

File SA12864
Project 4788671632

October 29, 2018

REPORT

On

Dehumidifiers, Refrigeration Type

GREE ELECTRIC APPLIANCES INC OF ZHUHAI
Zhuhai, Guangdong 519070, China

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DESCRIPTION

PRODUCT COVERED:

USL, CNL - Refrigeration type dehumidifier, Models GDN50BB-A3EBA1A, GDN50BB-A3EBA2A, GDN30BB-A3EBA1B, GDN30BB-A3EBA2B, GDN30BB-A3EBA4A, GDN35BB-A3EBA1A, GDN30BB-A3EBA3A, GDN35BB-A3EBA2A, GDN35BB-A3EBA3A, GDN35BB-A3EBA4A, KHD35BW, **GD35BW**.

GENERAL:

These units are self-contained portable refrigeration type dehumidifier with four casters without lock. They are energized through a permanently attached power supply cord.

Installation/operating instructions are provided with each unit.

TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

Products designated USL have been investigated using requirements contained in the standard for Safety of Household and Similar Appliances, Part 1: General Requirements, UL 60335-1 and Household and Similar Electrical Appliances - Safety - Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers, UL 60335-2-40.

Products designated CNL have been investigated using requirements contained in the Standard for Safety of Household and Similar Appliances, Part 1: General Requirements, CAN/CSA-C22.2 No. 60335-1 and Household and Similar Electrical Appliances - Safety - Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers, CAN/CSA-C22.2 No. 60335-2-40.

"CN" indicates that a component shall bare the C-UL Listing/C-UL Recognition Mark, UL Certification or a CSA Certification Mark. If a CSA Certified component is used in lieu of a UL Certified component, the CSA Certification Mark shall be noted in the individual component description in lieu of the UL CCN.

USER INSTRUCTIONS:

Each unit is provided with user instruction, see ILL. 10 for details.

The user instruction shall state the intended ambient temperature (5~32°C) and relative humidity of (30~90)% RH.

The use instruction shall state that at least 18 inches air space between front/rear/left/right/top sides of dehumidifier and adjacent obstacle should be maintained during normal operation.

The use instruction shall also contain the following information or the equivalent:

a), This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

b), If the SUPPLY CORD is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

c), The appliance shall be installed in accordance with national wiring regulations.

d), Wiring diagram

MODEL NOMENCLATURE:

Model Designation:	G	D	N	50	BB	-	A	3	E	B	A1	A
Reference Field No.:	1	2	3	4	5		6	7	8	9	10	11

1	G	Gree
2	Product Code	D: Dehumidifier
3	Function Code	N: Normal Function; E: Electric Heater; A: Adjustable Temperature
4	Dehumidification Capacity Code	50: 50 pints/day;
5	Series Code	Represented by two capital letters. First one represent product category code and second one represent enclosure code.
6	Power Supply Code	A: 115 V ac, 60 Hz; D: 208/230 V ac, 60 Hz
7	Refrigerant Code	3: R410a; 4: R134a
8	Control Method Code	E: Electronic control; M: Mechanical control
9	Working Ambient Temperature Range	A: 18~32°C, B: 5~32°C
10	Appearance Improvement Code	It maybe any letter with number in A1, A2, ...Z9.
11	Improvement Code	It maybe any letter in A, B, ... Z.

MODEL DIFFERENCE:

Model GDN50BB-A3EBA1A is similar to Model GDN50BA-A3EBA1A (listed in File SA12864, Vol. 1, Sec. 19, report issued: 2016-08-26) except for refrigeration system, unit cabinet and fan motor.

Refer to the following table for model difference -

New Model	Basic Model	Model Difference
GDN50BB-A3EBA2A	GDN50BB-A3EBA1A	Front Unit Cabinet and Display PWB
GDN30BB-A3EBA1B	GDN50BB-A3EBA1A	Compressor and refrigerant charge amount
GDN30BB-A3EBA2B	GDN30BB-A3EBA1B	Front Unit Cabinet and Display PWB
GDN30BB-A3EBA4A	GDN30BB-A3EBA2B	Front Unit Cabinet
GDN30BB-A3EBA3A	GDN30BB-A3EBA2B	Front Unit Cabinet
GDN35BB-A3EBA2A, GDN35BB-A3EBA3A, GDN35BB-A3EBA4A	GDN35BB-A3EBA1A	Front Unit Cabinet

Model GDN35BB-A3EBA1A is similar to Model GDN30BB-A3EBA1B except for refrigeration system (compressor, condenser, capillary tube, Refrigerant amount), temperature controller and wiring diagram.

