

**Model: AJA7494ZXD**
**Product Description**

**Type:** Reciprocating Compressors  
**Application:** MBP – Medium Back Pressure  
**ProductDescription:** R-404A/R-407A/R-448A/R-449A/R-452A  
**Voltage/Frequency:** 208-230V ~ 60Hz 200V ~ 50Hz  
**Version:** N/A


**Product Specifications**
**Performance**

| Condition    | Test Voltage | Refrigeration Capacity |               |          | Input Power<br>(I) W | (E) Efficiency |                |      | EVAP<br>TEMP  | Condition    | AMBIENT<br>TEMP | RETURN<br>GAS | LIQUID<br>TEMP |
|--------------|--------------|------------------------|---------------|----------|----------------------|----------------|----------------|------|---------------|--------------|-----------------|---------------|----------------|
|              |              | (R)<br>Btu/h           | (R)<br>kcal/h | (R)<br>W |                      | (E)<br>Btu/Wh  | (E)<br>kcal/Wh | W/W  |               |              |                 |               |                |
| ARI (R-407A) | 230V ~ 60HZ  | 9679                   | 2441          | 2837     | 1744                 | 5.55           | 1.4            | 1.63 | -6.7°C (20°F) | 49°C (120°F) | 35°C (95°F)     | 4.4°C (40°F)  | 49°C (120°F)   |
| ARI (R-452A) | 230V ~ 60HZ  | 9551                   | 2408          | 2799     | 1896                 | 5.04           | 1.27           | 1.48 | -6.7°C (20°F) | 49°C (120°F) | 35°C (95°F)     | 4.4°C (40°F)  | 49°C (120°F)   |
| ARI (R-448A) | 230V ~ 60HZ  | 10053                  | 2535          | 2946     | 1804                 | 5.57           | 1.41           | 1.63 | -6.7°C (20°F) | 49°C (120°F) | 35°C (95°F)     | 4.4°C (40°F)  | 49°C (120°F)   |
| ARI (R-449A) | 230V ~ 60HZ  | 10053                  | 2535          | 2946     | 1804                 | 5.57           | 1.41           | 1.63 | -6.7°C (20°F) | 49°C (120°F) | 35°C (95°F)     | 4.4°C (40°F)  | 49°C (120°F)   |
| ARI (R-404A) | 230V ~ 60HZ  | 9350                   | 2356          | 2740     | 1840                 | 5.08           | 1.28           | 1.49 | -6.7°C (20°F) | 49°C (120°F) | 35°C (95°F)     | 4.4°C (40°F)  | 49°C (120°F)   |

**General**

**Evaporating Temp. Range:** -23.3°C to -1.1°C (-10°F to 30°F)  
**Motor Torque:** High Start Torque (HST)  
**Compressor Cooling:** Fan

**Mechanical**

**Weight:** 55  
**Weight Unit of Measure:** LB  
**Displacement (cc):** 32.678  
**Oil Type:** Polyolester  
**Viscosity (cSt):** 32  
**Oil Charge (cc):** 782

**Electrical**

**Voltage Range (50 Hz):** 180-220  
**Voltage Range (60 Hz):** 187-254  
**Locked Rotor Amps (LRA):** 54

|  |       |
|--|-------|
| Rated Load Amps (RLA 50 Hz):           | 0     |
| Rated Load Amps (RLA 60 Hz):           | 8.9   |
| Max. Continuous Current (MCC in Amps): | 14.4  |
| Motor Resistance (Ohm) - Main:         | 1.08  |
| Motor Resistance (Ohm) - Start:        | 2.552 |
| Motor Type:                            | CSR   |
| Overload Type:                         |       |
| Relay Type:                            |       |

#### Agency Approval

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cURus Recognized



# Performance Data Sheet

## AJA7494ZXD

### General

|            |                         |                   |             |
|------------|-------------------------|-------------------|-------------|
| Model      | AJA7494ZXD              | Unit of Measure   | Fahrenheit  |
| Condition  | ARI (R-404A)            | Voltage/Frequency | 230V ~ 60HZ |
| RETURN GAS | 4.4°C (40°F) RETURN GAS | Motor Type        | CSR         |

