

Performance data - 60 Hz

Performance data are based on the latest edition of AHRI540 and 60 Hz operation with 20°F suction gas superheat and 15°F subcooling – running-in period 72 hours.

Saturated suction and discharge temperatures correspond to "dew point" conditions (saturated vapor). For Economizer operation data based on 18°F temperature difference at the heat exchanger and 15°F subcooling in the condenser.

Technical data/Performance data - 60 Hz

ORBIT

Compressor type ③	Dis- place- ment 60 Hz CFM	Speed range	Oil charge ① fl.oz	Weight lbs	Cooling capacity Q _o SST/SDT 45°F/130°F kBtu/h				EER SST/SDT 45°F/130°F Btu/W				Motor connec- tion ②	Electrical data ③		
					R410A	R454B④	R452B④	R32④	R410A	R454B④	R452B④	R32④		max. operat. amps (MOA) Amp.	max. power consumption kW	Starting current LRA Amp.
GSD60120V	14.1	35..75 Hz	91	181	124.0	118.9	119.0	134.3	11.42	12.01	11.68	11.77	380..420 V/3/50 Hz 440..480 V/3/60 Hz	21.9	14.6	122
GSD60137V	15.8		91	181	138.0	132.8	133.1	149.7	11.32	12.13	11.70	11.75		24.3	16.4	137
GSD60154V	17.6		91	181	154.7	148.2	149.3	167.8	11.36	11.87	11.70	11.82		26.3	18.3	145
GSD60182V	20.7		91	181	183.6	175.2	177.5	199.8	11.40	11.61	11.82	11.86		31.7	21.5	180
GSD60235V	26.7		91	183	236.0	226.0	228.0	257.0	11.26	11.31	11.36	11.44		40.7	28.2	211
GSD80235V	28.0		185	309	244.0	–	–	–	10.20	–	–	–		49.0	32.0	213
GSD80295V	34.0		185	313	304.0	286.0	288.0	325.0	11.05	11.12	11.24	11.34		54.0	37.0	212
GSD80385V	44.0		185	317	395.0	377.0	376.0	423.0	11.04	11.27	11.33	11.42		66.0	45.0	316
GSD80421V	48.1		185	316	425.0	401.0	402.0	455.0	10.99	11.16	11.18	11.25		75.0	50.0	316
GSD80485V	55.0		185	352	482.0	459.0	455.0	515.0	10.99	11.47	11.14	11.25		85.0	57.0	298

ORBIT Boreal

Compressor type ③	Dis- place- ment 60 Hz CFM	Speed range	Oil charge ① fl.oz	Weight lbs	Cooling capacity Q _o SST/SDT 40°F/100°F kBtu/h	EER SST/SDT 40°F/100°F Btu/W	Motor connec- tion ②	Electrical data ③		
					R410A	R410A		max. operat. amps (MOA) Amp.	max. power consumption kW	Starting current LRA Amp.
GSD80235V	28.0	35..75 Hz	185	309	277.0	17.92	380..420 V/3/50 Hz 440..480 V/3/60 Hz	39.0	27.0	213
GSD80295V	34.0		185	313	332.0	17.90		47.0	32.0	212
GSD80385V	44.0		185	317	426.0	17.98		60.0	41.0	277
GSD80421V	48.1		185	316	496.0	17.93		66.0	45.0	316
GSD80485V	55.0		185	352	525.0	17.80		74.0	51.0	316

Subject to change

Technical data/Performance data - 60 Hz

ORBIT+

Compressor type ③	Displacement 60 Hz CFM	Speed range	Oil charge ① fl.oz	Weight lbs	Cooling capacity Q _o SST/SDT 45°F/130°F kBtu/h				EER SST/SDT 45°F/130°F Btu/W				Motor connection ②	Electrical data ③		
					R410A	R454B④	R452B④	R32④	R410A	R454B④	R452B④	R32④		max. operat. amps (MOA) Amp.	max. power consumption kW	Starting current LRA Amp.
GSU60120V	14.6	35..75 Hz	91	182.5	127.30	121.90	122.1	138.40	11.91	12.27	12.00	12.12	380..420 V/3/50 Hz 440..480 V/3/60 Hz	17.8	14.1	95
GSU60137V	16.4		91	182.5	141.90	136.10	136.6	154.30	12.02	12.36	12.00	12.08		20.6	15.4	109
GSU60154V	18.2		91	182.5	159.10	152.40	153.6	173.50	11.94	12.30	12.26	12.34		24.6	17.0	108
GSU60182V	21.5		91	182.5	189.50	181.10	183.5	207.80	11.94	12.22	12.51	12.63		27.9	19.9	124
GSU60235V	27.7		91	184.5	244.50	234.40	236.0	266.60	11.65	11.97	12.09	12.15		40.4	27.2	152
GSU80295V	35.5		194	316.3	311.10	297.40	299.0	341.30	11.46	11.79	11.96	12.20		49.0	34.8	207
GSU80385V	45.5		194	320.3	401.70	388.80	387.0	438.70	11.45	11.84	11.95	12.15		66.0	44.5	271
GSU80421V	49.7		194	319.3	434.70	414.80	415.0	473.50	11.47	11.81	11.88	12.09		72.0	48.4	271

ORBIT FIT

Compressor type ③	Displacement 60 Hz CFM	Speed range	Oil charge ① fl.oz	Weight lbs	Cooling capacity Q _o SST/SDT 5°F/95°F kBtu/h				EER SST/SDT 5°F/95°F Btu/W				Motor connection ②	Electrical data ③		
					R410A	R454B④	R452B④	R32④	R410A	R454B④	R452B④	R32④		max. operat. amps (MOA) Amp.	max. power consumption kW	Starting current LRA Amp.
GED60120V	14.1	35..75 Hz	91	181	76.7	71.9	71.5	79.0	10.00	10.35	9.92	9.92	380..420 V/3/50 Hz 440..480 V/3/60 Hz	26.1	14.6	137
GED60137V	15.8		91	181	87.6	82.7	81.9	90.7	10.18	10.79	10.22	10.21		28.9	16.4	145
GED60154V	17.6		91	181	97.9	91.6	91.5	101.5	10.20	10.48	10.27	10.26		34.0	18.3	211
GED60182V	20.7		91	181	116.2	107.3	109.3	121.3	10.40	10.23	10.29	10.34		38.2	21.5	211
GED60235V	26.7		91	183	146.3	138.3	139.6	155.5	9.96	9.89	9.99	10.02		47.4	28.2	211
GED80295V	34.0		194	318	192.5	178.5	179.0	198.4	10.23	10.25	10.25	10.29		57.8	37.0	316
GED80385V	44.0		194	351	249.0	234.0	232.0	259.0	10.16	10.26	10.28	10.35		74.1	45.0	298
GED80421V	48.0		194	351	266.0	247.0	248.0	274.0	10.09	10.06	10.11	10.12		81.5	50.0	298
GED80485V	55.0	194	362	307.0	284.0	283.0	314.0	10.36	10.54	10.24	10.26	85.0	60.5	387		

① Charged with polyvinyl ether BVC32.

② Other voltages and electrical supplies upon request.

③ For the selection of contactors, cables and fuses the max. operating amps (MOA) and the max. power consumption must be considered ("Electrical data").
Contactors: operational category AC3.

④ Low GWP refrigerants belonging to the safety group A2L, according to ISO 817. Follow all applicable national and local regulations. See BITZER Refrigerant Report A-501 for more information.

Oil heater (option)

ORBIT 6: 90 W, 115 V/230 V/460 V/575 V.
ORBIT 8: 140 W, 115 V/230 V/460 V/575 V.

Pipe connections:

ORBIT 6:

SL: 1 3/8 inch

DL: 7/8 inch

ORBIT 8:

SL: 1 5/8 inch

DL: 1 3/8 inch

Contact BITZER for information on Rotalock connections.

Further performance data see BITZER SOFTWARE.

Subject to change