MODEL DIFFERENCE: (Cont'd)

Refer to the following table for model similarity -

New Model	Basic Model	Model Similarity
GDN30BB-A3EBA2B	GDN50BB-A3EBA2A	Same Front Unit Cabinet and Display PWB

Refer to the following table for model difference -

New Model	Basic Model	Model Difference
KHD35BW, GD35BW	GDN35BB-A3EBA3A	Model Designation

GENERAL DESCRIPTION

10 - MARKING:

10-1 Nameplate Marking (See Sec. Gen. for nameplate material, PGDQ2, CN)
(Applicant - Include print of blank nameplate including material
identification information)

Listee's Name	Gree Electric Appliances Inc Of Zhuhai
Location	Cabinet side

Model	GDN50BB-A3EBA1A, GDN50BB-A3EBA2A	GDN30BB-A3EBA1B, GDN30BB-A3EBA2B, GDN30BB-A3EBA4A, GDN30BB-A3EBA3A
V	115	115
Frequency	60	60
Total A	5.3	4.0
Refrigerant, Type	R410A	R410A
Amount, kg	0.20	0.175
Design Pressure		
High Side, MPa	3.6	3.6
Low Side, MPa	2.2	2.2
Special Comments	@1	@2

Models above assembled with the following refrigeration system:

Nameplate footnote	Compressor	Cond. ILL.	Evap. ILL.	Capillary Code No.
@1	QXA-G050xW230	ILL. 5	ILL. 6	CT1
@2	QXA-G042xW230	ILL. 5	ILL. 6	CT1

Date Code - (See Section General for explanation of date code)

Applicant - include explanation of date code and location.

GENERAL DESCRIPTION

10 - MARKING: (CONT'D)

Listee's Name	Gree Electric Appliances Inc Of Zhuhai
Location	Cabinet side

Model	GDN35BB-A3EBA1A, GDN35BB-A3EBA2A, GDN35BB-A3EBA3A, GDN35BB-A3EBA4A, KHD35BW, GD35BW.	
V	115	
Frequency	60	
Total A	4.8	
Refrigerant, Type	R410A	
Amount, kg	0.185	
Design Pressure		
High Side, MPa	3.6	
Low Side, MPa	2.2	
Special Comments	@3	

Models above assembled with the following refrigeration system:

Nameplate footnote	Compressor	Cond. ILL.	Evap. ILL.	Capillary Code No.
@3	YZG-Q048BFY2D2	ILL. 5A	ILL. 6	CT2

Date Code - (See Section General for explanation of date code)

Applicant - include explanation of date code and location.

10-2 Special Marking (PGDQ2, 8)

Model	All
A. Type	Label
Listee's Name	Various
Recognized Designation	Various
Location	Nearby power supply cord entrance
Quote Marking	"A damaged cord must be replaced with one supplied by the unit manufacturer and not repaired" or the equivalent

10-3 Wiring Diagram

Model	GDN50BB-A3EBA1A, GDN50BB-A3EBA2A, GDN30BB-A3EBA1B, GDN30BB-A3EBA2B, GDN30BB-A3EBA4A, GDN30BB-A3EBA3A
Location	Control Box
Material	Adhesive backed paper label or equivalent
Illustration	See Ill. 1 for details
Model	GDN35BB-A3EBA1A, GDN35BB-A3EBA2A, GDN35BB-A3EBA3A, GDN35BB-A3EBA4A.
Location	Control Box
Material	Adhesive backed paper label or equivalent
Illustration	See Ill. 1A for details

