



SEMI-HERMETIC / INVERTER DRIVE

The KD GOLIATH is the largest capacity reduced noise housed semi-hermetic condensing unit manufactured by KD, designed for large cold stores and freezer rooms.

Product features:

- ▶ Multi refrigerant Bock compressor
- ▶ Impingement oil separator
- ▶ Large volume suction accumulator
- ▶ Liquid receiver with refrigerant specific relief valve
- ▶ Fully wired electrical control box
- ▶ Liquid line drier and sight glass
- ▶ Blue fin protected condenser coil
- ▶ Fan speed control for head pressure control
- ▶ HP/LP pressure switch
- ▶ External pressure gauges
- ▶ Acoustically lined compressor compartment

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KD GOLIATH - SEMI HERMETIC

| R449A / MT -30 to +5°C | Model | Capacity (Watts) | | | | | | | | |
|------------------------|---------|------------------|---------|---------|---------|---------|--------|--------|--------|-----|
| | | 10 | 5 | 0 | -5 | -10 | -15 | -20 | -25 | -30 |
| PA075SMG3 | 28,400 | 23,800 | 20,000 | 16,400 | 13,400 | 10,700 | 8,400 | 6,390 | 4,710 | |
| PA100SMG3 | 32,400 | 27,900 | 23,400 | 19,600 | 16,000 | 13,100 | 10,400 | 8,070 | 6,050 | |
| PA125SMG3 | 42,100 | 36,200 | 30,300 | 25,400 | 20,800 | 16,900 | 13,500 | 10,400 | 7,880 | |
| PA150SMG3 | 52,600 | 44,900 | 37,900 | 31,400 | 25,800 | 20,900 | 16,600 | 12,900 | 9,780 | |
| PA200SMG3 | 59,200 | 50,800 | 43,000 | 35,900 | 29,300 | 23,700 | 18,800 | 14,500 | 11,000 | |
| PA250SMG3 | 72,000 | 61,300 | 51,700 | 42,700 | 35,000 | 28,300 | 22,500 | 17,400 | 13,200 | |
| PA300SMG3 | 90,800 | 77,000 | 65,400 | 54,300 | 44,900 | 36,600 | 29,200 | 22,700 | 17,200 | |
| SPA400SMG3 | 123,000 | 104,000 | 87,800 | 72,600 | 59,800 | 48,400 | 38,400 | 29,600 | 22,200 | |
| SPA500SMG3 | 157,000 | 133,000 | 113,000 | 94,700 | 77,500 | 63,000 | 50,400 | 39,100 | 29,600 | |
| SPA600SMG3 | 190,000 | 162,000 | 137,000 | 114,000 | 93,200 | 75,500 | 60,100 | 46,800 | 35,400 | |
| SPA700SMG3 | 224,000 | 191,000 | 161,000 | 134,000 | 110,000 | 88,700 | 70,600 | 54,900 | 41,500 | |
| SPA800SLG3 | - | - | 212,000 | 177,000 | 146,000 | 118,000 | 93,600 | 72,900 | 55,200 | |

| R407F / MT -30 to +5°C | Model | Capacity (Watts) | | | | | | | | |
|------------------------|---------|------------------|---------|---------|---------|---------|--------|--------|--------|-----|
| | | 10 | 5 | 0 | -5 | -10 | -15 | -20 | -25 | -30 |
| PA075SMG3 | 29,300 | 24,600 | 20,700 | 17,200 | 13,800 | 11,100 | 8,660 | 6,600 | 4,840 | |
| PA100SMG3 | 43,200 | 28,700 | 24,100 | 20,300 | 16,600 | 13,500 | 10,700 | 8,310 | 6,220 | |
| PA125SMG3 | 43,200 | 37,300 | 31,400 | 26,400 | 21,600 | 17,600 | 14,000 | 10,900 | 8,110 | |
| PA150SMG3 | 54,600 | 46,400 | 39,300 | 32,800 | 26,800 | 21,700 | 17,300 | 13,400 | 10,100 | |
| PA200SMG3 | 62,200 | 52,800 | 44,900 | 37,600 | 30,800 | 25,600 | 19,900 | 15,400 | 11,600 | |
| PA250SMG3 | 74,000 | 63,300 | 53,500 | 44,400 | 36,500 | 29,500 | 23,440 | 18,000 | 13,500 | |
| PA300SMG3 | 95,200 | 80,900 | 68,700 | 57,500 | 47,100 | 38,100 | 30,300 | 23,300 | 17,400 | |
| SPA400SMG3 | 127,000 | 108,000 | 90,500 | 75,400 | 61,400 | 49,600 | 39,200 | 30,000 | 22,400 | |
| SPA500SMG3 | 162,000 | 139,000 | 117,000 | 97,400 | 79,700 | 64,700 | 51,400 | 39,700 | 29,800 | |
| SPA600SMG3 | 195,000 | 165,000 | 141,000 | 118,000 | 95,500 | 77,500 | 61,300 | 47,300 | 35,500 | |
| SPA700SMG3 | 230,000 | 195,000 | 165,000 | 138,000 | 113,000 | 91,000 | 72,000 | 55,700 | 41,700 | |
| SPA800SLG3 | - | - | 217,000 | 182,000 | 148,000 | 120,000 | 94,400 | 73,500 | 55,400 | |

