

# MODEL YLAA AIR-COOLED SCROLL CHILLERS WITH BRAZED PLATE HEAT EXCHANGERS STYLE B

55 – 230 TON  
195 – 700 kW  
60 Hz  
R-410A

Model #: YLAA0136SE46XFBSDTXAXXBLXCXX44SE1XXXHXDXYAXWPXX3XXXVXNXXXXXX  
Serial #: 11551F85128953

Year: 2018  
Size: 126 Tons



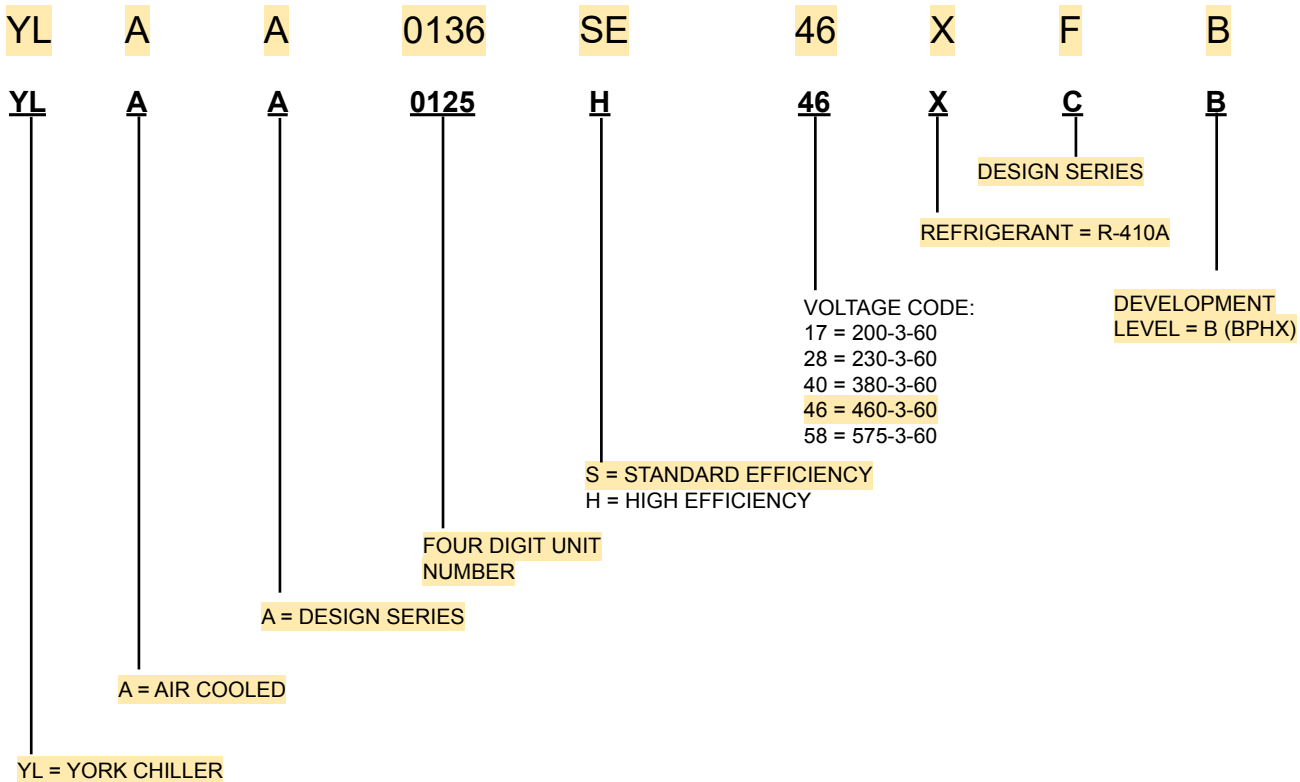
Shipping Weight: 6,148 lbs.  
Operating Weight: 6,232 lbs.

L: 15' 8" W: 7' 4" H: 7' 11"



 **YORK**<sup>®</sup>  
INSTALL CONFIDENCE

## Nomenclature



## Approvals

- ASME Boiler and Pressure Vessel Code – Section VIII Division 1.
- AHRI Standard 550/590 and 551/591.
- UL 1995 – Heating and Cooling Equipment
- ASHRAE 15 – Safety Code for Mechanical Refrigeration
- ASHRAE Guideline 3 – Reducing Emission of Halogenated Refrigerants in Refrigeration and Air-Conditioning Equipment and Systems
- N.E.C. – National Electrical Code
- OSHA – Occupational Safety and Health Act



Products are produced at a facility whose quality-management systems are ISO9001 certified.