### Performance Information

| EVAP TEMP (°F) | Condensing Temperature (°F) |       |       |       |      |      |
|----------------|-----------------------------|-------|-------|-------|------|------|
|                |                             | 100   | 110   | 120   | 130  | 140  |
| -10            | Btu/h                       | 5480  | 4440  | 3490  | 2610 | 1750 |
|                | Watts                       | 1200  | 1170  | 1130  | 1070 | 994  |
|                | Amps                        | 6.29  | 6.23  | 6.09  | 5.84 | 5.45 |
|                | Lb/h                        | 108   | 95.8  | 85.6  | 73.4 | 55.1 |
| -5             | Btu/h                       | 6440  | 5340  | 4310  | 3330 | 2350 |
|                | Watts                       | 1300  | 1290  | 1260  | 1220 | 1160 |
|                | Amps                        | 6.68  | 6.67  | 6.59  | 6.40 | 6.08 |
|                | Lb/h                        | 129   | 116   | 105   | 91.7 | 71.7 |
| 0              | Btu/h                       | 7490  | 6320  | 5210  | 4110 | 3000 |
|                | Watts                       | 1400  | 1400  | 1390  | 1360 | 1310 |
|                | Amps                        | 7.05  | 7.09  | 7.07  | 6.94 | 6.68 |
|                | Lb/h                        | 152   | 138   | 127   | 112  | 91.0 |
| 5              | Btu/h                       | 8620  | 7380  | 6170  | 4950 | 3700 |
|                | Watts                       | 1490  | 1500  | 1510  | 1500 | 1460 |
|                | Amps                        | 7.40  | 7.50  | 7.53  | 7.47 | 7.27 |
|                | Lb/h                        | 175   | 162   | 150   | 135  | 113  |
| 10             | Btu/h                       | 9820  | 8500  | 7180  | 5840 | 4450 |
|                | Watts                       | 1570  | 1600  | 1620  | 1620 | 1610 |
|                | Amps                        | 7.74  | 7.90  | 7.99  | 7.99 | 7.85 |
|                | Lb/h                        | 200   | 188   | 176   | 160  | 138  |
| 15             | Btu/h                       | 11100 | 9670  | 8250  | 6770 | 5230 |
|                | Watts                       | 1660  | 1700  | 1730  | 1750 | 1750 |
|                | Amps                        | 8.09  | 8.29  | 8.44  | 8.50 | 8.43 |
|                | Lb/h                        | 227   | 215   | 203   | 188  | 165  |
| 20             | Btu/h                       | 12400 | 10900 | 9350  | 7740 | 6030 |
|                | Watts                       | 1740  | 1790  | 1840  | 1870 | 1880 |
|                | Amps                        | 8.44  | 8.69  | 8.90  | 9.02 | 9.01 |
|                | Lb/h                        | 254   | 243   | 233   | 218  | 195  |
| 25             | Btu/h                       | 13800 | 12200 | 10500 | 8730 | 6850 |
|                | Watts                       | 1820  | 1890  | 1950  | 1990 | 2020 |
|                | Amps                        | 8.80  | 9.11  | 9.37  | 9.55 | 9.61 |
|                | Lb/h                        | 283   | 274   | 264   | 250  | 227  |
| 30             | Btu/h                       | 15200 | 13400 | 11600 | 9730 | 7680 |
|                | Watts                       | 1900  | 1980  | 2050  | 2110 | 2150 |
|                | Amps                        | 9.18  | 9.54  | 9.86  | 10.1 | 10.2 |