20 CABINET AND ENCLOSURES:

20-1 Unit Cabinet

Model	GDN50BB-A3EBA1A, GDN30BB-A3EBA1B, GDN35BB-A3EBA1A
Special Comments	Consist of three parts (Front Unit Cabinet, Rear Unit Cabinet, Top Unit Cabinet); See ILL. 2 (Front Unit Cabinet) and ILL. 3 (Top Unit Cabinet) for details.
Length, mm	348
Depth, mm	270
Height, mm	539.8
Material	Polymeric, see Sec. 30 for details
Thickness, mm	See Sec. 30 for details
Openings	
Area (L x W), mm	Air Outlet (on Top Unit Cabinet): 248 x 72; Air Inlet (on Left/Right side of Front Unit Cabinet): 240 x 24.9
Spacing, mm	Air Outlet (on Top Unit Cabinet): 4.5; Air Inlet (on Front Unit Cabinet): 24.9;
Minimum distance to fan, mm	Air Outlet (on Top Unit Cabinet): 44; Air Inlet (on Front Unit Cabinet): N/A, Protected by Evaporator
Securement	By screws
Bonding for Grounding	N/A

20-1 Unit Cabinet (Cont'd)

Model	GDN50BB-A3EBA2A, GDN30BB-A3EBA2B
Special Comments	Consist of three parts (Front Unit Cabinet, Rear Unit Cabinet, Top Unit Cabinet); See ILL. 2A (Front Unit Cabinet) and ILL. 3 (Top Unit Cabinet) for details.
Length, mm	348
Depth, mm	270
Height, mm	539.8
Material	Polymeric, see Sec. 30 for details
Thickness, mm	See Sec. 30 for details
Openings	
Area (L x W), mm	Air Outlet (on Top Unit Cabinet): 248 x 72; Air Inlet (on Front Unit Cabinet): 266 x 218.7
Spacing, mm	Air Outlet (on Top Unit Cabinet): 4.5; Air Inlet (on Front Unit Cabinet): 5;
Minimum distance to fan, mm	Air Outlet (on Top Unit Cabinet): 44; Air Inlet (on Front Unit Cabinet): N/A, Protected by Evaporator
Securement	By screws
Bonding for Grounding	N/A

20-1 Unit Cabinet (Cont'd)

Model	GDN30BB-A3EBA4A
Special Comments	Consist of three parts (Front Unit Cabinet, Rear Unit Cabinet, Top Unit Cabinet); See ILL. 2B (Front Unit Cabinet) and ILL. 3 (Top Unit Cabinet) for details.
Length, mm	348
Depth, mm	270
Height, mm	555
Material	Polymeric, see Sec. 30 for details
Thickness, mm	See Sec. 30 for details
Openings	
Area (L x W), mm	Air Outlet (on Top Unit Cabinet): 248 x 72; Air Inlet (on Front Unit Cabinet): 259 x 224
Spacing, mm	Air Outlet (on Top Unit Cabinet): 4.5; Air Inlet (on Front Unit Cabinet): 5;
Minimum distance to fan, mm	Air Outlet (on Top Unit Cabinet): 44; Air Inlet (on Front Unit Cabinet): N/A, Protected by Evaporator
Securement	By screws
Bonding for Grounding	N/A

20-1 Unit Cabinet (Cont'd)

Model	GDN30BB-A3EBA3A
Special Comments	Consist of three parts (Front Unit Cabinet, Rear Unit Cabinet, Top Unit Cabinet); See ILL. 2C (Front Unit Cabinet) and ILL. 3 (Top Unit Cabinet) for details.
Length, mm	348
Depth, mm	270
Height, mm	539.8
Material	Polymeric, see Sec. 30 for details
Thickness, mm	See Sec. 30 for details
Openings	
Area (L x W), mm	Air Outlet (on Top Unit Cabinet): 248 x 72; Air Inlet (on Front Unit Cabinet): 263 x 224
Spacing, mm	Air Outlet (on Top Unit Cabinet): 4.5; Air Inlet (on Front Unit Cabinet): 11
Minimum distance to fan, mm	Air Outlet (on Top Unit Cabinet): 44; Air Inlet (on Front Unit Cabinet): N/A, Protected by Evaporator
Securement	By screws
Bonding for Grounding	N/A

