



GOLIATH

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

Exclusively from

KD GOLIATH - SEMI HERMETIC

R404A / MT -30°C to +5°C

Model	Capacity Watts - Evap Temp°C								
	10	5	0	-5	-10	-15	-20	-25	-30
PA125SMG3	-	35,600	30,000	25,400	21,000	17,300	14,100	11,200	8,630
PA150SMG3	-	44,400	37,800	31,600	26,300	21,600	17,500	13,900	10,800
PA200SMG3	-	49,800	42,600	36,000	29,700	24,400	19,800	15,600	12,100
PA250SMG3	-	60,600	51,600	43,000	35,800	29,400	23,600	18,800	14,600
PA300SMG3	-	69,300	59,400	49,600	41,500	34,100	27,500	21,800	16,700
SPA400SMG3	-	103,000	88,300	74,800	61,800	50,900	41,100	32,200	24,700

R449A / MT -30°C to +5°C

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

R134a / MT -30°C to +5°C

PA125SMG3	29,600	24,800	20,500	16,700	13,400	10,500	8,020	5,960	4,240
PA150SMG3	36,500	30,400	25,200	20,500	16,400	12,900	9,860	7,350	5,260
PA200SMG3	41,800	34,800	28,800	23,400	18,800	14,700	11,200	8,290	5,870
PA250SMG3	49,900	41,500	34,300	27,900	22,200	17,500	13,400	9,930	7,100
PA300SMG3	58,600	49,000	40,700	33,200	26,600	20,900	15,900	11,700	8,080
SPA400SMG3	85,400	71,500	59,200	48,200	38,500	29,900	22,700	16,800	12,000

R407F / MT -30°C to +5°C

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	23,400	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

Physical data

Model	Dimensions (mm)			Connections		Receiver	Suct	Comp
	Width	Depth	Height	Suct	Liq	(L)	Accum (L)	Model
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

Electrical data

Model	Current		Power
	LRA	MCC	Supply (PWS)
PA125SMG3	87	23	400.3.50
PA150SMG3	101	26	400.3.50
PA200SMG3	101	30	400.3.50
PA250SMG3	101	35	400.3.50
PA300SMG3	149	46.4	400.3.50
SPA400SMG3	196	65.3	400.3.50

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

R449A / MT -30°C to +5°C -25 to 50Hz

Duties shown are at 50 Hz

Model	Capacity Watts							
	5	0	-5	-10	-15	-20	-25	-30
PA125SMG3I	36,200	30,300	25,400	20,800	16,900	13,500	10,400	7,880
PA150SMG3I	44,900	37,900	31,400	25,800	20,900	16,600	12,900	9,780
PA200SMG3I	50,800	43,000	35,900	29,300	23,700	18,800	14,500	11,000
PA250SMG3I	61,300	51,700	42,700	35,000	28,300	22,500	17,400	13,200
PA300SMG3I	77,000	65,400	54,300	44,900	36,600	29,200	22,700	17,200
SPA400SMG3I	104,000	87,800	72,600	59,800	48,400	38,400	29,600	22,200
SPA500SMG3I	Tbc	Tbc	Tbc	Tbc	Tbc	Tbc	Tbc	Tbc

R407F / MT -30°C to +5°C -25 to 50Hz

PA125SMG3I	37,300	31,400	26,400	21,600	17,600	14,000	10,900	8,110
PA150SMG3I	46,400	39,300	32,800	26,800	21,700	17,300	13,400	10,100
PA200SMG3I	52,800	44,900	37,600	30,800	25,600	19,900	15,400	11,600
PA250SMG3I	63,300	53,500	44,400	36,500	29,500	23,440	18,000	13,500
PA300SMG3I	80,900	68,700	57,500	47,100	38,100	30,300	23300	17400
SPA400SMG3I	108,000	90,500	75,400	61,400	49,600	39,200	30,000	22,400
SPA500SMG3I	131,000	111,000	93,400	76,600	62,100	49,200	-	-

R134a / MT -30°C to +5°C -25 to 50Hz

PA125SMG3I	24,800	20,500	16,700	13,400	10,500	8,020	5,960	4,240
PA150SMG3I	30,400	25,200	20,500	16,400	12,900	9,860	7,350	5,260
PA200SMG3I	34,800	28,800	23,400	18,800	14,700	11,200	8,290	5,870
PA250SMG3I	41,500	34,300	27,900	22,200	17,500	13,400	9,930	7,100
PA300SMG3I	53,200	43,700	35,600	28,400	22,000	16,700	12300	8750
SPA400SMG3I	71,500	59,200	48,200	38,500	29,900	22,700	16,800	12,000
SPA500SMG3I	90,400	74,500	61,000	49,200	38,900	30,300	23,000	13,800

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"	17	11	HGX44e/565-4S
PA200SMG3I	1840	905	1811	1.5/8"	7/8"	17	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	HGX7/1860-4s

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	291	104	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.

LONDON

Ernest Avenue
West Norwood
London SE27 0DA

OH: 8:30 to 17:00
T: 020 8655 7600
E: sales@
thermofrostcryo.co.uk

BIRMINGHAM

Rea Street South
Birmingham B5 6LB

OH: 8:30 to 17:00
T: 0121 666 4700
E: birminghamsales@
thermofrostcryo.co.uk

MANCHESTER

530 Stretford Road
Manchester M16 9AF

OH: 8:30 to 17:30
T: 0161 872 2000
E: manchestersales@
thermofrostcryo.co.uk



North & Scotland

Steven Rawle
T: 07836 569 524
E: sr@thermofrostcryo.co.uk

Midlands & North Wales

Rob Ray
T: 07713 654 508
E: rr@thermofrostcryo.co.uk

South West & S. Wales

Steve Sewell
T: 07831 652 296
E: sas@thermofrostcryo.co.uk

South East

Frazer McCulloch
T: 07713 654 509
E: fm@thermofrostcryo.co.uk



South & East Anglia

Alex Donaldson
T: 07866 438 130
E: ad@thermofrostcryo.co.uk