|    |       |       |       |       |       |      |
|----|-------|-------|-------|-------|-------|------|
|    | Lb/h  | 313   | 306   | 297   | 284   | 263  |
| 35 | Btu/h | 16600 | 14800 | 12800 | 10700 | 8500 |
|    | Watts | 1980  | 2080  | 2160  | 2230  | 2290 |
|    | Amps  | 9.59  | 10.0  | 10.4  | 10.7  | 10.9 |
|    | Lb/h  | 345   | 339   | 333   | 321   | 300  |
| 40 | Btu/h | 18100 | 16100 | 14000 | 11800 | 9320 |
|    | Watts | 2070  | 2170  | 2270  | 2360  | 2420 |
|    | Amps  | 10.0  | 10.5  | 10.9  | 11.3  | 11.5 |
|    | Lb/h  | 377   | 374   | 370   | 360   | 341  |

| COEFFICIENTS | CAPACITY      | POWER         | CURRENT       | MASS FLOW     |
|--------------|---------------|---------------|---------------|---------------|
| C1           | 2.959548E+04  | 1.827322E+03  | 1.038757E+01  | 1.261044E+03  |
| C2           | 1.225511E+02  | -7.480605E+00 | 5.940555E-03  | 1.260489E+00  |
| C3           | -3.775919E+02 | -1.713218E+01 | -1.310837E-01 | -2.747383E+01 |
| C4           | 3.115015E+00  | -4.938388E-02 | -2.275991E-04 | -4.275088E-02 |
| C5           | 3.104302E+00  | 2.326674E-01  | 2.767673E-04  | 6.654252E-02  |
| C6           | 2.129640E+00  | 2.086280E-01  | 1.550714E-03  | 2.319448E-01  |
| C7           | -1.102945E-02 | 1.638646E-03  | 9.095248E-06  | -1.281670E-05 |
| C8           | -1.514122E-02 | -6.230709E-04 | -6.783809E-07 | 6.880527E-04  |
| C9           | -2.148954E-02 | 2.769118E-04  | 3.810538E-06  | -3.292771E-04 |
| C10          | -5.639253E-03 | -8.030630E-04 | -5.739270E-06 | -6.814257E-04 |

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature



# Performance Data Sheet

## AJA7494ZXD

### General

|            |                         |                   |            |
|------------|-------------------------|-------------------|------------|
| Model      | AJA7494ZXD              | Unit of Measure   | Fahrenheit |
| Condition  | ARI (R-407A)            | Voltage/Frequency | 220V~60HZ  |
| RETURN GAS | 4.4°C (40°F) RETURN GAS | MotorType         | CSR        |

### Performance Information

| EVAP TEMP (°F) | Condensing Temperature (°F) |       |       |       |       |       |      |
|----------------|-----------------------------|-------|-------|-------|-------|-------|------|
|                |                             | 90    | 100   | 110   | 120   | 130   | 140  |
| -10            | Btu/h                       | 6890  | 5680  |       |       |       |      |
|                | Watts                       | 1160  | 1140  |       |       |       |      |
|                | Amps                        | 6.17  | 6.15  |       |       |       |      |
|                | Lb/h                        | 90.3  | 77.1  |       |       |       |      |
| -5             | Btu/h                       | 7930  | 6670  | 5530  |       |       |      |
|                | Watts                       | 1240  | 1230  | 1220  |       |       |      |
|                | Amps                        | 6.50  | 6.53  | 6.52  |       |       |      |
|                | Lb/h                        | 106   | 92.2  | 83.0  |       |       |      |
| 0              | Btu/h                       | 9060  | 7760  | 6550  | 5390  |       |      |
|                | Watts                       | 1320  | 1320  | 1330  | 1320  |       |      |
|                | Amps                        | 6.81  | 6.89  | 6.93  | 6.91  |       |      |
|                | Lb/h                        | 122   | 108   | 98.8  | 90.4  |       |      |
| 5              | Btu/h                       | 10300 | 8930  | 7640  | 6380  | 5130  |      |
|                | Watts                       | 1390  | 1410  | 1420  | 1430  | 1420  |      |
|                | Amps                        | 7.11  | 7.23  | 7.33  | 7.36  | 7.30  |      |
|                | Lb/h                        | 138   | 125   | 116   | 107   | 96.4  |      |
| 10             | Btu/h                       | 11600 | 10200 | 8800  | 7430  | 6050  |      |
|                | Watts                       | 1460  | 1490  | 1520  | 1540  | 1540  |      |
|                | Amps                        | 7.39  | 7.57  | 7.72  | 7.81  | 7.81  |      |
|                | Lb/h                        | 156   | 143   | 134   | 125   | 114   |      |
| 15             | Btu/h                       | 13000 | 11500 | 10000 | 8540  | 7010  | 5410 |
|                | Watts                       | 1520  | 1570  | 1610  | 1640  | 1660  | 1660 |
|                | Amps                        | 7.68  | 7.91  | 8.11  | 8.25  | 8.31  | 8.24 |
|                | Lb/h                        | 174   | 162   | 153   | 145   | 134   | 118  |
| 20             | Btu/h                       | 14400 | 12800 | 11300 | 9680  | 8010  | 6240 |
|                | Watts                       | 1590  | 1650  | 1700  | 1740  | 1770  | 1790 |
|                | Amps                        | 7.98  | 8.25  | 8.50  | 8.70  | 8.81  | 8.81 |
|                | Lb/h                        | 192   | 182   | 174   | 166   | 155   | 139  |
| 25             | Btu/h                       | 15900 | 14300 | 12600 | 10900 | 9030  | 7090 |
|                | Watts                       | 1650  | 1720  | 1790  | 1850  | 1890  | 1910 |
|                | Amps                        | 8.28  | 8.60  | 8.90  | 9.16  | 9.33  | 9.39 |
|                | Lb/h                        | 212   | 202   | 195   | 188   | 178   | 162  |
| 30             | Btu/h                       | 17500 | 15700 | 13900 | 12100 | 10100 | 7950 |
|                | Watts                       | 1720  | 1800  | 1880  | 1950  | 2000  | 2040 |
|                | Amps                        | 8.61  | 8.97  | 9.33  | 9.64  | 9.87  | 9.99 |

