



Refrigeration Product Catalogue

Copeland[®]
brand products


EMERSON[™]
Climate Technologies

EMERSON. CONSIDER IT SOLVED.™

Copeland Corporation was established in 1921 in Detroit City, Michigan State, U.S.A. For more than 80 years, it has been our endeavour to bring cutting-edge products to create a healthy environment and safeguard food.

A Brief Timeline of Achievements:

- * First household refrigerator in the world, in 1921;
- * First semi-hermetic compressor in the world, in 1941;
- * First semi-hermetic compressor with butterfly valve in the world, in 1979;
- * First scroll compressor with dual compliance, in 1987;
- * First digital scroll compressor in the world, in 1996;
- * First commercial large horse power scroll compressor in the world, in 2001;
- * First electronic-display scroll compressor-condensing unit in the world, in 2002;
- * First digital scroll heating in the world, in 2004;
- * First vapor injection low temperature condensing unit in the world, in 2009;
- * First heat pump compressor in the world, in 2009;
- * First digital scroll compressor-condensing unit in the world, in 2009



Today, Emerson Climate Technologies continues to lead the global industry of refrigeration and air-conditioning compressors- with annual sales of over 2 billion dollars, technical service network spanning 120 countries and the largest compressor R&D centre in the world. Our global customers include highly reputed refrigeration and air-conditioning equipment manufacturers, supermarket chains, fast-food chains, hospitals, restaurants, laboratories, factories and schools. We constantly endeavour to provide you with high-quality compressors and after-sales service.

The introduction of scroll compressor in 1987 has revolutionized the refrigeration industry. The scroll compressor has several unique advantages: high energy-efficiency ratio, low noise level, high reliability and running cost. This revolutionary technology is being successfully used by manufacturers, dealers and end-users. To date, the number of scroll compressors manufactured by Emerson Climate Technologies has crossed the 80-million mark.

Scroll compressors have been successfully used in the air-conditioning industry, and the future of refrigeration belongs to the scroll compressor.

All specifications are subject to change without notice



L Series Semi-Hermetic Compressor

| MODEL | LA10-0200 LA10-020E | LA20-0200 LA20-020E | LA20-0300 LA20-030E | LA40-0300 LA40-030E | LA40-0400 LA40-040E | LA50-0400 LA50-040E |
|--|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Motor Type (50/60 Hz) | EWL/EWK | EWL/EWK | EWL/EWK | EWL/EWK | EWL/EWK | EWL/EWK |
| Displacement(m ³ /hr) (50 Hz) | 9.9 | 12.9 | 12.9 | 18.2 | 18.2 | 22.5 |
| Displacement(m ³ /hr) (60 Hz) | 11.9 | 15.6 | 15.6 | 21.9 | 21.9 | - |
| Application Condition | | | | | | |
| R22 | HT/MT/LT | LT | HT/MT/LT | LT | HT/MT/LT | LT |
| R404A/R507 | HT/MT/LT | LT | HT/MT/LT | LT | HT/MT/LT | LT |
| R134a | HT/MT | HT/MT | - | HT/MT | - | HT/MT |
| Capacity (kW) (50 Hz) | | | | | | |
| R22 (HT/MT/LT) | 8.5/5.6/1.6 | -/-/2.3 | 11.4/7.8/2.2 | -/-/3.5 | 16.1/11.2/3.5 | -/-/4.8 |
| R404A/R507 (HT/MT/LT) | 8.2/5.7/1.7 | -/-/2.3 | 11.3/8.0/2.6 | -/-/3.7 | 16.6/11.5/3.7 | -/-/4.8 |
| R134a (HT/MT/LT) | 5.1/3.3/- | 6.9/4.4/- | -/-/- | 10.1/6.4/- | -/-/- | 12.8/8.3/- |
| Capacity (kW) (60 Hz) | | | | | | |
| R22 (HT/MT/LT) | 10.0/6.6/1.8 | -/-/2.7 | 13.5/9.2/2.7 | -/-/4.1 | 19.0/13.2/4.1 | -/-/- |
| R404A/R507 (HT/MT/LT) | 9.6/6.7/2.0 | -/-/2.7 | 13.4/9.4/3.1 | -/-/4.4 | -/13.5/4.4 | -/-/- |
| R134a (HT/MT/LT) | 6.0/3.8/- | 8.1/5.2/- | -/-/- | 11.9/7.6/- | -/-/- | -/-/- |
| Nominal HP (HP) | 2 | 2 | 3 | 3 | 4 | 4 |
| Connection Tube size (mm) | | | | | | |
| Suction line (Ø) | 22 | 22 | 22 | 28 | 28 | 28 |
| Discharge line (Ø) | 15 | 15 | 15 | 15 | 15 | 15 |
| Dimension (mm) | | | | | | |
| Length (L) | 470 | 470 | 470 | 470 | 470 | 470 |
| Width (W) | 330 | 330 | 330 | 330 | 330 | 330 |
| Height (without fan) (H) | 385 | 385 | 385 | 385 | 385 | 385 |
| Mounting Dimensions | 295 x 279 | 295 x 279 | 295 x 279 | 295 x 279 | 295 x 279 | 295 x 279 |
| Mounting hole dia | 22 | 22 | 22 | 22 | 22 | 22 |
| Weight (Kg) | | | | | | |
| Net | 77 | 76 | 79 | 78 | 80 | 81 |
| Gross | 85 | 84 | 87 | 86 | 88 | 89 |
| | Evap °C | Cond °C | RGT °C | Subcooling K | | |
| HT Condition | 7 | 50 | 20 | 0 | | |
| MT Condition | -5 | 45 | 20 | 0 | | |
| LT Condition | -30 | 40 | 20 | 0 | | |