| Physical data | Model | Dimensions (mm) | | | Connections | | Receiver | Suct | Comp |
|---------------|-------|-----------------|-------|--------|-------------|------|----------|----------------|-------|
| | | Width | Depth | Height | Suct | Liq | (L) | Accum (L) | Model |
| PA075SMG3 | 1470 | 740 | 1450 | 1.1/8" | 5/8" | 14.5 | 4 | HGX34e/315-4S | |
| PA100SMG3 | 1470 | 710 | 1500 | 1.1/8" | 5/8" | 14.5 | 4 | HGX34e/380-4S | |
| PA125SMG3 | 1640 | 760 | 1600 | 1.3/8" | 3/4" | 17 | 11 | HGX44e/475-4S | |
| PA150SMG3 | 1640 | 830 | 1761 | 1.3/8" | 3/4" | 17 | 11 | HGX44e/565-4S | |
| PA200SMG3 | 1840 | 905 | 1811 | 1.3/8" | 7/8" | 17 | 11 | HGX44e/665-4s | |
| PA250SMG3 | 2326 | 905 | 1763 | 1.5/8" | 7/8" | 20 | 11 | HGX44e/770-4S | |
| PA300SMG3 | 2326 | 905 | 1912 | 1.5/8" | 7/8" | 24.5 | 19 | HGX56e/995-4S | |
| SPA400SMG3 | 1950 | 1850 | 2035 | 2.1/8" | 7/8" | 30 | 19 | HGX66e/1340-4S | |
| SPA500SMG3 | 1950 | 1850 | 2084 | 2.1/8" | 1.1/8" | 60 | 19 | HGX66e/1750-4s | |
| SPA600SMG3 | 2680 | 1950 | 1941 | 2.1/8" | 1.1/8" | 60 | 19 | HGX66e/2070-4S | |
| SPA700SMG3 | 2680 | 1950 | 2082 | 3.1/8" | 1.1/8" | 80 | 24.5 | HGX88e/2400-4S | |
| SPA800SLG3 | 3400 | 1950 | 2061 | 3.1/8" | 1.1/8" | 80 | 24.5 | HGX88e/3235-4 | |

| Electrical data | Model | Current | | Power |
|-----------------|-------|---------|----------------|--------|
| | | LRA | MCC | Supply |
| PA075SMG3 | 76 | 14.7 | 400.3.50 (DOL) | |
| PA100SMG3 | 76 | 18 | 400.3.50 (DOL) | |
| PA125SMG3 | 87 | 23 | 400.3.50 (PWS) | |
| PA150SMG3 | 101 | 26 | 400.3.50 (PWS) | |
| PA200SMG3 | 101 | 30 | 400.3.50 (PWS) | |
| PA250SMG3 | 101 | 35 | 400.3.50 (PWS) | |
| PA300SMG3 | 149 | 46.4 | 400.3.50 (PWS) | |
| SPA400SMG3 | 196 | 65.3 | 400.3.50 (PWS) | |
| SPA500SMG3 | 222 | 86.8 | 400.3.50 (PWS) | |
| SPA600SMG3 | 222 | 103 | 400.3.50 (PWS) | |
| SPA700SMG3 | 447 | 120 | 400.3.50 (PWS) | |
| SPA800SLG3 | 447 | 135 | 400.3.50 (PWS) | |

KD GOLIATH - INVERTER DRIVE

● Includes Danfoss inverter drive (25 to 50 Hz range)

| R449A / MT -30 to +5°C | Model | Capacity (Watts) | | | | | | |
|------------------------|-----------|------------------|--------|--------|--------|--------|--------|--------|
| | | 5 | 0 | -5 | -10 | -15 | -20 | -25 |
| | PA125SMG3 | 36,200 | 30,300 | 25,400 | 20,800 | 16,900 | 13,500 | 10,400 |
| PA150SMG3 | 44,900 | 37,900 | 31,400 | 25,800 | 20,900 | 16,600 | 12,900 | 9,780 |
| PA200SMG3 | 50,800 | 43,000 | 35,900 | 29,300 | 23,700 | 18,800 | 14,500 | 11,000 |
| PA250SMG3 | 61,300 | 51,700 | 42,700 | 35,000 | 28,300 | 22,500 | 17,400 | 13,200 |
| PA300SMG3 | 77,000 | 65,400 | 54,300 | 44,900 | 36,600 | 29,200 | 22,700 | 17,200 |
| SPA400SMG3 | 104,000 | 87,800 | 72,600 | 59,800 | 48,400 | 38,400 | 29,600 | 22,200 |
| SPA500SMG3 | 133,000 | 113,000 | 94,700 | 77,500 | 63,000 | 50,400 | 39,100 | 29,600 |

| | | | | | | | | | |
|------------------------|------------|---------|---------|--------|--------|--------|--------|--------|--------|
| R407F / MT -30 to +5°C | PA125SMG3 | 37,300 | 31,400 | 26,400 | 21,600 | 17,600 | 14,000 | 10,900 | 8,110 |
| | PA150SMG3 | 46,400 | 39,300 | 32,800 | 26,800 | 21,700 | 17,300 | 13,400 | 10,100 |
| | PA200SMG3 | 52,800 | 44,900 | 37,600 | 30,800 | 25,600 | 19,900 | 15,400 | 11,600 |
| | PA250SMG3 | 63,300 | 53,500 | 44,400 | 36,500 | 29,500 | 23,440 | 18,000 | 13,500 |
| | PA300SMG3 | 80,900 | 68,700 | 57,500 | 47,100 | 38,100 | 30,300 | 23,300 | 17,400 |
| | SPA400SMG3 | 108,000 | 90,500 | 75,400 | 61,400 | 49,600 | 39,200 | 30,000 | 22,400 |
| | SPA500SMG3 | 139,000 | 117,000 | 97,400 | 79,700 | 64,700 | 51,400 | 39,700 | 29,800 |

| Physical data | Model | Dimensions (mm) | | | Connections | | Receiver | Suct | Comp |
|---------------|-------------|-----------------|-------|--------|-------------|--------|----------|-----------|----------------|
| | | Width | Depth | Height | Suct | Liq | (L) | Accum (L) | Model |
| | PA125SMG3I | 1640 | 760 | 1600 | 1.3/8" | 3/4" | 17 | 11 | HGX44e/475-4S |
| | PA150SMG3I | 1640 | 830 | 1761 | 1.3/8" | 3/4" | 20 | 11 | HGX44e/565-4S |
| | PA200SMG3I | 1840 | 905 | 1811 | 1.5/8" | 7/8" | 20 | 11 | HGX44e/665-4s |
| | PA250SMG3I | 2326 | 905 | 1763 | 1.5/8" | 7/8" | 20 | 11 | HGX44e/770-4S |
| | PA300SMG3I | 2326 | 905 | 1912 | 2.1/8" | 7/8" | 24.5 | 19 | HGX56e/995-4S |
| | SPA400SMG3I | 1950 | 1850 | 2035 | 2.1/8" | 7/8" | 30 | 19 | HGX66e/1340-4S |
| | SPA500SMG3I | 1950 | 1850 | 2084 | 2.1/8" | 1.1/8" | 60 | 19 | HGX66e/1750-4S |

| Electrical data | Model | Current | | Power |
|-----------------|-------------|---------|------|--------------|
| | | LRA | MCC | Supply (PWS) |
| | PA125SMG3I | 87 | 23 | 400.3.50 |
| | PA150SMG3I | 101 | 26 | 400.3.50 |
| | PA200SMG3I | 101 | 30 | 400.3.50 |
| | PA250SMG3I | 101 | 35 | 400.3.50 |
| | PA300SMG3I | 149 | 46.4 | 400.3.50 |
| | SPA400SMG3I | 196 | 65.3 | 400.3.50 |
| | SPA500SMG3I | 222 | 86.8 | 400.3.50 |

The LRA shown is a nominal rating for the standard compressor, actual LRA will be lower by virtue of the inverter drive.



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