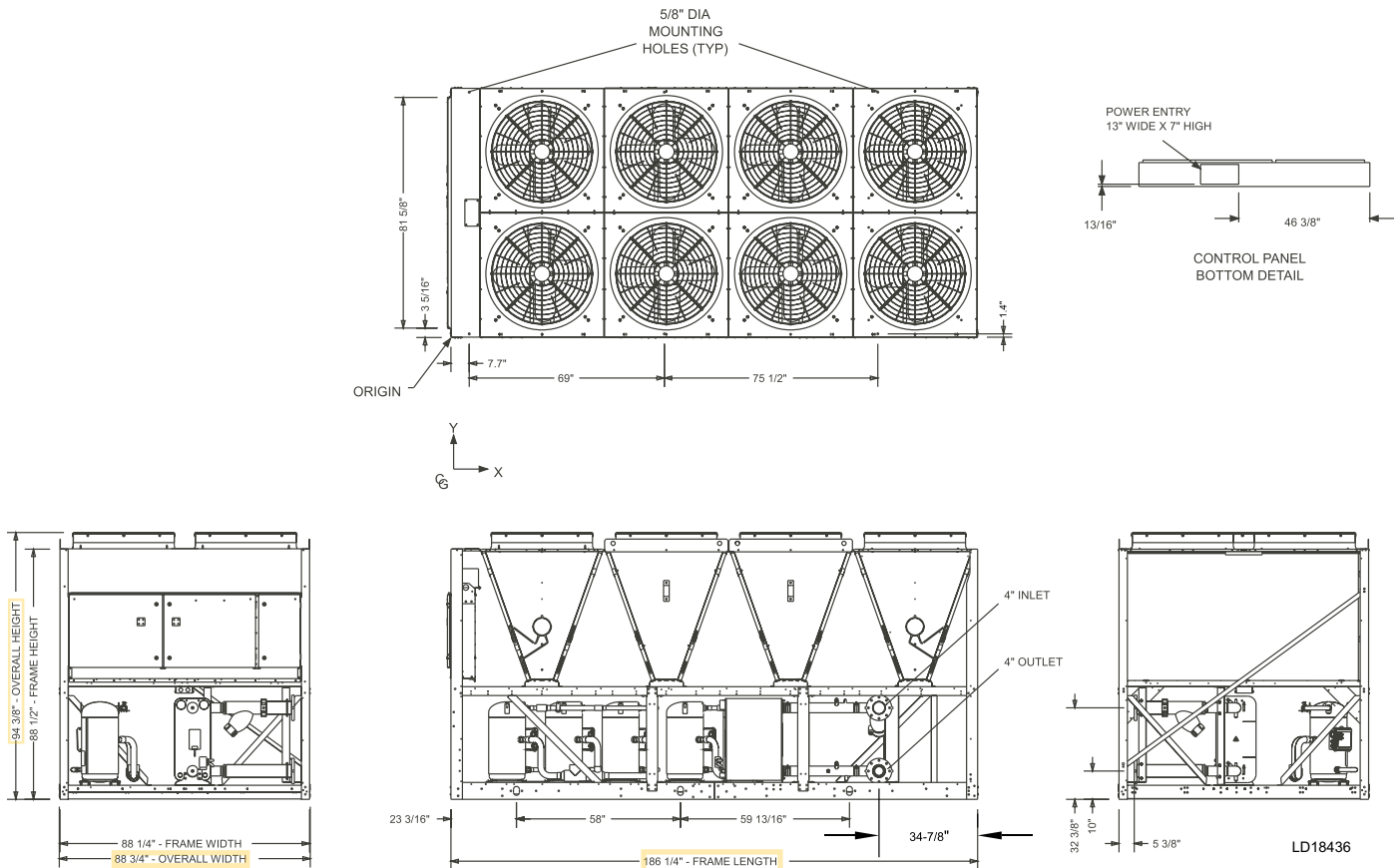
# Physical Data and Nominal Ratings

| REFRIGERANT R-410A                         | YLAA                      |           |           |           |           |           |           |           |
|--------------------------------------------|---------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                                            | STANDARD EFFICIENCY UNITS |           |           |           |           |           |           |           |
|                                            | 0070SE                    | 0080SE    | 0089SE    | 0100SE    | 0120SE    | 0136SE    | 0155SE    | 0170SE    |
| <b>NOMINAL RATINGS</b>                     |                           |           |           |           |           |           |           |           |
| TONS                                       | 71.0                      | 77.8      | 81.8      | 95.6      | 118.1     | 126.1     | 143.0     | 167.4     |
| KW                                         | 77.5                      | 86.3      | 93.0      | 111.5     | 134.6     | 142.6     | 165.0     | 192.1     |
| EER                                        | 10.4                      | 10.0      | 9.8       | 9.7       | 9.8       | 9.7       | 9.7       | 9.7       |
| IPLV                                       | 16.1                      | 15.6      | 15.8      | 14.5      | 15.0      | 15.8      | 15.8      | 15.6      |
| <b>GENERAL UNIT DATA</b>                   |                           |           |           |           |           |           |           |           |
| Length, Inches                             | 116.1                     | 116.1     | 116.1     | 142.7     | 142.7     | 187.7     | 187.7     | 232.7     |
| Width, Inches                              | 88                        | 88        | 88        | 88        | 88        | 88        | 88        | 88        |
| Height, Inches                             | 94.2                      | 94.2      | 94.2      | 94.2      | 94        | 94.2      | 94.2      | 94.2      |
| Number of Refrigerant Circuits             | 2                         | 2         | 2         | 2         | 2         | 2         | 2         | 2         |
| <b>REFRIGERANT CHARGE, OPERATING</b>       |                           |           |           |           |           |           |           |           |
| R-410A, Circuit 1 / Circuit 2, lbs         | 43/43                     | 47/44     | 57/57     | 55/58     | 54/62     | 75/71     | 75/70     | 90/87     |
| Oil Charge, Circuit 1 / Circuit 2, gallons | 2.58/2.58                 | 3.28/2.58 | 3.28/2.76 | 3.28/3.33 | 3.33/3.33 | 4.99/2.76 | 4.99/3.33 | 4.99/4.99 |
| Shipping Weight, lbs                       | 3578                      | 3898      | 4168      | 4791      | 5183      | 6148      | 6414      | 7734      |
| Operating Weight, lbs                      | 3623                      | 3954      | 4241      | 4864      | 5293      | 6232      | 6524      | 7818      |
| <b>COMPRESSORS, SCROLL TYPE</b>            |                           |           |           |           |           |           |           |           |
| Compressors per circuit                    | 3/3                       | 3/3       | 3/3       | 3/2       | 2/2       | 3/3       | 3/2       | 3/3       |
| Compressors per unit                       | 6                         | 6         | 6         | 5         | 4         | 6         | 5         | 6         |
| <b>NOMINAL TONS PER COMPRESSOR</b>         |                           |           |           |           |           |           |           |           |
| Circuit 1                                  | 13                        | 15        | 15        | 15        | 32        | 32        | 32        | 32        |