S Series Semi-Hermetic Compressor

2S,3S series

| MODEL | 2SCW-0550 2SCW-055E | 2SCW-0550 Air | 2SKW-0750 2SKW-075E | 3SC1-1000 3SC1-100E | 3SCH-1000 3SCH-100E | 3SS1-1500 3SS1-150E | 3SSH-1500 3SSH-150E |
|--|------------------------|---------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Motor Type (50/60 Hz) | EWL/EWK | EWL/EWK | EWL/EWK | EWK/TFD | EWK/TFD | EWK/TFD | EWK/TFD |
| Displacement(m ³ /hr) (50 Hz) | 26.8 | 26.8 | 31.2 | 38.0 | 38.0 | 49.9 | 49.9 |
| Displacement(m ³ /hr) (60 Hz) | 32.3 | 32.3 | 37.6 | 45.6 | 45.6 | 59.9 | 59.9 |
| Application Condition | | | | | | | |
| R22 | MT/LT | LT | MT/LT | MT/LT | HT/MT | MT/LT | HT/MT |
| R404A/R507 | MT/LT | - | MT/LT | MT/LT | HT/MT/LT | MT/LT | HT/MT/LT |
| R134a | HT/MT | - | HT/MT | HT/MT | - | HT/MT | - |
| R407C | - | - | - | - | - | - | - |
| Capacity (kW) (50 Hz) | | | | | | | |
| R22 (HT/MT/LT) | -/15.8/4.2 | -/15.4 | -/18.5/5.5 | -/22.3/6.7 | 32.5/21.5/ | -/29.4/9.2 | 43.5/29.4/- |
| R404A/R507 (HT/MT/LT) | -/16.4/5.5 | -/16.4 | -/18.1/6.2 | -/22.5/7.5 | 32.2/23.1/8.0 | -/29.7/10.8 | 43.8/31.4/11.4 |
| R134a (HT/MT/LT) | 18.6/9.9/- | -/18.6 | 21.2/11.2/- | 20.6/13.2/- | -/13.2 | 26.8/17.4/- | -/13.2 |
| R407C (HT/MT/LT) | -/13.2 | -/13.2 | -/13.2 | -/13.2 | -/13.2 | -/13.2 | -/13.2 |
| Capacity (kW) (60 Hz) | | | | | | | |
| R22 (HT/MT/LT) | -/18.7/4.9 | -/18.7 | -/21.8/6.5 | -/26.3/7.9 | 38.3/25.4/- | -/34.7/10.9 | 51.3/34.7/- |
| R404A/R507 (HT/MT/LT) | -/19.4/6.5 | -/19.4 | -/23.0/7.9 | -/26.6/8.9 | 38.0/27.3/9.4 | -/35.1/12.8 | 51.7/37.1/13.4 |
| R134a (HT/MT/LT) | 22.3/11.9/- | -/11.9 | 25.4/13.4/- | 24.7/15.8/- | -/15.8 | 32.2/20.9/- | -/15.8 |
| R407C (HT/MT/LT) | -/15.8 | -/15.8 | -/15.8 | -/15.8 | -/15.8 | -/15.8 | -/15.8 |
| Nominal HP (HP) | | | | | | | |
| | 5.5 | 5.5 | 7.5 | 10 | 10 | 15 | 15 |
| Connection Tube size (inch) | | | | | | | |
| Suction line (Ø) | 1 1/8 | 1 1/8 | 1 1/8 | 1 3/8 | 1 3/8 | 1 5/8 | 1 5/8 |
| Discharge line (Ø) | 7/8 | 7/8 | 7/8 | 1 1/8 | 1 1/8 | 1 1/8 | 1 1/8 |
| Dimension (mm) | | | | | | | |
| Length (L) | 553 | 553 | 553 | 653 | 553 | 680 | 710 |
| Width (W) | 330 | 330 | 330 | 370 | 330 | 370 | 370 |
| Height (without fan) (H) | 395 | 395 | 395 | 443 | 395 | 443 | 443 |
| Mounting Dimensions | 295 X 279 | 295 X 279 | 295 X 279 | 381 X 305 | 295 X 279 | 381 X 305 | 381 X 305 |
| Mounting hole dia | 22.0 | 22.0 | 22.0 | 25.4 | 25.4 | 25.4 | 25.4 |
| Weight (Kg) | | | | | | | |
| Net | 91 | 91 | 92 | 157 | 157 | 169 | 162 |
| Gross | 100 | 100 | 101 | 175 | 175 | 187 | 180 |

4S series

| MODEL | 4SLW-1500 4SLW-150E | 4STW-2000 4STW-200E | 4SAH-2000 4SAH-200E | 4SHH-2500 4SHH-250E | 4SJH-3000 4SJH-300E |
|--|------------------------|------------------------|------------------------|------------------------|------------------------|
| Motor Type (50/60 Hz) | AWM/EWK/AWD | AWM/EWK/AWD | AWM/EWK/AWD | AWM/EWK/AWD | AWM/EWK/AWD |
| Displacement(m ³ /hr) (50 Hz) | 70.8 | 84.7 | 56.0 | 70.8 | 84.7 |
| Displacement(m ³ /hr) (60 Hz) | 85.0 | 101.6 | 67.2 | 85.0 | 101.6 |
| Application Condition | | | | | |
| R22 | MT/LT | MT/LT | HT/MT | HT/MT | HT/MT |
| R404A/R507 | MT/LT | MT/LT | HT/MT | HT/MT | HT/MT |
| R134a | - | - | - | - | - |
| R407C | - | - | HT/MT | HT/MT | HT/MT |
| Capacity (kW) (50 Hz) | | | | | |
| R22 (HT/MT/LT) | -/41.1/13.0 | -/48.3/15.1 | 49.6/33.6/- | 63.9/43.1/- | 75.5/50.5/- |
| R404A/R507 (HT/MT/LT) | -/44.3/15.9 | -/52.7/19.2 | 47.8/33.8/- | 60.4/43.0/- | 71.5/52.0/- |
| R134a (HT/MT/LT) | -/13.0 | -/13.0 | -/13.0 | -/13.0 | -/13.0 |
| R407C (HT/MT/LT) | -/13.0 | -/13.0 | 47.1/31.2/- | 58.8/38.9/- | 69.5/46.8/- |
| Capacity (kW) (60 Hz) | | | | | |
| R22 (HT/MT/LT) | -/48.5/15.4 | -/57.0/17.8 | 58.5/39.6/- | 75.4/50.9/- | 89.0/59.5/- |
| R404A/R507 (HT/MT/LT) | -/52.3/18.8 | -/62.1/22.6 | 56.4/39.9/- | 71.3/50.8/- | 84.4/61.4/- |
| R134a (HT/MT/LT) | -/18.8 | -/18.8 | -/18.8 | -/18.8 | -/18.8 |
| R407C (HT/MT/LT) | -/18.8 | -/18.8 | 55.5/36.9/- | 69.4/45.9/- | 83.0/54.7/- |
| Nominal HP (HP) | | | | | |
| | 15 | 20 | 20 | 25 | 30 |
| Connection Tube size (inch) | | | | | |
| Suction line (Ø) | 1 5/8 | 2 1/8 | 1 5/8 | 2 1/8 | 2 1/8 |
| Discharge line (Ø) | 1 1/8 | 1 3/8 | 1 1/8 | 1 1/8 | 1 3/8 |
| Dimension (mm) | | | | | |
| Length (L) | 680 | 725 | 650 | 670 | 690 |
| Width (W) | 485 | 490 | 485 | 490 | 515 |
| Height (without fan) (H) | 495 | 495 | 495 | 495 | 495 |
| Mounting Dimensions | 381 X 305 | 381 X 305 | 381 X 305 | 381 X 305 | 381 X 305 |
| Mounting hole dia | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 |
| Weight (Kg) | | | | | |
| Net | 180 | 192 | 183 | 194 | 210 |
| Gross | 207 | 219 | 210 | 221 | 237 |

Evap °C Cond °C RGT °C Subcooling K

| | | | | |
|--------------|-----|----|----|---|
| HT Condition | 7 | 50 | 20 | 0 |
| MT Condition | -5 | 45 | 20 | 0 |
| LT Condition | -30 | 40 | 20 | 0 |