|  |      |     |     |     |     |     |     |
|--|------|-----|-----|-----|-----|-----|-----|
|  | Lb/h | 232 | 224 | 218 | 212 | 203 | 187 |
|--|------|-----|-----|-----|-----|-----|-----|

| COEFFICIENTS | CAPACITY      | POWER         | CURRENT       | MASS FLOW     |
|--------------|---------------|---------------|---------------|---------------|
| C1           | 3.063664E+04  | 1.732331E+03  | 1.015414E+01  | 8.996710E+02  |
| C2           | 1.268624E+02  | -7.091736E+00 | 5.807059E-03  | 8.992750E-01  |
| C3           | -3.908755E+02 | -1.624159E+01 | -1.281380E-01 | -1.960075E+01 |
| C4           | 3.224600E+00  | -4.681672E-02 | -2.224845E-04 | -3.049991E-02 |
| C5           | 3.213510E+00  | 2.205725E-01  | 2.705478E-04  | 4.747366E-02  |
| C6           | 2.204560E+00  | 1.977827E-01  | 1.515866E-03  | 1.654772E-01  |
| C7           | -1.141746E-02 | 1.553463E-03  | 8.890860E-06  | -9.143863E-06 |
| C8           | -1.567388E-02 | -5.906814E-04 | -6.631364E-07 | 4.908798E-04  |
| C9           | -2.224554E-02 | 2.625169E-04  | 3.724908E-06  | -2.349173E-04 |
| C10          | -5.837640E-03 | -7.613168E-04 | -5.610298E-06 | -4.861519E-04 |

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature



# Performance Data Sheet

## AJA7494ZXD

### General

|            |                         |                   |            |
|------------|-------------------------|-------------------|------------|
| Model      | AJA7494ZXD              | Unit of Measure   | Fahrenheit |
| Condition  | ARI (R-448A)            | Voltage/Frequency | 220V~60HZ  |
| RETURN GAS | 4.4°C (40°F) RETURN GAS | MotorType         | CSR        |

