 13.58 | 46.32 | 13.58 | 46.32 | 3.72 | 12.17 | 41.54 | 12.17 | 41.54 | 4.54 | 11.91 | 40.63 | 11.90 | 40.60 | 4.68 | 11.49 | 39.20 | 11.49 | 39.20 | 4.90 |
| | | 91 | 33°C | 14.14 | 48.24 | 14.14 | 48.24 | 3.74 | 12.88 | 43.94 | 12.88 | 43.94 | 4.55 | 12.64 | 43.12 | 12.63 | 43.09 | 4.70 | 12.35 | 42.14 | 12.35 | 42.14 | 4.91 |
| | 67 | 75 | 24°C | 13.47 | 45.97 | 8.91 | 30.41 | 3.73 | 11.94 | 40.74 | 8.24 | 28.13 | 4.55 | 11.77 | 40.16 | 8.19 | 27.96 | 4.68 | 11.08 | 37.80 | 7.88 | 26.87 | 4.97 |
| | | 80 | 26.7°C | 13.94 | 47.59 | 11.16 | 38.09 | 3.78 | 12.53 | 42.77 | 10.50 | 35.82 | 4.60 | **12.17** | **41.53** | 10.34 | 35.29 | **4.79** | 11.15 | 38.05 | 10.10 | 34.45 | 4.97 |
| | | 86 | 30°C | 13.66 | 46.62 | 13.45 | 45.90 | 3.74 | 12.26 | 41.84 | 12.05 | 41.12 | 4.56 | 12.00 | 40.93 | 11.77 | 40.17 | 4.68 | 11.58 | 39.50 | 11.36 | 38.78 | 4.98 |
| | | 91 | 33°C | 14.22 | 48.53 | 14.01 | 47.81 | 3.74 | 12.97 | 44.24 | 12.75 | 43.52 | 4.56 | 12.73 | 43.42 | 12.50 | 42.67 | 4.70 | 12.44 | 42.44 | 12.23 | 41.72 | 4.98 |
| | 72 | 81 | 27°F | 14.82 | 50.56 | 8.92 | 30.44 | 3.76 | 13.90 | 47.44 | 8.31 | 28.36 | 4.57 | 13.66 | 46.63 | 8.08 | 27.56 | 4.72 | 13.04 | 44.49 | 7.84 | 26.74 | 4.99 |
| | | 86 | 30°F | 15.02 | 51.24 | 11.27 | 38.47 | 3.75 | 13.89 | 47.39 | 10.57 | 36.06 | 4.57 | 13.65 | 46.57 | 10.33 | 35.26 | 4.71 | 13.35 | 45.54 | 10.18 | 34.75 | 4.86 |
| | | 91 | 33°C | 15.03 | 51.29 | 13.45 | 45.88 | 3.76 | 13.92 | 47.49 | 12.79 | 43.66 | 4.58 | 13.68 | 46.67 | 12.56 | 42.85 | 4.72 | 13.38 | 45.65 | 12.39 | 42.29 | 4.87 |
| | | 97 | 36°C | 15.15 | 51.70 | 15.15 | 51.70 | 3.75 | 14.23 | 48.54 | 14.23 | 48.54 | 4.60 | 13.63 | 46.50 | 13.62 | 46.46 | 4.68 | 13.34 | 45.51 | 13.34 | 45.51 | 4.83 |

DBE —Entering air dry bulb
WBE—Entering air wet bulb
Power Input kW - Total Power Input

**[ ] Designates Metric Conversions**

## GROSS SYSTEMS PERFORMANCE DATA - SAGL-060NA+EL3T6518STACTA

| Indoor | | | | Outdoor Ambient Temperature, DB | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 95°F [35°C] | | | | | 115°F [46°C] | | | | | 118.4°F [48°C] | | | | | 126°F [52°C] | | | | |
| Air Flow - CFM [L/s] | WBE | DBE | | Total Capacity | | Sensible Capacity | | Power Input | Total Capacity | | Sensible Capacity | | Power Input | Total Capacity | | Sensible Capacity | | Power Input | Total Capacity | | Sensible Capacity | | Power Input |
| | | | | kW | kBTUH | kW | kBTUH | kW | kW | kBTUH | kW | kBTUH | kW | kW | kBTUH | kW | kBTUH | kW | kW | kBTUH | kW | kBTUH | kW |
| 1750 [825] | 61°F [16°C] | 70 | 21°F | 15.09 | 51.50 | 10.67 | 36.44 | 4.82 | 13.21 | 45.10 | 9.79 | 33.43 | 5.96 | 13.00 | 44.39 | 9.70 | 33.11 | 6.12 | 12.48 | 42.62 | 9.46 | 32.30 | 6.60 |
| | | 75 | 24°F | 14.89 | 50.82 | 12.89 | 44.01 | 4.81 | 13.25 | 45.23 | 12.20 | 41.64 | 5.93 | 13.00 | 44.38 | 12.09 | 41.27 | 6.12 | 12.46 | 42.53 | 11.90 | 40.63 | 6.59 |
| | | 81 | 27°F | 15.24 | 52.03 | 15.26 | 52.10 | 4.83 | 13.63 | 46.54 | 13.67 | 46.67 | 5.95 | 13.50 | 46.08 | 13.52 | 46.14 | 6.12 | 12.98 | 44.33 | 12.99 | 44.36 | 6.60 |
| | | 86 | 30°F | 15.86 | 54.15 | 15.88 | 54.23 | 4.82 | 14.63 | 49.96 | 14.65 | 50.03 | 5.96 | 14.42 | 49.25 | 14.44 | 49.31 | 6.14 | 14.32 | 48.89 | 14.34 | 48.96 | 6.26 |
| | 66°F [19°C] | 75 | 24°F | 16.47 | 56.24 | 10.67 | 36.41 | 4.86 | 15.02 | 51.27 | 9.67 | 33.03 | 5.95 | 14.39 | 49.11 | 9.77 | 33.34 | 6.15 | 13.97 | 47.69 | 9.54 | 32.58 | 6.52 |
| | | 81 | 27°F | 16.43 | 56.10 | 13.63 | 46.55 | 4.84 | 15.02 | 51.27 | 12.67 | 43.24 | 5.95 | 14.38 | 49.08 | 12.72 | 43.41 | 6.15 | 13.99 | 47.77 | 12.60 | 43.02 | 6.50 |
| | | 86 | 30°F | 16.59 | 56.65 | 16.07 | 54.85 | 4.87 | 14.78 | 50.44 | 14.80 | 50.52 | 5.99 | 14.51 | 49.55 | 14.53 | 49.62 | 6.17 | 14.49 | 49.48 | 14.14 | 48.27 | 6.50 |
| | | 91 | 33°C | 16.92 | 57.76 | 16.94 | 57.84 | 4.86 | 15.51 | 52.96 | 15.54 | 53.04 | 5.97 | 15.15 | 51.72 | 15.17 | 51.80 | 6.17 | 14.67 | 50.09 | 14.69 | 50.16 | 6.52 |
| | 72°F [22°C] | 81 | 27°F | 18.48 | 63.10 | 10.70 | 36.55 | 4.91 | 16.88 | 57.64 | 9.60 | 32.78 | 6.02 | 16.52 | 56.41 | 9.24 | 31.55 | 6.23 | 15.85 | 54.11 | 9.00 | 30.72 | 6.72 |
| | | 86 | 30°F | 18.32 | 62.53 | 13.17 | 44.95 | 4.89 | 16.82 | 57.42 | 12.11 | 41.33 | 6.02 | 16.46 | 56.19 | 11.74 | 40.10 | 6.23 | 15.78 | 53.86 | 11.40 | 38.92 | 6.72 |
| | | 91 | 33°C | 18.48 | 63.09 | 15.72 | 53.68 | 4.91 | 16.78 | 57.28 | 14.41 | 49.19 | 6.01 | 16.42 | 56.05 | 14.05 | 47.95 | 6.22 | 15.79 | 53.91 | 13.78 | 47.04 | 6.70 |
| | | 97 | 36°C | 18.61 | 63.52 | 18.63 | 63.59 | 4.91 | 16.91 | 57.72 | 16.93 | 57.80 | 6.00 | 16.54 | 56.48 | 16.57 | 56.56 | 6.20 | 16.28 | 55.60 | 15.91 | 54.32 | 6.71 |
| 1873 [883] | 61°F [16°C] | 70 | 21°F | 15.04 | 51.36 | 10.84 | 36.99 | 4.95 | 13.25 | 45.22 | 9.99 | 34.11 | 6.08 | 12.94 | 44.19 | 9.83 | 33.56 | 6.20 | 12.31 | 42.03 | 9.51 | 32.48 | 6.70 |
| | | 75 | 24°F | 15.10 | 51.54 | 13.52 | 46.14 | 4.95 | 13.25 | 45.22 | 12.54 | 42.82 | 6.08 | 13.06 | 44.58 | 12.45 | 42.52 | 6.22 | 12.40 | 42.35 | 12.14 | 41.46 | 6.70 |
| | | 81 | 27°F | 15.40 | 52.59 | 15.43 | 52.66 | 4.96 | 13.80 | 47.10 | 13.82 | 47.17 | 6.04 | 13.65 | 46.61 | 13.67 | 46.68 | 6.23 | 13.53 | 46.19 | 13.56 | 46.30 | 6.37 |
| | | 86 | 30°F | 16.29 | 55.63 | 16.32 | 55.70 | 4.97 | 14.69 | 50.14 | 14.71 | 50.21 | 6.08 | 14.70 | 50.17 | 14.72 | 50.24 | 6.32 | 14.39 | 49.13 | 14.41 | 49.20 | 6.59 |
| | 66°F [19°C] | 75 | 24°F | 16.51 | 56.36 | 10.86 | 37.09 | 4.99 | 14.67 | 50.08 | 9.43 | 32.20 | 6.04 | 14.42 | 49.22 | 9.96 | 34.01 | 6.28 | 13.95 | 47.62 | 9.79 | 33.43 | 6.59 |
| | | 81 | 27°F | 16.56 | 56.54 | 14.02 | 47.86 | 5.00 | 14.66 | 50.06 | 13.14 | 44.85 | 6.14 | 14.45 | 49.35 | 13.12 | 44.79 | 6.29 | 13.96 | 47.67 | 12.92 | 44.12 | 6.61 |
| | | 86 | 30°F | 16.64 | 56.82 | 16.53 | 56.45 | 4.99 | 14.84 | 50.66 | 14.86 | 50.73 | 6.11 | 14.59 | 49.81 | 14.61 | 49.88 | 6.31 | 14.37 | 49.05 | 14.10 | 48.14 | 6.63 |
| | | 91 | 33°C | 17.11 | 58.41 | 17.13 | 58.49 | 4.99 | 15.61 | 53.29 | 15.63 | 53.36 | 6.13 | 15.31 | 52.27 | 15.33 | 52.35 | 6.30 | 14.93 | 50.97 | 14.95 | 51.04 | 6.61 |
| | 72°F [22°C] | 81 | 27°F | 18.48 | 63.08 | 10.87 | 37.13 | 5.36 | 16.78 | 57.27 | 9.68 | 33.06 | 6.15 | 16.48 | 56.26 | 9.38 | 32.04 | 6.32 | 15.71 | 53.64 | 9.08 | 31.01 | 6.84 |
| | | 86 | 30°F | 18.51 | 63.18 | 13.56 | 46.28 | 5.03 | 16.73 | 57.12 | 12.33 | 42.09 | 6.16 | 16.43 | 56.10 | 12.03 | 41.08 | 6.33 | 15.74 | 53.73 | 11.66 | 39.80 | 6.83 |
| | | 91 | 33°C | 18.56 | 63.35 | 15.84 | 54.09 | 5.04 | 16.77 | 57.26 | 14.91 | 50.90 | 6.15 | 16.47 | 56.25 | 14.61 | 49.88 | 6.32 | 15.82 | 54.01 | 14.55 | 49.66 | 6.81 |
| | | 97 | 36°C | 18.65 | 63.67 | 18.68 | 63.76 | 5.03 | 16.93 | 57.81 | 16.96 | 57.89 | 6.15 | 16.71 | 57.05 | 16.73 | 57.13 | 6.29 | 16.40 | 55.98 | 16.36 | 55.85 | 6.51 |
| 2015 [950] | 61°F [16°C] | 70 | 21°F | 15.05 | 51.38 | 11.05 | 37.73 | 5.06 | 13.32 | 45.47 | 10.22 | 34.88 | 6.18 | 13.12 | 44.77 | 10.27 | 35.07 | 6.37 | 12.55 | 42.84 | 9.97 | 34.04 | 6.84 |
| | | 75 | 24°F | 15.13 | 51.66 | 13.78 | 47.05 | 5.07 | 13.39 | 45.71 | 12.96 | 44.26 | 6.18 | 13.09 | 44.67 | 12.82 | 43.78 | 6.39 | 15.47 | 52.81 | 12.47 | 42.58 | 6.85 |
| | | 81 | 27°F | 15.48 | 52.84 | 15.50 | 52.92 | 5.07 | 14.05 | 47.98 | 14.07 | 48.04 | 6.23 | 13.76 | 46.98 | 13.78 | 47.05 | 6.39 | 13.21 | 45.10 | 12.47 | 42.58 | 6.91 |
| | | 86 | 30°F | 16.74 | 57.15 | 16.76 | 57.23 | 5.11 | 15.24 | 52.03 | 15.26 | 52.10 | 6.20 | 14.86 | 50.74 | 14.88 | 50.81 | 6.46 | 14.44 | 49.31 | 13.66 | 46.62 | 7.06 |
| | 66°F [19°C] | 75 | 24°F | 16.74 | 57.15 | 11.17 | 38.14 | 5.11 | 14.81 | 50.58 | 10.35 | 35.32 | 6.24 | 14.44 | 49.30 | 10.29 | 35.13 | 6.40 | 13.71 | 46.82 | 9.89 | 33.77 | 6.83 |
| | | 81 | 27°F | 16.64 | 56.79 | 14.47 | 49.41 | 5.10 | 14.75 | 50.34 | 13.65 | 46.60 | 6.24 | 14.43 | 49.28 | 13.44 | 45.89 | 6.39 | 13.68 | 46.69 | 13.15 | 44.88 | 6.81 |
| | | 86 | 30°F | 16.76 | 57.22 | 16.78 | 57.30 | 5.09 | 15.03 | 51.31 | 15.05 | 51.38 | 6.22 | 14.72 | 50.24 | 14.74 | 50.31 | 6.41 | 14.18 | 48.42 | 14.20 | 48.49 | 6.71 |
| | | 91 | 33°C | 17.45 | 59.59 | 17.48 | 59.67 | 5.13 | 15.90 | 54.27 | 15.92 | 54.35 | 6.24 | 15.61 | 53.31 | 15.64 | 53.38 | 6.43 | 15.25 | 52.06 | 15.27 | 52.13 | 6.73 |
| | 72°F [22°C] | 81 | 27°F | 18.29 | 62.45 | 11.03 | 37.65 | 5.15 | 17.17 | 58.60 | 10.28 | 35.08 | 6.27 | 16.88 | 57.64 | 9.99 | 34.11 | 6.45 | 16.10 | 54.96 | 9.69 | 33.08 | 6.84 |
| | | 86 | 30°F | 18.54 | 63.30 | 13.94 | 47.58 | 5.15 | 17.14 | 58.53 | 13.07 | 44.60 | 6.26 | 16.86 | 57.57 | 12.78 | 43.64 | 6.45 | 16.48 | 56.26 | 12.59 | 42.99 | 6.66 |
| | | 91 | 33°C | 18.56 | 63.36 | 16.62 | 56.75 | 5.15 | 17.18 | 58.66 | 15.82 | 54.00 | 6.27 | 16.90 | 57.70 | 15.54 | 53.04 | 6.46 | 16.52 | 56.39 | 15.32 | 52.31 | 6.67 |
| | | 97 | 36°C | 18.70 | 63.86 | 18.73 | 63.95 | 5.14 | 17.56 | 59.96 | 17.59 | 60.05 | 6.30 | 16.84 | 57.48 | 16.86 | 57.57 | 6.41 | 16.47 | 56.21 | 16.49 | 56.29 | 6.61 |