20-1 Unit Cabinet (Cont'd)

Model	GDN35BB-A3EBA2A
Special Comments	Consist of three parts (Front Unit Cabinet, Rear Unit Cabinet, Top Unit Cabinet); See ILL. 2A (Front Unit Cabinet) and ILL. 3 (Top Unit Cabinet) for details.
Length, mm	348
Depth, mm	270
Height, mm	539.8
Material	Polymeric, see Sec. 30 for details
Thickness, mm	See Sec. 30 for details
Openings	
Area (L x W), mm	Air Outlet (on Top Unit Cabinet): 248 x 72; Air Inlet (on Front Unit Cabinet): 266 x 218.7
Spacing, mm	Air Outlet (on Top Unit Cabinet): 4.5; Air Inlet (on Front Unit Cabinet): 5
Minimum distance to fan, mm	Air Outlet (on Top Unit Cabinet): 44; Air Inlet (on Front Unit Cabinet): N/A, Protected by Evaporator
Securement	By screws
Bonding for Grounding	N/A

20-1 Unit Cabinet (Cont'd)

Model	GDN35BB-A3EBA3A
Special Comments	Consist of three parts (Front Unit Cabinet, Rear Unit Cabinet, Top Unit Cabinet); See ILL. 2C (Front Unit Cabinet) and ILL. 3 (Top Unit Cabinet) for details.
Length, mm	348
Depth, mm	270
Height, mm	539.8
Material	Polymeric, see Sec. 30 for details
Thickness, mm	See Sec. 30 for details
Openings	
Area (L x W), mm	Air Outlet (on Top Unit Cabinet): 248 x 72; Air Inlet (on Front Unit Cabinet): 263 x 224
Spacing, mm	Air Outlet (on Top Unit Cabinet): 4.5; Air Inlet (on Front Unit Cabinet): 11
Minimum distance to fan, mm	Air Outlet (on Top Unit Cabinet): 44; Air Inlet (on Front Unit Cabinet): N/A, Protected by Evaporator
Securement	By screws
Bonding for Grounding	N/A

20-1 Unit Cabinet (Cont'd)

Model	GDN35BB-A3EBA4A
Special Comments	Consist of three parts (Front Unit Cabinet, Rear Unit Cabinet, Top Unit Cabinet); See ILL. 2B (Front Unit Cabinet) and ILL. 3 (Top Unit Cabinet) for details.
Length, mm	348
Depth, mm	270
Height, mm	539.8
Material	Polymeric, see Sec. 30 for details
Thickness, mm	See Sec. 30 for details
Openings	
Area (L x W), mm	Air Outlet (on Top Unit Cabinet): 248 x 72; Air Inlet (on Front Unit Cabinet): 259 x 224
Spacing, mm	Air Outlet (on Top Unit Cabinet): 4.5; Air Inlet (on Front Unit Cabinet): 5
Minimum distance to fan, mm	Air Outlet (on Top Unit Cabinet): 44; Air Inlet (on Front Unit Cabinet): N/A, Protected by Evaporator
Securement	By screws
Bonding for Grounding	N/A

20-2 Unit Base

Model	GDN50BB-A3EBA1A, GDN50BB-A3EBA2A, GDN30BB-A3EBA1B, GDN30BB-A3EBA2B, GDN30BB-A3EBA4A, GDN35BB-A3EBA1A, GDN30BB-A3EBA3A, GDN35BB-A3EBA2A, GDN35BB-A3EBA3A, GDN35BB-A3EBA4A.
Material	Polymeric, see Sec. 30 for details
Thickness, mm	See Sec. 30 for details
Openings	None
Bonding for Grounding	N/A

20-3 Front Grille

Model	GDN50BB-A3EBA1A, GDN50BB-A3EBA2A, GDN30BB-A3EBA1B, GDN30BB-A3EBA2B, GDN30BB-A3EBA4A, GDN35BB-A3EBA1A, GDN30BB-A3EBA3A, GDN35BB-A3EBA2A, GDN35BB-A3EBA3A, GDN35BB-A3EBA4A.
Material	Polymeric, see Sec. 30 for details
Securement	By screws
Special Comment	Integrated with Front Unit Cabinet