### Performance Information

| EVAP TEMP (°F) | Condensing Temperature (°F) |       |       |       |       |       |      |
|----------------|-----------------------------|-------|-------|-------|-------|-------|------|
|                |                             | 90    | 100   | 110   | 120   | 130   | 140  |
| -10            | Btu/h                       | 7160  | 5900  |       |       |       |      |
|                | Watts                       | 1200  | 1180  |       |       |       |      |
|                | Amps                        | 6.24  | 6.22  |       |       |       |      |
|                | Lb/h                        | 92.7  | 79.2  |       |       |       |      |
| -5             | Btu/h                       | 8230  | 6930  | 5740  |       |       |      |
|                | Watts                       | 1280  | 1280  | 1260  |       |       |      |
|                | Amps                        | 6.58  | 6.60  | 6.60  |       |       |      |
|                | Lb/h                        | 108   | 94.7  | 85.2  |       |       |      |
| 0              | Btu/h                       | 9410  | 8060  | 6800  | 5600  |       |      |
|                | Watts                       | 1360  | 1370  | 1370  | 1360  |       |      |
|                | Amps                        | 6.89  | 6.97  | 7.01  | 6.99  |       |      |
|                | Lb/h                        | 125   | 111   | 101   | 92.8  |       |      |
| 5              | Btu/h                       | 10700 | 9270  | 7930  | 6630  | 5320  |      |
|                | Watts                       | 1440  | 1460  | 1470  | 1480  | 1470  |      |
|                | Amps                        | 7.19  | 7.32  | 7.41  | 7.45  | 7.39  |      |
|                | Lb/h                        | 142   | 129   | 119   | 110   | 99.0  |      |
| 10             | Btu/h                       | 12000 | 10600 | 9140  | 7720  | 6280  |      |
|                | Watts                       | 1510  | 1540  | 1570  | 1590  | 1590  |      |
|                | Amps                        | 7.48  | 7.66  | 7.81  | 7.90  | 7.90  |      |
|                | Lb/h                        | 160   | 147   | 138   | 129   | 118   |      |
| 15             | Btu/h                       | 13500 | 11900 | 10400 | 8870  | 7280  | 5620 |
|                | Watts                       | 1580  | 1620  | 1670  | 1700  | 1710  | 1710 |
|                | Amps                        | 7.77  | 8.00  | 8.20  | 8.35  | 8.40  | 8.34 |
|                | Lb/h                        | 178   | 166   | 157   | 149   | 138   | 121  |
| 20             | Btu/h                       | 15000 | 13300 | 11700 | 10100 | 8320  | 6480 |
|                | Watts                       | 1640  | 1700  | 1760  | 1800  | 1830  | 1850 |
|                | Amps                        | 8.07  | 8.34  | 8.60  | 8.80  | 8.92  | 8.91 |
|                | Lb/h                        | 198   | 186   | 178   | 170   | 160   | 143  |
| 25             | Btu/h                       | 16500 | 14800 | 13100 | 11300 | 9380  | 7360 |
|                | Watts                       | 1710  | 1780  | 1850  | 1910  | 1950  | 1980 |
|                | Amps                        | 8.38  | 8.70  | 9.01  | 9.26  | 9.44  | 9.50 |
|                | Lb/h                        | 217   | 208   | 201   | 193   | 183   | 167  |
| 30             | Btu/h                       | 18100 | 16300 | 14500 | 12500 | 10500 | 8250 |
|                | Watts                       | 1770  | 1860  | 1940  | 2010  | 2070  | 2110 |
|                | Amps                        | 8.71  | 9.08  | 9.43  | 9.75  | 9.98  | 10.1 |

|  |      |     |     |     |     |     |     |
|--|------|-----|-----|-----|-----|-----|-----|
|  | Lb/h | 238 | 230 | 224 | 218 | 208 | 192 |
|--|------|-----|-----|-----|-----|-----|-----|