| Circuit 2                                  | 13                        | 13        | 15        | 32        | 32        | 15        | 32        | 32        |
| <b>CONDENSER</b>                           |                           |           |           |           |           |           |           |           |
| Total Face Area ft <sup>2</sup>            | 106.9                     | 106.9     | 106.9     | 133.6     | 160.3     | 213.8     | 213.8     | 267.2     |
| Number of Rows                             | 1                         | 1         | 1         | 1         | 1         | 1         | 1         | 1         |
| Fins per Inch                              | 20                        | 20        | 20        | 20        | 20        | 20        | 20        | 20        |
| <b>CONDENSER FANS, LOW SOUND</b>           |                           |           |           |           |           |           |           |           |
| Number of Fans, Circuit 1/Circuit 2        | 2/2                       | 2/2       | 2/2       | 3/2       | 3/3       | 4/4       | 4/4       | 5/5       |
| Fan hp                                     | 2                         | 2         | 2         | 2         | 2         | 2         | 2         | 2         |
| Fan RPM                                    | 1160                      | 1160      | 1160      | 1160      | 1160      | 1160      | 1160      | 1160      |
| Total Chiller CFM                          | 62400                     | 62400     | 62400     | 78000     | 93600     | 124800    | 124800    | 156000    |
| <b>EVAPORATOR</b>                          |                           |           |           |           |           |           |           |           |
| Water Volume, Gallons                      | 5.4                       | 6.7       | 8.8       | 8.8       | 13.2      | 10.0      | 13.2      | 10.0      |
| Maximum Water Side Pressure, Psig          | 150                       | 150       | 150       | 150       | 150       | 150       | 150       | 150       |
| Maximum Refrigerant Side Pressure, Psig    | 450                       | 450       | 450       | 450       | 450       | 450       | 450       | 450       |
| Minimum Chiller Water Flow Rate, Gpm       | 60                        | 100       | 140       | 100       | 150       | 150       | 150       | 150       |
| Maximum Chiller Water Flow Rate, Gpm       | 285                       | 355       | 385       | 385       | 625       | 625       | 625       | 625       |
| Water Connections Size, Inches             | 3                         | 3         | 3         | 3         | 3         | 4*        | 4*        | 4*        |

\* Side extension kit (standard), evaporator nozzle remains 3".

## Unit Dimensions (Cont'd)

YLAA0125HE, YLAA 0136SE, YLAA0155SE, YLAA0142HE



### NOTE:

Placement on a level surface of free of obstructions (including snow, for winter operation) or air circulation ensures rated performance, reliable operation, and ease of maintenance. Site restrictions may compromise minimum clearances indicated below, resulting in unpredictable airflow patterns and possible diminished performance. The unit controls will optimize operation without nuisance high-pressure safety cut-outs; however, the system designer must consider potential performance degradation. Access to the unit control center assumes the unit is no higher than on spring isolators. Recommended minimum clearances: Side to wall – 6'; rear to wall – 6'; control panel to end wall – 4'0"; top – no obstructions allowed; distance between adjacent units – 10'. No more than one adjacent wall may be higher than the unit.