| 6S series | | 6SLW-2500 6SLW-250E | 6STW-3200 6STW-320E | 6SHH-3500 6SHH-350E | 6SJH-4000 6SJH-400E | 6SUW-4000 6SUW-400E | 6SKH-5000 6SKH-500E |
|--|---------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Motor Type (50/60 Hz) | | AWM/EWK/AWD | AWM/EWK/AWD | AWM/EWK/AWD | AWM/EWK/AWD | AWM/EWK/AWD | AWM/EWK/AWD |
| Displacement(m ³ /hr) (50 Hz) | | 106.0 | 127.0 | 106.0 | 127.0 | 151.8 | 151.8 |
| Displacement(m ³ /hr) (60 Hz) | | 127.2 | 152.4 | 127.2 | 152.4 | 182.2 | 182.2 |
| Application Condition | | | | | | | |
| R22 | | MT/LT | MT/LT | HT/MT | HT/MT | MT/LT | HT/MT |
| R404A/R507 | | MT/LT | MT/LT | HT/MT | HT/MT | MT/LT | HT/MT |
| R134a | | - | - | - | - | - | - |
| R407C | | - | - | HT/MT | HT/MT | - | HT/MT |
| Capacity (kW) (50 Hz) | | | | | | | |
| R22 (HT/MT/LT) | | -/58.5/18.7 | -/69.0/21.8 | 90.8/62.0/- | 109.5/73.1/- | -/89.3/28.5 | 130.5/88.1/- |
| R404A/R507 (HT/MT/LT) | | -/63.0/23.4 | -/78.7/28.5 | 92.5/66.0/- | 105.5/76.4/- | -/92.7/35.0 | 124.5/89.3/- |
| R134a (HT/MT/LT) | | -/-/- | -/-/- | -/-/- | -/-/- | -/-/- | -/-/- |
| R407C (HT/MT/LT) | | -/-/- | -/-/- | 85.2/56.8/- | 103.5/69.3/- | -/-/- | 126.0/81.6/- |
| Capacity (kW) (60 Hz) | | | | | | | |
| R22 (HT/MT/LT) | | -/69.0/22.0 | -/81.5/25.8 | 107.0/73.1/- | 129.0/86.2/- | -/105.0/33.6 | 154.0/104.0/- |
| R404A/R507 (HT/MT/LT) | | -/74.3/27.6 | -/92.9/33.6 | 109.0/77.9/- | 124.5/90.2/- | -/109.5/41.3 | 147.0/105.5/- |
| R134a (HT/MT/LT) | | -/-/- | -/-/- | -/-/- | -/-/- | -/-/- | -/-/- |
| R407C (HT/MT/LT) | | -/-/- | -/-/- | 100.5/67.0/- | 124.0/81.0/- | -/-/- | 147.0/97.2/- |
| Nominal HP (HP) | | 25 | 32 | 35 | 40 | 40 | 50 |
| Connection Tube size (inch) | | | | | | | |
| Suction line (Ø) | | 2 1/8 | 1 3/8 | 2 1/8 | 2 1/8 | 2 5/8 | 2 5/8 |
| Discharge line (Ø) | | 1 3/8 | 2 1/8 | 1 3/8 | 1 3/8 | 1 5/8 | 1 5/8 |
| Dimension (mm) | | | | | | | |
| Length (L) | | 740 | 740 | 760 | 760 | 771 | 771 |
| Width (W) | | 540 | 540 | 540 | 565 | 570 | 570 |
| Height (without fan) (H) | | 490 | 545 | 490 | 545 | 540 | 540 |
| Mounting Dimensions | | 381 X 305 | 381 X 305 | 381 X 305 | 381 X 305 | 381 X 305 | 457 X 305 |
| Mounting hole dia | | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 |
| Weight (Kg) | | | | | | | |
| Net | | 210 | 234 | 224 | 252 | 265 | 268 |
| Gross | | 237 | 261 | 251 | 279 | 294 | 295 |
| | Evap °C | Cond °C | RGT °C | Subcooling K | | | |
| HT Condition | 7 | 50 | 20 | 0 | | | |
| MT Condition | -5 | 45 | 20 | 0 | | | |
| LT Condition | -30 | 40 | 20 | 0 | | | |



6T Series 2 Stage Semi-Hermetic Compressor

| MODEL | 6TAW-1500 6TAW-150E | 6THW-2000 6THW-200E | 6TJW-2500 6TJW-250E | 6TKW-3000 6TKW-300E |
|--|------------------------|------------------------|------------------------|------------------------|
| Motor Type (50/60 Hz) | AWM/AWD/EWK | AWM/AWD/EWK | AWM/AWD/EWK | AWM/AWD/EWK |
| Displacement LP/HP(m ³ /hr) (50 Hz) | 56.0/28.0 | 70.8/35.4 | 84.7/42.4 | 101.2/50.6 |
| Displacement LP/HP(m ³ /hr) (60 Hz) | 67.6/33.8 | 85.5/42.7 | 102.2/51.1 | 122.1/61.1 |
| Application Condition | | | | |
| R22 | UT/LT | UT/LT | UT/LT | UT/LT |
| R404A/R507 | UT/LT | UT/LT | UT/LT | UT/LT |
| Capacity (kW) (50 Hz) | | | | |
| R22 (UT/LT) | 12.0/18.4 | 15.0/23.0 | 17.5/26.7 | 21.7/33.1 |
| R404A/R507 (UT/LT) | 15.5/22.3 | 19.1/27.6 | 22.5/32.4 | 26.7/38.5 |
| Capacity (kW) (60 Hz) | | | | |
| R22 (UT/LT) | 14.2/21.7 | 17.8/27.2 | 20.6/31.5 | 24.7/37.8 |
| R404A/R507 (UT/LT) | 18.3/26.3 | 22.6/32.5 | 26.6/38.3 | 30.8/44.3 |
| Nominal HP (HP) | 15 | 20 | 25 | 30 |
| Connection Tube size (inch) | | | | |
| Suction line (Ø) | 1 5/8 | 1 5/8 | 1 5/8 | 1 5/8 |
| Discharge line (Ø) | 1 3/8 | 1 3/8 | 1 3/8 | 1 3/8 |
| Dimension (mm) | | | | |
| Length (L) | 903 | 903 | 903 | 962 |
| Width (W) | 602 | 602 | 602 | 612 |
| Height (without fan) (H) | 569 | 569 | 619 | 619 |
| Mounting Dimensions | 381 X 305 | 381 X 305 | 381 X 305 | 381 X 305 |
| Mounting hole dia. (mm) | 25.5 | 25.5 | 25.5 | 25.5 |
| Weight (Kg) | | | | |
| Net | 224 | 227 | 247 | 268 |
| Gross | 254 | 257 | 277 | 300 |
| | Evap °C | Cond °C | RGT °C | Subcooling |
| UT Condition | -40 | 38 | 20 | 8.3K + intercooler |
| LT Condition | -30 | 40 | 20 | 8.3K + intercooler |