DBE —Entering air dry bulb
WBE—Entering air wet bulb
Power Input kW - Total Power Input

[ ] Designates Metric Conversions

## GROSS SYSTEMS PERFORMANCE DATA -SAGN-060NA+SHLL-HM6524TA

| Indoor | | | | 95 | | | | | 115 | | | | | 118.4 | | | | | 126 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Air Flow - CFM [L/s] | WBE | DBE | | Total Capacity | | Sensible Capacity | | Power Input | Total Capacity | | Sensible Capacity | | Power Input | Total Capacity | | Sensible Capacity | | Power Input | Total Capacity | | Sensible Capacity | | Power Input |
| | | | | kW | kBTUH | kW | kBTUH | kW | kW | kBTUH | kW | kBTUH | kW | kW | kBTUH | kW | kBTUH | kW | kW | kBTUH | kW | kBTUH | kW |
| 2031 [958] | 61 | 70 | 21°F | 15.79 | 53.87 | 11.92 | 40.68 | 4.14 | 13.97 | 47.67 | 11.08 | 37.79 | 4.99 | 13.51 | 46.10 | 11.62 | 39.66 | 5.24 | 13.38 | 45.65 | 11.09 | 37.85 | 5.49 |
| | | 75 | 24°F | 15.69 | 53.55 | 15.01 | 51.22 | 4.13 | 15.78 | 53.84 | 13.98 | 47.71 | 4.99 | 14.07 | 48.00 | 13.49 | 46.03 | 5.26 | 13.53 | 46.17 | 13.29 | 45.33 | 5.51 |
| | | 81 | 27°F | 16.41 | 56.00 | 16.41 | 56.00 | 4.14 | 14.84 | 50.63 | 14.84 | 50.63 | 5.04 | 14.99 | 51.13 | 14.14 | 48.24 | 5.26 | 14.01 | 47.81 | 13.49 | 46.04 | 5.55 |
| | | 86 | 30°F | 17.59 | 60.03 | 17.59 | 60.03 | 4.13 | 16.14 | 55.07 | 16.14 | 55.07 | 5.01 | 16.05 | 54.75 | 15.20 | 51.86 | 5.32 | 15.20 | 51.85 | 14.63 | 49.92 | 5.67 |
| | 66 | 75 | 24°F | 17.45 | 59.53 | 11.97 | 40.84 | 4.14 | 15.60 | 53.23 | 11.19 | 38.18 | 5.06 | 14.79 | 50.45 | 11.64 | 39.72 | 5.26 | 14.50 | 49.46 | 11.01 | 37.58 | 5.49 |
| | | 81 | 27°F | 17.22 | 58.75 | 15.67 | 53.45 | 4.12 | 15.29 | 52.18 | 14.60 | 49.81 | 5.02 | 14.78 | 50.44 | 14.67 | 50.04 | 5.26 | 14.46 | 49.35 | 14.14 | 48.24 | 5.47 |
| | | 86 | 30°F | 17.58 | 59.98 | 17.58 | 59.98 | 4.14 | 16.00 | 54.60 | 16.00 | 54.60 | 5.00 | 15.90 | 54.27 | 15.06 | 51.38 | 5.27 | 15.15 | 51.71 | 14.95 | 51.01 | 5.39 |
| | | 91 | 33°C | 18.45 | 62.95 | 18.45 | 62.95 | 4.14 | 17.19 | 58.66 | 17.19 | 58.66 | 5.02 | 16.77 | 57.22 | 15.92 | 54.33 | 5.29 | 16.18 | 55.20 | 15.97 | 54.50 | 5.41 |
| | 67 | 75 | 24°C | 17.22 | 58.74 | 11.85 | 40.42 | 4.12 | 15.29 | 52.17 | 11.07 | 37.76 | 5.05 | 14.87 | 50.75 | 11.52 | 39.30 | 5.27 | 14.46 | 49.34 | 10.89 | 37.16 | 5.48 |
| | | 80 | 26.7°C | 18.22 | 62.18 | 14.96 | 51.05 | 4.55 | 16.18 | 55.21 | 13.94 | 47.57 | 5.38 | **15.78** | **53.86** | 14.07 | 48.00 | **5.79** | 14.54 | 49.60 | 13.53 | 46.15 | 5.48 |
| | | 86 | 30°C | 17.67 | 60.28 | 17.46 | 59.56 | 4.13 | 16.09 | 54.90 | 15.88 | 54.18 | 5.06 | 15.99 | 54.56 | 14.93 | 50.95 | 5.27 | 15.24 | 52.01 | 14.82 | 50.58 | 5.49 |
| | | 91 | 33°C | 18.54 | 63.25 | 18.33 | 62.53 | 4.13 | 17.28 | 58.96 | 17.07 | 58.24 | 5.06 | 16.86 | 57.52 | 15.80 | 53.91 | 5.29 | 16.27 | 55.50 | 15.85 | 54.08 | 5.49 |
| | 72 | 81 | 27°F | 19.37 | 66.11 | 11.96 | 40.81 | 4.14 | 18.00 | 61.41 | 11.12 | 37.95 | 5.04 | 17.14 | 58.47 | 11.36 | 38.75 | 5.31 | 16.79 | 57.28 | 10.82 | 36.92 | 5.49 |
| | | 86 | 30°F | 19.41 | 66.22 | 15.00 | 51.17 | 4.14 | 17.96 | 61.30 | 14.25 | 48.62 | 5.03 | 17.12 | 58.40 | 14.03 | 47.88 | 5.31 | 17.16 | 58.54 | 13.61 | 46.43 | 5.35 |
| | | 91 | 33°C | 19.44 | 66.33 | 18.08 | 61.68 | 4.14 | 17.94 | 61.22 | 17.21 | 58.72 | 5.04 | 17.15 | 58.53 | 16.68 | 56.90 | 5.32 | 17.19 | 58.66 | 16.23 | 55.37 | 5.36 |
| | | 97 | 36°C | 20.25 | 69.09 | 20.25 | 69.09 | 4.14 | 18.65 | 63.62 | 18.65 | 63.62 | 5.03 | 17.94 | 61.23 | 17.10 | 58.34 | 5.27 | 17.35 | 59.20 | 17.14 | 58.50 | 5.31 |

DBE —Entering air dry bulb
WBE—Entering air wet bulb
Power Input kW - Total Power Input

[ ] Designates Metric Conversions

## GROSS SYSTEMS PERFORMANCE DATA - SAGN-065NA+EL3T6518STACTA

| Indoor | | | | Outdoor Ambient Temperature, DB | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 95°F [35°C] | | | | | 115°F [46°C] | | | | | 118°F [48°C] | | | | | 126°F [52°C] | | | | |
| Air Flow - CFM [L/s] | WBE | DBE | | Total Capacity | | Sensible Capacity | | Power Input | Total Capacity | | Sensible Capacity | | Power Input | Total Capacity | | Sensible Capacity | | Power Input | Total Capacity | | Sensible Capacity | | Power Input |
| | | | | kW | MBH | kW | MBH | kW | kW | MBH | kW | MBH | kW | kW | MBH | kW | MBH | kW | kW | MBH | kW | MBH | kW |
| 2203 [1039] | 61°F [16°C] | 70°F | 21°C | 16.25 | 55.44 | 12.04 | 41.08 | 4.61 | 14.39 | 49.10 | 11.18 | 38.14 | 5.65 | 13.74 | 46.89 | 11.18 | 38.72 | 5.72 | 13.59 | 46.54 | 10.87 | 37.06 | 6.03 |
| | | 75°F | 24°C | 16.18 | 55.20 | 14.99 | 51.14 | 4.63 | 14.18 | 48.38 | 13.69 | 46.70 | 5.62 | 13.74 | 46.88 | 13.53 | 46.74 | 5.72 | 13.57 | 46.45 | 13.26 | 45.24 | 6.02 |
| | | 81°F | 27°C | 16.57 | 56.55 | 16.57 | 56.55 | 4.62 | 15.13 | 51.64 | 15.13 | 51.64 | 5.61 | 14.93 | 51.53 | 14.23 | 48.55 | 5.72 | 14.35 | 48.94 | 14.08 | 48.19 | 6.03 |
| | | 86°F | 30°C | 17.90 | 61.07 | 17.90 | 61.07 | 4.61 | 16.47 | 56.20 | 16.47 | 56.20 | 5.63 | 15.84 | 54.65 | 15.14 | 51.67 | 5.74 | 15.66 | 53.43 | 15.40 | 52.71 | 5.71 |
| | 66°F [19°C] | 75°F | 24°C | 17.76 | 60.62 | 12.03 | 41.04 | 4.61 | 16.19 | 55.24 | 11.03 | 37.63 | 5.61 | 15.11 | 51.54 | 11.24 | 38.95 | 5.75 | 15.05 | 51.53 | 10.94 | 37.33 | 5.95 |
| | | 81°F | 27°C | 17.65 | 60.23 | 15.52 | 52.95 | 4.62 | 16.12 | 55.01 | 14.48 | 49.43 | 5.61 | 15.10 | 51.51 | 14.14 | 48.85 | 5.75 | 15.08 | 51.61 | 13.95 | 47.59 | 5.93 |
| | | 86°F | 30°C | 17.99 | 61.38 | 17.99 | 61.38 | 4.63 | 16.16 | 55.15 | 16.12 | 55.00 | 5.63 | 15.93 | 54.95 | 15.23 | 51.97 | 5.77 | 15.83 | 54.01 | 15.20 | 52.03 | 5.93 |
| | | 91°F | 33°C | 18.70 | 63.82 | 18.70 | 63.82 | 4.64 | 17.16 | 58.56 | 17.16 | 58.56 | 5.60 | 16.56 | 57.10 | 15.86 | 54.12 | 5.77 | 16.01 | 54.61 | 15.75 | 53.89 | 5.95 |
| | 72°F [22°C] | 81°F | 27°C | 20.02 | 68.32 | 12.11 | 41.32 | 4.62 | 18.07 | 61.65 | 10.88 | 37.13 | 5.64 | 17.21 | 58.72 | 10.73 | 37.19 | 5.82 | 16.91 | 57.85 | 10.41 | 35.50 | 6.14 |
| | | 86°F | 30°C | 19.89 | 67.86 | 15.14 | 51.65 | 4.62 | 18.13 | 61.86 | 14.00 | 47.76 | 5.64 | 17.15 | 58.51 | 13.19 | 45.59 | 5.82 | 16.84 | 57.60 | 12.77 | 43.56 | 6.14 |
| | | 91°F | 33°C | 19.93 | 68.00 | 18.09 | 61.73 | 4.63 | 18.09 | 61.72 | 16.89 | 57.63 | 5.63 | 17.11 | 58.37 | 15.45 | 53.31 | 5.81 | 16.85 | 57.65 | 15.11 | 51.54 | 6.12 |
| | | 97°F | 36°C | 20.04 | 68.36 | 20.04 | 68.36 | 4.63 | 18.55 | 63.29 | 18.55 | 63.29 | 5.61 | 17.93 | 61.77 | 17.23 | 58.79 | 5.80 | 17.59 | 60.03 | 16.95 | 57.98 | 6.13 |
| 2250 [1061] | 61°F [16°C] | 70°F | 21°C | 16.33 | 55.73 | 12.28 | 41.90 | 4.65 | 14.32 | 48.86 | 11.22 | 38.28 | 5.68 | 13.68 | 46.69 | 11.31 | 39.17 | 5.80 | 13.42 | 45.96 | 10.91 | 37.23 | 6.12 |
| | | 75°F | 24°C | 16.08 | 54.88 | 15.06 | 51.37 | 4.66 | 14.35 | 48.95 | 14.23 | 48.57 | 5.69 | 13.89 | 47.97 | 13.80 | 47.08 | 5.81 | 13.51 | 46.27 | 13.50 | 46.06 | 6.12 |
| | | 81°F | 27°C | 16.67 | 56.89 | 16.67 | 56.89 | 4.65 | 14.99 | 51.15 | 14.99 | 51.15 | 5.63 | 15.09 | 52.06 | 14.39 | 49.08 | 5.82 | 14.88 | 50.77 | 14.61 | 50.00 | 5.81 |
| | | 86°F | 30°C | 17.91 | 61.10 | 17.91 | 61.10 | 4.65 | 16.19 | 55.26 | 16.19 | 55.26 | 5.65 | 16.11 | 55.56 | 15.41 | 52.58 | 5.91 | 15.73 | 53.67 | 15.47 | 52.95 | 6.02 |
| | 66°F [19°C] | 75°F | 24°C | 17.57 | 59.94 | 12.04 | 41.09 | 4.65 | 15.72 | 53.66 | 10.62 | 36.23 | 5.62 | 15.14 | 51.65 | 11.44 | 39.61 | 5.87 | 15.04 | 51.46 | 11.19 | 38.17 | 6.02 |
| | | 81°F | 27°C | 17.64 | 60.20 | 15.69 | 53.53 | 4.65 | 15.63 | 53.32 | 14.69 | 50.14 | 5.70 | 15.17 | 51.77 | 14.54 | 50.20 | 5.88 | 15.05 | 51.51 | 14.27 | 48.67 | 6.04 |
| | | 86°F | 30°C | 17.91 | 61.10 | 17.91 | 61.10 | 4.66 | 16.07 | 54.84 | 16.07 | 54.84 | 5.68 | 16.01 | 55.21 | 15.31 | 52.23 | 5.90 | 15.70 | 53.56 | 15.17 | 51.91 | 6.05 |
| | | 91°F | 33°C | 18.73 | 63.91 | 18.73 | 63.91 | 4.66 | 17.15 | 58.52 | 17.15 | 58.52 | 5.67 | 16.72 | 57.63 | 16.02 | 54.65 | 5.89 | 16.26 | 55.48 | 16.00 | 54.76 | 6.04 |
| | 72°F [22°C] | 81°F | 27°C | 19.71 | 67.27 | 12.06 | 41.14 | 4.66 | 17.79 | 60.70 | 10.82 | 36.92 | 5.70 | 17.17 | 58.57 | 10.87 | 37.67 | 5.91 | 16.77 | 57.39 | 10.49 | 35.79 | 6.25 |
| | | 86°F | 30°C | 19.83 | 67.68 | 15.25 | 52.04 | 4.66 | 18.09 | 61.72 | 14.06 | 47.96 | 5.70 | 17.12 | 58.42 | 13.47 | 46.56 | 5.92 | 16.80 | 57.47 | 13.03 | 44.43 | 6.24 |
| | | 91°F | 33°C | 19.90 | 67.89 | 18.27 | 62.33 | 4.67 | 18.06 | 61.62 | 16.99 | 57.99 | 5.69 | 17.16 | 58.56 | 16.01 | 55.21 | 5.91 | 16.88 | 57.75 | 15.86 | 54.12 | 6.22 |
| | | 97°F | 36°C | 21.23 | 72.54 | 19.97 | 67.99 | 4.67 | 18.92 | 64.55 | 18.92 | 64.55 | 5.70 | 18.10 | 62.33 | 17.40 | 59.35 | 5.88 | 17.71 | 60.41 | 17.39 | 59.48 | 5.94 |
| 2322 [1095] | 61°F [16°C] | 70°F | 21°C | 16.17 | 55.18 | 12.21 | 41.67 | 4.71 | 14.31 | 48.83 | 11.35 | 38.71 | 5.68 | 13.85 | 47.27 | 11.74 | 40.65 | 5.95 | 13.66 | 46.76 | 11.36 | 38.77 | 6.25 |
| | | 75°F | 24°C | 16.08 | 54.85 | 15.38 | 52.46 | 4.70 | 16.16 | 55.15 | 14.32 | 48.87 | 5.68 | 14.25 | 49.21 | 13.83 | 47.17 | 5.97 | 13.86 | 47.29 | 13.56 | 46.44 | 6.26 |
| | | 81°F | 27°C | 16.81 | 57.37 | 16.81 | 57.37 | 4.71 | 15.20 | 51.86 | 15.20 | 51.86 | 5.73 | 15.19 | 52.42 | 14.49 | 49.44 | 5.97 | 14.31 | 48.98 | 13.83 | 47.16 | 6.31 |
| | | 86°F | 30°C | 18.02 | 61.49 | 18.02 | 61.49 | 4.70 | 16.53 | 56.41 | 16.53 | 56.41 | 5.69 | 16.28 | 56.12 | 15.58 | 53.14 | 6.04 | 15.52 | 53.12 | 14.99 | 51.13 | 6.45 |
| | 66°F [19°C] | 75°F | 24°C | 17.87 | 60.98 | 12.26 | 41.84 | 4.71 | 15.98 | 54.53 | 11.46 | 39.11 | 5.75 | 15.16 | 51.72 | 11.76 | 40.71 | 5.98 | 14.80 | 50.67 | 11.29 | 38.50 | 6.24 |
| | | 81°F | 27°C | 17.64 | 60.18 | 16.05 | 54.75 | 4.69 | 15.66 | 53.45 | 14.95 | 51.02 | 5.71 | 15.15 | 51.70 | 14.86 | 51.28 | 5.97 | 14.77 | 50.55 | 14.49 | 49.42 | 6.22 |
| | | 86°F | 30°C | 18.01 | 61.44 | 18.01 | 61.44 | 4.71 | 16.39 | 55.93 | 16.39 | 55.93 | 5.69 | 16.13 | 55.63 | 15.43 | 52.65 | 5.99 | 15.53 | 52.97 | 15.27 | 52.25 | 6.13 |
| | | 91°F | 33°C | 18.90 | 64.49 | 18.90 | 64.49 | 4.70 | 17.61 | 60.09 | 17.61 | 60.09 | 5.71 | 17.02 | 58.65 | 16.32 | 55.67 | 6.01 | 16.58 | 56.55 | 16.32 | 55.83 | 6.15 |
| | 72°F [22°C] | 81°F | 27°C | 19.84 | 67.71 | 12.25 | 41.81 | 4.71 | 18.43 | 62.90 | 11.39 | 38.87 | 5.73 | 17.57 | 59.93 | 11.47 | 39.71 | 6.03 | 17.15 | 58.68 | 11.09 | 37.82 | 6.25 |
| | | 86°F | 30°C | 19.88 | 67.83 | 15.36 | 52.42 | 4.70 | 18.40 | 62.79 | 14.59 | 49.80 | 5.72 | 17.55 | 59.86 | 14.21 | 49.07 | 6.03 | 17.53 | 59.96 | 13.94 | 47.56 | 6.08 |
| | | 91°F | 33°C | 19.91 | 67.94 | 18.52 | 63.18 | 4.71 | 18.38 | 62.71 | 17.63 | 60.15 | 5.74 | 17.58 | 59.99 | 16.92 | 58.31 | 6.04 | 17.56 | 60.09 | 16.63 | 56.72 | 6.09 |
| | | 97°F | 36°C | 20.74 | 70.77 | 20.74 | 70.77 | 4.71 | 19.10 | 65.17 | 19.10 | 65.17 | 5.72 | 18.22 | 62.76 | 17.52 | 59.78 | 5.99 | 17.78 | 60.64 | 17.52 | 59.92 | 6.04 |

