

### Scroll Compressor



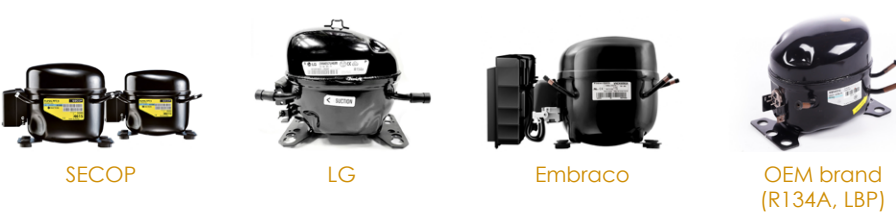
Copeland Sanyo

### Rotary Compressor



GMCC LG

### Compressor for Light Commercial Applications



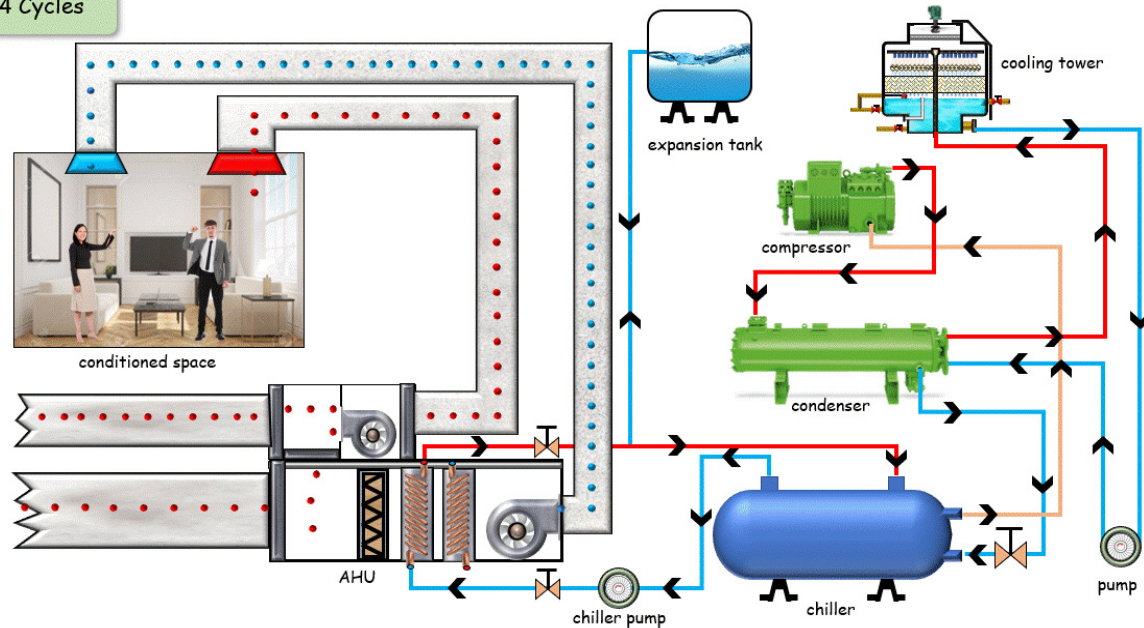
SECOP LG Embraco OEM brand (R134A, LBP)

### Semi-hermetic Reciprocating Compressor



Bitzer

#### The 4 Cycles



ComforPlanet supplies original branded compressor in a variety of applications of industrial & commercial refrigeration, air conditioning and household refrigerators.



Scroll Compressor



ZB & ZR Series Scroll Compressor  
Copeland® ZB Series Scroll Compressor

| Part No.           | Motor TFD   | Nominal power | Current   |         | Displ. | Oil charge |
|--------------------|-------------|---------------|-----------|---------|--------|------------|
|                    |             | (HP)          | (RLA) TFD | (A) PFJ | (m3/h) | (L)        |
| ZB15KQ / ZB15KQE   | PFJ/TFD-558 | 2             | 4.3       | 11.4    | 5.9    | 1.24/1.24  |
| ZB19KQ / ZB19KQE   | PFJ/TFD-558 | 2.5           | 4.3       | 12.9    | 6.8    | 1.30/1.24  |
| ZB21KQ / ZB21KQE   | PFJ/TFD-558 | 3             | 5.7       | 16.4    | 8.6    | 1.45       |
| ZB26KQ / ZB26KQE   | PFJ/TFD-558 | 3.5           | 7.1       | 17.1    | 9.9    | 1.45/1.48  |
| ZB29KQ / ZB29KQE   | PFJ/TFD-558 | 4             | 7.9       | 19.3    | 11.4   | 1.36       |
| ZB38KQ / ZB38KQE   | TFD-558     | 5             | 8.9       | -       | 14.5   | 2.07       |
| ZB45KQ / ZB45KQE   | TFD-558     | 6             | 11.5      | -       | 17.2   | 1.89       |
| ZB48KQ / ZB48KQE   | TFD-558     | 7             | 12.1      | -       | 18.8   | 1.80       |
| ZB58KQ / ZB58KQE   | TFD-551/550 | 8             | 16.4      | -       | 22.1   | 2.51       |
| ZB66KQ / ZB66KQE   | TFD-551/550 | 9             | 17.3      | -       | 25.7   | 3.25       |
| ZB76KQ / ZB76KQE   | TFD-551/550 | 10            | 19.2      | -       | 28.8   | 3.25       |
| ZB88KQ / ZB88KQE   | TFD-551/550 | 12            | 22.1      | -       | 33.2   | 3.25       |
| ZB95KQ / ZB95KQE   | TFD-551/550 | 13            | 25.0      | -       | 36.4   | 3.30       |
| ZB114KQ / ZB114KQE | TFD-551/550 | 15            | 27.9      | -       | 43.4   | 3.30       |