ZB Series Refrigeration Scroll Compressor

| MODEL | | ZB15KQ ZB15KQE | ZB19KQ ZB19KQE | ZB21KQ ZB21KQE | ZB26KQ ZB26KQE | ZB29KQ ZB29KQE | ZB38KQ ZB38KQE | ZB45KQ ZB45KQE |
|------------------------------------|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------|---------------------|
| Motor Type | (50/60 Hz) | PFJ/PFV/TF5/ TF7/TFD | PFJ/PFV/TF5/ TF7/TFD | PFJ/PFV/TF5/ TF7/TFD | PFJ/PFV/TF5/ TF7/TFD | PFJ/PFV/TF5/ TF7/TFD | TF5/TF7/TFD | TF5/TF7/TFD |
| Nominal HP (HP) | | 2 | 2.5 | 3 | 3.5 | 4 | 5 | 6 |
| Displacement(m ³ /hr) | (50 Hz) | 5.9 | 6.8 | 8.6 | 9.9 | 11.4 | 14.4 | 17.1 |
| Displacement(m ³ /hr) | (60 Hz) | 7.1 | 8.2 | 10.4 | 12.0 | 13.8 | 17.3 | 20.6 |
| Application Condition | | HT/MT | HT/MT | HT/MT | HT/MT | HT/MT | HT/MT | HT/MT |
| R22 | | HT/MT | HT/MT | HT/MT | HT/MT | HT/MT | HT/MT | HT/MT |
| R404A/R507 | | HT/MT | HT/MT | HT/MT | HT/MT | HT/MT | HT/MT | HT/MT |
| R134a | | HT/MT | HT/MT | HT/MT | HT/MT | HT/MT | HT/MT | HT/MT |
| Capacity 1 PH (kW) | (50 Hz) | | | | | | | |
| R22 | (HT/MT) | 5.9/4.1 | 6.8/4.7 | 8.6/5.9 | 10.0/6.8 | 11.7/8.1 | -/- | -/- |
| R404A/R507 | (HT/MT) | 5.7/4.2 | 6.6/4.9 | 8.5/6.2 | 9.6/6.7 | 11.2/8.2 | -/- | -/- |
| Capacity 3 PH (kW) | (50 Hz) | | | | | | | |
| R22 | (HT/MT) | 5.9/4.0 | 6.8/4.6 | 8.6/5.9 | 10.2/7.0 | 11.5/7.9 | 14.3/9.8 | 17.2/11.8 |
| R404A/R507 | (HT/MT) | 5.5/4.0 | 7.0/5.1 | 8.3/6.1 | 9.7/7.1 | 11.3/8.2 | 14.2/10.4 | 16.7/12.1 |
| R134a | (HT/MT) | 4.0/2.6 | 4.5/3.0 | 5.7/3.7 | 6.6/4.3 | 7.6/5.0 | 9.6/6.3 | 11.6/9.3 |
| Capacity 1 PH (kW) | (60 Hz) | | | | | | | |
| R22 | (HT/MT) | 7.2/4.9 | 8.3/5.6 | 10.4/7.1 | 12.0/8.2 | 14.2/9.8 | -/- | -/- |
| R404A/R507 | (HT/MT) | 6.8/5.0 | 8.6/6.3 | 10.2/7.5 | 11.9/8.7 | 13.6/9.9 | -/- | -/- |
| Capacity 3 PH (kW) | (60 Hz) | | | | | | | |
| R22 | (HT/MT) | 7.1/4.8 | 8.2/5.6 | 10.6/7.3 | 12.2/8.4 | 14.3/9.8 | 17.7/12.1 | 21.1/14.4 |
| R404A/R507 | (HT/MT) | 6.9/4.9 | 8.5/6.2 | 10.2/7.4 | 11.9/8.7 | 13.5/9.8 | 17.0/12.4 | 20.2/14.7 |
| R134a | (HT/MT) | 4.8/3.2 | 5.5/3.6 | 6.9/4.5 | 7.9/5.2 | 9.1/6.0 | 11.6/9.4 | 13.9/9.0 |
| Connection Tube size (inch) | | | | | | | | |
| Discharge line (Ø) | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| Suction line (Ø) | | 3/4 | 3/4 | 3/4 | 3/4 | 7/8 | 7/8 | 7/8 |
| Dimension (mm) | Length (L) | 242 | 242 | 243 | 243 | 242 | 242 | 242 |
| | Width (W) | 242 | 242 | 244 | 244 | 242 | 242 | 242 |
| | Height (without fan) (H) | 383 | 389 | 412 | 425 | 430 | 457 | 457 |
| | Mounting Dimensions | 190 x 190 | 190 x 190 | 190 x 190 | 190 x 190 | 190 x 190 | 190 x 190 | 190 x 190 |
| | Mounting hole dia | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |
| Weight (Kg) | Net | 23 | 25 | 27 | 28 | 33 | 38 | 40 |
| | Gross | 26 | 29 | 30 | 31 | 37 | 41 | 44 |
| MODEL | | ZB48KQ ZB48KQE | ZB58KQ ZB58KQE | ZB66KQ ZB66KQE | ZB76KQ ZB76KQE | ZB88KQ | ZB95KQ ZB95KQE | ZB114KQ ZB114KQE |
| Motor Type | (50/60 Hz) | TF5/TF7/TFD | TF5/TF7/TFD | TF5/TF7/TFD | TF5/TF7/TFD | TF5/TF7/TFD | TFD/TW5/TW7 | TFD/TW5/TW7 |
| Nominal HP (HP) | | 7 | 8 | 9 | 10 | 12 | 13 | 15 |
| Displacement(m ³ /hr) | (50 Hz) | 18.8 | 22.1 | 25.7 | 28.8 | 33.2 | 36.4 | 43.3 |
| Displacement(m ³ /hr) | (60 Hz) | 22.6 | 26.7 | 31.0 | 34.8 | 40.1 | 43.9 | 52.3 |
| Application Condition | | HT/MT | HT/MT | HT/MT | HT/MT | HT/MT | HT/MT | HT/MT |
| R22 | | HT/MT | HT/MT | HT/MT | HT/MT | HT/MT | HT/MT | HT/MT |
| R404A/R507 | | HT/MT | HT/MT | HT/MT | HT/MT | - | HT/MT | HT/MT |
| R134a | | HT/MT | HT/MT | HT/MT | HT/MT | - | - | - |
| Capacity 1 PH (kW) | (50 Hz) | | | | | | | |
| R22 | (HT/MT) | -/- | -/- | -/- | -/- | -/- | -/- | -/- |
| R404A/R507 | (HT/MT) | -/- | -/- | -/- | -/- | -/- | -/- | -/- |
| Capacity 3 PH (kW) | (50 Hz) | | | | | | | |
| R22 | (HT/MT) | 18.9/13.0 | 22.8/15.1 | 25.7/17.5 | 30.3/20.6 | 34.4/23.5 | 36.7/24.5 | 44.2/29.4 |
| R404A/R507 | (HT/MT) | 18.3/13.3 | 22.2/16.0 | 24.6/18.0 | 29.4/21.4 | -/- | 35.9/26.2 | 43.4/31.2 |
| R134a | (HT/MT) | 12.8/8.5 | 13.4/9.4 | 15.4/10.7 | 17.6/12.3 | -/- | -/- | -/- |
| Capacity 1 PH (kW) | (60 Hz) | | | | | | | |
| R22 | (HT/MT) | -/- | -/- | -/- | -/- | -/- | -/- | -/- |
| R404A/R507 | (HT/MT) | -/- | -/- | -/- | -/- | -/- | -/- | -/- |
| Capacity 3 PH (kW) | (60 Hz) | | | | | | | |
| R22 | (HT/MT) | 23.2/15.9 | 27.6/18.5 | 31.1/21.2 | 36.5/25.2 | 41.5/28.2 | 44.6/30.1 | 53.0/36.1 |
| R404A/R507 | (HT/MT) | 22.1/16.2 | 26.8/19.3 | 29.7/21.8 | 35.3/25.7 | -/- | 43.4/31.7 | 52.1/37.8 |
| R134a | (HT/MT) | 15.4/10.2 | 15.0/11.3 | 18.5/12.9 | 21.1/14.7 | -/- | -/- | -/- |
| Connection Tube size (inch) | | | | | | | | |
| Discharge line (Ø) | | 3/4 | 7/8 | 7/8 | 7/8 | 7/8 | 7/8 | 7/8 |
| Suction line (Ø) | | 7/8 | 1 1/8 | 1 3/8 | 1 3/8 | 1 3/8 | 1 3/8 | 1 3/8 |
| Dimension (mm) | Length (L) | 242 | 264 | 264 | 264 | 264 | 264 | 264 |
| | Width (W) | 242 | 284 | 284 | 284 | 284 | 285 | 285 |
| | Height (without fan) (H) | 457 | 477 | 546 | 546 | 546 | 552 | 553 |
| | Mounting Dimensions | 190 x 190 | 190 x 190 | 190 x 190 | 190 x 190 | 190 x 190 | 190 x 190 | 190 x 190 |
| | Mounting hole dia | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |
| Weight (Kg) | Net | 40 | 57 | 59 | 62 | 62 | 62 | 63 |
| | Gross | 44 | 60 | 62 | 65 | 65 | 65 | 66 |
| | Evap °C | Cond °C | Sub-cooling K | | | RGT °C | | SH |
| HT Condition | 7 | 50 | 0 | ZB15KQ-ZB88KQ | | 18.3 | ZB95KQ-ZB114KQ | 11K |
| MT Condition | -5 | 45 | 0 | ZB15KQE-ZB114KQE | | 18.3 | | |