| COEFFICIENTS | CAPACITY      | POWER         | CURRENT       | MASS FLOW     |
|--------------|---------------|---------------|---------------|---------------|
| C1           | 3.182122E+04  | 1.791143E+03  | 1.027086E+01  | 9.241342E+02  |
| C2           | 1.317676E+02  | -7.332497E+00 | 5.873807E-03  | 9.237275E-01  |
| C3           | -4.059888E+02 | -1.679298E+01 | -1.296108E-01 | -2.013372E+01 |
| C4           | 3.349281E+00  | -4.840613E-02 | -2.250418E-04 | -3.132924E-02 |
| C5           | 3.337762E+00  | 2.280608E-01  | 2.736576E-04  | 4.876453E-02  |
| C6           | 2.289800E+00  | 2.044974E-01  | 1.533290E-03  | 1.699767E-01  |
| C7           | -1.185892E-02 | 1.606203E-03  | 8.993054E-06  | -9.392496E-06 |
| C8           | -1.627992E-02 | -6.107348E-04 | -6.707586E-07 | 5.042275E-04  |
| C9           | -2.310567E-02 | 2.714292E-04  | 3.767723E-06  | -2.413050E-04 |
| C10          | -6.063355E-03 | -7.871632E-04 | -5.674784E-06 | -4.993710E-04 |

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature



# Performance Data Sheet

## AJA7494ZXD

### General

|            |                         |                   |            |
|------------|-------------------------|-------------------|------------|
| Model      | AJA7494ZXD              | Unit of Measure   | Fahrenheit |
| Condition  | ARI (R-449A)            | Voltage/Frequency | 220V~60HZ  |
| RETURN GAS | 4.4°C (40°F) RETURN GAS | MotorType         | CSR        |

### Performance Information

| EVAP TEMP (°F) | Condensing Temperature (°F) |       |       |       |       |       |      |
|----------------|-----------------------------|-------|-------|-------|-------|-------|------|
|                |                             | 90    | 100   | 110   | 120   | 130   | 140  |
| -10            | Btu/h                       | 7160  | 5900  |       |       |       |      |
|                | Watts                       | 1200  | 1180  |       |       |       |      |
|                | Amps                        | 6.24  | 6.22  |       |       |       |      |
|                | Lb/h                        | 92.7  | 79.2  |       |       |       |      |
| -5             | Btu/h                       | 8230  | 6930  | 5740  |       |       |      |
|                | Watts                       | 1280  | 1280  | 1260  |       |       |      |
|                | Amps                        | 6.58  | 6.60  | 6.60  |       |       |      |
|                | Lb/h                        | 108   | 94.7  | 85.2  |       |       |      |
| 0              | Btu/h                       | 9410  | 8060  | 6800  | 5600  |       |      |
|                | Watts                       | 1360  | 1370  | 1370  | 1360  |       |      |
|                | Amps                        | 6.89  | 6.97  | 7.01  | 6.99  |       |      |
|                | Lb/h                        | 125   | 111   | 101   | 92.8  |       |      |
| 5              | Btu/h                       | 10700 | 9270  | 7930  | 6630  | 5320  |      |
|                | Watts                       | 1440  | 1460  | 1470  | 1480  | 1470  |      |
|                | Amps                        | 7.19  | 7.32  | 7.41  | 7.45  | 7.39  |      |
|                | Lb/h                        | 142   | 129   | 119   | 110   | 99.0  |      |
| 10             | Btu/h                       | 12000 | 10600 | 9140  | 7720  | 6280  |      |
|                | Watts                       | 1510  | 1540  | 1570  | 1590  | 1590  |      |
|                | Amps                        | 7.48  | 7.66  | 7.81  | 7.90  | 7.90  |      |
|                | Lb/h                        | 160   | 147   | 138   | 129   | 118   |      |
| 15             | Btu/h                       | 13500 | 11900 | 10400 | 8870  | 7280  | 5620 |
|                | Watts                       | 1580  | 1620  | 1670  | 1700  | 1710  | 1710 |
|                | Amps                        | 7.77  | 8.00  | 8.20  | 8.35  | 8.40  | 8.34 |
|                | Lb/h                        | 178   | 166   | 157   | 149   | 138   | 121  |
| 20             | Btu/h                       | 15000 | 13300 | 11700 | 10100 | 8320  | 6480 |
|                | Watts                       | 1640  | 1700  | 1760  | 1800  | 1830  | 1850 |
|                | Amps                        | 8.07  | 8.34  | 8.60  | 8.80  | 8.92  | 8.91 |
|                | Lb/h                        | 198   | 186   | 178   | 170   | 160   | 143  |
| 25             | Btu/h                       | 16500 | 14800 | 13100 | 11300 | 9380  | 7360 |
|                | Watts                       | 1710  | 1780  | 1850  | 1910  | 1950  | 1980 |
|                | Amps                        | 8.38  | 8.70  | 9.01  | 9.26  | 9.44  | 9.50 |
|                | Lb/h                        | 217   | 208   | 201   | 193   | 183   | 167  |
| 30             | Btu/h                       | 18100 | 16300 | 14500 | 12500 | 10500 | 8250 |
|                | Watts                       | 1770  | 1860  | 1940  | 2010  | 2070  | 2110 |
|                | Amps                        | 8.71  | 9.08  | 9.43  | 9.75  | 9.98  | 10.1 |