Copeland® ZR Series Scroll Compressor

| Part No. | Motor TFD & Connector | Nominal power | Nominal Capacity |         | Displ. | Input power | Current |
|----------|-----------------------|---------------|------------------|---------|--------|-------------|---------|
|          |                       | (HP)          | (W)              | (Btu/h) | (m3/h) | (W)         | (A)     |
| ZR24K3E  | TWD-522               | 2.0           | 5,900            | 20,119  | 5.92   | 1,920       | 4.3     |
| ZR36K3E  | TFD-522               | 3.0           | 8,900            | 30,349  | 8.61   | 2,680       | 5.7     |
| ZR42K3E  | TFD-522               | 3.5           | 10,250           | 34,952  | 9.94   | 3,100       | 7.1     |
| ZR47K3E  | TFD-522               | 3.92          | 11,550           | 39,385  | 11.16  | 3,430       | 7.2     |
| ZR61KCE  | TFD-522               | 5.1           | 14,000           | 47,600  | 13.14  | 4,460       | 8.4     |
| ZR68KCE  | TFD-522               | 5.7           | 14,800           | 54,000  | 13.11  | 5,100       | 8.9     |
| ZR72KCE  | TFD-522               | 6.0           | 16,600           | 56,500  | 13.22  | 5,150       | 9.1     |
| ZR81KCE  | TFD-522               | 6.8           | 18,600           | 63,500  | 13.17  | 5,900       | 10.9    |
| ZR94KCE  | TFD-522               | 7.8           | 23,000           | 78,600  | 13.34  | 6,950       | 12.9    |
| ZR108KCE | TFD-522               | 9.0           | 28,800           | 88,100  | 13.4   | 7,580       | 13.8    |
| ZR125KCE | TFD-522               | 10.4          | 30,000           | 103,000 | 13.4   | 8,950       | 16      |
| ZR144KCE | PFJ/TFD-522           | 12.0          | 34,500           | 11,800  | 13.4   | 10,150      | 17.7    |
| ZR160KCE | PFJ/TFD-522           | 13.3          | 37,500           | 128,000 | 13.28  | 11,450      | 20.5    |
| ZR190KCE | PFJ/TFD-522           | 15.8          | 44,000           | 150,000 | 13.22  | 13,650      | 26.5    |
| ZR250KCE | TFD-522               | 20.8          | 58,500           | 200,000 | 13.25  | 18,000      | 30.1    |
| ZR310KCE | TWD-522               | 25.8          | 72,500           | 248,000 | 13.25  | 22,300      | 37.9    |
| ZR380KCE | TWD-522               | 31.7          | 91,500           | 313,000 | 13.43  | 26,700      | 45.5    |



B: refrigeration;  
R: air conditioner, R22, R134A, R407C;  
P: air conditioner, R410A;  
W: heat pump, water heater

Lubricant  
Blank: Mineral Oil  
E: Ester Oil

Z B 7 6 K Q E - T F D - X X X

Base Capacity  
Medium Temperature  
Condition: Btu/h

D: 380/420V-3ph, 50Hz  
or 460V-3ph, 60Hz  
J: 220/240V-1ph, 50Hz  
or 265V-1ph, 60Hz

551: flare connection, with oil sight glass & oil discharge outlet  
550: solder connection, with oil sight glass & oil discharge outlet  
558: solder connection, with oil sight glass



Sanyo® Scroll Compressor

R407C-B8(50Hz 380-415V/60Hz 440-460V)

| Phase | Output | Displacement<br>cm³/rev | Compressor Model | Compressor Code | Starting Method | 50Hz             |        |      |        | 60Hz             |        |      |        | Outline Graph Code |
|-------|--------|-------------------------|------------------|-----------------|-----------------|------------------|--------|------|--------|------------------|--------|------|--------|--------------------|
|       |        |                         |                  |                 |                 | Nominal Capacity |        | COP  |        | Nominal Capacity |        | COP  |        |                    |
|       | HP     |                         |                  |                 |                 | KW               | kBTU/h | W/W  | BTU/Wh | KW               | kBTU/h | W/W  | BTU/Wh |                    |
| 3     | 3.5    | 55.7                    | C-SBN263H8A      | 809 930 88      | --              | 9.6              | 32.8   | 2.87 | 9.8    | 11.8             | 40.3   | 2.87 | 9.8    | B                  |
|       | 4      | 66.8                    | C-SBN303H8A      | 809 940 88      | --              | 11.6             | 39.6   | 3.05 | 10.4   | 14.6             | 49.8   | 3.17 | 10.8   | A                  |
|       | 4      | 66.8                    | C-SBN303H8G      | 809 946 88      | --              | 11.6             | 39.6   | 3.05 | 10.4   | 14.6             | 49.8   | 3.17 | 10.8   | At                 |
|       | 4.5    | 77.4                    | C-SBN353H8A      | 809 942 88      | --              | 13.4             | 45.8   | 2.91 | 9.9    | 16.5             | 56.3   | 2.95 | 10.1   | A                  |
|       | 4.5    | 77.4                    | C-SBN353H8G      | 809 944 88      | --              | 13.4             | 45.8   | 2.91 | 9.9    | 16.5             | 56.3   | 2.95 | 10.1   | At                 |
|       | 5      | 83.2                    | C-SBN373H8A      | 809 950 88      | --              | 14.5             | 49.5   | 2.93 | 10     | 17.8             | 60.8   | 2.99 | 10.2   | A                  |
|       | 5      | 83.2                    | C-SBN373H8G      | 809 956 88      | --              | 14.5             | 49.5   | 2.93 | 10     | 17.8             | 60.8   | 2.99 | 10.2   | At                 |
|       | 6      | 100                     | C-SBN453H8A      | 809 960 88      | --              | 17.6             | 60.1   | 3.03 | 10.3   | 21.3             | 72.7   | 3.04 | 10.4   | A                  |
|       | 6      | 100                     | C-SBN453H8G      | 809 966 88      | --              | 17.6             | 60.1   | 3.03 | 10.3   | 21.3             | 72.7   | 3.04 | 10.4   | At                 |
|       | 7      | 110.2                   | C-SBS235H8A      | --              | --              | 19.5             | 66.6   | 3.1  | 10.6   | 23.4             | 79.9   | 3.1  | 10.6   | A                  |
|       | 7      | 110.2                   | C-SBS235H8G      | --              | --              | 19.5             | 66.6   | 3.1  | 10.6   | 23.4             | 79.9   | 3.1  | 10.6   | At                 |
|       | 8      | 131.9                   | C-SCN583H8H      | 809 184 88      | --              | 23.6             | 80.6   | 3.13 | 10.7   | 28               | 95.6   | 3.03 | 10.3   | D                  |
|       | 8      | 131.9                   | C-SCN583H8K      | 809 186 88      | --              | 23.6             | 80.6   | 3.13 | 10.7   | 28               | 95.6   | 3.03 | 10.3   | Dt                 |
|       | 8      | 137                     | C-SCN603H8H      | 809 181 88      | --              | 24.5             | 83.6   | 3.16 | 10.8   | 29.1             | 99.4   | 3.08 | 10.5   | D                  |
|       | 8      | 137                     | C-SCN603H8K      | 809 183 88      | --              | 24.5             | 83.6   | 3.16 | 10.8   | 29.1             | 99.4   | 3.08 | 10.5   | Dt                 |
|       | 10     | 171.2                   | C-SCN753H8H      | 809 101 88      | --              | 29.9             | 102.1  | 3.2  | 10.9   | 35.9             | 122.6  | 3.12 | 10.7   | E                  |
|       | 10     | 171.2                   | C-SCN753H8K      | 809 103 88      | --              | 29.9             | 102.1  | 3.2  | 10.9   | 35.9             | 122.6  | 3.12 | 10.7   | Et                 |
|       | 12     | 205.4                   | C-SCN903H8H      | 809 121 88      | --              | 34.9             | 119.2  | 3.09 | 10.5   | --               | --     | --   | --     | E                  |
|       | 12     | 205.4                   | C-SCN903H8K      | 809 123 88      | --              | 34.9             | 119.2  | 3.09 | 10.5   | --               | --     | --   | --     | Et                 |

R410A-B8(50Hz 380-415V/60Hz 440-460V)

| Phase | Output | Displacement<br>cm³/rev | Compressor Model | Compressor Code | Starting Method | 50Hz             |        |      |        | 60Hz             |      |      |      | Outline Graph Code |
|-------|--------|-------------------------|------------------|-----------------|-----------------|------------------|--------|------|--------|------------------|------|------|------|--------------------|
|       |        |                         |                  |                 |                 | Nominal Capacity |        | COP  |        | Nominal Capacity |      | COP  |      |                    |
|       | HP     | KW                      | kBTU/h           | W/W             | BTU/Wh          | KW               | kBTU/h | W/W  | BTU/Wh |                  |      |      |      |                    |
| 3     | 3      | 35.0                    | C-SBN233H8E      | 809 934 88      | --              | 8.60             | 29.4   | --   | --     | --               | --   | --   | --   | A                  |
|       | 3.5    | 37.5                    | C-SBN263H8D      | 809 933 88      | --              | 8.85             | 30.2   | 2.49 | 8.5    | 11.6             | 39.6 | 2.76 | 9.4  | A                  |
|       | 4      | 39.9                    | C-SBN303H8D      | 809 943 88      | --              | 9.80             | 33.5   | 2.68 | 9.2    | 12.2             | 41.7 | 2.87 | 9.8  | A                  |
|       | 4      | 39.9                    | C-SBN303H8F      | 809 945 88      | --              | 9.80             | 33.5   | 2.68 | 9.2    | 12.2             | 41.7 | 2.87 | 9.8  | Jt                 |
|       | 4      | 39.9                    | C-SBN303H8H      | 809 947 88      | --              | 9.80             | 33.5   | 2.68 | 9.2    | 12.2             | 41.7 | 2.87 | 9.8  | At                 |
|       | 4.5    | 51.8                    | C-SBN353H8D      | 809 948 88      | --              | 13.0             | 44.4   | 2.8  | 9.6    | 16.2             | 55.3 | 2.97 | 10.1 | A                  |
|       | 4.5    | 51.8                    | C-SBN353H8H      | 809 949 88      | --              | 13.0             | 44.4   | 2.8  | 9.6    | 16.2             | 55.3 | 2.97 | 10.1 | At                 |
|       | 5      | 55.7                    | C-SBN373H8D      | 809 953 88      | --              | 14.1             | 48.1   | 2.97 | 10.1   | 17.1             | 58.4 | 3.05 | 10.4 | A                  |
|       | 5      | 55.7                    | C-SBN373H8F      | 809 955 88      | --              | 14.1             | 48.1   | 2.97 | 10.1   | 17.1             | 58.4 | 3.05 | 10.4 | Jt                 |
|       | 5      | 55.7                    | C-SBN373H8H      | 809 957 88      | --              | 14.1             | 48.1   | 2.97 | 10.1   | 17.1             | 58.4 | 3.05 | 10.4 | At                 |
|       | 6      | 66.8                    | C-SBN453H8D      | 809 963 88      | --              | 16.4             | 56.0   | 2.85 | 9.7    | 20.3             | 69.3 | 3.01 | 10.3 | A                  |
|       | 6      | 66.8                    | C-SBN453H8F      | 809 965 88      | --              | 16.4             | 56.0   | 2.85 | 9.7    | 20.3             | 69.3 | 3.01 | 10.3 | Jt                 |
|       | 6      | 66.8                    | C-SBN453H8H      | 809 967 88      | --              | 16.4             | 56.0   | 2.85 | 9.7    | 20.3             | 69.3 | 3.01 | 10.3 | At                 |
|       | 7      | 77.4                    | C-SBN523H8D      | 809 973 88      | --              | 19.2             | 65.6   | 2.84 | 9.7    | --               | --   | --   | --   | A                  |
|       | 7      | 77.4                    | C-SBN523H8F      | 809 975 88      | --              | 19.2             | 65.6   | 2.84 | 9.7    | --               | --   | --   | --   | Jt                 |
|       | 7      | 77.4                    | C-SBN523H8H      | 809 977 88      | --              | 19.2             | 65.6   | 2.84 | 9.7    | --               | --   | --   | --   | At                 |



Rotary Compressor



GMCC

Rotary Compressor for Air Conditioner

| R22               |                 |                      |          |                   |
|-------------------|-----------------|----------------------|----------|-------------------|
| Voltage/Frequency | Model no.       | Cooling capacity (W) | BTU      | Packing (PCS/PLT) |
| 220-240V/50Hz     | PH200M1A-4DZ1   | 3470                 | 11839.64 | 80                |
|                   | PH165X1C-4DZDE2 | 2840                 | 9690.08  | 80                |
|                   | PH180G1C-4DZDE1 | 3140                 | 10713.68 | 80                |
|                   | PH225X2C-4FT    | 3900                 | 13306.8  | 60                |
|                   | PH290M2C-4FT1   | 5160                 | 17605.92 | 60                |
|                   | PH295M2CS-4KUH  | 5260                 | 17947.12 | 60                |
|                   | PH310M2CS-4KUH  | 5510                 | 18800.12 | 60                |
|                   | PH340M2CS-4KU   | 6000                 | 20472    | 60                |
|                   | PH370G2CS-4MU1  | 6715                 | 22911.58 | 48                |
|                   | PH400G2CS-4KU1  | 7105                 | 24242.26 | 48                |
|                   | PH420G2CS-4KU1  | 7460                 | 25453.52 | 48                |
|                   | PH440G2CS-4MU   | 7540                 | 25726.48 | 48                |
|                   | PH460X3CS-4MU1  | 8120                 | 27705.44 | 48                |
|                   | PH480X3CS-4MU1  | 8520                 | 29070.24 | 48                |
|                   | HSM165V1UFZ     | 2895                 | 9877.74  | 80                |
|                   | HSM210V1UFT     | 3670                 | 12522.04 | 60                |
|                   | HSM215V3UDZ     | 3700                 | 12624.4  | 80                |
|                   | HSM215V4UFTA    | 3725                 | 12709.7  | 60                |
| 208-230V/60Hz     | PH130M1C-3DZDU1 | 2670                 | 9110.04  | 80                |
|                   | ...             | ...                  | ...      | ...               |

| R410A             |                 |                      |          |                   |
|-------------------|-----------------|----------------------|----------|-------------------|
| Voltage/Frequency | Model no.       | Cooling capacity (W) | BTU      | Packing (PCS/PLT) |
| 220-240V/50Hz     | PA108M1C-4DZDE2 | 2580                 | 8802.96  | 80                |
|                   | PA118M1C-4FZ2   | 2770                 | 9451.24  | 80                |
|                   | PA130G1C-4FT    | 3140                 | 10713.68 | 60                |
|                   | PA145G1C-4FT1   | 3520                 | 12010.24 | 60                |
|                   | PA160X2C-4FT    | 3930                 | 13409.16 | 60                |
|                   | PA170M2C-4ET2   | 4190                 | 14296.28 | 60                |
|                   | PA185M2C-4FT2   | 4500                 | 15354    | 60                |
|                   | PA200M2CS-4KU1  | 4865                 | 16599.38 | 60                |
|                   | PA200X2CS-4KU1  | 4980                 | 16684.68 | 60                |
|                   | PA215M2CS-4KU   | 5310                 | 18117.72 | 60                |
|                   | PA225M2CS-4KU   | 5600                 | 19107.2  | 60                |
|                   | PA240M2CS-4KU   | 5850                 | 19960.2  | 60                |
|                   | PA290G2CS-4MU1  | 7325                 | 24992.9  | 48                |
|                   | PA270G2CS-4MU1  | 6850                 | 23372.2  | 48                |
|                   | PA290X3CS-4MU1  | 7215                 | 24617.58 | 48                |
|                   | PA330X3CS-4MU1  | 8170                 | 27876.04 | 48                |
|                   | PA89M1C-3DZDU   | 2640                 | 9007.68  | 80                |
|                   | ASN89N1UDZ      | 2640                 | 9007.68  | 80                |
| 208-230V/60Hz     | ...             | ...                  | ...      | ...               |



LG

Rotary Compressor for Air Conditioner

| R22                 |            |                          |                |                   |
|---------------------|------------|--------------------------|----------------|-------------------|
| Voltage/Frequency   | Model no.  | Cooling capacity (btu/h) | EER (Btu/W.hr) | Packing (PCS/PLT) |
| 220V-50Hz / 1 PHASE | QA075PAB   | 4110                     | 10             | 60                |
|                     | QA102PPA   | 5830                     | 10.5           | 60                |
|                     | QA125PAF   | 7100                     | 10.6           | 60                |
|                     | QKS164PMB  | 9200                     | 10.9           | 48                |
|                     | QKS164HMA  | 9220                     | 11.1           | 48                |
|                     | QKS185PAB  | 10800                    | 10.8           | 48                |
|                     | *QKS208HMA | 12285                    | 9.5            | 48                |
|                     | QK222PFA   | 13250                    | 10.4           | 48                |
|                     | *QV308PMA  | 18200                    | 10.1           | 40                |
|                     | QP325PBA   | 19200                    | 10.8           | 32                |
|                     | QVS325PMA  | 18950                    | 10.9           | 40                |
|                     | QP407PBA   | 24700                    | 10.8           | 32                |
|                     | *QP407PAA  | 24100                    | 10.4           | 32                |
|                     | QVS407PAA  | 22750                    | 10.4           | 40                |
|                     | *QP442PBA  | 26000                    | 10.2           | 32                |
|                     | QPT488PAD  | 29300                    | 11.1           | 32                |
|                     | QPT525PBA  | 31500                    | 10             | 32                |
|                     | SBA052YBA  | 42500                    | 11.1           | 24                |
| 220V-60Hz / 1 PHASE | SBA061YBA  | 49200                    | 11.2           | 24                |
|                     | SBA061YMA  | 50500                    | 11.7           | 24                |
|                     | QK134KBJ   | 9350                     | 10.7           | 48                |
|                     | QK173KAG   | 12100                    | 10.6           | 48                |
|                     | QJ258KDA   | 18300                    | 10.3           | 40                |
|                     | QVS336KAA  | 24500                    | 11.4           | 40                |
|                     | QVS407KAA  | 30500                    | 11.1           | 40                |
|                     |            |                          |                |                   |

| R410A               |           |                          |               |                   |
|---------------------|-----------|--------------------------|---------------|-------------------|
| Voltage/Frequency   | Model no. | Cooling capacity (btu/h) | EER(Btu/W.hr) | Packing (PCS/PLT) |
| 220V-60Hz / 1 PHASE | GKS094KBA | 9100                     | 9.9           | 60                |
|                     | GKS113KBA | 11050                    | 10.1          | 60                |
|                     | GJ176KBA  | 18050                    | 10.2          | 40                |
|                     | GVS240KAA | 23750                    | 10.3          | 40                |
| 220V-50Hz / 1 PHASE | GAB072PAB | 5950                     | 10.1          | 60                |
|                     | GA092PAA  | 7700                     | 9.7           | 60                |
|                     | GKN102PAA | 8470                     | 10.1          | 60                |
|                     | GJH160PAA | 13000                    | 10.3          | 40                |
|                     | GJS222PMA | 18250                    | 9.3           | 40                |
|                     | ABT034PTA | 28000                    | 9.7           | 24                |
|                     | ABT054YTA | 44800                    | 10.8          | 24                |

Remark:those models with \* are working condition T3

Compressor for Light Commercial Applications



SECOP

Design series  
Nominal displacement in cm³

SC 18 FT X .2

CN: R-290 LBP  
CL: R-404A/R507 LBP  
F: R-134A LBP/MBP  
FT: R-134A LBP tropical  
G: R-134A LBP/MBP/HPB

Blank: first generation  
.2: second generation  
.3: third generation etc.

Blank: univesal  
X: HST  
K: LST

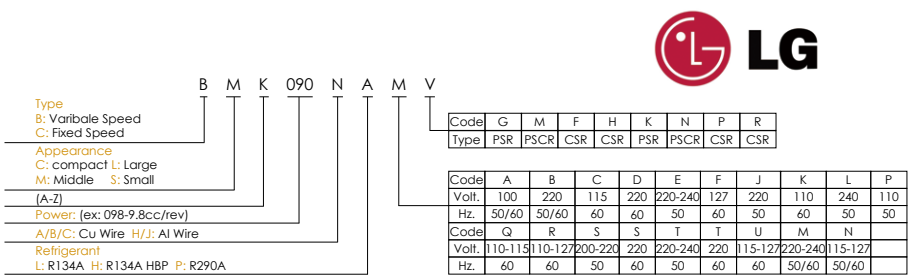
Compressor for Light Commercial Applications

| Volt. & Freq.    | Application | Model  | Code No.     | Nominal (HP) |
|------------------|-------------|--------|--------------|--------------|
| 220V-240V / 50Hz | LBP/MBP     | SC10C  | 104L2516 Kit | 1/3          |
|                  | LBP/MBP     | SC12C  | 104L2674 Kit | 3/8          |
|                  | LBP/MBP     | SC15CM | 104L2848 Kit | 1/2          |
|                  | LBP/MBP     | SC18CM | 104L2120 Kit | 5/8          |
|                  | MBP/HBP     | SC10D  | 104L2529 Kit | 3/8          |
|                  | MBP/HBP     | SC12D  | 104L2694 Kit | 1/2          |
|                  | MBP/HBP     | SC15D  | 104L2859 Kit | 5/8          |

| Volt. & Freq.                        | Application | Model     | Code No.       | Nominal (HP) |
|--------------------------------------|-------------|-----------|----------------|--------------|
| 220V-240V / 50Hz                     | LBP/MBP     | SC10CL    | 104L2523 Kit   | 1/3          |
|                                      | LBP/MBP     | SC12CL    | 104L2623 Kit   | 3/8          |
|                                      | LBP/MBP     | SC15CL    | 104L2853 Kit   | 1/2          |
|                                      | LBP/MBP     | SC18CL    | 104L2123 Kit   | 5/8          |
|                                      | LBP         | SC21CL    | 104L2322 Kit   | 7/8          |
| 220V-240V / 50Hz<br>208V-230V / 60Hz | LBP/MBP     | SC10CLX   | 104L2533 Kit   | 1/3          |
|                                      | LBP         | SC12CLX.2 | 104L2697 Kit   | 1/2          |
|                                      | LBP         | SC15CLX.2 | 104L2896 Kit   | 1/2          |
|                                      | LBP         | SC18CLX.2 | 104L2197 Kit   | 3/4          |
| 220V-240V / 50Hz<br>208V-230V / 60Hz | MBP         | SC10MLX   | 104L2506 Kit   | 1/2          |
|                                      | MBP         | SC12MLX   | 104L2606 Kit   | 5/8          |
| 220V-240V / 50Hz                     | MBP         | SC15MLX   | 104L2869 Kit   | 3/4          |
|                                      | MBP         | SC18MLX   | 104L2139 Kit   | 7/8          |
|                                      | MBP         | SC18MLX.3 | 104L2146 Kit   | 7/8          |
| 208V-230V / 60Hz                     | MBP         | SC15MLX.2 | 104L2803 Kit   | 7/8          |
|                                      | MBP         | SC18MLX   | 104L2138 Kit   | 7/8          |
| 115V / 60Hz                          | MBP         | SC12MLX   | 104L1606 Kit-1 | 5/8          |
|                                      | MBP         | SC12MLX   | 104L1606 Kit-2 | 5/8          |
|                                      | MBP         | SC15MLX   | 104L1805 Kit-1 | 3/4          |
|                                      | MBP         | SC15MLX   | 104L1805 Kit-2 | 3/4          |
|                                      | MBP         | SC15MLX.2 | 104L1807 Kit   | 3/4          |
|                                      | MBP         | SC18MLX   | 104L2105 Kit-1 | 7/8          |
|                                      | MBP         | SC18MLX   | 104L2105 Kit-2 | 7/8          |
| 208V-230V / 60Hz                     | LBP         | SC15CLX.2 | 104L2897 Kit   | 1/2          |
|                                      | LBP         | SC18CLX.2 | 104L2195 Kit   | 3/4          |
| 115V / 60Hz                          | LBP         | SC12CLX.2 | 104L1696 Kit   | 1/2          |
|                                      | LBP         | SC15CLX.2 | 104L1853 Kit-1 | 1/2          |
|                                      | LBP         | SC15CLX.2 | 104L1853 Kit-2 | 1/2          |
|                                      | LBP         | SC18CLX.2 | 104L2198 Kit-1 | 3/4          |
|                                      | LBP         | SC18CLX.2 | 104L2198 Kit-2 | 3/4          |
|                                      | LBP         | SC12CL    | 104L1603 Kit   | 3/8          |
|                                      | LBP         | SC10CL    | 104L1503 Kit   | 1/3          |
| 220V-240V / 50-60Hz                  | LBP         | SC12CLX.2 | 104L2662 Kit   | 1/2          |
| 208V-230V / 60Hz                     | LBP         | SC18CLX.2 | 104L2185 Kit   | 3/4          |
| 220V-240V / 50Hz                     | LBP         | SC18CLX.2 | 104L2191 Kit   | 3/4          |

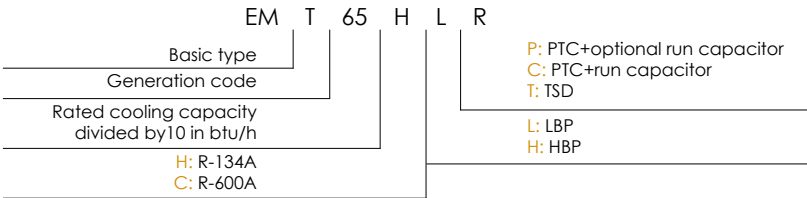
R134A

| Volt. & Freq.       | Application | Model   | Code No.       | Nominal (HP) |
|---------------------|-------------|---------|----------------|--------------|
| 220V-240V / 50Hz    | LBP/MBP/HPB | SC10G   | 104G8000 Kit   | 1/3          |
|                     | LBP/MBP/HPB | SC12G   | 104G8240 Kit   | 1/3          |
|                     | LBP/MBP/HPB | SC15G   | 104G8520 Kit   | 1/3          |
|                     | LBP/MBP/HPB | SC18G   | 104G8820 Kit   | 1/2          |
|                     | LBP/MBP/HPB | SC21G   | 104G8140 Kit   | 3/4          |
|                     | LBP/MBP/HPB | SC21G   | 104G8124 Kit   | 3/4          |
| 115V / 60Hz         | LBP/MBP/HPB | SC12G   | 104G7250 Kit   | 1/3          |
|                     | LBP/MBP/HPB | SC15G   | 104G7550 Kit   | 1/3          |
|                     | LBP/MBP/HPB | SC18G   | 104G7800 Kit-1 | 1/2          |
|                     | LBP/MBP/HPB | SC18G   | 104G7800 Kit-2 | 1/2          |
| 220V-240V / 50Hz    | MBP/HBP     | SC15DL  | 104L2866 Kit   | 1/2          |
| 115V-127V 60Hz      | LMP/MBP     | SC15FTX | 104G7505 Kit   | 1/2          |
| 220V-240V 50Hz/60Hz | MBP         | SC15MFX | 104G8501 Kit   | 3/8          |



Reciprocating Compressor for Refrigeration

| Voltage/Frequency | Application | Cooling Capacity. (HP) | Model      | Cooling Capacity. (HP) | COP (W/W) | QTY/PALLET (PCS) |
|-------------------|-------------|------------------------|------------|------------------------|-----------|------------------|
| 220V-240V / 50Hz  | LBP         | 1/8 HP                 | CMA042LHEG | 107                    | 1.35      | 72               |
|                   | LBP         | 1/6 HP                 | CMA053LHEG | 150                    | 1.42      | 72               |
|                   | LBP         | 1/5 HP                 | CMA057LHEG | 163                    | 1.42      | 72               |
|                   | LBP         | 1/4 HP                 | CMA069LHEM | 187                    | 1.51      | 72               |
|                   | LBP         | 1/4+ HP                | CMA075LAEM | 215                    | 1.67      | 72               |
| 220V / 50, 60Hz   | LBP         | 1/3 HP                 | LX95LHBM   | 267                    | 1.28      | 64               |



Compressor for Household Applications

| Volt. & Freq. | Application | Cooling Capacity. (HP) | Model     | Remark       |
|---------------|-------------|------------------------|-----------|--------------|
| 220V / 50Hz   | LBP         | 1/2 HP                 | NEK2134GK |              |
|               | MBP         | 1/2 HP                 | NEK6210GK |              |
|               | MBP         | 1/2 HP                 | NEK6213GK |              |
|               | LBP         | 3/4 HP                 | NEK2168GK |              |
|               | LBP         | 1 HP                   | NEU2178GK |              |
|               | LBP         | 1 HP                   | NT2180GK  |              |
|               | MBP         | 1-1/2 HP               | NJ9238GK  | 33PCS/PALLET |
|               | MBP         | 1 HP                   | NT6226GK  | 44PCS/PALLET |
|               | LBP         | 1 HP                   | NEU2178GK |              |
|               | LBP         | 3/4 HP                 | NEK2168GK |              |
|               | MBP         | 1/2 HP                 | NEK6210GK |              |
|               |             |                        |           |              |



OEM brand (R134A, LBP)

HL series: applied for small refrigerator, minibar, ice maker, water dispenser and other refrigeration appliance.

| Model    | Power Supply  | Displ.<br>(cm³) | Horsepower<br>(HP) | Current<br>(A) | Cooling Capacity |         | Cooling | Motor Type |
|----------|---------------|-----------------|--------------------|----------------|------------------|---------|---------|------------|
|          |               |                 |                    |                | Watt             | Btu/Hr. |         |            |
| QD25     | 220-240V/50Hz | 2.5             | 1/12               | 0.52           | 55               | 188     | 0.90    | RSIR       |
| QD28     | 220-240V/50Hz | 2.8             | 1/11               | 0.59           | 70               | 239     | 0.96    | RSIR       |
| QD35     | 220-240V/50Hz | 3.5             | 1/9                | 0.67           | 82               | 280     | 1.01    | RSIR       |
| QD25H11G | 110-115V/60Hz | 2.5             | 1/12               | 1.02           | 64               | 218     | 1.00    | RSIR       |
| QD28H11G | 110-115V/60Hz | 2.8             | 1/11               | 1.14           | 80               | 273     | 1.03    | RSIR       |
| QD35H11G | 110-115V/60Hz | 3.5             | 1/9                | 1.31           | 95               | 324     | 1.06    | RSIR       |

Y series: applied for water dispenser, ice maker and other refrigeration appliance.

| Model  | Power Supply  | Displ.<br>(cm³) | Cooling Capacity<br>(W) | Input Power<br>(W) | Cooling Capacity |         | Cooling | Motor Type |
|--------|---------------|-----------------|-------------------------|--------------------|------------------|---------|---------|------------|
|        |               |                 |                         |                    | Watt             | Btu/Hr. |         |            |
| QD30LW | 220-240V/50Hz | 3.0             | 68                      | 73                 | 0.60             | 0.93    | S       | RSIR       |
| QD30LW | 110-115V/60Hz | 3.0             | 76                      | 76                 | 1.10             | 1.00    | S       | RSIR       |
| QD36LW | 220-240V/50Hz | 3.6             | 86                      | 92                 | 0.74             | 0.93    | S       | RSIR       |
| QD36LW | 110-115V/60Hz | 3.6             | 94                      | 96                 | 1.25             | 0.98    | S       | RSIR       |
| QD30   | 220-240V/50Hz | 3.0             | 62                      | 68                 | 0.58             | 0.91    | S       | RSIR       |
| QD30   | 110-115V/60Hz | 3.0             | 70                      | 72                 | 1.00             | 0.97    | S       | RSIR       |
| QD36   | 220-240V/50Hz | 3.6             | 80                      | 88                 | 0.70             | 0.91    | S       | RSIR       |
| QD36   | 110-115V/60Hz | 3.6             | 88                      | 90                 | 1.20             | 0.98    | S       | RSIR       |

HB series: applied for refrigerator, freezer, showcase, wine cooler and other refrigeration appliance.

| Model    | Power Supply  | Displ.<br>(cm³) | Horsepower<br>(HP) | Current<br>(A) | Cooling Capacity |         | Cooling | Motor Type |
|----------|---------------|-----------------|--------------------|----------------|------------------|---------|---------|------------|
|          |               |                 |                    |                | Watt             | Btu/Hr. |         |            |
| QD43     | 220-240V/50Hz | 4.3             | 1/7                | 0.82           | 112              | 382     | 1.11    | RSIR       |
| QD52     | 220-240V/50Hz | 5.2             | 1/6                | 0.86           | 128              | 437     | 1.19    | RSIR       |
| QD59     | 220-240V/50Hz | 5.9             | 1/5-               | 0.98           | 148              | 505     | 1.23    | RSIR       |
| QD43H11G | 110-115V/60Hz | 4.3             | 1/6                | 1.45           | 125              | 427     | 1.18    | RSIR       |
| QD52H11G | 110-115V/60Hz | 5.2             | 1/5                | 1.72           | 154              | 525     | 1.22    | RSIR       |

HW series: applied for big size refrigerator, freezer, showcase, wine cooler and other large and medium size refrigeration appliance.

| Model    | Power Supply  | Displ.<br>(cm³) | Horsepower<br>(HP) | Current<br>(A) | Cooling Capacity |         | Cooling | Motor Type |
|----------|---------------|-----------------|--------------------|----------------|------------------|---------|---------|------------|
|          |               |                 |                    |                | Watt             | Btu/Hr. |         |            |
| QD65     | 220-240V/50Hz | 6.5             | 1/5                | 1.20           | 168              | 573     | 1.27    | RSIR       |
| QD76HG   | 220-240V/50Hz | 7.6             | 1/4-               | 1.30           | 188              | 641     | 1.28    | RSIR       |
| QD91HG   | 220-240V/50Hz | 9.1             | 1/4                | 1.60           | 232              | 792     | 1.30    | RSIR       |
| QD65H11G | 110-115V/60Hz | 6.5             | 1/4-               | 2.03           | 195              | 665     | 1.25    | RSIR       |
| QD76H11G | 110-115V/60Hz | 7.6             | 1/4                | 2.32           | 210              | 717     | 1.28    | RSIR       |
| QD91H11G | 110-115V/60Hz | 9.1             | 1/4+               | 2.80           | 260              | 887     | 1.22    | RSIR       |

HQ series: applied for big size refrigerator, freezer, showcase, wine cooler and other large refrigeration appliance.

| Model     | Power Supply  | Displ.<br>(cm³) | Horsepower<br>(HP) | Current<br>(A) | Cooling Capacity |         | Cooling | Motor Type |
|-----------|---------------|-----------------|--------------------|----------------|------------------|---------|---------|------------|
|           |               |                 |                    |                | Watt             | Btu/Hr. |         |            |
| QD110HG   | 220-240V/50Hz | 11.0            | 1/3                | 1.90           | 280              | 955     | 1.32    | RSIR       |
| QD128HG   | 220-240V/50Hz | 12.8            | 3/8                | 2.20           | 320              | 1092    | 1.35    | RSIR       |
| QD142HG   | 220-240V/50Hz | 14.2            | 1/2                | 2.50           | 360              | 1228    | 1.35    | CSIR       |
| QD153HG   | 220-240V/50Hz | 15.3            | 1/2                | 2.80           | 390              | 1331    | 1.35    | CSIR       |
| QD110H11G | 110-115V/60Hz | 11.0            | 1/3+               | 3.50           | 300              | 1024    | 1.21    | RSIR       |

Semi-hermetic Reciprocating Compressor



|                                |   |   |                                  |   |   |   |
|--------------------------------|---|---|----------------------------------|---|---|---|
| 4                              | F | E | S                                | - | 3 | Y |
| Number of cylinders            |   |   | Code for ester oil charge        |   |   |   |
| Code for bore x stroke         |   |   | Code for motor size              |   |   |   |
| Code for Bitzer Ecoline series |   |   | Code for centrifugal lubrication |   |   |   |

Performance Data for R-134A & R-404A

| Model    | Cond. Temp. | Cooling Capacity (kW) R-134A |       |       |       |       |       |       |    | Cond. Temp. | Cooling Capacity (kW) R-404A |       |       |       |       |       |       |       |       |  |
|----------|-------------|------------------------------|-------|-------|-------|-------|-------|-------|----|-------------|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
|          |             | Evaporating Temp. °C         |       |       |       |       |       |       |    |             | Evaporating Temp. °C         |       |       |       |       |       |       |       |       |  |
|          |             | 10                           | 5     | 0     | -5    | -10   | -15   | -20   | 5  |             | 0                            | -5    | -10   | -15   | -20   | -25   | -30   | -35   | -40   |  |
| 2KES-05Y | 40          | 2.77                         | 2.25  | 1.81  | 1.42  | 1.09  | 0.82  | 0.58  | 30 | 4.29        | 3.57                         | 2.94  | 2.39  | 1.92  | 1.51  | 1.16  | 0.87  | 0.61  | 0.40  |  |
|          | 50          | 2.42                         | 1.96  | 1.57  | 1.22  | 0.93  | 0.69  | 0.47  | 40 | 3.52        | 2.92                         | 2.39  | 1.94  | 1.54  | 1.20  | 0.90  | 0.65  | 0.44  | 0.26  |  |
|          | 60          | 2.09                         | 1.69  | 1.35  | 1.05  | 0.79  | 0.57  | 0.39  | 50 | 2.81        | 2.32                         | 1.89  | 1.52  | 1.19  | 0.91  | 0.67  | 0.46  | 0.29  | 0.14  |  |
| 2HES-1Y  | 40          | 4.65                         | 3.82  | 3.10  | 2.49  | 1.96  | 1.52  | 1.14  | 30 | -           | 5.92                         | 4.91  | 4.04  | 3.28  | 2.63  | 2.07  | 1.59  | 1.18  | 0.84  |  |
|          | 50          | 4.08                         | 3.33  | 2.69  | 2.15  | 1.68  | 1.28  | 0.94  | 40 | -           | 4.95                         | 4.09  | 3.34  | 2.69  | 2.13  | 1.65  | 1.24  | 0.89  | 0.60  |  |
|          | 60          | 3.51                         | 2.85  | 2.29  | 1.81  | 1.39  | 1.04  | 0.74  | 50 | -           | 4.00                         | 3.29  | 2.67  | 2.13  | 1.66  | 1.25  | 0.91  | 0.62  | 0.37  |  |
| 2FES-2Y  | 40          | 6.85                         | 5.64  | 4.59  | 3.69  | 2.92  | 2.27  | 1.72  | 30 | -           | 8.69                         | 7.22  | 5.94  | 4.83  | 3.87  | 3.05  | 2.35  | 1.75  | 1.25  |  |
|          | 50          | 5.88                         | 4.82  | 3.91  | 3.13  | 2.45  | 1.88  | 1.40  | 40 | -           | 7.19                         | 5.96  | 4.88  | 3.95  | 3.15  | 2.45  | 1.86  | 1.36  | 0.93  |  |
|          | 60          | 4.96                         | 4.06  | 3.27  | 2.60  | 2.02  | 1.53  | 1.11  | 50 | -           | 5.77                         | 4.77  | 3.90  | 3.14  | 2.48  | 1.91  | 1.42  | 1.00  | 0.65  |  |
| 2DES-2Y  | 40          | 10.24                        | 8.39  | 6.80  | 5.45  | 4.30  | 3.32  | 2.51  | 30 | -           | 12.99                        | 10.81 | 8.91  | 7.27  | 5.86  | 4.64  | 3.59  | 2.71  | 1.96  |  |
|          | 50          | 8.87                         | 7.26  | 5.87  | 4.68  | 3.67  | 2.81  | 2.09  | 40 | -           | 11.04                        | 9.17  | 7.54  | 6.12  | 4.90  | 3.85  | 2.94  | 2.18  | 1.53  |  |
|          | 60          | 7.53                         | 6.13  | 4.94  | 3.91  | 3.04  | 2.20  | 1.68  | 50 | -           | 8.96                         | 7.42  | 6.07  | 4.89  | 3.87  | 2.99  | 2.24  | 1.60  | 1.07  |  |
| 4FES-3Y  | 40          | 13.59                        | 11.04 | 8.88  | 7.06  | 5.52  | 4.24  | 3.19  | 30 | -           | 17.51                        | 14.46 | 11.84 | 9.61  | 7.70  | 6.10  | 4.75  | 3.64  | 2.72  |  |
|          | 50          | 11.65                        | 9.44  | 7.56  | 5.97  | 4.63  | 3.51  | 2.59  | 40 | -           | 14.84                        | 12.26 | 10.04 | 8.14  | 6.52  | 5.14  | 3.99  | 3.03  | 2.25  |  |
|          | 60          | 9.73                         | 7.84  | 6.24  | 4.88  | 3.73  | 2.78  | 1.99  | 50 | -           | 12.03                        | 9.94  | 8.14  | 6.58  | 5.25  | 4.12  | 3.17  | 2.38  | 1.73  |  |
| 4DES-5Y  | 40          | 20.50                        | 16.69 | 13.47 | 10.75 | 8.46  | 6.55  | 4.98  | 30 | -           | 26.20                        | 21.75 | 17.86 | 14.54 | 11.70 | 9.28  | 7.25  | 5.55  | 4.14  |  |
|          | 50          | 17.65                        | 14.36 | 11.55 | 9.18  | 7.18  | 5.51  | 4.13  | 40 | -           | 22.40                        | 18.53 | 15.19 | 12.32 | 9.87  | 7.79  | 6.03  | 4.58  | 3.37  |  |
|          | 60          | 14.83                        | 12.03 | 9.63  | 7.60  | 5.89  | 4.45  | 3.27  | 50 | -           | 18.44                        | 15.22 | 12.44 | 10.04 | 8.00  | 6.26  | 4.80  | 3.60  | 2.60  |  |
| 4VES-7Y  | 40          | 26.95                        | 22.00 | 17.72 | 14.09 | 11.02 | 8.44  | 6.29  | 30 | -           | 34.10                        | 28.15 | 23.00 | 18.59 | 14.82 | 11.60 | 8.89  | 6.63  | 4.75  |  |
|          | 50          | 22.95                        | 18.68 | 15.00 | 11.85 | 9.16  | 6.86  | 4.96  | 40 | -           | 28.80                        | 23.65 | 19.18 | 15.36 | 12.11 | 9.35  | 7.04  | 5.13  | 3.56  |  |
|          | 60          | 19.06                        | 15.48 | 12.38 | 9.69  | 7.38  | 5.40  | 3.70  | 50 | -           | 23.55                        | 19.18 | 15.43 | 12.21 | 9.48  | 7.19  | 5.28  | 3.71  | 2.44  |  |
| 4PES-12Y | 40          | 37.45                        | 30.50 | 24.50 | 19.45 | 15.17 | 11.57 | 8.57  | 30 | -           | 47.25                        | 38.90 | 31.75 | 25.60 | 20.35 | 15.90 | 12.16 | 9.05  | 6.50  |  |
|          | 50          | 31.80                        | 25.80 | 20.70 | 16.28 | 12.53 | 9.36  | 6.70  | 40 | -           | 40.00                        | 32.80 | 26.55 | 21.20 | 16.68 | 12.86 | 9.66  | 7.02  | 4.87  |  |
|          | 60          | 26.30                        | 21.30 | 16.97 | 13.24 | 10.02 | 7.26  | 4.91  | 50 | -           | 32.55                        | 26.50 | 21.25 | 16.79 | 13.01 | 9.83  | 7.20  | 5.04  | 3.30  |  |
| 4JE-15Y  | 40          | 48.65                        | 40.05 | 32.65 | 26.30 | 20.85 | 16.23 | 12.33 | 30 | -           | 62.40                        | 51.90 | 42.85 | 34.95 | 28.20 | 22.40 | 17.44 | 13.25 | 9.73  |  |
|          | 50          | 42.25                        | 34.70 | 28.20 | 22.60 | 17.80 | 13.72 | 10.26 | 40 | -           | 53.40                        | 44.30 | 36.40 | 29.55 | 23.65 | 18.60 | 14.30 | 10.68 | 7.65  |  |
|          | 60          | 35.95                        | 29.40 | 23.80 | 18.92 | 14.75 | 11.20 | 8.18  | 50 | -           | 44.20                        | 36.50 | 29.85 | 24.05 | 19.08 | 14.81 | 11.20 | 8.16  | 5.64  |  |
| 4GE-23Y  | 40          | 65.10                        | 53.50 | 43.60 | 35.15 | 27.90 | 21.80 | 16.64 | 30 | -           | 83.80                        | 69.90 | 57.80 | 47.35 | 38.35 | 30.65 | 24.10 | 18.54 | 11.88 |  |
|          | 50          | 56.20                        | 46.00 | 37.25 | 29.80 | 23.45 | 18.11 | 13.64 | 40 | -           | 71.80                        | 59.80 | 49.35 | 40.30 | 32.55 | 25.90 | 20.20 | 15.42 | 11.43 |  |
|          | 60          | 47.00                        | 38.25 | 30.75 | 24.40 | 18.98 | 14.45 | 10.69 | 50 | -           | 59.30                        | 49.30 | 40.60 | 33.05 | 26.55 | 21.00 | 16.29 | 12.32 | 9.01  |  |
| 6JE-25Y  | 40          | 72.50                        | 59.40 | 48.20 | 38.65 | 30.55 | 23.70 | 18.02 | 30 | -           | 92.40                        | 76.90 | 63.50 | 51.90 | 41.85 | 33.25 | 25.95 | 19.79 | 14.61 |  |
|          | 50          | 62.70                        | 51.20 | 41.40 | 33.00 | 25.85 | 19.84 | 14.83 | 40 | -           | 79.40                        | 65.90 | 54.10 | 43.90 | 35.15 | 27.70 | 21.30 | 15.97 | 11.51 |  |
|          | 60          | 52.80                        | 42.95 | 34.50 | 27.30 | 21.15 | 15.99 | 11.68 | 50 | -           | 66.10                        | 54.60 | 44.55 | 35.90 | 28.45 | 22.10 | 16.75 | 12.26 | 8.54  |  |
| 6HE-28Y  | 40          | 85.10                        | 69.80 | 56.80 | 45.70 | 36.30 | 28.35 | 21.70 | 30 | -           | 106.70                       | 88.90 | 73.40 | 60.10 | 48.60 | 38.75 | 30.35 | 23.30 | 17.32 |  |
|          | 50          | 73.80                        | 60.50 | 49.05 | 39.30 | 31.00 | 24.00 | 18.13 | 40 | -           | 91.30                        | 75.90 | 62.60 | 51.00 | 41.00 | 32.45 | 25.15 | 19.02 | 13.88 |  |
|          | 60          | 62.50                        | 51.10 | 41.20 | 32.80 | 25.65 | 19.63 | 14.59 | 50 | -           | 75.70                        | 62.80 | 51.50 | 41.75 | 33.30 | 26.10 | 19.97 | 14.80 | 10.49 |  |