ZX/ZXL Series

Outdoor-Style Scroll Condensing Units

| ZX medium temperature series | | ZX0200-TFD | ZX0300-TFD | ZX0400-TFD | ZX0500-TFD | ZX0600-TFD | ZX0750-TFD | ZX0760-TFD | |
|--|-------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| MODEL | R22/R404A (50 HZ) | ZX020E-TFD | ZX030E-TFD | ZX040E-TFD | ZX050E-TFD | ZX060E-TFD | ZX075E-TFD | ZX076E-TFD | |
| | R404A (60 Hz) | XJAM-020Z-TFC | XJAM-030Z-TFC | XJAM-040Z-TFC | XJAM-050Z-TFC | XJAM-060Z-TFC | - | - | |
| Compressor Model | | | | | | | | | |
| R22/R404A (50 HZ) | | ZX15KC-TFD ZX15KCE-TFD | ZX21KC-TFD ZX21KCE-TFD | ZX30KC-TFD ZX30KCE-TFD | ZX38KC-TFD ZX38KCE-TFD | ZX45KC-TFD ZX45KCE-TFD | ZX51KC-TFD ZX51KCE-TFD | ZX51KC-TFD ZX51KCE-TFD | |
| Compressor Rated Load Current (A)(R22/R404A) | | 4.3/5.0 | 5.7/6.1 | 7.4/7.5 | 8.9/9.6 | 11.5/11.5 | 12.0/11.8 | 12.0/11.8 | |
| Compressor Locked Rotor Current (A) | | 26.0 | 36.0 | 44.3 | 58.6 | 67.0 | 101.0 | 101.0 | |
| No. of fans (ZX) | | 1 | 1 | 1 | 2 | 2 | 2 | 2 | |
| R404A (60 Hz) | | ZX15KCE-TF5 | ZX21KCE-TF5 | ZX30KCE-TF5 | ZX38KCE-TF5 | ZX45KCE-TF5 | - | - | |
| Compressor Rated Load Current(A)(R404A) | | 8.9 | 12.1 | 15.7 | 24.0 | 23.1 | - | - | |
| Compressor Locked Rotor Current (A) | | 55.0 | 77.0 | 115.0 | 128.0 | 156.0 | - | - | |
| No. of fans (XJAM) | | 1 | 1 | 2 | 2 | 2 | 2 | 2 | |
| Application Condition R22/R404A | | MT | MT | MT | MT | MT | MT | MT | |
| Capacity (kW) (50 Hz) R22/R404A | | 3.9/4.3 | 2.5/6.0 | 7.3/7.8 | 9.3/10.7 | 11.2/11.8 | 12.6/13.2 | 12.9/13.5 | |
| Capacity (kW) (60 Hz) R404A | | 5.2 | 7.6 | 10.4 | 12.7 | 14.7 | - | - | |
| Nominal input rating (HP) | | 2 | 3 | 4 | 5 | 6 | 7.5 | 7.5 | |
| Receiver Volume at 32°C kg (R22/R404A) | | 5.1/4.4 | 5.1/4.4 | 5.1/4.4 | 7.2/6.3 | 7.2/6.3 | 7.2/6.3 | 7.2/6.3 | |
| Oil Type | | MINERAL/POE | MINERAL/POE | MINERAL/POE | MINERAL/POE | MINERAL/POE | MINERAL/POE | MINERAL/POE | |
| Compressor Oil Recharge Volume (Litres) | | 1.2 | 1.3 | 1.8 | 1.8 | 1.7 | 1.7 | 1.7 | |
| Oil Separator Charge Volume (Litres) | | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | |
| Connection Tube size (inch) | | | | | | | | | |
| Suction Pipe Outer Diameter | | 3/4 | 3/4 | 7/8 | 7/8 | 7/8 | 7/8 | 7/8 | |
| Liquid Pipe Outer Diameter | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | |
| Dimension (mm) | | | | | | | | | |
| Length (L) | | 1029 | 1029 | 1029 | 1029 | 1029 | 1029 | 1029 | |
| Width (W) | | 424 | 424 | 424 | 424 | 424 | 424 | 424 | |
| Height (without fan) (H) | | 840 | 840 | 230 | 1242 | 1242 | 1242 | 1242 | |
| Mounting Dimensions | | 580 x 388 | 580 x 388 | 580 x 388 | 580 x 388 | 580 x 388 | 580 x 388 | 580 x 388 | |
| Weight (Kg) | | | | | | | | | |
| Net (ZX) | | 76.0 | 79.0 | 91.0 | 108.0 | 112.0 | 118.0 | 121.0 | |
| Net (XJAM) | | 82.7 | 88.2 | 113.6 | 117.3 | 122.7 | - | - | |
| Evap °C | | Ambient °C | | RGT °C | | | | | |
| MT Condition | | -6.7 | 32 | 18.3 | | | | | |
| ZX low temperature series | | ZXL0200-TFD | ZXL0250-TFD | ZXL0300-TFD | ZXL0350-TFD | ZXL0400-TFD | ZXL0500-TFD | ZXL0600-TFD | ZXL0750-TFD |
| MODEL | R22/R404A (50 HZ) | ZXL020E-TFD | ZXL025E-TFD | ZXL030E-TFD | ZXL035E-TFD | ZXL040E-TFD | ZXL050E-TFD | ZXL060E-TFD | ZXL075E-TFD |
| | R404A (60 Hz) | XJAL-020Z-TFC | - | XJAL-030Z-TFC | - | XJAL-040Z-TFC | XJAL-050Z-TFC | XJAL-060Z-TFC | - |
| Compressor Model | | | | | | | | | |
| R22/R404A (50 HZ) | | ZXI06KC-TFD ZXI06KCE-TFD | ZXI08KC-TFD ZXI08KCE-TFD | ZXI09KC-TFD ZXI09KCE-TFD | ZXI11KC-TFD ZXI11KCE-TFD | ZXI14KC-TFD ZXI14KCE-TFD | ZXI15KC-TFD ZXI15KCE-TFD | ZXI18KC-TFD ZXI18KCE-TFD | ZXI21KC-TFD ZXI21KCE-TFD |
| Compressor Rated Load Current(A)(R22/R404A) | | 5.4/5.6 | 5.5/6.2 | 5.7/6.0 | 7.4/8.3 | 8.1/8.6 | 8.8/10.0 | 11.1/11.1 | 12.1/14.6 |
| Compressor Locked Rotor Current (A) | | 39.2 | 39.2 | 39.2 | 51.5 | 51.5 | 51.5 | 74.0 | 101.0 |
| No. of fans (ZXL) | | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| R404A (60 Hz) | | ZXI06KCE-TF5 | - | ZXI09KCE-TF5 | - | ZXI14KCE-TF5 | ZXI15KCE-TF5 | ZXI18KCE-TF5 | - |
| Compressor Rated Load Current(A)(R404A) | | 12.1 | - | 12.9 | - | 20.0 | 21.4 | 25.5 | - |
| Compressor Locked Rotor Current(A) | | 73.0 | - | 73.0 | - | 110.0 | 110.0 | 186.6 | - |
| No. of fans (XJAL) | | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| Application Condition R22/R404A | | LT | LT | LT | LT | LT | LT | LT | LT |
| Capacity (kW) (50 Hz) ARI LT R22/R404A | | 1.7/2.1 | 1.9/2.5 | 2.3/2.8 | 2.8/3.7 | 3.6/4.3 | 4.1/5.0 | 5.0/5.9 | 5.4/6.7 |
| Capacity (kW) (60 Hz) ARI LT R404A | | 2.7 | - | 3.6 | 4.1 | 5.2 | 5.8 | 7.4 | - |
| Nominal input rating (HP) | | 2 | 2.5 | 3 | 3.5 | 4 | 5 | 6 | 7.5 |
| Receiver Volume at 32°C kg (R22/R404A) | | 5.1/4.4 | 5.1/4.4 | 5.1/4.4 | 5.1/4.4 | 5.1/4.4 | 7.2/6.3 | 7.2/6.3 | 7.2/6.3 |
| Oil Type | | MINERAL/POE | MINERAL/POE | MINERAL/POE | MINERAL/POE | MINERAL/POE | MINERAL/POE | MINERAL/POE | MINERAL/POE |
| Compressor Oil Recharge Volume (Litres) | | 0.6 | 0.6 | 0.6 | 1.2 | 1.2 | 1.2 | 1.8 | 1.8 |
| Oil Separator Charge Volume (Litres) | | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Connection Tube size (inch) | | | | | | | | | |
| Suction Pipe Outer Diameter | | 3/4 | 3/4 | 3/4 | 7/8 | 7/8 | 7/8 | 7/8 | 7/8 |
| Liquid Pipe Outer Diameter | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| Dimension (mm) | | | | | | | | | |
| Length (L) | | 1029 | 1029 | 1029 | 1029 | 1029 | 1029 | 1029 | 1029 |
| Width (W) | | 424 | 424 | 424 | 424 | 424 | 424 | 424 | 424 |
| Height (without fan) (H) | | 840 | 840 | 840 | 840 | 840 | 1242 | 1242 | 1242 |
| Mounting Dimensions | | 580 x 388 | 580 x 388 | 580 x 388 | 580 x 388 | 580 x 388 | 580 x 388 | 580 x 388 | 580 x 388 |
| Weight (Kg) | | | | | | | | | |
| Net (ZXL) | | 79.0 | 81.0 | 81.0 | 93.0 | 93.0 | 106.0 | 116.0 | 121.0 |
| Net (XJAL) | | 85.5 | - | 87.3 | 96.8 | 114.1 | 121.4 | 132.3 | - |
| Evap °C | | Ambient °C | | RGT °C | | | | | |
| LT Condition | | -32 | 32 | 5 | | | | | |



