



TECHNICAL SPECIFICATIONS

COOLING OPERATION AMBIENT TEMPERATURE RANGE

CODE	ITEM	UNIT	SPECIFICATION				
1	MODEL	—	GWHD(18)ND3JO	GWHD(24)ND3JO	GWHD(36)ND3JO	GWHD(42)ND3JO	GWHD(48)HD3DO
2	PRODUCT CODE	—	CB228W09400	CB228W09500	CB228W09600	CB228W09700	CN860W0330
3	SERIES NAME	—	FREE MATCH	FREE MATCH	FREE MATCH	FREE MATCH	SUPER MATCH
4	COOLING CAPACITY	KW	5,3	6,45	10,55	12,3	14
5	COOLING CAPACITY	BTU/H	18000	22000	36000	42000	48000
6	MIN. COOLING CAPACITY	W	2051	2198	2600	3000	1000
7	MIN. COOLING CAPACITY	BTU/H	6998	7500	8871	10236	3412
8	MAX. COOLING CAPACITY	W	6155	9672	10500	11200	16000
9	MAX. COOLING CAPACITY	BTU/H	21001	33000	35826	38214	54592
10	HEATING CAPACITY	KW	6150	7650	10,55	12,3	15,8
11	HEATING CAPACITY	BTU/H	21000	26000	36000	42000	54000
12	MIN. HEATING CAPACITY	W	2052	2198	2600	3000	1200
13	MIN. HEATING CAPACITY	BTU/H	7000	7500	8871	10236	4094
14	MAX. HEATING CAPACITY	W	7600	9100	13000	13700	17400
15	MAX. HEATING CAPACITY	BTU/H	26000	31000	44356	46744	59369
16	EER	W/W	3,66	3,66	2,95	2,63	2,59
17	EER	/W	12,5	12,5	10	9	8,89
18	COP	W/W	3,6	3,66	3,5	3,5	3,55
19	COP	/W	12,3	12,5	12	12	12,13
20	SEER	—	23	23	23	23	18
21	HSPF	—	10,5	10,5	11	11	10
22	ENERGY CLASS	—	E-STAR 5.0	E-STAR 5.0	/	/	
23	AIR FLOW VOLUME	M ³ /H	4300	4300	7700	7700	6000
24	AIR FLOW VOLUME	CFM	2531	2530,55	4531	4531,45	3531
25	TARGET COUNTRY OR AREA	—	NORTH AMERICA	NORTH AMERICA	NORTH AMERICA	NORTH AMERICA	AMERICA
26	SOUND PRESSURE LEVEL	DB	58	60	61	62	56
27	SOUND POWER LEVEL	DB	68	70	71	72	/
28	RATED VOLTAGE	V	208/230	208/230	208/230	208/230	208/230
29	RATED FREQUENCY	HZ	60	60	60	60	60
30	PHASES	—	1	1	1	1	1

