

Model #: YCIV0207VA46VABBXTXXXXXLXXXX44SXXXXXHXXXSAXLXXX3XXXXXNH5XXXX

Serial #: RBVM024507



Year: 2009

Size: 207 Tons

**LATITUDE™**  
**Air-Cooled Screw Liquid Chillers**



Shipping Weight: 13,981 lbs.

L: 26' 6" W: 7' 5" H: 7' 10"



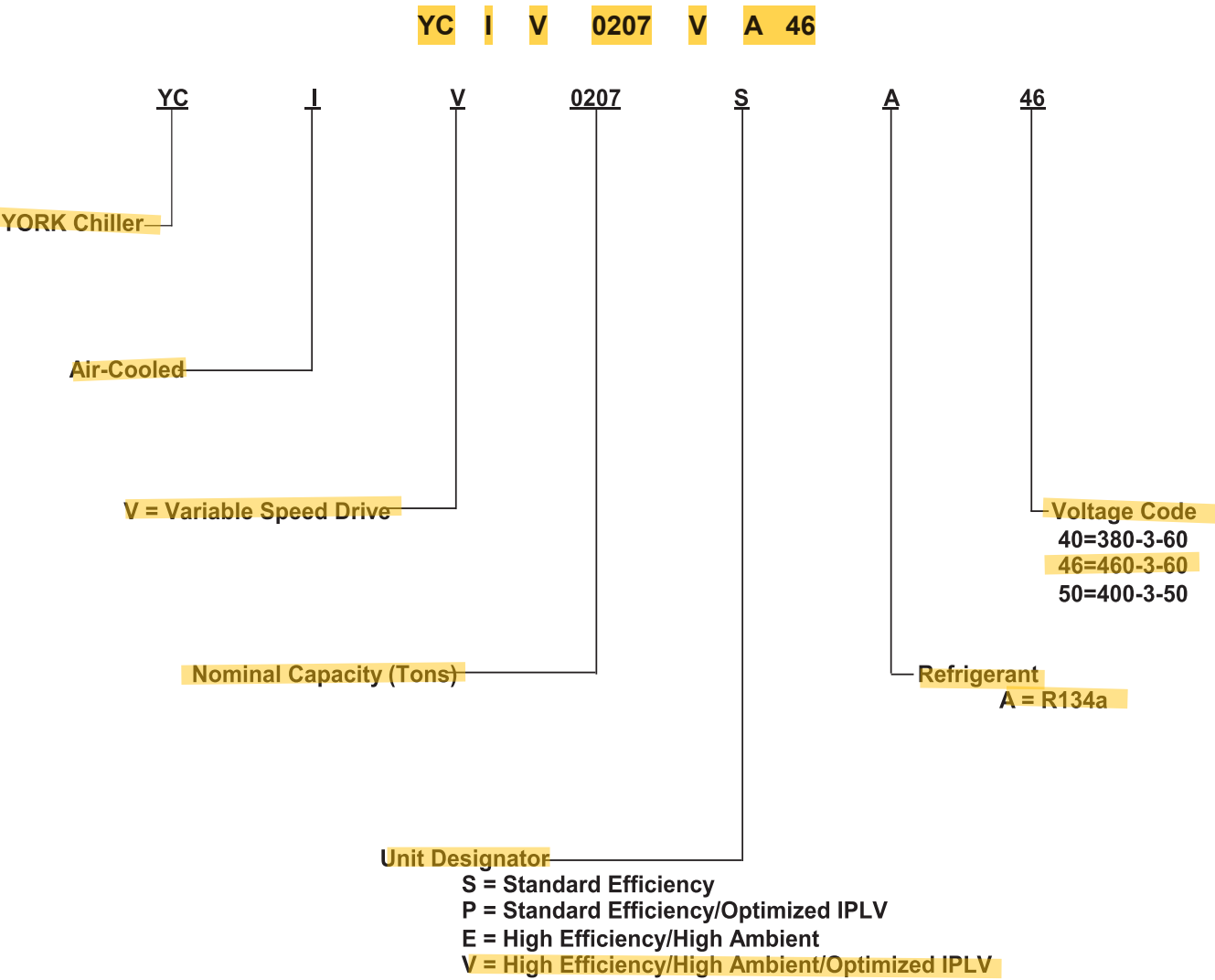
140-200 Tons  
60Hz

***HFC-134a***  
150 - 385 TONS  
(527 - 1354 kW)  
2 and 3 Compressor  
50 and 60 Hz  
ASHRAE 90.1 Compliant



## NOMENCLATURE

The Model Number denotes the following characteristics of the unit:

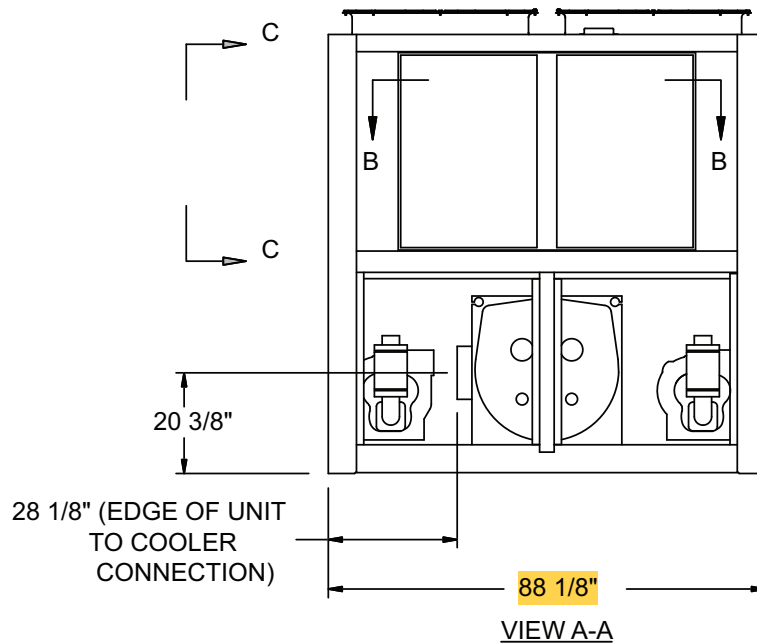
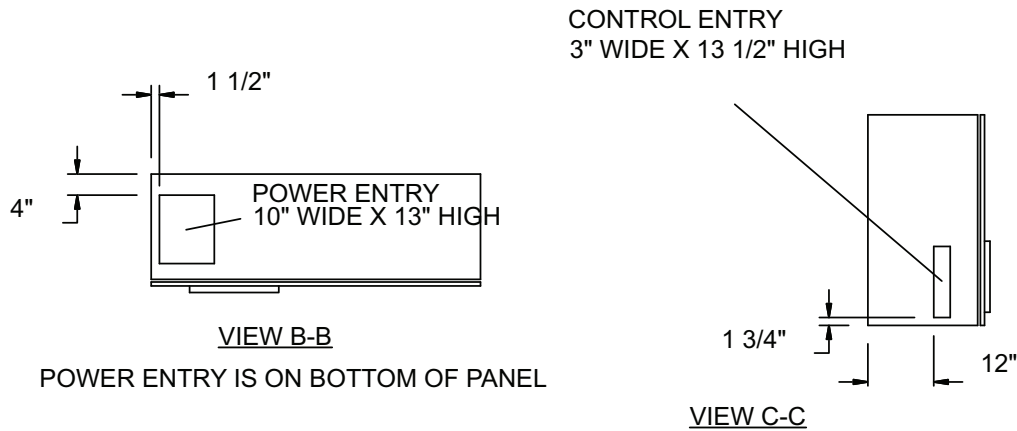


# Physical Data (English - High Efficiency)

| Refrigerant R-134a                                                  | HIGH EFFICIENCY         |         |         |         |         |         |         |      |
|---------------------------------------------------------------------|-------------------------|---------|---------|---------|---------|---------|---------|------|
|                                                                     | MODEL NUMBER (YCIV E/V) |         |         |         |         |         |         |      |
| General Unit Data                                                   | 60Hz                    | 0157    | 0177    | 0187    | 0197    | 0207    | 0227    | 0247 |
|                                                                     | 50Hz                    | 0590    | 0630    | 0700    | 0760    | 0800    | 0830    | 0930 |
| Number of Independent Refrigerant Circuits                          | 2                       | 2       | 2       | 2       | 2       | 2       | 2       | 2    |
| Refrigerant Charge, R-134a, Ckt.-1/Ckt.-2, lbs                      | 170/170                 | 185/170 | 185/185 | 192/192 | 225/192 | 225/225 | 230/230 |      |
| Oil Charge, Ckt.-1/Ckt.-2, gal.                                     | 5/5                     | 5/5     | 5/5     | 5/5     | 5/5     | 5/5     | 5/5     | 5/5  |
| Compressors, Semihermetic Screw Qty per Chiller                     | 2                       | 2       | 2       | 2       | 2       | 2       | 2       | 2    |
| <b>Condensers, High Efficiency Fin/Tube with Integral Subcooler</b> |                         |         |         |         |         |         |         |      |
| Total Chiller Coil Face Area, ft <sup>2</sup>                       | 235                     | 264     | 293     | 293     | 323     | 352     | 352     |      |
| Number of Rows                                                      | 3                       | 3       | 3       | 3       | 3       | 3       | 3       | 3    |
| Fins per Inch                                                       | 17                      | 17      | 17      | 17      | 17      | 17      | 17      | 17   |
| <b>Condenser Fans</b>                                               |                         |         |         |         |         |         |         |      |
| Number, Ckt.-1/Ckt.-2                                               | 4/4                     | 5/4     | 5/5     | 5/5     | 6/5     | 6/6     | 6/6     |      |
| <b>Low Noise Fans</b>                                               |                         |         |         |         |         |         |         |      |
| Fan Motor, HP                                                       | 2                       | 2       | 2       | 2       | 2       | 2       | 2       | 2    |
| Total Chiller Airflow, cfm                                          | 104000                  | 117000  | 130000  | 130000  | 143000  | 156000  | 156000  |      |
| <b>Ultra Quiet Fans</b>                                             |                         |         |         |         |         |         |         |      |
| Fan Motor, HP                                                       | 2                       | 2       | 2       | 2       | 2       | 2       | 2       | 2    |
| Total Chiller Airflow, cfm                                          | 104000                  | 117000  | 130000  | 130000  | 143000  | 156000  | 156000  |      |
| <b>Dual Speed Fans - Normal Speed</b>                               |                         |         |         |         |         |         |         |      |
| Fan Motor, hp                                                       | 2                       | 2       | 2       | 2       | 2       | 2       | 2       | 2    |
| Total Chiller, CFM                                                  | 88000                   | 99000   | 110000  | 110000  | 121000  | 132000  | 132000  |      |
| <b>Dual Speed Fans - Lower Speed</b>                                |                         |         |         |         |         |         |         |      |
| Fan Motor, hp                                                       | 2                       | 2       | 2       | 2       | 2       | 2       | 2       | 2    |
| Total Chiller, CFM                                                  | 67200                   | 75600   | 84000   | 84000   | 92400   | 100800  | 100800  |      |
| <b>High Static Fans</b>                                             |                         |         |         |         |         |         |         |      |
| Fan Motor, hp                                                       | 5                       | 5       | 5       | 5       | 5       | 5       | 5       | 5    |
| Total Chiller, CFM                                                  | 104000                  | 117000  | 130000  | 130000  | 143000  | 156000  | 156000  |      |
| <b>Evaporator, Direct Expansion</b>                                 |                         |         |         |         |         |         |         |      |
| Water Volume, gals.                                                 | 95.0                    | 95.0    | 95.0    | 110.0   | 110.0   | 110.0   | 140.0   |      |
| Maximum Water Side Pressure, PSIG <sup>1</sup>                      | 150                     | 150     | 150     | 150     | 150     | 150     | 150     |      |
| Maximum Refrigerant Side Pressure, PSIG                             | 235                     | 235     | 235     | 235     | 235     | 235     | 235     |      |
| Minimum Chilled Water Flow Rate, gpm                                | 160                     | 160     | 160     | 180     | 180     | 180     | 180     |      |
| Maximum Chilled Water Flow Rate, gpm                                | 750                     | 750     | 750     | 750     | 750     | 750     | 800     |      |
| Water Connections, inches                                           | 10                      | 10      | 10      | 10      | 10      | 10      | 10      |      |

# Dimensions — English - continued

## Models YCIV0207E/V and YCIV0227E/V



### Notes:

1. Placement on a level surface free of obstructions (including snow, for winter operation) or air recirculation ensures rated performance, reliable operation, and ease of maintenance. Site restrictions may compromise minimum clearances indicated below, resulting in unpredictable air patterns and possible diminished performance. Johnson Controls' unit controls will optimize the operation without nuisance high pressure safety cutouts; however, the system designer **MUST** consider potential performance degradation.

Access to the unit control center stipulates the unit is no higher than on spring isolators. Recommended minimum clearances: side to wall - 6'; rear to wall - 6'; control panel end to wall - 4'; top - no obstructions whatsoever; distance between adjacent units - 10'. No more than one adjacent wall may be higher than the unit.