ZXD Series Outdoor-Style Scroll Condensing Units

| ZX Digital medium temperature series | | ZXD0400-TFD | ZXD0500-TFD | ZXD0600-TFD | ZXD0750-TFD | ZXD0760-TFD |
|---|-------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| MODEL | R22/R404A (50 Hz) | ZXD040E-TFD | ZXD050E-TFD | ZXD060E-TFD | ZXD075E-TFD | ZXD076E-TFD |
| Compressor Model | | ZBD29KQ-TFD ZBD29KQE-TFD | ZBD38KQ-TFD ZBD38KQE-TFD | ZBD45KQ-TFD ZBD45KQE-TFD | ZBD48KQ-TFD ZBD48KQE-TFD | ZBD48KQ-TFD ZBD48KQE-TFD |
| Compressor Rated Load Current(A)(R22/R404A) | | 7.9/7.7 | 10.0/10.4 | 10.0/9.6 | 12.1/12.4 | 12.1/12.4 |
| Compressor Locked Rotor Current (A) | | 48.0 | 64.0 | 74.0 | 100.0 | 100.0 |
| No. of fans | | 2 | 2 | 2 | 2 | 2 |
| Application Condition | | R22/R404A | MT | MT | MT | MT |
| Capacity (kW) (50 Hz) | | R22/R404A | 7.7/8.3 | 9.3/10.7 | 11.2/11.8 | 12.6/13.2 |
| Nominal input rating (HP) | | | 4 | 4 | 6 | 7.5 |
| Receiver Volume at 32°C kg (R22/R404A) | | | 7.2/6.3 | 7.2/6.3 | 7.2/6.3 | 7.2/6.3 |
| Oil Type | | | MINERAL/POE | MINERAL/POE | MINERAL/POE | MINERAL/POE |
| Compressor Oil Recharge Volume (Litres) | | | 1.2 | 1.8 | 1.8 | 1.8 |
| Oil Separator Charge Volume (Litres) | | | 0.5 | 0.5 | 0.5 | 0.5 |
| Connection Tube size (inch) | | | | | | |
| Suction Pipe Outer Diameter | | | 7/8 | 7/8 | 7/8 | 7/8 |
| Liquid Pipe Outer Diameter | | | 1/2 | 1/2 | 1/2 | 1/2 |
| Dimension (mm) | | | | | | |
| Length (L) | | | 1029 | 1029 | 1029 | 1029 |
| Width (W) | | | 424 | 424 | 424 | 424 |
| Height (without fan) (H) | | | 1242 | 1242 | 1242 | 1242 |
| Mounting Dimensions | | | - | - | - | - |
| Net Weight (Kg) | | | 104 | 112 | 114 | 119 |
| | Evap °C | Ambient °C | RGT °C | | | |
| MT Condition | -6.7 | 32 | 18.3 | | | |



Hermetic Compressor

Low Temperature Application

| Model | KCE | | KCN | | | | | | | |
|----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | KCE334LAG | KCE345LAG | KCN372LAG | KCN396LAG | KCN411LAG | KCN415LAG | KCN414LAL | KCN418LAL | KCN422LAL | KCN430LAL |
| Refrigerant | R134a | R134a | R134a | R134a | R134a | R134a | R404A | R404A | R404A | R404A |
| Motor Availability | | | | | | | | | | |
| Voltage 220/230- 1- 50Hz | RSIR | RSIR | CSIR | CSIR | CSIR | CSCR | CSIR | CSCR | CSCR | CSCR |
| Displacement cc/rev | 4.49 | 5.48 | 7.31 | 9 | 11.1 | 15.33 | 7.31 | 9 | 11.1 | 15.33 |
| Nominal HP | 1/10 | 1/9 | 1/5 | 1/4 | 1/3 | 3/8 | 1/3 | 1/2 | 1/2 | 1/5 |
| Capacity watts (50Hz/60Hz) | 83 | 111 | 176 | 234 | 281 | 369 | 337 | 439 | 527 | 754 |
| Motor Input Watts (50Hz/60Hz) | 110 | 135 | 159 | 205 | 245 | 325 | 325 | 375 | 455 | 580 |
| EER | 0.75 | 0.82 | 1.11 | 1.14 | 1.15 | 1.14 | 1.04 | 1.17 | 1.16 | 1.3 |
| Suction Line Size (mm) | 6.5 | 6.5 | 6.5 | 6.5 | 8 | 8 | 8 | 8 | 8 | 8 |
| Discharge Line Size (mm) | 4.92 | 6.5 | 6.5 | 6.5 | 8 | 8 | 7.93 | 7.93 | 7.93 | 7.93 |
| Length (mm) | 253 | 278 | 259 | 259 | 250 | 250 | 251 | 251 | 251 | 251 |
| Width (mm) | 146 | 146 | 185 | 185 | 185 | 185 | 185 | 185 | 185 | 185 |
| Height (mm) | 196 | 199 | 189 | 196 | 202 | 202 | 202 | 202 | 202 | 202 |
| Mounting Dimensions (mm) (L x W) | 253X146 | 278X146 | 259X185 | 259X185 | 250X185 | 250X185 | 251X185 | 251X185 | 251X185 | 251X185 |
| Net Weight (Kg) | 10.2 | 10.2 | 10.2 | 10.2 | 11.5 | 11.5 | 10.2 | 11.5 | 11.5 | 12.5 |
| Model | KCJ | | | | | | | | | |
| | KCJ411LAG | KCJ412LAG | KCJ423LAG | KCJ430LAL | KCJ450LAL | | | | | |
| Refrigerant | R134a | R134a | R134a | R404A | R404A | | | | | |
| Motor Availability | | | | | | | | | | |
| Voltage 220/230- 1- 50Hz | CSIR | CSIR | CSCR | CSCR | CSCR | | | | | |
| Displacement cc/rev | 16.35 | 18.27 | 32.61 | 16.35 | 32.64 | | | | | |
| Nominal HP | 1/3 | 1/3 | 1/2 | 3/4 | 5/4 | | | | | |
| Capacity watts (50Hz/60Hz) | 300 | 293 | 564 | 710 | 1201 | | | | | |
| Motor Input Watts (50Hz/60Hz) | 280 | 310 | 485 | 580 | 975 | | | | | |
| EER | 1.07 | 0.95 | 1.16 | 1.22 | 1.23 | | | | | |
| Suction Line Size (mm) | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 | | | | | |
| Discharge Line Size (mm) | 8 | 8 | 8 | 8 | 9.6 | | | | | |
| Length (mm) | 235 | 235 | 245 | 204 | 249 | | | | | |
| Width (mm) | 168 | 168 | 168 | 187 | 194 | | | | | |
| Height (mm) | 268 | 268 | 323 | 313 | 356 | | | | | |
| Mounting Dimensions (mm) (L x W) | 235X168 | 235X168 | 245X168 | 204X187 | 249X194 | | | | | |
| Net Weight (Kg) | 20.2 | 21 | 22.5 | 22.5 | 25 | | | | | |
| | Evap °C | Cond °C | | | | | | | | |
| HT Condition | -23.3 | 54.4 | | | | | | | | |



Hermetic Compressor

Medium Temperature Application

| Model | KCE | | | | | | KCN | | |
|----------------------------------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|
| | KCE419 | KCE425 | KCE432 | KCE444 | KCE443 | KCE461 | KCN413CAG | KCN416CAG | KCN463 |
| Refrigerant | R134a | R134a | R134a | R134a | R22 | R22 | R134a | R134a | R134a |
| Motor Availability | | | | | | | | | |
| Voltage 220/230- 1- 50Hz | RSIR | CSIR | | | PSC/CSCR | PSC/CSCR | RSIR | CSCR | |
| Voltage 220/230- 1- 50/60Hz | | | CSIR | CSCR | | | | | CSCR |
| Voltage 260V- 1- 60Hz | x | | | | | | | | |
| Voltage 380/440- 3- 50Hz | x | | | | | | | | |
| Displacement cc/rev | 5.79 | 7.58 | 9.42 | 12.05 | 8 | 11.5 | 6.15 | 7.31 | 15.33 |
| Nominal HP | 1/6 | 1/5 | 1/4 | 3/8 | 1/3 | 1/2 | 1/6 | 1/5 | 1/2 |
| Capacity watts 50/60Hz | 252 | 315 | 390/467 | 551/640 | 475 | 759 | 316 | 392 | 917/1008 |
| Motor Input Watts 50/60Hz | 166 | 261 | 305/382 | 339/393 | 390 | 520 | 245 | 220 | 505/673 |
| EER | 1.52 | 1.21 | 1.28/1.22 | 1.63/1.63 | 1.22 | 1.46 | 1.29 | 1.78 | 1.82/1.50 |
| Suction Line Size (mm) | 6.5 | 6.5 | 8 | 8 | 9.6 | 9.6 | 6.5 | 6.5 | 8 |
| Discharge Line Size (mm) | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 8.1 | 6.5 | 6.5 | 8 |
| Length (mm) | 253 | 257 | 257 | 253 | 254 | 255 | 244 | 244 | 244 |
| Width (mm) | 146 | 146 | 146 | 146 | 146 | 146 | 185 | 185 | 185 |
| Height (mm) | 196 | 196 | 212 | 212 | 223 | 249 | 189 | 189 | 202 |
| Mounting Dimensions (mm) (L x W) | 253x146 | 257x146 | 257x146 | 253x146 | 254x146 | 255x146 | 244x185 | 244X185 | 244x185 |
| Net Weight (Kg) | 10.2 | 10.8 | 11.8 | 11.8 | 11.8 | 13.4 | 9.7 | 9.7 | 11.5 |
| Model | KCJ | | | | | | | | |
| | KCJ444 | KCJ467 | KCJ498 | KCJ511 | KCJ513 | KCJ422CAL | KCJ438CAL | KCJ461CAL | KCJ484CAL |
| Refrigerant | R134a | R134a | R134a | R22 | R22 | R404A | R404A | R404A | R404A |
| Motor Availability | | | | | | | | | |
| Voltage 220/230- 1- 50Hz | CSIR | | | | PSC/CSCR | CSIR | CSIR | CSCR | CSCR |
| Voltage 220/230- 1- 50/60Hz | | CSIR | CSIR | PSC/CSCR/CSCR | | | | | |
| Voltage 260V- 1- 60Hz | | | | | | | | | |
| Voltage 380/440- 3- 50Hz | | | | | | | | | |
| Displacement cc/rev | 12.05 | 18.27 | 25.91 | 18.27 | 25.91 | 8 | 11.5 | 18.27 | 25.91 |
| Nominal HP | 3/8 | 1/2 | 3/4 | 1 | 5/4 | 1/4 | 1/2 | 3/4 | 1 |
| Capacity watts 50/60Hz | 504 | 829/914 | 1358 | 1234/1234 | 1865 | 527 | 937 | 1495 | 2052 |
| Motor Input Watts 50/60Hz | 330 | 510/560 | 833 | 1020/1175 | 1440/1720 | 400 | 625 | 925 | 1250 |
| EER | 1.53 | 1.63/1.63 | 1.53 | 2.68/2.61 | 2.6/2.46 | 1.32 | 1.50 | 1.62 | 1.64 |
| Suction Line Size (mm) | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 | | | | |
| Discharge Line Size (mm) | 8 | 8 | 8 | 8 | 9.6 | | | | |
| Length (mm) | 235 | 235 | 235 | 245 | 245 | 235 | 235 | 235 | 235 |
| Width (mm) | 168 | 168 | 168 | 168 | 168 | 168 | 168 | 168 | 168 |
| Height (mm) | 268 | 268 | 280 | 301 | 312 | 268 | 275 | 283 | 292 |
| Mounting Dimensions (mm) (L x W) | 235x168 | 235x168 | 235x168 | 245x168 | 245x168 | 235x168 | 235x168 | 235X168 | 235X168 |
| Net Weight (Kg) | 20.2 | 21 | 21.5 | 21.5 | 22.5 | 20 | 21.5 | 21.5 | 22.5 |
| Model | KCM | | | | | | | | |
| | KCM511CAL | KCM514CAL | KCM519CAL | KCM522CAL | KCM511CAL | KCM514CAL | KCM519CAL | KCM522CAL | |
| Refrigerant | R404A | R404A | R404A | R404A | R404A | R404A | R404A | R404A | R404A |
| Motor Availability | | | | | | | | | |
| Voltage 220/230- 1- 50Hz | CSCR | CSCR | CSCR | CSCR | | | | | |
| Voltage 220/230- 1- 50/60Hz | | | | | | | | | |
| Voltage 260V- 1- 60Hz | | | | | | | | | |
| Voltage 380/440- 3- 50Hz | | | | | | 3PH | 3PH | 3PH | 3PH |
| Displacement cc/rev | 40.8 | 51.47 | 59.65 | 72.08 | 40.8 | 51.47 | 59.65 | 72.08 | |
| Nominal HP | 11/8 | 7/4 | 19/8 | 11/4 | 7/4 | 19/8 | 11/4 | 7/4 | |
| Capacity watts 50/60Hz | 2637 | 3515 | 4717 | 5360 | 2756 | 3792 | 4630 | 5360 | |
| Motor Input Watts 50/60Hz | 1385 | 1840 | 2360 | 2600 | 1375 | 1865 | 2325 | 2600 | |
| EER | 1.90 | 1.91 | 2.00 | 2.06 | 2.00 | 2.03 | 1.99 | 2.06 | |
| Suction Line Size (mm) | | | | | | | | | |
| Discharge Line Size (mm) | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 | |
| Length (mm) | | | 255 | 255 | | | | 255 | 255 |
| Width (mm) | 185 | 185 | 207 | 207 | 185 | 185 | 207 | 207 | |
| Height (mm) | 361 | 360 | 372 | 385 | 361 | 360 | 372 | 385 | |
| Mounting Dimensions (mm) (L x W) | | | 255x207 | 255x207 | | | 255X207 | 255X207 | |
| Net Weight (Kg) | 29.8 | 32.5 | 34.9 | 34.9 | 29.5 | 30 | 31 | 32.7 | |
| Evap °C | Cond °C | | | | | | | | |
| MT Condition | -6.7 54.4 | | | | | | | | |