|  |      |     |     |     |     |     |     |
|--|------|-----|-----|-----|-----|-----|-----|
|  | Lb/h | 238 | 230 | 224 | 218 | 208 | 192 |
|--|------|-----|-----|-----|-----|-----|-----|

| COEFFICIENTS | CAPACITY      | POWER         | CURRENT       | MASS FLOW     |
|--------------|---------------|---------------|---------------|---------------|
| C1           | 3.182122E+04  | 1.791143E+03  | 1.027086E+01  | 9.241342E+02  |
| C2           | 1.317676E+02  | -7.332497E+00 | 5.873807E-03  | 9.237275E-01  |
| C3           | -4.059888E+02 | -1.679298E+01 | -1.296108E-01 | -2.013372E+01 |
| C4           | 3.349281E+00  | -4.840613E-02 | -2.250418E-04 | -3.132924E-02 |
| C5           | 3.337762E+00  | 2.280608E-01  | 2.736576E-04  | 4.876453E-02  |
| C6           | 2.289800E+00  | 2.044974E-01  | 1.533290E-03  | 1.699767E-01  |
| C7           | -1.185892E-02 | 1.606203E-03  | 8.993054E-06  | -9.392496E-06 |
| C8           | -1.627992E-02 | -6.107348E-04 | -6.707586E-07 | 5.042275E-04  |
| C9           | -2.310567E-02 | 2.714292E-04  | 3.767723E-06  | -2.413050E-04 |
| C10          | -6.063355E-03 | -7.871632E-04 | -5.674784E-06 | -4.993710E-04 |

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature



# Performance Data Sheet

## AJA7494ZXD

### General

|            |                         |                   |            |
|------------|-------------------------|-------------------|------------|
| Model      | AJA7494ZXD              | Unit of Measure   | Fahrenheit |
| Condition  | ARI (R-452A)            | Voltage/Frequency | 220V~60HZ  |
| RETURN GAS | 4.4°C (40°F) RETURN GAS | MotorType         | CSR        |