**[ ] Designates Metric Conversions**

DBE —Entering air dry bulb
WBE—Entering air wet bulb
Power Input kW - Total Power Input

## GROSS SYSTEMS PERFORMANCE DATA -SAGN-066NA+SHLL-HM6524TA

| Indoor | | | | 95 | | | | | 115 | | | | | 118.4 | | | | | 126 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Air Flow - CFM [L/s] | WBE | DBE | | Total Capacity | | Sensible Capacity | | Power Input | Total Capacity | | Sensible Capacity | | Power Input | Total Capacity | | Sensible Capacity | | Power Input | Total Capacity | | Sensible Capacity | | Power Input |
| | | | | kW | kBTUH | kW | kBTUH | kW | kW | kBTUH | kW | kBTUH | kW | kW | kBTUH | kW | kBTUH | kW | kW | kBTUH | kW | kBTUH | kW |
| 2031 [958] | 61 | 70 | 21°F | 17.26 | 58.91 | 13.04 | 44.49 | 4.77 | 15.28 | 52.13 | 12.11 | 41.33 | 5.75 | 14.78 | 50.42 | 12.71 | 43.38 | 6.03 | 14.63 | 49.92 | 12.13 | 41.39 | 6.33 |
| | | 75 | 24°F | 17.16 | 58.56 | 16.41 | 56.01 | 4.76 | 17.26 | 58.88 | 15.29 | 52.17 | 5.75 | 15.38 | 52.49 | 14.75 | 50.33 | 6.06 | 14.80 | 50.49 | 14.53 | 49.57 | 6.35 |
| | | 81 | 27°F | 17.95 | 61.24 | 17.95 | 61.24 | 4.77 | 16.23 | 55.37 | 16.23 | 55.37 | 5.80 | 16.39 | 55.92 | 15.46 | 52.76 | 6.06 | 15.32 | 52.29 | 14.76 | 50.35 | 6.39 |
| | | 86 | 30°F | 19.24 | 65.65 | 19.24 | 65.65 | 4.76 | 17.65 | 60.23 | 17.65 | 60.23 | 5.77 | 17.55 | 59.88 | 16.62 | 56.71 | 6.13 | 16.62 | 56.71 | 16.00 | 54.59 | 6.53 |
| | 66 | 75 | 24°F | 19.08 | 65.10 | 13.09 | 44.66 | 4.77 | 17.06 | 58.21 | 12.24 | 41.75 | 5.83 | 16.17 | 55.17 | 12.73 | 43.44 | 6.06 | 15.85 | 54.09 | 12.05 | 41.10 | 6.32 |
| | | 81 | 27°F | 18.83 | 64.25 | 17.13 | 58.45 | 4.75 | 16.72 | 57.06 | 15.96 | 54.47 | 5.78 | 16.17 | 55.16 | 16.04 | 54.73 | 6.06 | 15.82 | 53.97 | 15.46 | 52.76 | 6.30 |
| | | 86 | 30°F | 19.22 | 65.60 | 19.22 | 65.60 | 4.77 | 17.50 | 59.71 | 17.50 | 59.71 | 5.76 | 17.39 | 59.35 | 16.47 | 56.19 | 6.07 | 16.57 | 56.55 | 16.35 | 55.78 | 6.21 |
| | | 91 | 33°C | 20.18 | 68.85 | 20.18 | 68.85 | 4.76 | 18.80 | 64.15 | 18.80 | 64.15 | 5.79 | 18.34 | 62.58 | 17.41 | 59.42 | 6.09 | 17.69 | 60.37 | 17.47 | 59.60 | 6.23 |
| | 67 | 75 | 24°C | 18.83 | 64.24 | 12.97 | 44.24 | 4.75 | 16.72 | 57.05 | 12.11 | 41.33 | 5.83 | 16.26 | 55.47 | 12.61 | 43.02 | 6.06 | 15.81 | 53.96 | 11.92 | 40.68 | 6.32 |
| | | 80 | 26.7°C | 19.87 | 67.82 | 16.37 | 55.87 | 5.27 | 17.76 | 60.60 | 15.26 | 52.06 | 6.29 | **17.24** | **58.85** | 15.40 | 52.54 | **6.55** | 15.89 | 54.22 | 14.80 | 50.51 | 6.32 |
| | | 86 | 30°C | 19.31 | 65.89 | 19.10 | 65.17 | 4.76 | 17.59 | 60.01 | 17.38 | 59.29 | 5.84 | 17.48 | 59.65 | 16.34 | 55.76 | 6.07 | 16.66 | 56.85 | 16.22 | 55.36 | 6.33 |
| | | 91 | 33°C | 20.26 | 69.14 | 20.05 | 68.42 | 4.76 | 18.89 | 64.45 | 18.68 | 63.73 | 5.84 | 18.43 | 62.88 | 17.29 | 59.00 | 6.09 | 17.78 | 60.67 | 17.34 | 59.18 | 6.33 |
| | 72 | 81 | 27°F | 21.19 | 72.29 | 13.08 | 44.63 | 4.77 | 19.68 | 67.15 | 12.16 | 41.50 | 5.80 | 18.74 | 63.95 | 12.42 | 42.37 | 6.12 | 18.36 | 62.64 | 11.83 | 40.37 | 6.33 |
| | | 86 | 30°F | 21.22 | 72.42 | 16.40 | 55.96 | 4.76 | 19.64 | 67.03 | 15.58 | 53.17 | 5.79 | 18.72 | 63.87 | 15.35 | 52.37 | 6.11 | 18.76 | 64.01 | 14.88 | 50.77 | 6.16 |
| | | 91 | 33°C | 21.26 | 72.54 | 19.77 | 67.45 | 4.77 | 19.62 | 67.45 | 18.82 | 64.21 | 5.81 | 18.76 | 64.01 | 18.24 | 62.23 | 6.12 | 18.80 | 64.15 | 17.75 | 60.56 | 6.17 |
| | | 97 | 36°C | 22.14 | 75.55 | 22.14 | 75.55 | 4.77 | 20.39 | 69.57 | 20.39 | 69.57 | 5.80 | 19.62 | 67.61 | 18.70 | 63.80 | 6.07 | 18.97 | 64.74 | 18.75 | 63.97 | 6.12 |

DBE —Entering air dry bulb
WBE—Entering air wet bulb
Power Input kW - Total Power Input

[ ] Designates Metric Conversions

# AIRFLOW PERFORMANCE

Airflow performance data is based on cooling performance with a coil and filter in place. Select performance table for appropriate unit size voltage Make sure external static applied to unit allows operation within the minimum and maximum limits shown in table below for cooling operation.

## 5.2 AIRFLOW PERFORMANCE DATA-EL3T (50HZ WITH CONSTANT TORQUE MOTOR)

| Model No. EL3T | Tonnage Application | Blower Size/ Motor HP [W] # of Speeds | Speed Tap | Torque Value lb*in [N*m] | | CFM [L/s] Air Delivery/RPM/Watts -- 220-230 Volts | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | External Static Pressure -- Inches W.C. [kPa] | | | | |
| | | | | | | 0.1 [.02] | 0.2 [.05] | 0.3 [.07] | 0.4 [.10] | 0.5 [.12] |
| 1812SP | 1.5 Ton | 6x8 1/3HP [249] 5 Speed | 1 | 2.6 [.294] | SCFM | 350 | 276 | 199 | - | - |
| | | | | | RPM | 872 | 990 | 1118 | - | - |
| | | | | | Watts | 36.1 | 41.1 | 45.6 | - | - |
| | | | 2 | 3.4 [.384] | SCFM | 450 | 380 | 306 | - | - |
| | | | | | RPM | 983 | 1070 | 1182 | - | - |
| | | | | | Watts | 52.3 | 55.2 | 59.5 | - | - |
| | | | 3 | 3.8 [.429] | SCFM | 490 | 429 | 354 | - | - |
| | | | | | RPM | 1018 | 1114 | 1216 | - | - |
| | | | | | Watts | 57.8 | 63.7 | 69.2 | - | - |
| | | | 4 | 4.2 [.475] | SCFM | 525 | 472 | 407 | - | - |
| | | | | | RPM | 1074 | 1150 | 1245 | - | - |
| | | | | | Watts | 68.2 | 72.8 | 78.6 | - | - |
| | | | 5 | 6.5 [.735] | SCFM | 700 | 638 | 583 | - | - |
| | | | | | RPM | 1288 | 1348 | 1423 | - | - |
| | | | | | Watts | 119.8 | 125.5 | 130.3 | - | - |
| 2412SP | 2 Ton | 6x8 1/3HP [249] 5 Speed | 1 | 3.1 [.350] | SCFM | 400 | 316 | 237 | - | - |
| | | | | | RPM | 937 | 1061 | 1154 | - | - |
| | | | | | Watts | 45.3 | 50.8 | 55.6 | - | - |
| | | | 2 | 5.2 [.588] | SCFM | 600 | 531 | 472 | - | - |
| | | | | | RPM | 1161 | 1240 | 1312 | - | - |
| | | | | | Watts | 88.9 | 93.8 | 99 | - | - |
| | | | 3 | 6 [.678] | SCFM | 650 | 597.8 | 542 | - | - |
| | | | | | RPM | 1250 | 1306 | 1380 | - | - |
| | | | | | Watts | 109.2 | 112.3 | 118.2 | - | - |
| | | | 4 | 6.5 [.735] | SCFM | 700 | 638 | 583 | - | - |
| | | | | | RPM | 1288 | 1348 | 1423 | - | - |
| | | | | | Watts | 119.8 | 125.5 | 130.3 | - | - |
| | | | 5 | 8.0 [.904] | SCFM | 783 | 728 | 676 | - | - |
| | | | | | RPM | 1406 | 1466 | 1521 | - | - |
| | | | | | Watts | 162.6 | 166.8 | 175.7 | - | - |
| 3012SP | 2.5 Ton | 7x8 1/2HP [373] 5 Speed | 1 | 7.8 [.881] | SCFM | 765 | 700 | 641 | - | - |
| | | | | | RPM | 1110 | 1188 | 1252 | - | - |
| | | | | | Watts | 126.2 | 134.9 | 139.9 | - | - |
| | | | 2 | 11.0 [1.243] | SCFM | 958 | 900 | 837 | - | - |
| | | | | | RPM | 1300 | 1386 | 1412 | - | - |
| | | | | | Watts | 203.1 | 209.2 | 217.5 | - | - |
| | | | 3 | 12.3 [1.389] | SCFM | 1021 | 960 | 907 | - | - |
| | | | | | RPM | 1358 | 1413 | 1468 | - | - |
| | | | | | Watts | 233.4 | 242.5 | 250.6 | - | - |
| | | | 4 | 13.5 [1.526] | SCFM | 1077 | 1020 | 961 | - | - |
| | | | | | RPM | 1412 | 1464 | 1522 | - | - |
| | | | | | Watts | 265.1 | 273.6 | 283.8 | - | - |
| | | | 5 | 15.0 [1.694] | SCFM | 1174.8 | 1132.4 | 1088.9 | 1049.5 | 1007.1 |
| | | | | | RPM | 1412 | 1468 | 1520 | 1561 | 1615 |
| | | | | | Watts | 302.4 | 313.3 | 320.1 | 329.9 | 336.2 |
| 3612SP | 3 Ton | 7x8 1/2HP [373] 5 Speed | 1 | 7.8 [.881] | SCFM | 765 | 700 | 641 | 573 | 520 |
| | | | | | RPM | 1110 | 1188 | 1252 | 1332 | 1402 |
| | | | | | Watts | 126.2 | 134.9 | 139.9 | 147.1 | 154.4 |
| | | | 2 | 11.0 [1.243] | SCFM | 958 | 900 | 837 | 786 | 732 |
| | | | | | RPM | 1300 | 1386 | 1412 | 1468 | 1531 |
| | | | | | Watts | 203.1 | 209.2 | 217.5 | 225.7 | 232.8 |
| | | | 3 | 12.3 [1.389] | SCFM | 1021 | 960 | 907 | 851 | 798 |
| | | | | | RPM | 1358 | 1413 | 1468 | 1526 | 1575 |
| | | | | | Watts | 233.4 | 242.5 | 250.6 | 258.9 | 266.7 |
| | | | 4 | 13.5 [1.526] | SCFM | 1077 | 1020 | 961 | 911 | 862 |
| | | | | | RPM | 1412 | 1464 | 1522 | 1568 | 1626 |
| | | | | | Watts | 265.1 | 273.6 | 283.8 | 289.1 | 298.9 |
| | | | 5 | 15.0 [1.694] | SCFM | 1174.8 | 1132.4 | 1088.9 | 1049.5 | 1007.1 |
| | | | | | RPM | 1412 | 1468 | 1520 | 1561 | 1615 |
| | | | | | Watts | 302.4 | 313.3 | 320.1 | 329.9 | 336.2 |

Notes: Constant Torque motor speed changes.

• All Constant Torque motors have 5 speed tabs. Speed tab 2,3 & 4 will be wired from the factory. Tab 1 shuould be used for extremely low static applications and Tab 5 should be used for extermely high static applications (refer to airflow performance data for correct usage)

**[ ] Designates Metric Conversions**

# AIRFLOW PERFORMANCE

### 5.2 AIRFLOW PERFORMANCE DATA - EL3T (50HZ WITH CONSTANT TORQUE MOTOR) - continued

| Model No. EL3T | Tonnage Application | Blower Size/ Motor HP [W] # of Speeds | Speed Tap | Torque Value lb*in [N*m] | | CFM [L/s] Air Delivery/RPM/Watts -- 220-230 Volts | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | External Static Pressure -- Inches W.C. [kPa] | | | | | | |
| | | | | | | 0.2 [.05] | 0.3 [.07] | 0.4 [.10] | 0.5 [.12] | 0.6 [.15] | 0.7 [.17] | 0.8 [.19] |
| 4217ST | 3.5 Ton | 10x10 3/4HP [559] 5 Speed | 1 | 9.1 | SCFM | 850 | 776 | 700 | 621 | 554 | 487 | 415 |
| | | | | | RPM | 840 | 880 | 925 | 964 | 1010 | 1060 | 1095 |
| | | | | | Watts | 136.5 | 143 | 150 | 156 | 162 | 168 | 174 |
| | | | 2 | 11.1 | SCFM | 1000 | 928 | 857 | 783 | 713 | 648 | 584 |
| | | | | | RPM | 901 | 936 | 975 | 1013 | 1050 | 1088 | 1130 |
| | | | | | Watts | 178 | 185 | 192 | 198 | 205 | 211 | 218 |
| | | | 3 | 13 | SCFM | 1130 | 1054 | 984 | 918 | 846 | 779 | 718 |
| | | | | | RPM | 953 | 990 | 1023 | 1060 | 1094 | 1130 | 1160 |
| | | | | | Watts | 221 | 227 | 234 | 242 | 247 | 255 | 260 |
| | | | 4 | 15.4 | SCFM | 1280 | 1208 | 1130 | 1067 | 1002 | 940 | 874 |
| | | | | | RPM | 1011 | 1042 | 1070 | 1100 | 1135 | 1168 | 1210 |
| | | | | | Watts | 273 | 280 | 287 | 294 | 303 | 310 | 321 |
| | | | 5 | 17.9 | SCFM | 1420 | 1352 | 1281 | 1208 | 1148 | 1090 | 1030 |
| | | | | | RPM | 1073 | 1100 | 1130 | 1153 | 1182 | 1211 | 1243 |
| | | | | | Watts | 336 | 344 | 351 | 358 | 366 | 374 | 382 |
| 4817ST | 4 Ton | 10x10 3/4HP [559] 5 Speed | 1 | 14.9 | SCFM | 1045 | 897 | 776 | 672 | 573 | 481 | 400 |
| | | | | | RPM | 763 | 820 | 882 | 938 | 985 | 1044 | 1110 |
| | | | | | Watts | 127 | 136 | 138 | 145 | 156 | 165 | 171 |
| | | | 2 | 17.9 | SCFM | 1200 | 1107 | 960 | 845 | 746 | 650 | 570 |
| | | | | | RPM | 807 | 856 | 920 | 970 | 1016 | 1066 | 1120 |
| | | | | | Watts | 160 | 168 | 174 | 186 | 192 | 197 | 209 |
| | | | 3 | 20 | SCFM | 1300 | 1212 | 1070 | 966 | 860 | 767 | 680 |
| | | | | | RPM | 840 | 886 | 940 | 992 | 1045 | 1088 | 1133 |
| | | | | | Watts | 184 | 193 | 205 | 215 | 220 | 230 | 239 |
| | | | 4 | 23.5 | SCFM | 1450 | 1370 | 1286 | 1142 | 1047 | 950 | 863 |
| | | | | | RPM | 890 | 930 | 976 | 1028 | 1076 | 1120 | 1167 |
| | | | | | Watts | 228 | 240 | 250 | 263 | 273 | 280 | 290 |
| | | | 5 | 27.9 | SCFM | 1609 | 1535 | 1463 | 1385 | 1243 | 1155 | 1062 |
| | | | | | RPM | 950 | 990 | 1030 | 1068 | 1122 | 1163 | 1203 |
| | | | | | Watts | 291 | 300 | 312 | 325 | 333 | 347 | 355 |
| 6017ST | 5 Ton | 10x10 1HP [746] 5 Speed | 1 | 18.8 | SCFM | 1411 | 1349 | 1262 | 1171 | 1106 | 1047 | 989 |
| | | | | | RPM | 951 | 988 | 1078 | 1108 | 1129 | 1172 | 1211 |
| | | | | | Watts | 350 | 365 | 390 | 400 | 406 | 425 | 446 |
| | | | 2 | 22.5 | SCFM | 1593 | 1537 | 1473 | 1372 | 1298 | 1240 | 1179 |
| | | | | | RPM | 1104 | 1041 | 1082 | 1130 | 1176 | 1210 | 1244 |
| | | | | | Watts | 440 | 453 | 467 | 486 | 503 | 514 | 526 |
| | | | 3 | 26.3 | SCFM | 1750 | 1690 | 1630 | 1568 | 1454 | 1390 | 1324 |
| | | | | | RPM | 1067 | 1097 | 1130 | 1183 | 1238 | 1262 | 1286 |
| | | | | | Watts | 542 | 555 | 570 | 592 | 609 | 619 | 634 |
| | | | 4 | 30 | SCFM | 1873 | 1815 | 1774 | 1724 | 1659 | 1556 | 1456 |
| | | | | | RPM | 1132 | 1151 | 1180 | 1212 | 1250 | 1310 | 1357 |
| | | | | | Watts | 650 | 659 | 675 | 685 | 703 | 736 | 757 |
| | | | 5 | 33.8 | SCFM | 2015 | 1952 | 1900 | 1856 | 1807 | 1742 | 1650 |
| | | | | | RPM | 1180 | 1207 | 1229 | 1262 | 1287 | 1330 | 1375 |
| | | | | | Watts | 756 | 770 | 780 | 796 | 814 | 838 | 862 |
| 6518ST | 5.5 Ton | 10x10 1HP [746] 5 Speed | 1 | 20.3 | SCFM | 1614 | 1563 | 1515 | 1462 | 1407 | 1358 | 1312 |
| | | | | | RPM | 951 | 917 | 956 | 983 | 1020 | 1053 | 1088 |
| | | | | | Watts | 250 | 210 | 237 | 266 | 294 | 321 | 349 |
| | | | 2 | 27.5 | SCFM | 1862 | 1804 | 1748 | 1687 | 1623 | 1567 | 1514 |
| | | | | | RPM | 1004 | 997 | 1033 | 1058 | 1092 | 1123 | 1155 |
| | | | | | Watts | 391 | 373 | 395 | 419 | 440 | 462 | 486 |
| | | | 3 | 31.1 | SCFM | 1986 | 1924 | 1864 | 1799 | 1731 | 1671 | 1614 |
| | | | | | RPM | 1031 | 1037 | 1072 | 1096 | 1128 | 1158 | 1189 |
| | | | | | Watts | 462 | 454 | 474 | 495 | 514 | 533 | 555 |
| | | | 4 | 38.3 | SCFM | 2235 | 2165 | 2097 | 2024 | 1948 | 1880 | 1816 |
| | | | | | RPM | 1084 | 1118 | 1150 | 1171 | 1200 | 1228 | 1256 |
| | | | | | Watts | 603 | 618 | 632 | 647 | 660 | 675 | 691 |
| | | | 5 | 45 | SCFM | 2483 | 2405 | 2330 | 2249 | 2164 | 2089 | 2018 |
| | | | | | RPM | 1133 | 1160 | 1186 | 1211 | 1242 | 1271 | 1304 |
| | | | | | Watts | 736 | 751 | 763 | 775 | 790 | 802 | 819 |

**NOTE:**
All constant torque air handlers are shipped from the factory at speed taps 2, 3, & 4. Tap 1 should be used for extremely low static applications (0.1 inches W.C. or less). Tap 5 should be used for high static applications or to achieve rated capacity.

# AIRFLOW PERFORMANCE DATA-SHSL (PSC MOTOR)

| Model No. | Motor Speed from Factory | Blower Size/ Motor HP[W] #of Speed | Motor Speed | | PSC CFM [L/s] Air Delivery / RPM/ Watts-240Volts External Static Pressure- Inches W.C.[kPa] | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0.1[.02] | 0.2[.05] | 0.3[.07] | 0.4[.10] | 0.5[.12] | 0.6[.15] | 0.7[.17] |
| -4217 No Heater | High 220/240v | 4 Pole 1/3 HP 3 Speed | Low | CFM | 1113[525] | 1076[505] | 1041[489] | 1000[470] | 958[450] | 925[434] | 866[407] |
| | | | | Watts | 497 | 491 | 488 | 483 | 477 | 473 | 468 |
| | | | Medium | CFM | 1321[620] | 1299[610] | 1262[593] | 1222[574] | 1186[557] | 1147[539] | 1087[510] |
| | | | | Watts | 630 | 635 | 629 | 618 | 614 | 605 | 588 |
| | | | High | CFM | 1453[628] | 1414[664] | 1379[648] | 1353[635] | 1312[616] | 1266[595] | 1217[571] |
| | | | | Watts | 736 | 730 | 716 | 711 | 703 | 690 | 681 |

# AIRFLOW PERFORMANCE DATA-SHLL (X-13 MOTOR)

| Model No. | Motor Speed from Factory | Blower Size/ Motor HP[W] #of Speed | Motor Speed | | X-13 CFM [L/s] Air Delivery/RPM/Watts External Static Pressure- Inches W.C.[kPa] | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0.1[.02] | 0.2 [.05] | 0.3 [.07] | 0.4 [.10] | 0.5 [.12] | 0.6 [.15] | 0.7 [.17] |
| -6021 No Heater | 5 | 10x10 3/4 HP [559] 5Speed | 2 | CFM | 1473[695] | 1442[681] | 1401[661] | 1373[648] | 1337[631] | – | – |
| | | | | Watts | 257 | 271 | 303 | 307 | 315 | – | – |
| | | | 3 | CFM | 1613[761] | 1562[737] | 1532[723] | 1503[709] | 1447[683] | 1433[676] | 1402[662] |
| | | | | Watts | 322 | 348 | 366 | 373 | 394 | 406 | 405 |
| -6021 No Heater | 5 | 10x10 3/4 HP [559] 5Speed | 4 | CFM | 1665[785] | 1631[770] | 1601[756] | 1572[742] | 1532[724] | – | – |
| | | | | Watts | 351 | 387 | 401 | 406 | 422 | – | – |
| | | | 5 | CFM | 1771[836] | 1741[821] | 1714[809] | 1689[797] | 1654[781] | 1624[766] | 1563[738] |
| | | | | Watts | 436 | 448 | 460 | 467 | 500 | 513 | 523 |
| -6524 No Heater | 5 | 11x11 3/4 HP [559] 5Speed | 4 | CFM | 1902[898] | 1862[879] | 1809[854] | 1781[840] | 1739[821] | – | – |
| | | | | Watts | 389 | 409 | 419 | 432 | 459 | – | – |
| | | | 5 | CFM | 2079[981] | 2031[958] | 1994[941] | 1950[920] | 1905[899] | 1866[881] | 1832[865] |
| | | | | Watts | 481 | 498 | 526 | 533 | 565 | 570 | 592 |

**NOTE:**

All constant torque air handlers are shipped from the factory at speed taps 2, 3, & 4. Tap 1 should be used for extremely low static applications (0.1 inches W.C. or less). Tap 5 should be used for high static applications or to achieve rated capacity.

# ELECTRICAL DATA - BLOWER MOTOR ONLY - NO ELECTRIC HEAT EL3T

| Model EL3T | Voltage | Application Phase | Frequency (Hz) | HP [W] | Speeds | Circuit Amps | Minimum Circuit Ampacity | Maximum Circuit Protector |
|---|---|---|---|---|---|---|---|---|
| EL3T1812SPBCTA | 220/240 | 1 | 50Hz | 1/3 [249] | 5 | 3.0 | 4 | 15 |
| EL3T2412SPBCTA | | | | 1/3 [249] | | 3.0 | 4 | 15 |
| EL3T3012SPBCTA | | | | 1/2 [373] | | 4.1 | 6 | 15 |
| EL3T3612SPBCTA | | | | 1/2 [373] | | 4.1 | 6 | 15 |
| EL3T4217STACTA | | | | 3/4 [559] | | 5.7 | 6 | 15 |

# SHSL ELECTRICAL DATA - BLOWER MOTOR ONLY- No Electric Heat

| Model SHSL | Voltage | Application Phase* | Hertz | HP | RPM | Speeds | Circuit Amps. | Minimum Circuit Ampacity | Maxium Circuit Protecter |
|---|---|---|---|---|---|---|---|---|---|
| 4217 | 220/240 | 1 | 50 | 1/3 | 1030 | 3 | 3.0 | 4.0 | 15 |

# SHLL ELECTRICAL DATA - BLOWER MOTOR ONLY- No Electric Heat

| Model SHSL | Voltage | Application Phase* | Hertz | HP | RPM | Speeds | Circuit Amps. | Minimum Circuit Ampacity | Maxium Circuit Protecter |
|---|---|---|---|---|---|---|---|---|---|
| 6021 | 220/240 | 1 | 50Hz | 3/4 | 300-1100 | 5 | 3.8 | 5.0 | 15 |
| 6524 | | | | 3/4 | 300-1100 | 5 | 4.6 | 6.0 | 15 |

### Power Wiring

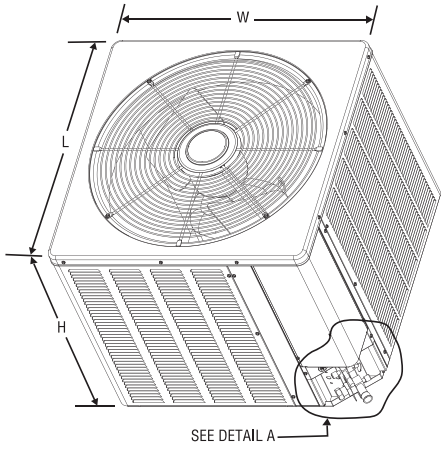
- Field wiring must comply with the National Electrical Code and any applicable local ordinance.
- Supply wiring must be suitable for 75°C minimum and with copper conductors only
- See electrical data for product Ampacity rating and Circuit Protector requirement.

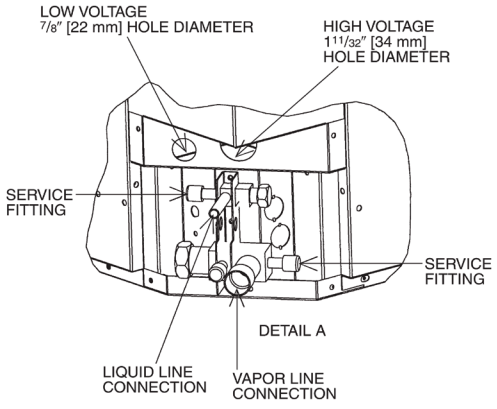
### Grounding

- This product must be sufficiently grounded in accordance with National Electrical Code and any applicable local ordinance.
- A grounding lug is provided.

# SAGN UNIT DIMENSIONS

| Figure | Model No. SAGN | Unit Dimensions | | |
|---|---|---|---|---|
| | | Height "H" in. [mm] | Length "L" in. [mm] | Width "W" in. [mm] |
| FIG. 1 | 18, 24 | 24 1/4 [616] | 23 5/8 [600] | 23 5/8 [600] |
| FIG. 2 | 48, 60, 65, **66** | 35 3/8 [913] | 31 5/8 [803] | 31 5/8 [803] |



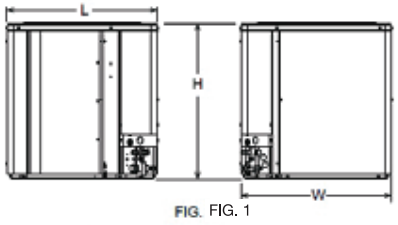




FIG. FIG. 1

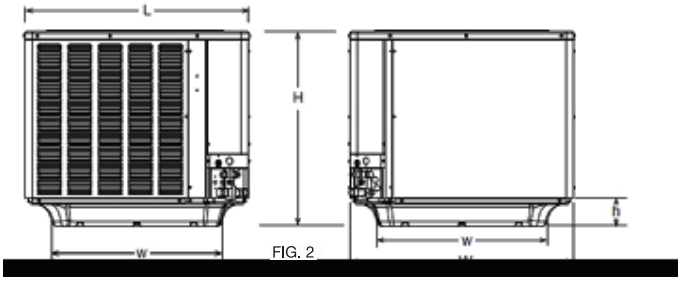


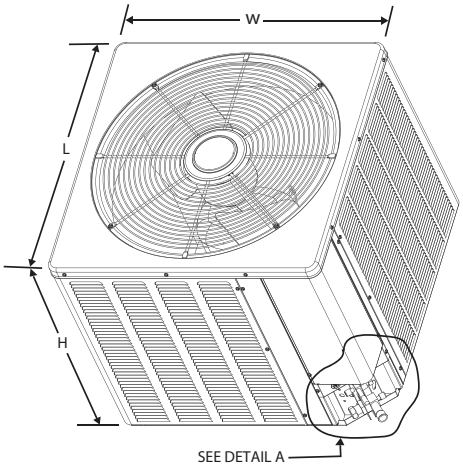

FIG. 2

# ELECTRICAL AND PHYSICAL DATA

| Model Number | Electrical | | | | | | | Physical | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Phase Frequency (Hz) Voltage (Volts) | Compressor | | Fan Motor Full Load Amperes (FLA) | Minimum Circuit Ampacity Amperes | Fuse or HACR Circuit Breaker | | Outdoor Coil | | | Refrigerant Included Oz. [kg] | Weight | |
| | | Rated Load Amperes (RLA) | Locked Rotor Amperes (LRA) | | | Minimum Amperes | Maximum Amperes | Face Area Sq. Ft. [m^2] | No. Rows | CFM [L/s] | | Net Lbs. [kg] | Shipping Lbs. [kg] |
| *AGN-018T** | 1-50-220-240 | 10/10 | 52 | 0.5 | 12/12 | 15/15 | 20/20 | 8.43 [0.78] | 1 | 1600 [755] | 69 [1.956] | 121 [54.9] | 129 [58.5] |
| *AGN-024T** | 1-50-220-240 | 10.9/10.9 | 60 | 0.5 | 15/15 | 20/20 | 25/25 | 8.43 [0.78] | 1 | 1600 [755] | 82.9 [2.350] | 121 [54.9] | 129 [58.5] |
| *AGN-030T** | 1-50-220-240 | 15/15 | 67 | 0.68 | 18/18 | 25/25 | 30/30 | 19.28 [1.79] | 1 | 2517 [1188] | 124.8 [3.538] | 223 [101.2] | 234 [106.1] |
| *AGN-036T** | 1-50-220-240 | 17.9/17.9 | 87 | 2.8 | 23/23 | 30/30 | 35/35 | 21.85 [2.03] | 1 | 3666 [1730] | 176 [4.989] | 205 [93] | 225 [102.1] |
| *AGN-042N** | 3-50-380-415 | 6.9/6.9 | 41 | 0.9 | 9/9 | 15/15 | 15/15 | 21.85 [2.03] | 1 | 3295 [1555] | 125 [3.544] | 222 [100.7] | 233 [105.7] |
| *AGN-048N** | 3-50-380-415 | 7.1/7.1 | 55 | 1.0 | 9/9 | 15/15 | 15/15 | 21/85 [2.03] | 1 | 3550 [1675] | 129 [3.657] | 205 [93] | 225 [102.1] |
| *AGN-060N** | 3-50-380-415 | 8.7/8.7 | 66.1 | 1.0 | 12/12 | 15/15 | 20/20 | 21/85 [2.03] | 2 | 4310 [2034] | 243 [6.889] | 249 [112.9] | 269 [122.1] |
| *AGN-066N** | 3-50-380-415 | 10.6/10.6 | 74 | 1.5 | 14/14 | 20/20 | 25/25 | 21/85 [2.03] | 2 | 4310 [2034] | 269 [7.626] | 249 [112.9] | 269 [122.1] |

NOTE Factory Refrigerant Charge includes refrigerant for 15 feet
:

# SAGL - UNIT DIMENSIONS AND WEIGHT




| Figure | Model No. SAGL | Unit Dimensions | | |
|---|---|---|---|---|
| | | Width "W" Inches [mm] | Length "L" Inches [mm] | Height "H" Inches [mm] |
| | | | | |
| FIG. 2 | 30 | 27 5/8 [702] | 27 5/8 [702] | 24 1/4 [616] |
| FIG. 3 | 36, 42 | 31 5/8 [803] | 31 5/8 [803] | 27 15/16 [710] |
| | 48, 60 | 31 5/8 [803] | 31 5/8 [803] | 35 15/16 [913] |

**[ ] Designates Metric Conversions**

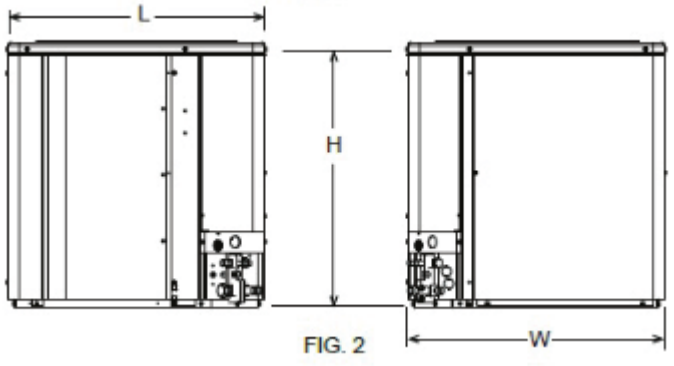



FIG. 2

| Model No. SAGL | Weight | |
|---|---|---|
| | Net Lbs. [kg] | Shipping Lbs. [kg] |
| | | |
| 030 | 144 [65.3] | 154 [69.9] |
| 036 | 166 [75.3] | 178 [80.7] |
| 042 | 194 [88.0] | 206 [93.4] |
| 048 | 222 [100.7] | 233 [100.7] |
| 060 | 227 [103.0] | 288 [108.0] |
| | | |

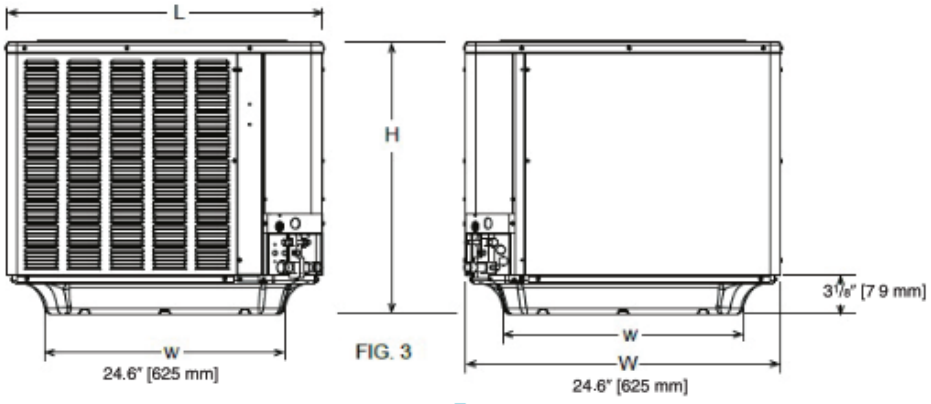



FIG. 3

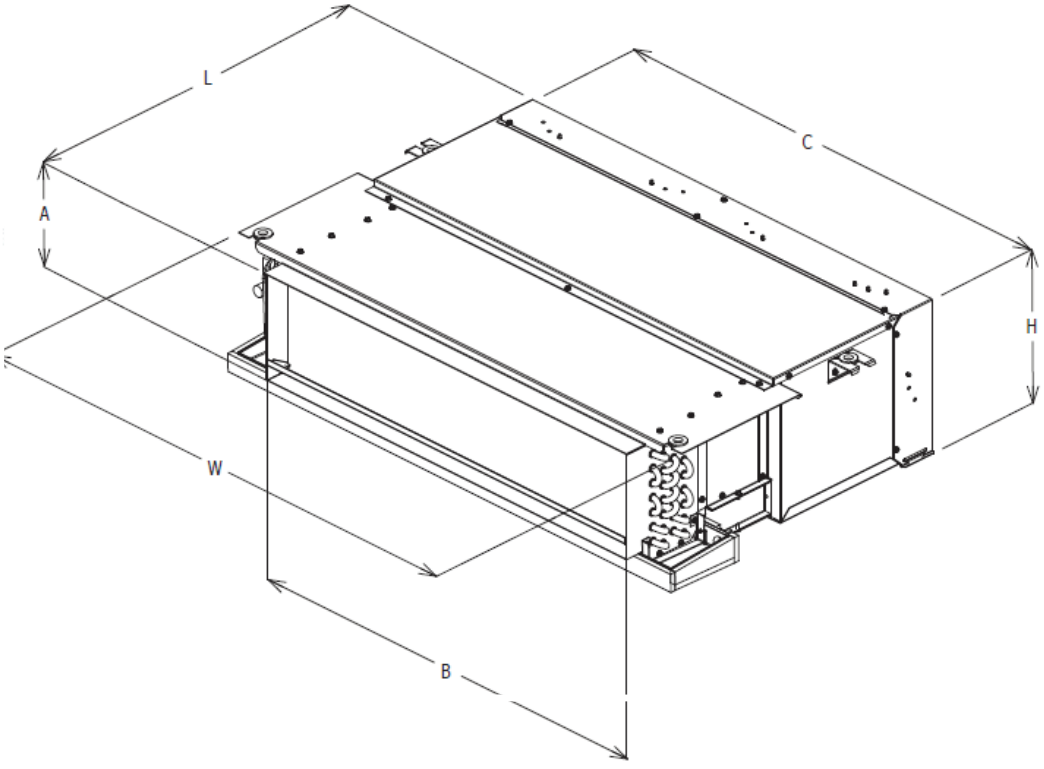
## ELECTRICAL & OTHER PERFORMANCE DATA

| Model Number | Phase-Hertz Voltage | Comp RLA | Comp LRA | Motor FLA | MCA | Fuse Sizes | | Outdoor Motor Power (kW) | Outdoor Coil area sq.ft(m2) | Rows CFM (L/S) | R410A Charge Weight (OZ) | Sound Rating db (A) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Min | Max | | | | | |
| SAGL-030TA | 1-50-220/240 | 12.50 | 60 | 0.80 | 19 | 30 | 30 | 0.14 | 13.72 (1.27) | 1<br>2370 (1118) | 78 | 69 |
| SAGL-036TA | 1-50-220/240 | 15.00 | 67 | 0.80 | 23 | 30 | 30 | 0.15 | 16.39 (1.52) | 1<br>2805 (1323) | 95 | 71 |
| SAGL-042TA | 1-50-220/240 | 17.90 | 87 | 1.20 | 29 | 35 | 35 | 0.21 | 16.39 (1.52) | 1<br>2805 (1323) | 104 | 72 |
| SAGL-048NA | 3-50-380/415 | 6.90 | 41 | 1.00 | 12 | 15 | 15 | 0.31 | 21.85 (2.03) | 1<br>3295 (1554) | 142 | 72 |
| SAGL-060NA | 3-50-380/415 | 8.90 | 52 | 1.00 | 15 | 20 | 20 | 0.31 | 21.85 (2.03) | 1<br>3295 (1554) | 172 | 74 |

# EL3T UNIT DIMENSIONS

4

FIG. 3




# UNIT DIMENSIONS & WEIGHTS

| MODEL EL3T | REFRIGERANT CONNECTIONS SWEAT ID (IN) [MM] | | UNIT HEIGHT "H" IN. [MM] | UNIT WIDTH "W" IN. [MM] | UNIT LENGTH "L" IN. [MM] | SUPPLY DUCT | | RETURN DUCT | UNIT WEIGHT / SHIPPING WEIGHT LBS. [KG] |
|---|---|---|---|---|---|---|---|---|---|
| | LIQUID | VAPOR | | | | A in. [mm] | B in. [mm] | C in. [mm] | |
| 1812SPBCTA | 3/8 [9.53] | 3/4 [19.05] | 10.5 [264.54] | 37 [939.80] | 24.4 [619.76] | 7.25 [183.90] | 30 [763.73] | 33.5 [850.95] | 78/84.62 [35.38/38.38] |
| 2412SPBCTA | 3/8 [9.53] | 3/4 [19.05] | 10.5 [264.54] | 37 [939.80] | 24.4 [619.76] | 7.25 [183.90] | 30 [763.73] | 33.5 [850.95] | 78/84.62 [35.38/38.38] |
| 3012SPBCTA | 3/8 [9.53] | 3/4 [19.05] | 10.5 [264.54] | 49 [1244.60] | 25.3 [642.62] | 7.25 [183.90] | 42 [1066.80] | 45.5 [1155.70] | 98/104.60 [44.45/47.45] |
| 3612SPBCTA | 3/8 [9.53] | 3/4 [19.05] | 10.5 [264.54] | 49 [1244.60] | 25.3 [642.62] | 7.25 [183.90] | 42 [1066.80] | 45.5 [1155.70] | 98/104.60 [44.45/47.45] |
| 4217STACTA | 3/8 [9.53] | 3/4 [19.05] | 16.07 [408.2] | 47.1 [1196] | 29.43 [747] | 11.65 [296] | 37.63 [956] | 32.56 [827] | 126.5/153.0 [57.38/69.40] |

Notes:
Units 1.5 - 3.0TR are blow-through
Units 3.5 - 5.5TR are draw-through

# AIRFLOW DIRECTIONAL DATA

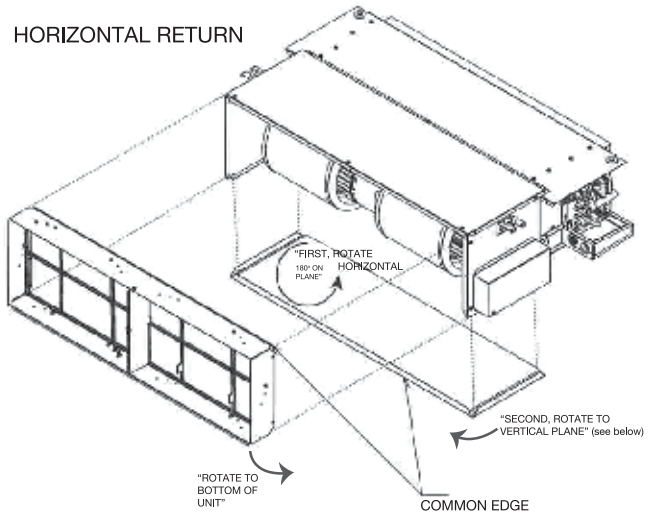
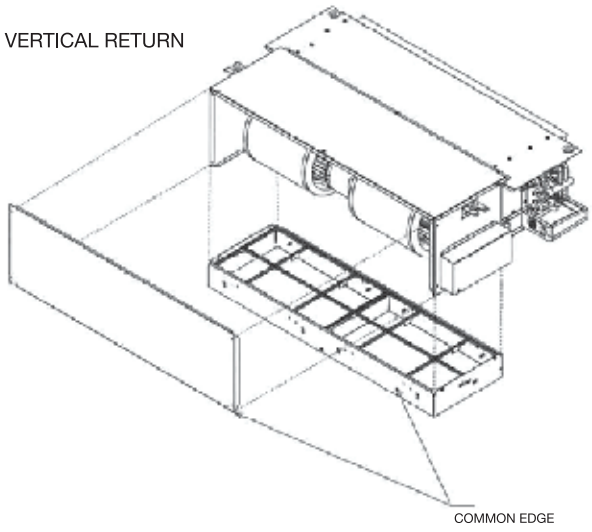
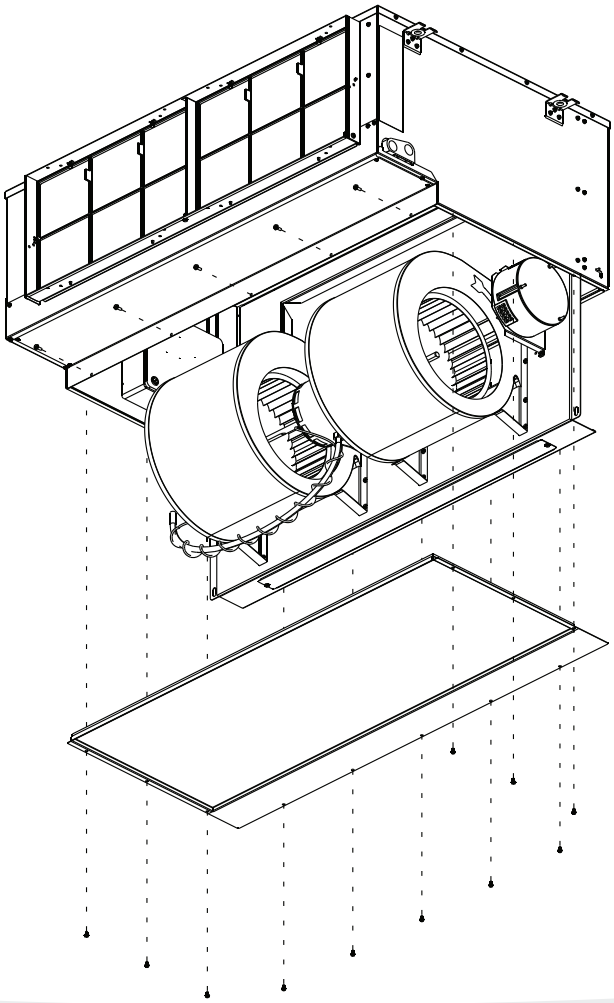


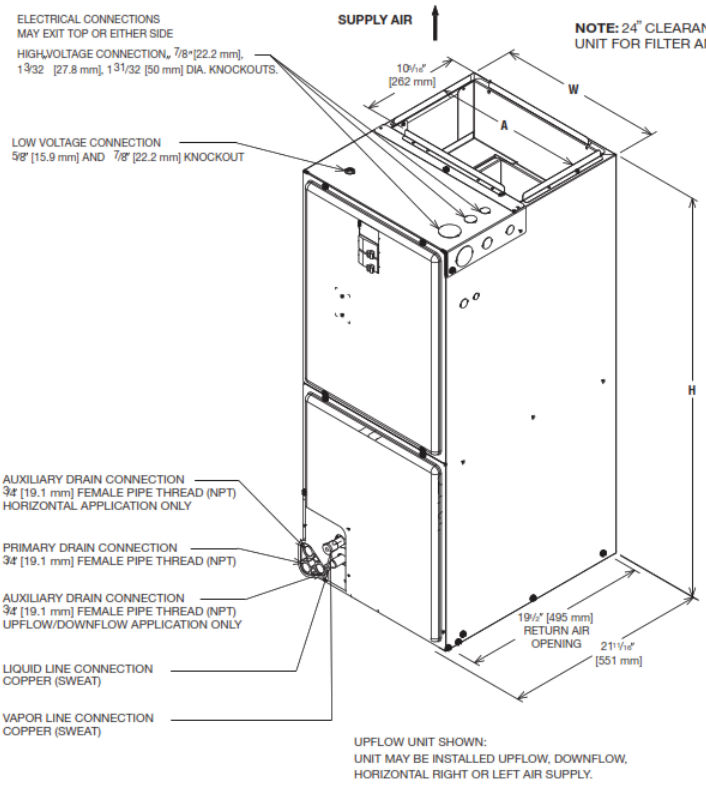

FIG. 5




# AIRFLOW DIRECTIONAL DATA



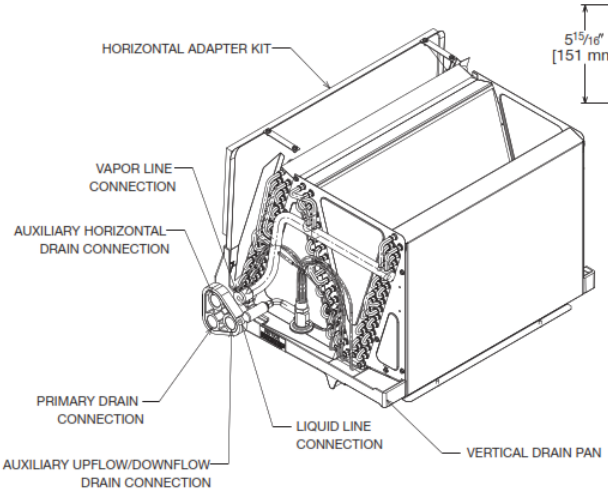
# UNIT DIMENSIONS AND WEIGHT

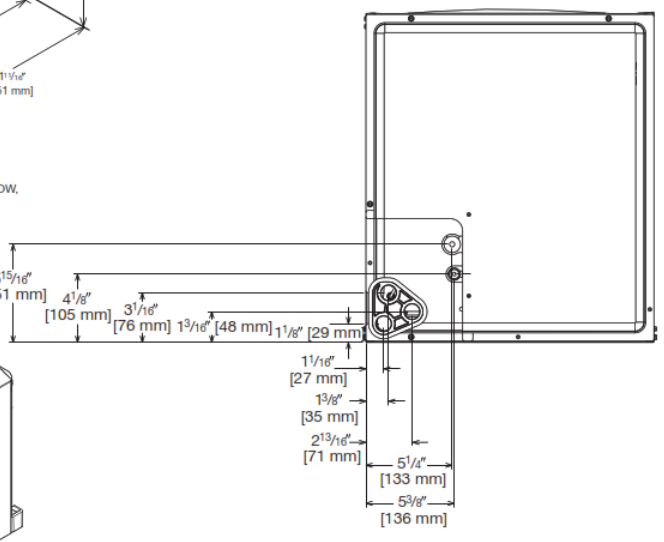



UPFLOW UNIT SHOWN:
UNIT MAY BE INSTALLED UPFLOW, DOWNFLOW,
HORIZONTAL RIGHT OR LEFT AIR SUPPLY.

## Return Air opening Dimensions

| Model Cabinet Size | Return Air Opening Width (Inches) | Return Air Opening Depth/Length (Inches) |
|---|---|---|
| 17 | 15 7/8 | 19 1/2 |
| 21 | 19 3/8 | 19 1/2 |
| 24 | 22 7/8 | 19 1/2 |




**[ ] Designates Metric Conversions**

| Model Size | For Vertical Installation Unit Width "W" In. [mm] | For Horizontal Installation Unit Height "ht" In. [mm] | For Vertical Installation Unit Height "H" In. [mm] | For Horizontal Installation Unit Length "ℓ" In. [mm] | SUPPLY Duct "A" In. [MM] | Unit Weight/Shipping Weight (Lbs.) [kg] |
|---|---|---|---|---|---|---|
| | | | | | | |
| 4217 | 17 1/2 [445] | | 42 1/2 [1080] | | 16 [406] | 92 [41] |
| 6021 | 21 [533] | | 50 1/2 [1282] | | 19 1/2 [495] | 150 [68] |
| 6524 | 24 1/2 [622] | | 55 1/2 [1410] | | 23 [584] | 181 [82] |

## Selecting and Sizing Line Sets

## Line Sets and Fitting Losses

Refrigerant lines are measured in terms of actual length and equivalent length. Actual length is used for refrigerant charge applications and is the measurement of all of the vertical and horizontal lines from the indoor and outdoor units. Equivalent length takes into account pressure losses from line lengths, fittings, vertical separations, accessories, and filter dryers. Table 1 below provides equivalent lengths for different commonly used parts in refrigerant lines. Equivalent length is the sum of the actual length of the line set plus the equivalent length of all fittings, accessories, and filter dryers. Equivalent length is used in determining proper line sizing and installation.

### Table 1

| Equivalent Length for Fittings (ft) | | | | | | | |
|---|---|---|---|---|---|---|---|
| Line Size (in) | 90° Short Radius Elbow | 90° Long Radius Elbow | 45° Elbow | Solenoid Value | Check Valve | Site Glass | Filter Dryer |
| 3/8 | 1.3 | 0.8 | 0.3 | 6 | 4 | 0.4 | 6 |
| 1/2 | 1.4 | 0.9 | 0.4 | 9 | 5 | 0.6 | 6 |
| 5/8 | 1.5 | 1 | 0.5 | 12 | 6 | 0.8 | 6 |
| 3/4 | 1.9 | 1.3 | 0.6 | 14 | 7 | 0.9 | 6 |
| 7/8 | 2.3 | 1.5 | 0.7 | 15 | 8 | 1 | 6 |
| 1-1/8 | 2.7 | 1.8 | 0.9 | 22 | 12 | 1.5 | 6 |

## Liquid Line Selection

The purpose of the liquid line is to transport warm sub-cooled liquid refrigerant from the outdoor unit to the indoor unit. It is important to maintain a column of liquid all the way to the expansion device and not to allow the refrigerant to flash into superheated vapor. The flashing of refrigerant can occur for the following reasons:

- Low refrigerant charge
- Improperly selected liquid line size
- Absorption of heat prior to expansion device
- Excessive vertical rise between the condenser and evaporator

The procedure for selecting the proper liquid line size and length is as follows:

- Measure the total amount of vertical rise (elevation).
- Measure the actual amount of liquid line required.
- Add all of the equivalent lengths associated with any fittings or accessories using Table 1.
- Add the actual length and equivalent lengths. This will equal your total equivalent length.
- Reference the Line Sizing Chart that matches the application (e.g. ODU above, ODU below, ODU same elevation as the IDU3) and the capacity size of the equipment.
- Verify that the value of the calculated total equivalent length is compatible with the applications vertical rise and diameter of the liquid line.
- Using the equivalent length total and the vertical rise in the application (if required) to determine the size and allowable lengths of the liquid line piping.

**Liquid Line General Notes:**

- Regardless of equivalent length, the actual linear length of the tubing shall not exceed 200’.
- Design of the liquid line must not exceed 400 FPM and must have a minimum of 100 FPM.
- Liquid lines must be sized to minimize refrigerant pressure change.
- Sufficient refrigerant sub-cooling must be maintained at the expansion device for proper system operation.
- R-410A loses 0.43 PSI for every foot of vertical lift as a liquid. Length of pipe, fittings, liquid line filter drier also add pressure drop thus limiting applications where the outdoor unit is below the indoor unit to much shorter distances than when the outdoor unit is above the indoor unit.
- When the outdoor unit is above the indoor unit, the vertical line experiences an increase in PSIG (Static Gain) which will also lead to changes in subcooling at the metering device.
- The total pressure drop allowed for the liquid line is 50 PSI.

## Vapor Suction Line Selection

The purpose of the suction line is to return superheated vapor to the compressor from the evaporator. Suction line sizing and refrigerant velocity is important as they have a role in ensuring the return of oil to the compressor. An improperly sized suction line can reduce performance of the system.
The procedure for selecting the proper liquid line size is as follows:
Measure the total amount of vertical rise (elevation).
• Measure the actual amount of suction line required.
• Add all of the equivalent lengths associated with any fittings or accessories using Table 1.
• Add the actual length and equivalent lengths. This will equal your total equivalent length of suction line.
• Reference the Line Sizing Charts that matches the application (e.g. ODU above, below, or same elevation as the IDU) and the capacity size of the equipment.
• Verify that the value of the calculated total equivalent length is compatible with the applications vertical rise and diameter of the liquid line.
• Using the equivalent length total and the vertical rise in the application (if required) to determine the size and allowable lengths of the liquid line piping.

### Suction Line General Notes :

• The Manufacturer does NOT require traps in the suction line when the condenser is above the evaporator, and recommends they not be used. The combination of miscibility of the POE oil and R-410A, along with compliance to the refrigerant line design instructions will ensure oil is properly returned without exceeding pressure drop limits in the vapor line. Traps will add to the pressure drop and therefore are counterproductive when the suction line is sized according to these guidelines.
• Refrigerant velocity for vertical suction risers must be maintained at 1100 FPM to ensure oil return. Horizontal suction lines must maintain 800 FPM. This will often result in different size refrigerant lines between horizontal and vertical applications. While gravity has very little effect on the gas itself, oil and pressure drop are still key factors.
• It is acceptable to use the larger size suction line for shorter horizontal runs and in applications where the indoor unit is above the outdoor unit to prevent capacity losses.
• Pressure drop within the suction line should be limited to 5 psi for R410A systems although the longest lines may slightly exceed this limit in an effort to maintain velocity. The maximum pressure is 7 psi.
• Suction line pressure loss reduces capacity by 0.6% for R-410A per psi. In order to minimize capacity loss suction pressure loss must be minimized.

### Refrigerant Level Adjustment

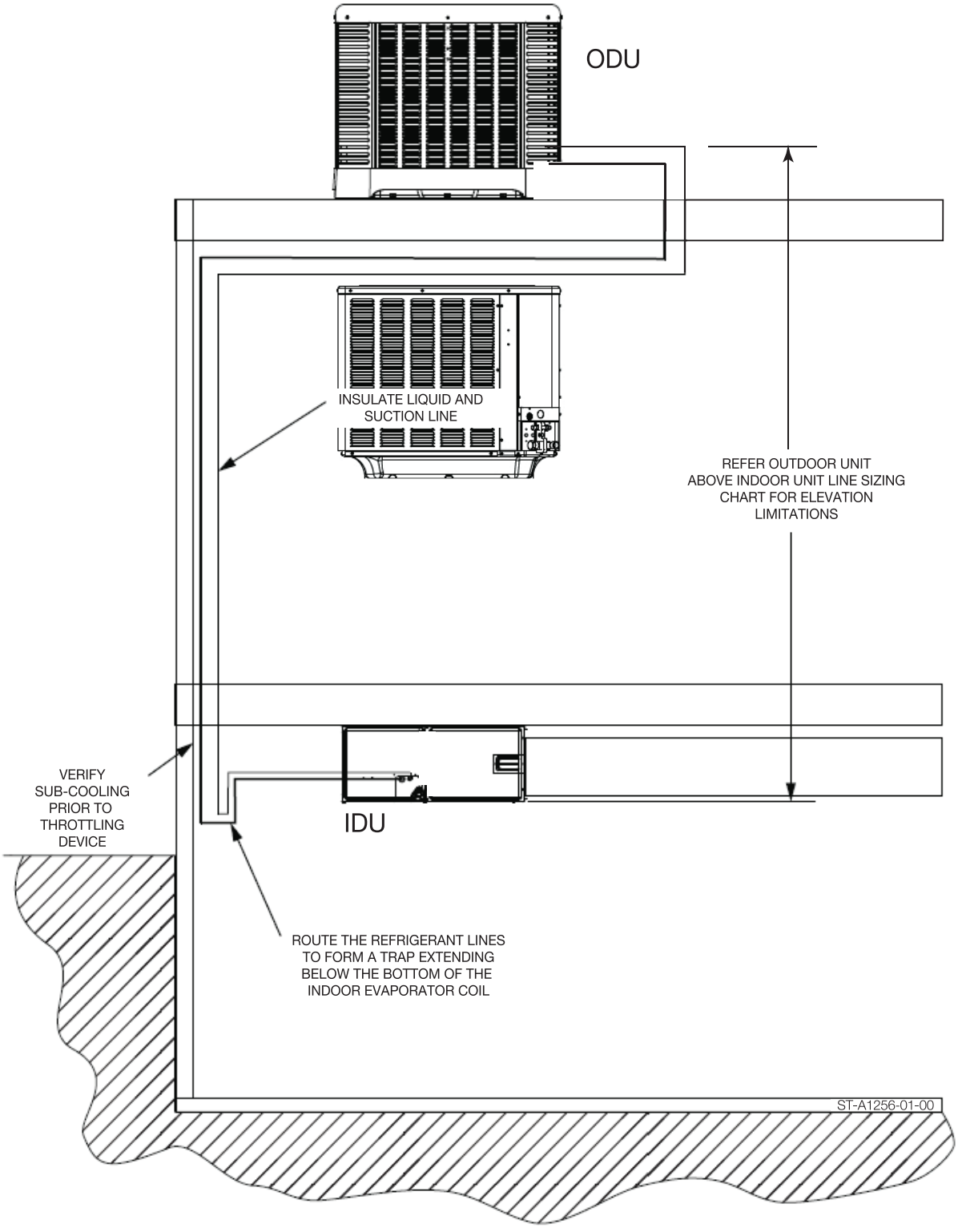
The residential outdoor units (ODU) are R-410A factory charged. The factory charge amount accounts for the ODU volume and an additional 15 feet of refrigerant tubing with a liquid line diameter of 3/8". This factory charge does not account for the volume of the factory supplied, field installed liquid line filter drier. Final adjustment of the refrigerant charge may be necessary during the system commissioning even if the application has exactly 15 feet of line set due to other installation variables such as the filter drier and pressure drops due to vertical separation. If additional refrigerant charge is needed it should be added before opening the ODU valves.
Adjust the refrigerant charge by using the actual liquid line length and the table below that indicates refrigerant charge in ounces per foot of the indicated liquid line size:

• 1/4" line diameter uses 0.3 ounces per foot of line (6.4 mm uses 8.5g per .30 m)
• 5/16"line diameter uses 0.4 ounces per foot of line (7.9mm uses 11.3g per .30m)
• 3/8" line diameter uses 0.6 ounces per foot of line (9.5mm uses 17.0g per .30 m)
• 1/2" line diameter uses 1.2 ounces per foot of line (12.7mm uses 34.0g per .30 m)
• Note: The factory provided filter drier requires an additional 6.0 ounces of refrigerant.
• Note: The factory provided charge to account for the 15 feet of line set is 9 oz. (based on 3/8" line, 0.6 oz. per foot)
Charge Adjustment = (Line Diameter oz. per ft.) x Total Actual Length) – Factory Charge + Filter Drier

### Additional Oil Adjustment

All refrigerant in the system will carry a small amount of oil. As more refrigerant is added to the system, additional oil will also need to be added.
The formula for determining how much oil to add to the system is as follows:
Oil to be Added = [(Charge Adjustment + OD Unit Name Plate Charge (oz.)) x (0.022) – [(0.10) x (Compressor Name Plate Oil Charge (oz.))]

## OUTDOOR UNIT ABOVE THE INDOOR UNIT




Note: Following is the chart specific to applications where the outdoor unit is above the indoor coil. Do not confuse charts designated with outdoor unit above indoor coil, with charts designated with outdoor unit below indoor coil.

## Condition -B and Condition -C are not available for SAGN models

| Single Stage | Liquid Line Size | Suction Line size | Outdoor Unit ABOVE Indoor Unit | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 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 Seperation / Capacity Multiplier | | | | | | | | | | | |
| SAGN-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 |
| SAGN-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 / 0.95 | 45 / 0.94 | 52.5 / 0.97 | 60 / 0.96 | 60 / 0.95 | 60 / 0.95 | 60 / 0.95 | 60* / 0.94 |
| SAGN-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 |
| | 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 |
| SAGN/SAGL -036 | 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 |
| | 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 / 1.00 | 33.5 / 0.99 | 40 / 0.97 | 45 / 0.97 | 45 / 0.96 | 52.5 / 0.96 | 60 / 0.98 | 60 / 0.97 | 60 / 0.97 | 60* / 0.96 | 60* / 0.96 |
| SAGN-042 | 5/16" | 3/4" | 15 / 1.00 | 22.5 / 0.99 | 33.5 / 0.99 | N/A | 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 / 0.97 | 60* / 0.96 | 60* / 0.96 | 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 |
| | 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* / 0.96 | 60* / 0.95 |
| SAGN-048 | 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* / 0.92 | 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 / 0.92 | 60 / 0.92 | 60* / 0.92 | 60* / 0.91 |
| | 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 |
| SAGN-060/066 | 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 |
| | 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 / 0.91 | 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 seperation)

Dark Gray

Black

Use Oil Separator and Crank case heater. (Less than 45m vertical seperation)

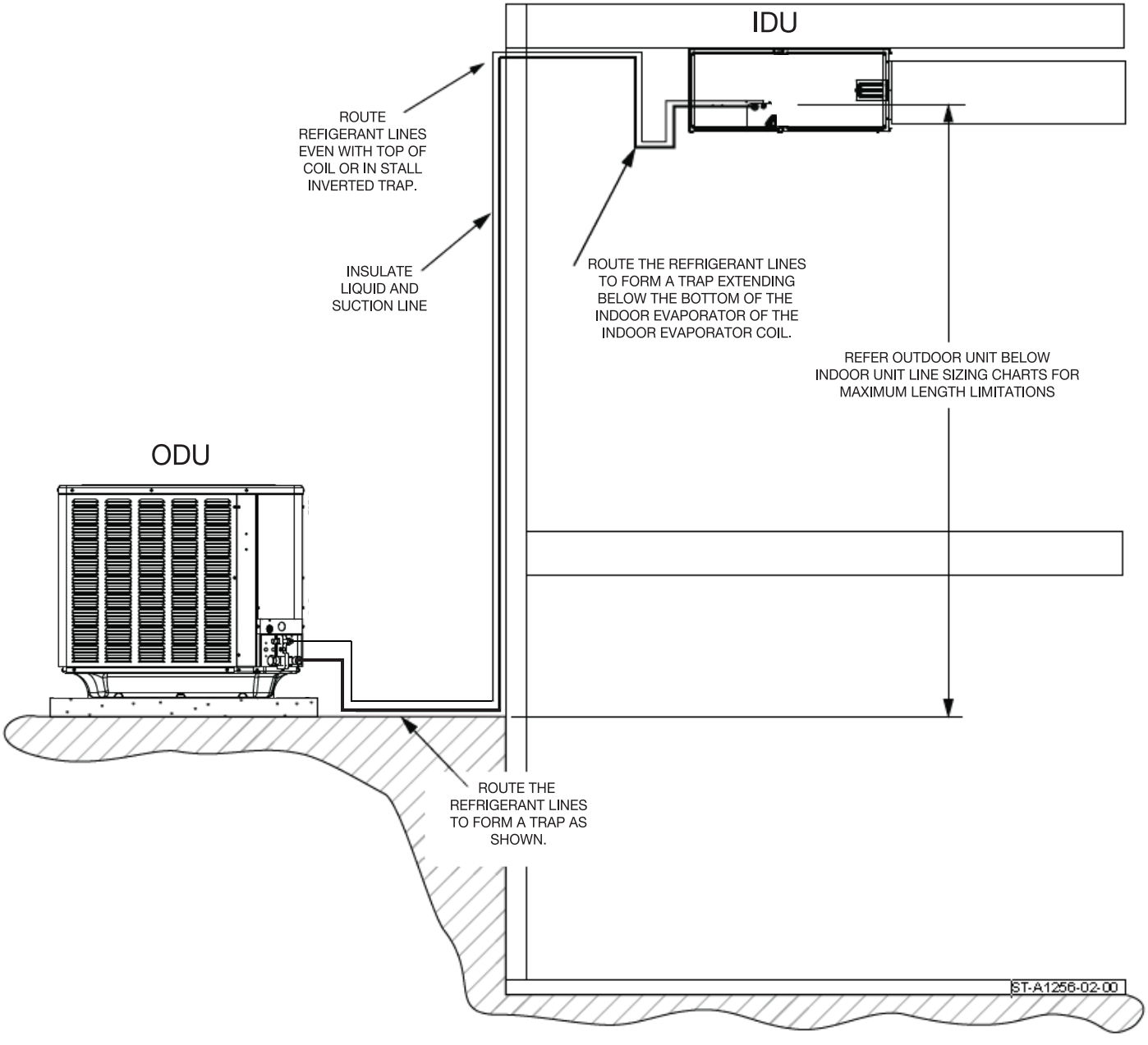
Use Oil Separator, Crank case heater, Hard Start Kit and Non-bleed TXV.

Not Recommended

* Appications with asterisks (*) require a minimum of 15m vertical seperation.

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

## OUTDOOR UNIT BELOW THE INDOOR UNIT




Note: Following is the chart specific to applications where the outdoor unit is below the indoor coil. Do not confuse charts designated with outdoor unit below indoor coil, with charts designated with outdoor unit above indoor coil.

**Condition -B and Condition -C are not available for SAGN models**

| 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 |
| | | | Maximum vertical Seperation / Capacity Multiplier | | | | | | | | | | |
| SAGN-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 |
| | 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 | 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 | N/A | N/A | 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 | 18/0.99 | 15/0.99 |
| SAGN-024 | 5/16'' | 5/8'' | 15/1.00 | 13.5/0.99 | 25/0.98 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 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 | 9/0.94 | 3/0.93 |
| | 5/16'' | 3/4'' | 15/1.00 | 13.5/1.00 | 25/1.00 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 3/8'' | 3/4'' | 15/1.00 | 22.5/1.00 | 24.5/1.00 | 24.5/1.00 | 24.5/0.99 | 24.5/0.99 | 24.5/0.99 | 24.5/0.99 | 24.5/0.98 | 9/0.98 | 3/0.98 |
| SAGN-030 | 5/16' | 5/8'' | 12/09.8 | 3/0.97 | N/A | 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 | 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 | 15/0.92 | N/A |
| | 5/16'' | 3/4'' | 12/1.00 | 3/0.99 | N/A | 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 | 24.5/0.99 | 24.5/0.99 | 24.5/0.98 | 24.5/0.98 | 24.5/0.98 | 24.5/0.98 | 24.5/0.97 | 15/0.97 | N/A |
| SAGN/SAGL -036 | 5/16'' | 3/4'' | 10.5/1.00 | 10/0.99 | N/A | 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 | 24.5/0.98 | 24.5/0.98 | 24.5/0.98 | 24.5/0.97 | 24.5/0.97 | 24.5/0.97 | 24.5/0.96 | 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 | 24.5/0.97 | 24.5/0.97 | 24.5/0.97 | 24.5/0.96 | 24.5/0.96 | 24.5/09.5 |
| | 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 | 24.5/0.98 | 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 | 24.5/0.98 | 24.5/0.98 | 24.5/0.98 |
| SAGN-042 | 3/8'' | 3/4'' | 15/0.99 | 22.5/0.99 | 24.5/0.98 | 24.5/0.98 | 24.5/0.97 | 24.5/0.97 | 24.5/0.96 | 24.5/0.96 | 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 | 24.5/0.97 | 24.5/0.97 | 24.5/0.96 | 24.5/0.96 | 24.5/0.95 | 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 | 24.5/1.00 | 24.5/0.99 | 24.5/0.99 | 24.5/0.99 | 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 | 24.5/1.00 | 24.5/0.99 | 24.5/0.99 | 24.5/0.99 | 24.5/0.98 | 21.0/0.98 | 18/0.97 |
| SAGN-048 | 3/8'' | 3/4'' | 15/0.99 | 22.5/0.99 | 24.5/0.98 | 24.5/0.98 | 24.5/0.97 | 24.5/0.97 | 24.5/0.96 | 21.0/0.96 | 15/0.95 | N/A | N/A |
| | 1/2'' | 3/4'' | 15/0.99 | 22.5/0.99 | 24.5/0.98 | 24.5/0.98 | 24.5/0.97 | 24.5/0.97 | 24.5/0.96 | 24.5/0.96 | 24.5/0.95 | 18/0.95 | 12/0.94 |
| | 3/8'' | 7/8'' | 15/1.00 | 22.5/1.00 | 24.5/1.00 | 24.5/1.00 | 24.5/1.00 | 24.5/0.99 | 24.5/0.99 | 21.0/0.99 | 15/0.98 | N/A | N/A |
| | 1/2'' | 7/8'' | 15/1.00 | 22.5/1.00 | 24.5/1.00 | 24.5/1.00 | 24.5/1.00 | 24.5/0.99 | 24.5/0.99 | 24.5/0.99 | 24.5/0.98 | 18/0.98 | 12/0.97 |
| SAGN -060/066 | 3/8'' | 3/4'' | 15/0.98 | 22.5/0.98 | 24.5/0.97 | 24.5/0.96 | 24.5/0.96 | 24.5/0.95 | 12/0.94 | 6/0.94 | N/A | 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 | 24.5/0.95 | 21.0/0.94 | 15/0.94 | 9/0.93 | N/A | N/A |
| | 3/8'' | 7/8'' | 15/1.00 | 22.5/0.99 | 24.5/0.99 | 24.5/0.98 | 24.5/0.98 | 18/0.97 | 12/0.97 | 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 | 21.0/0.97 | 15/0.96 | 9/0.96 | N/A | N/A |

Always Use the smallest Liquid Line allowable to keep system charge to a minimum

Area 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 lenght.

Note : THis chart is applicable for ODU with Scroll Compressor only.

# LONG LINE SET APPLICATIONS

This section is intended for long line applications as noted in the light grey shaded areas in the Line Sizing Charts. Long line set applications require acces sories, unit specific requirements, and long line set installation considerations. The following are special considerations required when installing a line set that is considered to be a long line set.

- Long line Set Accessories
- Long Line Set Unit Requirements
- Long Line Installations  Considerations
- Additional Refrigerant Charge
- Additional Oil Level Adjustment
- Fitting losses and maximum equivalent length considerations.
- Refrigerant Migration in the off cycle
- Oil Return to the compressor
- Capacity losses

**Long Line Set Accessories**

**Crankcase Heater**

Some models come from the factory with crankcase heaters already installed. See the Crankcase Heater table to determine if the accessory needs to be ordered and field installed.

**Hard Start Kit (SK-A1)**

In applications with long line sets, one characteristic will be added refrigerant. Hard Start components will increase the starting torque of the compressor in order to overcome the pressure differential on the compressor. See the Hard Start Kit Accessory Part number SK-A1 to order and field install.

**Long Line Installation Considerations**

**Liquid Line Sizing**

Reference the selection and Sizing Line Sets section, Liquid Lines in this guide.

- Minimize pressure change
- Ensure sub cooled liquid at the expansion device.
- Size as small as possible without exceeding the recommended maximum pressure drop

**Liquid Line Insulation**

When the liquid line is run through an unconditioned space for any significant length, it is subject to losing or gaining heat from the ambient air.This can cause refrigerant to flash in the liquid line prior to the expansion device.

**Suction Line Sizing**

Reference the Selection and Sizing Line Sets section, Suction Lines in this guide.

- Minimize pressure loss
- In applications where ODU is Above IDU maintain refrigerant gas velocity to ensure oil return.

# GUIDE SPECIFICATIONS (SAGN)
# General

## Condensing Unit Description

Outdoor-mounted, air-cooled, split-system air conditioner composite base pan unit suitable for ground or rooftop installation. Unit consists of a hermetic compressor, an air-cooled coil, propeller-type condenser fan, suction and legend line service valve, and a control box. Unit will discharge supply air upward as shown on contract drawings. Unit will be used in a refrigeration circuit to match up to a coil / air handler unit.

## Quality Assurance

- Unit will be rated in accordance with the latest edition of AHRI Standard 210/240.
- Unit will be certified for capacity and efficiency.
- Unit construction will comply with latest edition of ANSI/ASHRAE and with NEC.
- Unit will be constructed in accordance with UL standards.
- Unit cabinet will be capable of withstanding ASTM B117 1008-hr salt spray test.
- Air-cooled condenser coils will be leak tested at 150 psig and pressure tested at 550 psig.
- Unit constructed in ISO9001 approved facility.

## Delivery, Storage, and Handling

- Unit will be shipped as single package only and is stored and handled per unit manufacturer's recommendations.

## Products
## Equipment

Factory assembled, single piece, air-cooled air conditioner unit. Contained within the unit enclosure is all factory wiring, piping, controls, compressor, refrigerant charge R-410A, and special features required prior to field start-up.

## Unit Cabinet

- Unit cabinet will be constructed of galvanized steel, bonderized, and coated with a powder coat paint.
- All units constructed with louver coil protection and corner post. Louver can be removed by removing one fastener per louver panel.

## Fans

- Condenser fan will be direct-drive propeller type, discharging air upward.
- Condenser fan motors will be totally enclosed, 1-phase type with class B insulation and permanently lubricated bearings. Shafts will be corrosion resistant.
- Fan blades will be statically and dynamically balanced.
- Condenser fan openings will be equipped with coated steel wire safety guards.

## Compressor

- Compressor will be hermetically sealed.
- Compressor will be mounted on rubber vibration isolators.

## Condenser Coil

- Condenser coil will be air cooled.
- Coil will be constructed of aluminum fins mechanically bonded to copper tubes.

## Refrigeration Components

- Refrigeration circuit components will include liquid-line shutoff valve with sweat connections, vapor-line shutoff valve with sweat connections, system charge of R-410A refrigerant, and compressor oil.
- Unit will be equipped with factory provided filter drier for R-410A refrigerant for field installation.

## Operating Characteristics

- The capacity of the unit will meet or exceed _____ Btuh at a suction temperature of _____ °F/°C. The power consumption at full load will not exceed _____ kW.
- Combination of the unit and the evaporator or fan coil unit will have a total net cooling capacity of _____ Btuh or greater at conditions of _____ CFM entering air temperature at the evaporator at _____ °F/°C wet bulb and _____ °F/°C dry bulb, and air entering the unit at _____ °F/°C.
- The system will have a SEER of _____ Btuh/watt or greater at DOE conditions.

## Electrical Requirements

- Nominal unit electrical characteristics will be _____ v, single phase, 60 hz. The unit will be capable of satisfactory operation within voltage limits of _____ v to _____ v.
- Nominal unit electrical characteristics will be _____ v, three phase, 60 hz. The unit will be capable of satisfactory operation within voltage limits of _____ v to _____ v.
- Unit electrical power will be single point connection.
- Control circuit will be 24v.

## Special Features

- Refer to section of this literature identifying accessories and descriptions for specific features and available enhancements.

# GUIDE SPECIFICATIONS (EL3T)

## General

### Air Handling Unit Description

Indoor installed, blow through type Blower coil unit with factory fitted air filter. Unconditioned return air is drawn through a cooling heat exchanger via synthetic media filter. The cooling heat exchanger cools and dehumidifies the air and supplies to the zone to be conditioned.

Furnish and install as shown on the drawing Rheem Model ———————— blow through air handler suitable for both horizontal and vertical applications.

### Quality Assurance

— Unit will be rated in accordance with the latest edition of AHRI Standard 210/240 and or ISO 13253.
— Unit construction will comply with latest edition of ANSI/ASHRAE and NEC.
— Unit will be constructed in accordance with UL standards and according to appropriate section of IEC 60335 -1,-2-40.
— Unit cabinet will be capable of withstanding ASTM B117 1008-hr salt spray test.
— Direct Expansion Cooling coils will be leak tested at 150 psig and pressure tested at 550 psig.
— Unit constructed in ISO9001 approved facility.

### Delivery, Storage, and Handling

— Unit will be shipped as single package only and is stored and handled per unit manufacturer's recommendations.

### Equipment

Factory assembled, single piece, draw through type blower coil unit. Contained within the unit enclosure are all factory wiring, piping, controls, filters, insulation, blower, motor ,coil and special features required prior to field start-up.

### Unit Cabinet

— Unit cabinet will be constructed of galvanized steel and coated with paint. The thickness of the powder coat painted.

### Motor

Motor shall be a Constant Torque Motor (ECM) which provides enhanced EER performance with Rheem outdoor units.

### Coils

Coils shall be fabricated of 3/8" [10 mm] O.D. seamless copper tubing expanded into aluminum fins. All coils shall be submitted to an air pressure test of up to 550 PSIG [2068 kPa]. Units shall be shipped with a nitrogen holding charge. Airflow shall be blow through design providing uniform air distribution across the coil surface.

### Blower, Bearings And Shaft

Blower shall be a double width, double inlet, forward curve, centrifugal type, statically and dynamically balanced, and constructed of galvanized steel.

### Drain Pan

The drain pan shall be manufactured of plastic to protect against corrosion. The pan shall have internally threaded pipe size drain connections and shall be designed to accept condensate in either horizontal or vertical type applications.The drain pan shall be double slope design in accordance with Ashrae 62 requirement.

### Filters

Duly factory fitted filter made up of synthetic woven media. Synthetic media permanently molded in the plastic frame.

### Cabinet

Cabinets shall be manufactured of galvanized steel subjected to multi-stage cleaning and finished with Pre paint. Units shall have removable service access panels.

### Insulation

Cabinets shall be insulated with 1/2" [13 mm] by 11/2 pound [.68 kg] density fiberglass insulation coated with neoprene and bonded to the cabinet surface with a U.L. approved adhesive. Insulation shall have fire retarding characteristics in accordance with UL smoke developed rating not to exceed 50 and flame spread rating of 25 per Underwriters Laboratories testing procedures.

### Factory Testing

In addition to the pre-assembly testing mentioned above, each coil shall be leak tested after assembly into the unit. While under pressure, the coil shall be leak tested using an Electronic Leak Detector.

### Electric Heaters (Field Installed –if Applicable)

UL and cUL listed electric heater kits shall be available in a wide range of capacities. All kits shall offer up to two stages of capacity, blower motor controller and single point connection. Heater kits shall be available for installation directly on the supply fan discharge for either horizontal or vertical applications.

# GUIDE SPECIFICATIONS (SAGL)

## Condensing Unit Description

Outdoor-mounted, air-cooled, split-system air conditioner suitable for ground or rooftop installation. Unit consists of a hermetic compressor, an air-cooled coil, propeller-type condenser fan, suction and liquid line service valve, and a control box. Unit shall discharge supply air upward as shown on contract drawings. Unit shall be used in a refrigeration circuit to match up to a coil / air handler unit.

## Quality Assurance

- Unit shall be rated in accordance with the latest edition of AHRI Standard 210/240 and/or ISO-13253.
- Unit shall be certified for capacity and efficiency.
- Unit construction shall comply with latest edition of ANSI/ ASHRAE and with NEC.
- Unit shall be constructed in accordance with UL 1995 & IEC [60335-1-40, 60335-2-40]
- Unit cabinet shall be capable of withstanding ASTM-B117,1008-hr salt spray test.
- Air-cooled condenser coils shall be leak tested at 150 psig and pressure tested at 550 psig .
- Unit constructed in ISO9001 approved facility.

## Delivery, Storage, and Handling

- Unit shall be shipped as single package only and is stored and handled per unit manufacturer's recommendations.

## Equipment

Factory assembled, single piece, air-cooled air conditioner unit. Contained within the unit enclosure is all factory wiring, piping, controls, compressor, refrigerant charge R-410A, and special features required prior to field start-up.

## Unit Cabinet

- Unit cabinet shall be constructed of galvanized steel, bonderized, and coated with a powder coat paint.
- All units constructed with louver coil protection all around the coil.

## Fans

- Condenser fan shall be direct-drive propeller type, discharging air upward.
- Condenser fan motors shall be totally enclosed, 1-phase type and permanently lubricated bearings. Shafts shall be corrosion resistant.
- Fan blades shall be statically and dynamically balanced.
- Condenser fan openings shall be equipped with coated steel wire safety guards.

## Compressor

- Compressor shall be hermetically sealed scroll type.
- Compressor shall be mounted on rubber vibration isolators

## Condenser Coil

- Condenser coil shall be air cooled.
- Coil shall be constructed of aluminum fins mechanically bonded to copper tubes.
- 3/8" diameter, internal groove copper tube.

## Refrigeration Components

- Refrigeration circuit components shall include liquid-line shutoff valve with sweat connections, vapor-line shutoff valve with sweat connections, system charge of R-410A refrigerant, and compressor oil.
- Unit shall be supplied with factory provided filter drier for R-410A refrigerant for field installation.

## Special Features

- Refer to section of this literature identifying accessories and descriptions for specific features and available enhancements.

# GUIDE SPECIFICATIONS (SHSL/SHLL)

## Air Handling Unit Description

Indoor installed, draw through type Blower coil unit with factory fitted air filter. Unconditioned return air is drawn through a cooling heat exchanger via synthetic media filter. The cooling heat exchanger cools and dehumidifies the air and supplies to the zone to be conditioned.

## Quality Assurance

— Unit shall be rated in accordance with the latest edition of AHRI Standard 210/240 and or ISO 13253.
— Unit construction shall comply with latest edition of ANSI/ASHRAE and NEC.
— Unit shall be constructed in accordance with UL standards and according to appropriate section of IEC 60335-1-40, 60335-2-40
— Unit cabinet shall be capable of withstanding ASTM B117 1008-hr salt spray test.
— Direct Expansion Cooling coils shall be leak tested at 150 psig and pressure tested at 550 psig.
— Unit constructed in ISO9001 approved facility.

## Delivery, Storage, and Handling

— Unit shall be shipped as single package only and shall be stored and handled as per unit manufacturer's recommendations.

## Equipment

Factory assembled, single piece, draw through type blower coil unit. Contained within the unit enclosure are all factory wiring, piping, controls, filters, insulation, blower, motor ,coil and special features required prior to field start-up.

## Unit Cabinet

— Unit cabinet shall be constructed of galvanized steel and coated with paint.

## Motor

Motor shall be a Constant Torque Motor (ECM for SHLL) which provides enhanced EER performance with Rheem outdoor units. Totally enclosed single phase and permanently lubricated.

## Coils

Coils shall be fabricated of 3/8" [10 mm] O.D. seamless copper tubing expanded into aluminum fins. All coils shall be submitted to an air pressure test of up to 550 PSIG [2068 kPa]. Units shall be shipped with a nitrogen holding charge. Airflow shall be draw through design providing uniform air distribution across the coil surface.

## Blower, Bearings And Shaft

Blower shall be a double width, double inlet, forward curve, centrifugal type, statically and dynamically balanced, and constructed of galvanized steel.

## Drain Pan

The drain pan shall be manufactured of plastic to protect against corrosion. The pan shall have internally threaded pipe size drain connections and shall be designed to accept condensate in either horizontal or vertical type applications.The drain pan shall be double slope design in accordance with ASHRAE 62 requirement.

## Filters

Duly factory fitted filter made up of Synthetic media permanently molded in the plastic frame.

## Cabinet

Cabinets shall be manufactured of galvanized steel subjected to multi-stage cleaning and finished with Pre paint. Units shall have removable service access panels.

## Insulation

Cabinets shall be insulated with 1/2" [13 mm] by 1 1/2 pound [.68 kg] density fiberglass insulation coated with neoprene and bonded to the cabinet surface with a U.L. approved adhesive. Insulation shall have fire retarding characteristics in accordance with UL smoke developed rating not to exceed 50 and flame spread rating of 25 per Underwriters Laboratories testing procedures.

## Factory Testing

In addition to the pre-assembly testing mentioned above, each coil shall be leak tested after assembly into the unit. While under pressure, the coil shall be leak tested using an Electronic Leak Detector.

## Electric Heaters (Field Installed –if Applicable)

UL and cUL listed electric heater kits shall be available in a wide range of capacities. All kits shall offer up to two stages of capacity, blower motor controller and single point connection. Heater kits shall be available for installation directly on the supply fan discharge for either horizontal or vertical applications.

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