Note: KCM Models can be used with R-134a



Hermetic Compressor

High Temperature Application

| Model | KCE | | | | | | KCN |
|----------------------------------|---------|---------|---------|-----------|----------|---------------|-----------|
| | KCE419 | KCE425 | KCE432 | KCE444 | KCE443 | KCE461 | KCN463 |
| Refrigerant | R134a | R134a | R134a | R134a | R22 | R22 | R134a |
| Motor Availability | | | | | | | |
| Voltage 220/230- 1- 50Hz | RSIR | CSIR | | | PSC/CSCR | | |
| Voltage 220/230- 1- 50/60Hz | | | CSIR | CSCR | | PSC/CSCR/CSCR | CSCR |
| Voltage 260V- 1- 60Hz | | | | | | | |
| Voltage 380/440- 3- 50Hz | | | | | | | |
| Displacement cc/rev | 5.79 | 7.58 | 9.42 | 12.05 | 8 | 11.5 | 15.33 |
| Nominal HP | 1/6 | 1/5 | 1/4 | 3/8 | 1/3 | 1/2 | 1/2 |
| Capacity watts (50Hz/60Hz) | 465 | 629 | 788/944 | 1077/1252 | 1054 | 1494/1788 | 1539/1845 |
| Motor Input Watts (50Hz/60Hz) | 245 | 360 | 375/470 | 475/550 | 475 | 675/740 | 615/810 |
| EER | 1.90 | 1.75 | 2.1/2 | 2.26/2.27 | 2.22 | 2.21/2.41 | 2.5/2.27 |
| Suction Line Size (mm) | 6.5 | 6.5 | 8 | 8 | 9.6 | 9.6 | 8 |
| Discharge Line Size (mm) | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 8.1 | 8 |
| Length (mm) | 253 | 257 | 257 | 253 | 254 | 255 | 244 |
| Width (mm) | 146 | 146 | 146 | 146 | 146 | 146 | 185 |
| Height (mm) | 196 | 196 | 212 | 212 | 223 | 249 | 202 |
| Mounting Dimensions (mm) (L x W) | 253x146 | 257x146 | 257x146 | 253x146 | 254x146 | 255x146 | 244x185 |
| Net Weight (Kg) | 10.2 | 10.8 | 11.8 | 11.8 | 11.8 | 13.4 | 11.5 |

| Model | KCM | | | | |
|----------------------------------|---------|-----------|-----------|---------------|-----------|
| | KCJ444 | KCJ467 | KCJ498 | KCJ511 | KCJ513 |
| Refrigerant | R134a | R134a | R134a | R22 | R22 |
| Motor Availability | | | | | |
| Voltage 220/230- 1- 50Hz | CSIR | | | | |
| Voltage 220/230- 1- 50/60Hz | | CSIR | CSIR | PSC/CSCR/CSCR | PSC/CSCR |
| Voltage 260V- 1- 60Hz | | | | | |
| Voltage 380/440- 3- 50Hz | | | | | |
| Displacement cc/rev | 12.05 | 18.27 | 25.91 | 18.27 | 25.91 |
| Nominal HP | 3/8 | 1/2 | 3/4 | 1 | 5/4 |
| Capacity watts (50Hz/60Hz) | 1064 | 1640/1964 | 2402/2710 | 2740/3077 | 3749/4247 |
| Motor Input Watts (50Hz/60Hz) | 450 | 675/820 | 975/1120 | 1020/1175 | 1440/1720 |
| EER | 2.36 | 2.42/2.39 | 2.46/2.41 | 2.68/2.61 | 2.6/2.46 |
| Suction Line Size (mm) | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 |
| Discharge Line Size (mm) | 8 | 8 | 8 | 8 | 9.6 |
| Length (mm) | 235 | 235 | 235 | 245 | 245 |
| Width (mm) | 168 | 168 | 168 | 168 | 168 |
| Height (mm) | 268 | 268 | 280 | 301 | 312 |
| Mounting Dimensions (mm) (L x W) | 235x168 | 235x168 | 235x168 | 235x168 | 235x168 |
| Net Weight (Kg) | 20.2 | 21 | 21.5 | 21.5 | 22.5 |

| | Evap °C | Cond °C |
|--------------|---------|---------|
| HT Condition | 7.2 | 54.4 |

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