CODE	ITEM	UNIT	SPECIFICATION				
31	MIN/MAX. VOLTAGE	V	187/253	187/253	187/253	187/253	187-253
32	CROSS-SECTIONAL AREA OF POWER CABLE CONDUCTOR	MM ²	3.3 (AWG10)	3.3 (AWG10)	3.3 (AWG12)	3.3 (AWG12)	6
33	CROSS-SECTIONAL AREA OF POWER CABLE CONDUCTOR	SQ IN	0.0051 (AWG10)	0.0051 (AWG10)	0.0051 (AWG12)	0.0051 (AWG12)	0,0093
34	RECOMMENDED POWER CABLE	N	3	3	3	3	3
35	FUSE CURRENT	A	35	40	38	45	50
36	MAX. OVER CURRENT PROTECTION	A	35	40	35	40	60
37	COOLING POWER INPUT	KW	1,45	1,76	3,58	4,68	5,4
38	HEATING POWER INPUT	KW	1,71	2,09	3,01	3,37	4,45
39	RATED POWER INPUT	KW	5	6	5,5	6	7.8+IDU POWER
40	COOLING CURRENT INPUT	A	6,3	7,65	3,58	20,33	23,5
41	HEATING CURRENT INPUT	A	7,4	9,1	13,11	14,64	19,5
42	RATED CURRENT	A	22	26	3,01	26,62	35
43	STARTING CURRENT	A	5	5	5	5	
44	MIN. CURRENT (MCA)	A	20	23	25	30	38
45	COMPRESSOR TRADEMARK	—	GREE	GREE	GREE	GREE	GREE
46	COMPRESSOR MANUFACTURER	—	ZHUHAI LANDA COMPRESSOR CO.,LTD	ZHUHAI LANDA COMPRESSOR CO.,LTD	ZHUHAI LANDA COMPRESSOR CO.LTD	ZHUHAI LANDA COMPRESSOR CO.LTD	ZHUHAI LANDA COMPRESSOR CO.LTD
47	COMPRESSOR MODEL 1	—	QXFW-D318ZX035	QXFW-D318ZX035	QXAW-F518ZX440C	QXAW-F518ZX440C	QXAW-F518ZX440C
48	COMPRESSOR TYPE 1	—	INVERTER ROTARY	INVERTER ROTARY	INVERTER ROTARY	INVERTER ROTARY	INVERTER ROTARY
49	COMPRESSOR CAPACITY	W	/	/	/	/	18400
50	COMPRESSOR POWER INPUT	W	/	/	/	/	5830
51	COMPRESSOR RATED LOAD AMP	A	14,9	17	/	/	28
52	COMPRESSOR THERMAL PROTECTOR	—	/	/	/	/	INTERNAL
53	COMPRESSOR CRANKCASE	W	40	40	40	40	40
54	COMPRESSOR REFRIGERANT OIL TYPE	—	FW68DA OR EQUIVALENT	FW68DA OR EQUIVALENT	FV50S OR EQUIVALENT	FV50S OR EQUIVALENT	FV50S
55	COMPRESSOR REFRIGERANT OIL CHARGE VOLUME	L	0,95	0,95	1,35	1,35	1,35
56	CHASSIS ELECTRICAL HEATER POWER INPUT	W	160	160	160	160	96
57	CHASSIS ELECTRICAL HEATER CURRENT	A	/	/	/	/	0,42
58	FAN TYPE	—	AXIAL-FLOW	AXIAL-FLOW	AXIAL-FLOW	AXIAL-FLOW	AXIAL-FLOW

CODE	ITEM	UNIT	SPECIFICATION				
59	FAN QUANTITY	—	1	1	1	1	2
60	FAN DIAMETER-HEIGHT	MM	550-66	550-66	570 152	570 152	/
61	FAN DIAMETER-HEIGHT	INCH	21 2/3-2 3/5	21 2/3-2 3/5	22.4—5.98	22.4—5.98	18 4/7-6 2/7
62	MOTOR MODEL	—	LW92S-ZL	LW92S-ZL	SWZ150A	SWZ150A	SWZ120A
63	MOTOR TYPE	—	DC MOTOR	DC MOTOR	DC MOTOR	DC MOTOR	DC MOTOR
64	MOTOR INSULATION CLASS	—	B/E	B/E	E	E	E
65	MOTOR SAFE CLASS	—	IPX4	IPX4	IP24	IP24	IP23
66	OVERLOAD PROTECTOR	—	/	/	/	/	NO
67	MOTOR FULL LOAD AMP	A	/	/	/	0,82	1
68	FAN MOTOR DRIVE TYPE	—	DIRECT DRIVE	DIRECT DRIVE	DIRECT DRIVE	DIRECT DRIVE	DIRECT DRIVE
69	FAN MOTOR SPEED	RPM	880	880	880	880	100-880
70	FAN MOTOR POWER OUTPUT	W	90	90	170	170	120
71	FAN MOTOR POWER INPUT	W	/	/	240	240	150
72	FAN MOTOR CAPACITOR	µF	/	/	/	/	NO
73	FAN MOTOR TYPE	—	/	/	/	/	AXIAL FLOW FAN
74	CONDENSER MATERIAL	—	ALUMINUM FIN-COPPER TUBE	ALUMINUM FIN-COPPER TUBE	ALUMINUM FIN-COPPER TUBE	ALUMINUM FIN-COPPER TUBE	COPPER TUBE-HYDROPHILIC ALUMINUM FOIL
75	CONDENSER FACE AREA	M2	0,68	0,68	1,04	1,04	1,12
76	CONDENSER FACE AREA	SQ.FT	7,32	7,32	11,19	11,195	12,06
77	CONDENSER PIPE DIAMETER	MM	7.94	7.94	7.94	7.94	7.94
78	CONDENSER PIPE DIAMETER	INCH	0,312	0,312	0,312	0,312	0,31
79	CONDENSER NUMBER OF ROWS	—	2	2	3	3	2
80	CONDENSER TUBE PITCH × ROW PITCH	MM	22×19.05	22×19.05	22×19.05	22×19.05	22×19
81	CONDENSER FIN PITCH	MM	1,4	1,4	1,4	1,4	1,8
82	CONDENSER FINS PER INCH	—	18	18	18	18	14
83	CONDENSER FIN TYPE	—	CORRUGATED FIN	CORRUGATED FIN	CORRUGATED FIN	CORRUGATED FIN	CORRUGATED FIN
84	CONDENSER FIN COLOUR	—	BLUE	BLUE	BLUE	BLUE	GOLD
85	CONDENSER NUMBER OF CIRCUITS	—	8IN-4OUT	8IN-4OUT	8IN-8OUT	8IN-8OUT	12
86	CONDENSER LENGTH × HEIGHT × WIDTH	MM	982.2×748×38.1	982.2×748×38.1	982×1056×38.1	982×1056×38.1	845×38×1320

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87	CONDENSER MAX. ALLOWABLE PRESSURE	MPA	10	10	10	10	4,3
88	PERMISSIBLE EXCESSIVE OPERATING PRESSURE FOR THE DISCHARGE SIDE	MPA	4,3	4,3	4,3	4,3	4,2
89	PERMISSIBLE EXCESSIVE OPERATING PRESSURE FOR THE SUCTION SIDE	MPA	2,5	2,5	2,5	2,5	2,5
90	MAXIMUM ALLOWABLE PRESSURE	MPA	4,3	4,3	4,3	4,3	4,2
91	HIGH PRESSER OVERLOAD PROTECTOR	MPA	/	/	/	/	4
92	LOW PRESSER OVERLOAD PROTECTOR	MPA	/	/	/	/	0
93	COOLING OPERATION AMBIENT TEMPERATURE RANGE	—	-18~48	-18~48	-18~48	-18~48	10~54
94	COOLING OPERATION AMBIENT TEMPERATURE RANGE	—	-0.4~118.4	-0.4~118.4	0~118	0~118	50~129
95	HEATING OPERATION AMBIENT TEMPERATURE RANGE	—	-35~24	-35~24	-35~24	-35~24	-35~27
96	HEATING OPERATION AMBIENT TEMPERATURE RANGE	—	-31~75.2	-31~75.2	-31~75.2	-31~75.2	-31~81
97	MAXIMUM DRIVE IDU NO.	UNIT	2	3	4	5	6
98	DEFROSTING METHOD	—	AUTOMATIC DEFROSTING	AUTOMATIC DEFROSTING	AUTOMATIC DEFROSTING	AUTOMATIC DEFROSTING	AUTOMATIC DEFROSTING
99	ISOLATION	—	I	I	I	I	I
100	MOISTURE PROTECTION	—	IPX4	IPX4	IPX4	IPX4	IPX4
101	OVERLOAD PROTECTOR	—	MECHANICAL TYPE OF CURRENT TEMPERATURE CONTROL	MECHANICAL TYPE OF CURRENT TEMPERATURE CONTROL	MECHANICAL TYPE OF CURRENT TEMPERATURE CONTROL	MECHANICAL TYPE OF CURRENT TEMPERATURE CONTROL	SOFTWARE PROTECTION
102	CLIMATE TYPE	—	T1	T1	T1	T1	T1
103	REFRIGERANT	—	R410A	R410A	R410A	R410A	R410A
104	REFRIGERANT CHARGE	KG	2,2	2,7	4,5	5	6,5
105	REFRIGERANT CHARGE	OZ	77,62	95,26	98,76	128,75	229,3
106	THROTTLING METHOD	—	ELECTRON EXPANSION VALVE	ELECTRON EXPANSION VALVE	ELECTRON EXPANSION VALVE	ELECTRON EXPANSION VALVE	ELECTRON EXPANSION VALVE
107	CLIMATE ZONE	—	TEMPERATE ZONE	TEMPERATE ZONE	TEMPERATE ZONE	TEMPERATE ZONE	TEMPERATE ZONE
108	DIMENSION OF OUTLINE	MM	1003	1003	1087	1087	900
109	DIMENSION OF OUTLINE	INCH	39,488	39,488	42,795	42,795	35,433
110	DIMENSION OF OUTLINE	MM	427	427	440	440	340
111	DIMENSION OF OUTLINE	INCH	16,811	16,811	17,323	17,323	13,386
112	DIMENSION OF OUTLINE	MM	790	790	1103	1103	1345

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113	DIMENSION OF OUTLINE	INCH	31,102	31,102	43,425	43,425	52,953
114	DIMENSION OF CARTON BOX	MM	1080	1080	1155	1155	980
115	DIMENSION OF CARTON BOX	INCH	42,52	42,52	45,472	45,472	38,583
116	DIMENSION OF CARTON BOX	MM	485	485	480	480	440
117	DIMENSION OF CARTON BOX	INCH	19,094	19,094	18,898	18,898	17,323
118	DIMENSION OF CARTON BOX	MM	840	840	1115	1115	1380
119	DIMENSION OF CARTON BOX	INCH	33,071	33,071	43,898	43,898	54,331
120	DIMENSION OF PACKAGE	MM	1083	1083	1158	1158	998
121	DIMENSION OF PACKAGE	INCH	42,638	42,638	45,59	45,59	39,291
122	DIMENSION OF PACKAGE	MM	488	488	493	493	458
123	DIMENSION OF PACKAGE	INCH	19,213	19,213	19,409	19,409	18,031
124	DIMENSION OF PACKAGE	MM	855	855	1235	1235	1515
125	DIMENSION OF PACKAGE	INCH	33,661	33,661	48,622	48,622	59,646
126	NET WEIGHT	KG	78	79	98	100	139
127	NET WEIGHT	LB	172	174,195	216,09	220,5	306,5
128	GROSS WEIGHT	KG	83	84	106	108	150
129	GROSS WEIGHT	LB	183	185,22	233,73	238,14	330,8
130	OUTDOOR UNIT LOADING QUANTITY < 20' CONTAINER >	UNIT	44	44	22	22	28
131	OUTDOOR UNIT LOADING QUANTITY < 40' CONTAINER >	UNIT	96	96	48	48	57
132	OUTDOOR UNIT LOADING QUANTITY < 40' HIGH CUBE CONTAINER >	UNIT	144	144	48	48	57
133	OUTDOOR UNIT STACKED LAYERS	—	3	3	2	2	1
134	CONNECTION PIPE CONNECTION METHOD	—	FLARE CONNECTION	FLARE CONNECTION	FLARE CONNECTION	FLARE CONNECTION	FLARE
135	NOT ADDITIONAL GAS CONNECTION PIPE LENGTH	M	20	30	40	50	30
136	NOT ADDITIONAL GAS CONNECTION PIPE LENGTH	FT	65,6	98,4	131,2	164	98,4
137	CONNECTION PIPE GAS ADDITIONAL CHARGE	G/M	20	20	20	20	50
138	CONNECTION PIPE GAS ADDITIONAL CHARGE	OZ/FT.	0,2	0,2	0,215	0,215	0,5

CODE	ITEM	UNIT	SPECIFICATION				
139	OUTER DIAMETER OF LIQUID PIPE 1	MM	6	6	6	6	9.52
140	OUTER DIAMETER OF LIQUID PIPE 1	INCH	1/4"	1/4"	1/4"	1/4"	3/8"
141	OUTER DIAMETER OF LIQUID PIPE 2	MM	6	6	6	6	
142	OUTER DIAMETER OF LIQUID PIPE 2	INCH	1/4"	1/4"	1/4"	1/4"	
143	OUTER DIAMETER OF LIQUID PIPE 3	MM	/	6	6	6	
144	OUTER DIAMETER OF LIQUID PIPE 3	INCH	/	1/4"	1/4"	1/4"	
145	OUTER DIAMETER OF LIQUID PIPE 4	MM	/	/	6	6	
146	OUTER DIAMETER OF LIQUID PIPE 4	INCH	/	/	1/4"	1/4"	
147	OUTER DIAMETER OF LIQUID PIPE 5	MM	/	/	/	6	
148	OUTER DIAMETER OF LIQUID PIPE 5	INCH	/	/	/	1/4"	
149	OUTER DIAMETER OF GAS PIPE 1	MM	9.52	9.52	9.52	9.52	16
150	OUTER DIAMETER OF GAS PIPE 1	INCH	3/8"	3/8"	3/8"	3/8"	5/8"
151	OUTER DIAMETER OF GAS PIPE 2	MM	9.52	9.52	9.52	9.52	
152	OUTER DIAMETER OF GAS PIPE 2	INCH	3/8"	3/8"	3/8"	3/8"	
153	OUTER DIAMETER OF GAS PIPE 3	MM	/	9.52	9.52	9.52	
154	OUTER DIAMETER OF GAS PIPE 3	INCH	/	3/8"	3/8"	3/8"	
155	OUTER DIAMETER OF GAS PIPE 4	MM	/	/	9.52	9.52	
156	OUTER DIAMETER OF GAS PIPE 4	INCH	/	/	3/8"	3/8"	
157	OUTER DIAMETER OF GAS PIPE 5	MM	/	/	/	9.52	
158	OUTER DIAMETER OF GAS PIPE 5	INCH	/	/	/	3/8"	
159	CONNECTION PIPE MAX. HEIGHT DISTANCE	M	8	8	10	10	15
160	CONNECTION PIPE MAX. HEIGHT DISTANCE	FT	26,2	26,2	32,8	32,8	49,2

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161	CONNECTION PIPE MAX. HEIGHT DISTANCE	M	8	8	15	15	30
162	CONNECTION PIPE MAX. HEIGHT DISTANCE	FT	26,2	26,2	49,2	49,2	98,4
163	CONNECTION PIPE MAX. HEIGHT DISTANCE	M	8	8	15	15	30
164	CONNECTION PIPE MAX. HEIGHT DISTANCE	FT	26,2	26,2	49,2	49,2	98,4
165	MAX. EQUIVALENT CONNECTION PIPE LENGTH	M	25	25	25	25	70
166	MAX. EQUIVALENT CONNECTION PIPE LENGTH	FT	82	82	82	82	229,7
167	CONNECTION PIPE MAX. LENGTH DISTANCE	M	50	70	75	80	135
168	CONNECTION PIPE MAX. LENGTH DISTANCE	FT	164	229,7	246,1	262,5	442,9
169	LOW AMBIENT COOLING FUNCTION		YES	YES	YES	YES	NO
170	DEFROSTING TIME SET FUNCTION		NO	NO	NO	NO	YES
171	LOW VOLTAGE STARTUP		YES	YES	YES	YES	YES
172	COMPRESSOR WITH ELECTRIC HEATER		YES	YES	YES	YES	YES
173	CHASSIS WITH ELECTRIC HEATER		YES	YES	YES	YES	YES