20-4 Moving Parts - Guarding

Model	GDN50BB-A3EBA1A, GDN50BB-A3EBA2A, GDN30BB-A3EBA1B, GDN30BB-A3EBA2B, GDN30BB-A3EBA4A, GDN35BB-A3EBA1A, GDN30BB-A3EBA3A, GDN35BB-A3EBA2A, GDN35BB-A3EBA3A, GDN35BB-A3EBA4A.
Material	Polymeric, see Sec. 30 for details
Securement (method)	Integrated with Top Unit Cabinet

20-5 Control Box

Model	All
Material	Galvanized steel
Physical Size (L x D x H), mm	105 x 96 x 170
Material Thickness, mm	0.75
Bonding for Grounding	By the grounding lead of power supply cord
Securement	By screws
Contained Components	Temperature Controller (Main PWB), Compressor Capacitor, Fan Motor capacitor, Transformer
Special Comments	Consist of two parts (Control Box Body, Top Cover); Secured to each other by screws; Only minimum size openings for the passage of power supply cords and internal wiring; No other openings when assembled;
Illustration	Refer to ILL. 4 for details

20-6 Terminal Cap

Model	All
Material	Galvanized steel
Thickness, mm	1.15
Securement	By a bolt and nut
Location	Over terminal enclosure of compressor
Special Comments	Used as additional cover of compressor terminal

20-7 Unit Drain Pan

Model	All
Material	Polymeric, see Sec. 30 for details
Thickness, mm	See Sec. 30 for details
Securement	Inserted into the slot of Unit Base and also secured by screws
Special Comments	Used to support Condenser Coil, Evaporator Coil and Fan Shroud; Also served as barrier to isolate compressor and Water Bucket

20-8 Water Level Switch Box

Model	All
Material	Polymeric, see sec.30 for details
Securement (Method)	By screws

20-11 Slide Rail

Model	GDN50BB-A3EBA1A, GDN50BB-A3EBA2A, GDN30BB-A3EBA1B, GDN30BB-A3EBA2B, GDN30BB-A3EBA4A, GDN35BB-A3EBA1A, GDN30BB-A3EBA3A, GDN35BB-A3EBA2A, GDN35BB-A3EBA3A, GDN35BB-A3EBA4A.
Material	Polymeric, see Sec. 30 for details
Securement	By screws
Special Comments	Used to secure Air Filter

30 NONMETALLIC COMPONENTS:

Manufacturer - Provide a description of all nonmetallic materials such as breaker, fan guards, cabinet or door liner light shields, etc. Specify whether or not it is Recognized.

Note: Assembly drawings may be helpful in illustrating the location of nonmetallic material with regard to wiring, fan motors, heaters, controls, etc. to aid in determining the appropriate flammability tests for materials.

30-1 Nonmetallic Components

MODEL	All
Front Unit Cabinet	Recognized (QMFZ2, CN)
Listee	NINGBO LG YONGXING CHEMICAL CO LTD(E203955)
Material Designation	ABS, HI-121H
Thickness, mm	3.0
Minimum Flammability Rating/RTI, °C	HB/80

MODEL	All
Rear Unit Cabinet	Recognized (QMFZ2, CN)
Listee	KINGFA SCI & TECH CO LTD (E171666)
Material Designation	ABS, HF-606
Thickness, mm	3.0
Minimum Flammability Rating/RTI, °C	V-0/60
Alternate Rear Unit Cabinet - Same as above except	
Listee	SILVER AGE ENGINEERING PLASTICS (DONGGUAN) CO LTD (E225348)
Material Designation	PC/ABS, 2540(f2)
Alternate Rear Unit Cabinet - Same as above except	
Listee	NINGBO LG YONGXING CHEMICAL CO LTD(E203955)
Material Designation	ABS, HI-121H
Minimum Flammability Rating/RTI, °C	HB/80