### Performance Information

| EVAP TEMP (°F) | Condensing Temperature (°F) |       |       |       |       |      |      |
|----------------|-----------------------------|-------|-------|-------|-------|------|------|
|                |                             | 90    | 100   | 110   | 120   | 130  | 140  |
| -10            | Btu/h                       | 6800  | 5600  |       |       |      |      |
|                | Watts                       | 1260  | 1240  |       |       |      |      |
|                | Amps                        | 6.60  | 6.57  |       |       |      |      |
|                | Lb/h                        | 120   | 102   |       |       |      |      |
| -5             | Btu/h                       | 7820  | 6580  | 5460  |       |      |      |
|                | Watts                       | 1350  | 1340  | 1330  |       |      |      |
|                | Amps                        | 6.95  | 6.98  | 6.97  |       |      |      |
|                | Lb/h                        | 140   | 122   | 110   |       |      |      |
| 0              | Btu/h                       | 8940  | 7650  | 6460  | 5320  |      |      |
|                | Watts                       | 1430  | 1440  | 1440  | 1430  |      |      |
|                | Amps                        | 7.28  | 7.36  | 7.41  | 7.39  |      |      |
|                | Lb/h                        | 161   | 144   | 131   | 120   |      |      |
| 5              | Btu/h                       | 10100 | 8810  | 7540  | 6300  | 5060 |      |
|                | Watts                       | 1510  | 1530  | 1550  | 1550  | 1540 |      |
|                | Amps                        | 7.60  | 7.73  | 7.84  | 7.87  | 7.81 |      |
|                | Lb/h                        | 184   | 166   | 154   | 142   | 128  |      |
| 10             | Btu/h                       | 11400 | 10000 | 8680  | 7340  | 5970 |      |
|                | Watts                       | 1590  | 1620  | 1650  | 1670  | 1670 |      |
|                | Amps                        | 7.90  | 8.09  | 8.25  | 8.35  | 8.34 |      |
|                | Lb/h                        | 207   | 190   | 178   | 166   | 152  |      |
| 15             | Btu/h                       | 12800 | 11300 | 9880  | 8420  | 6920 | 5340 |
|                | Watts                       | 1660  | 1710  | 1750  | 1790  | 1800 | 1800 |
|                | Amps                        | 8.21  | 8.45  | 8.67  | 8.82  | 8.88 | 8.81 |
|                | Lb/h                        | 231   | 215   | 204   | 192   | 178  | 156  |
| 20             | Btu/h                       | 14200 | 12700 | 11100 | 9550  | 7910 | 6160 |
|                | Watts                       | 1730  | 1790  | 1850  | 1900  | 1930 | 1940 |
|                | Amps                        | 8.53  | 8.82  | 9.09  | 9.30  | 9.42 | 9.42 |
|                | Lb/h                        | 255   | 241   | 231   | 220   | 206  | 185  |
| 25             | Btu/h                       | 15700 | 14100 | 12400 | 10700 | 8920 | 7000 |
|                | Watts                       | 1800  | 1870  | 1940  | 2010  | 2050 | 2080 |
|                | Amps                        | 8.85  | 9.19  | 9.52  | 9.79  | 9.98 | 10.0 |
|                | Lb/h                        | 281   | 268   | 259   | 250   | 237  | 215  |
| 30             | Btu/h                       | 17200 | 15500 | 13700 | 11900 | 9940 | 7840 |
|                | Watts                       | 1870  | 1960  | 2040  | 2120  | 2180 | 2220 |
|                | Amps                        | 9.20  | 9.59  | 9.97  | 10.3  | 10.5 | 10.7 |

|  |      |     |     |     |     |     |     |
|--|------|-----|-----|-----|-----|-----|-----|
|  | Lb/h | 308 | 297 | 290 | 282 | 269 | 249 |
|--|------|-----|-----|-----|-----|-----|-----|

| COEFFICIENTS | CAPACITY      | POWER         | CURRENT       | MASS FLOW     |
|--------------|---------------|---------------|---------------|---------------|
| C1           | 3.023044E+04  | 1.883314E+03  | 1.085443E+01  | 1.194853E+03  |
| C2           | 1.251804E+02  | -7.709820E+00 | 6.207546E-03  | 1.194327E+00  |
| C3           | -3.856930E+02 | -1.765713E+01 | -1.369751E-01 | -2.603175E+01 |
| C4           | 3.181846E+00  | -5.089707E-02 | -2.378283E-04 | -4.050692E-02 |
| C5           | 3.170903E+00  | 2.397966E-01  | 2.892063E-04  | 6.304975E-02  |
| C6           | 2.175330E+00  | 2.150206E-01  | 1.620409E-03  | 2.197702E-01  |
| C7           | -1.126608E-02 | 1.688856E-03  | 9.504023E-06  | -1.214396E-05 |
| C8           | -1.546607E-02 | -6.421626E-04 | -7.088699E-07 | 6.519373E-04  |
| C9           | -2.195059E-02 | 2.853967E-04  | 3.981798E-06  | -3.119936E-04 |
| C10          | -5.760241E-03 | -8.276699E-04 | -5.997215E-06 | -6.456582E-04 |

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature