

| Unit Tag | Qty | Model No | Net Cooling Capacity (ton.R) | Nominal Voltage | Refrigerant Type |
|-----------------|-----|---------------------|------------------------------|-----------------|------------------|
| YLAA0100SE46VSD | 1 | YLAA0100SE46XFBSDTX | 96.49 | 460-3-60.0 | R410A |

| PIN: | | | | | | | | |
|------------|------------|------------|------------|------------|--------------|------------|------------|------------|
| YLAA0100SE | 46XFBSDTXA | SXBLXCXX44 | SE1XXXHXXX | YAXGXXX3XX | XVXXXXXXXXXX | | | |
|5...10 |5...20 |5...30 |5...40 |5...50 |5...60 |5...70 |5...80 |5...90 |

| Evaporator Data | | Evaporator Data (Cont.) | | Performance Data | |
|-------------------------------|----------|---------------------------|-------------------|-------------------------|-------|
| EWT (°F) | 54.00 | Fluid Volume (USGAL) | 8.771 | EER (Btu/W-h) | 9.711 |
| LWT (°F) | 44.00 | Min. Flow Rate (USGPM) | 99.86 | IPLV.IP (Btu/W-h) | 16.92 |
| Design Flow Rate (USGPM) | 230.3 | Max. Flow Rate (USGPM) | 400.1 | | |
| Evap. Press. Drop (ft H2O) | 9.14 | | | | |
| Fluid | Water | Condenser Data | | Physical Data | |
| Strainer Press. Drop (ft H2O) | 0.000 | Ambient Temp. Design (°F) | 95.0 | Rigging Wt. (lb) | 5172 |
| Ext. Kit Press. Drop (ft H2O) | 0.000 | Altitude (ft) | 0.000 | Operating Wt. (lb) | 5247 |
| Total Press. Drop (ft H2O) | 9.14 | Compressor Type | Scroll - Hermetic | Refrigerant Charge (lb) | 93.9 |
| Fouling Factor (h.ft².F/Btu) | 0.000100 | | | | |

| Electrical Data | | | | |
|--------------------|-----------------|-----------|---|---|
| Circuit | 1 | 2 | 3 | 4 |
| Compressor RLA | 27 / 27 / 27 | 53 / 53 | | |
| Fan QTY/FLA (each) | 2 / 4 | 3 / 4 | | |
| High LRA Current | 180 / 180 / 180 | 316 / 316 | | |

| Single Point | | | | |
|------------------------------------|---|--|-------------------------------------|-------|
| Min. Circuit Ampacity | 225 | | | |
| Recommended Fuse/CB Rating | 250 | | | |
| Max. Inverse Time CB Rating | 250 | | | |
| Max. Dual Element Fuse Size (A) | 250 | | Operating Condition Electrical Data | |
| Unit Short Circuit Withstand (STD) | 5 [kA] | | Compressor kW | 110.8 |
| Wires Per Phase | 2 + 1 | | Total Fan kW | 8.400 |
| Wire Range (Lug Size) | #3/0 AWG - 250 kcmil + 250 - 500 kcmil | | Total kW | 119.2 |
| Starter Type | Across The Line | | | |

Notes:

This unit does not have a coil coating selected.

Certified in accordance with the AHRI Air-Cooled Water-Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI). Certified units may be found in the AHRI Directory at www.ahridirectory.org. Auxiliary components included in total KW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power



Compliant with the requirements of the LEED Energy and Atmosphere Enhanced Refrigerant Management Credit (EAc4).

| Part Load Rating Data | | | | |
|-----------------------|--------------|------------------|----------|---------------------------|
| Stage | Ambient (°F) | Capacity (ton.R) | Total kW | Unit Efficiency (Btu/W·h) |
| 1 | 95.0 | 96.49 | 119.2 | 9.711 |
| 2 | 89.1 | 87.04 | 94.35 | 11.07 |
| 3 | 74.8 | 63.99 | 49.70 | 15.45 |
| 4 | 66.3 | 50.40 | 32.79 | 18.44 |
| 5 | 55.0 | 16.07 | 8.520 | 22.64 |

| Sound Power Levels (In Accordance with AHRI 370) | | | | | | | | | | |
|--|--------------|------------|-------------|-------------|-------------|------------|------------|------------|------------|-----|
| Stage | Ambient (°F) | 63 Hz (dB) | 125 Hz (dB) | 250 Hz (dB) | 500 Hz (dB) | 1 kHz (dB) | 2 kHz (dB) | 4 kHz (dB) | 8 kHz (dB) | LWA |
| 1 | 95.0 | 97 | 96 | 92 | 93 | 89 | 87 | 83 | 80 | 95 |
| 2 | 89.1 | 96 | 95 | 91 | 91 | 88 | 86 | 82 | 79 | 94 |
| 3 | 74.8 | 91 | 90 | 86 | 87 | 85 | 83 | 78 | 75 | 90 |
| 4 | 66.3 | 88 | 87 | 83 | 85 | 83 | 81 | 76 | 74 | 88 |
| 5 | 55.0 | 81 | 80 | 76 | 78 | 75 | 77 | 69 | 64 | 82 |

Note: Unit is equipped with Low Sound Fans with VSD Control.

Measurement of sound pressure used to obtain the sound power data presented is based on AHRI-370.

Air-cooled chillers are rated in terms of sound power not sound pressure. Johnson Controls provides estimates of sound pressure, but this is not the rating metric.

For an air-cooled chiller, sound pressure calculated from sound power varies depending on how the chiller is assumed to behave, i.e. the radiation model. In other words, determining sound pressure from sound power requires making assumptions that result in different answers at a given distance from the chiller. The environment also influences sound pressure in the field installation. Sound pressure estimation radiation models pertaining to air-cooled chillers include the 'traditional' hemispherical model, parallelepiped model and equivalent hemispherical model.

Regarding sound power, Johnson Controls references tolerance limits based on ASHRAE guidelines. These are +/- 6dB in the 63Hz octave band, +/- 4dB in all other octave bands and +/- 3dB for the overall dBA.

Tolerance limits are based on uncertainties associated with:

1. Measurement Test Procedure
2. Repeatability
3. Production / Manufacturing Variability

Standard deviation associated with air-cooled chiller sound data is a measure of spread i.e. it indicates the range of probability of sound levels. Note that for operating conditions other than AHRI's Standard Rating Condition, higher levels of uncertainty can be expected.

Lead times for factory performance testing depend on test laboratory availability. Please confirm with Johnson Controls Customer Service.

| Performance at AHRI Conditions | | | | | |
|---|----------|--------------------|-------|------------------------------|-------|
| Evaporator Data | | Condenser Data | | Performance Data | |
| EWT (°F) | 54.00 | Ambient Temp. (°F) | 95.0 | EER (Btu/W·h) | 9.711 |
| LWT (°F) | 44.00 | Altitude (ft) | 0.000 | IPLV.IP (Btu/W·h) | 16.92 |
| Flow Rate (USGPM) | 230.3 | | | Net Cooling Capacity (ton.R) | 96.49 |
| Pressure Drop (ft H ₂ O) | 9.14 | | | | |
| Fluid | Water | | | | |
| Fouling Factor (h.ft ² .F/Btu) | 0.000100 | | | | |
| Fluid Volume (USGAL) | 8.771 | | | | |

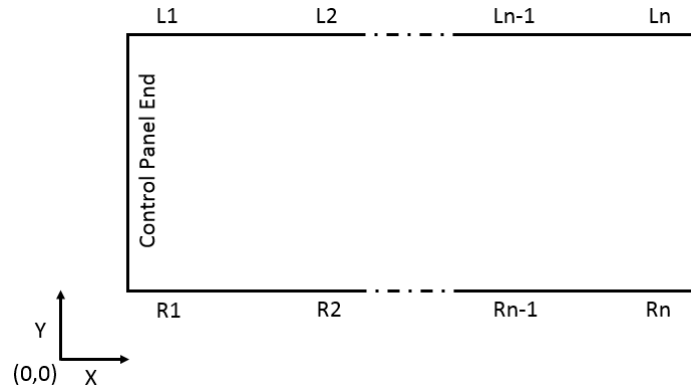
Note: Unit rated at design condition capacity.



| Unit Tag | Qty | Model No |
|-----------------|-----|---------------------|
| YLAA0100SE46VSD | 1 | YLAA0100SE46XFBSDTX |

| Line # | Equipment Details |
|--------|--|
| 1 | <p>Base Unit (2954)</p> <p>YLAA0100SE</p> <p>R-410A Refrigerant (Fully Charged)</p> <p>Voltage Code - (460/3/60)</p> <p>SP NF Disconnect Switch w/Lockable Handle</p> <p>Control Transformer</p> <p>Both Low/High Ambient Kit Required</p> <p>Connected Services Ready – BACnet/Modbus/N2</p> <p>English</p> <p>cUL/cETL Listing</p> <p>Service Isolation Valves</p> <p>Electronic Expansion Valves</p> <p>Hot Gas Bypass (1 circuit)</p> <p>Flow Switch + Extension Kit</p> <p>ASME Pressure Vessel & Associated Codes</p> <p>Thermal Dispersion Flow Switch</p> <p>All Aluminum Microchannel Coils</p> <p>No Heat Recovery</p> <p>Wire / Louvered Enclosure Panels</p> <p>No Sound Kit</p> <p>Low Sound Fans with VSD Control</p> <p>No Pump Kit</p> |

| Project Name | Unit Tag | Date | Chiller Type |
|--|---------------------|------------|----------------------------|
| Stock YLAA 9-28-21 | YLAA0100SE46VS D | 2021-10-06 | Air Cooled Scroll Chillers |
| PIN | | | Version |
| YLAA0100SE46XFBSDTXASXBLXCXX44SE1XXXHXXXYAXGXXX3XXXVXXXXXXXXXX | | | E.21.3.26974.0-D.92.0003 |



| LOCATION | X Distance (in) | Y Distance (in) | Vendor Isolator Part Number | COLOUR | Operating Weights (lb) |
|----------|-----------------|-----------------|-----------------------------|--------|------------------------|
| R1 | 7.6 | 1.4 | N/A | N/A | 736 |
| R2 | 76.6 | 1.4 | N/A | N/A | 926 |
| R3 | 124.7 | 1.4 | N/A | N/A | 575 |
| L1 | 7.6 | 86.9 | N/A | N/A | 814 |
| L2 | 76.6 | 86.9 | N/A | N/A | 1457 |
| L3 | 124.7 | 86.9 | N/A | N/A | 736 |

| Total Weight (lb) | | Centre of Gravity (in) | |
|-------------------|------|------------------------|------|
| Operating | 5247 | Xg | 68.2 |
| Shipping | 5172 | Yg | 50.4 |

All values are de-rated by 15% apart from those which have part number. (029-25334-013 and 029-25336-014: 0% de-rated), (029-25335-004: 10% de-rated), (029-25335-001 and 029-25335-003: 25% de-rated)