MODEL	All
Top Unit Cabinet	Recognized (QMFZ2, CN)
Listee	NINGBO LG YONGXING CHEMICAL CO LTD(E203955)
Material Designation	ABS, HI-121H
Thickness, mm	2.5
Minimum Flammability Rating/RTI, °C	HB/80

30-1 Nonmetallic Components (Cont'd)

MODEL	All
Unit Base	Recognized (QMFZ2, CN)
Listee	NINGBO LG YONGXING CHEMICAL CO LTD (E203955)
Material Designation	ABS, HI-121H
Thickness, mm	3.0
Minimum Flammability Rating/RTI, °C	HB/80
Unit Drain Pan	Recognized (QMFZ2, CN)
Listee	KINGFA SCI & TECH CO LTD (E171666)
Material Designation	ABS, HF-606
Thickness, mm	2.5
Minimum Flammability Rating/RTI, °C	V-0/60
Alternate Unit Drain Pan - Same as above except	
Listee	SILVER AGE ENGINEERING PLASTICS (DONGGUAN) CO LTD (E225348)
Material Designation	ABS, 3360
Alternate Unit Drain Pan - Same as above except	
Listee	ZHUHAI GREE NEW MATERIALS CO LTD (E494416)
Material Designation	ABS, AB001F
Minimum Flammability Rating/RTI, °C	V-0/60
Alternate Unit Drain Pan - Same as above except	
Listee	NINGBO LG YONGXING CHEMICAL CO LTD(E203955)
Material Designation	ABS, HI-121H
Minimum Flammability Rating/RTI, °C	HB/80

30-1 Nonmetallic Components (Cont'd)

MODEL	All
Water Level Swtich Box	Recognized (QMFZ2, CN)
Listee	KINGFA SCI & TECH CO LTD (E171666)
Material Designation	ABS, FW-620T
Thickness, mm	1.5
Minimum Flammability Rating/RTI, °C	V-0/80
Alternate Water Level Swtich Box - Same	as above except
Listee	SILVER AGE ENGINEERING PLASTICS (DONGGUAN) CO LTD (E225348)
Material Designation	ABS, 3360
Minimum Flammability Rating/RTI, °C	V-0/60
MODEL	GDN50BB-A3EBA1A, GDN50BB-A3EBA2A, GDN30BB-A3EBA1B, GDN30BB-A3EBA2B, GDN30BB-A3EBA4A, GDN35BB-A3EBA1A, GDN30BB-A3EBA3A, GDN35BB-A3EBA2A, GDN35BB-A3EBA3A, GDN35BB-A3EBA4A.
Slide Rail	Recognized (QMFZ2, CN)
Listee	Various
Material Designation	Various
Thickness, mm	Any required for HB
Minimum Flammability Rating	HB

30-1 Nonmetallic Components (Cont'd)

Model	All
Blower Wheel	Recognized (QMFZ2)
Listee's Name	Any recognized
Material Designation	Any recognized (ABS)
Thickness, mm	3.0
Minimum Flammability Rating	HB
Illustration	See ILL. 11 for details
Fan Shroud	Recognized (QMFZ2)
Listee's Name	KINGFA SCI & TECH CO LTD (E171666)
Material Designation	ABS, HF-606
Thickness, mm	2.5
Minimum Flammability Rating/RTI, °C	V-0/60
Illustration	See ILL. 12 for details
Alternate Fan Shroud - Same as above except	
Listee	SILVER AGE ENGINEERING PLASTICS (DONGGUAN) CO LTD (E225348)
Material Designation	ABS, 3360
Alternate Fan Shroud - Same as above except	
Listee	ZHUHAI GREE NEW MATERIALS CO LTD (E494416)
Material Designation	ABS, AB001F
Minimum Flammability Rating/RTI, °C	V-0/60
Alternate Fan Shroud - Same as above except	
Listee	NINGBO LG YONGXING CHEMICAL CO LTD(E203955)
Material Designation	ABS, HI-121H
Minimum Flammability Rating/RTI, °C	HB/80
Water Bucket	Recognized (QMFZ2, CN)
Listee's Name	Various
Material Designation	Various
Thickness, mm	Any required for HB
Minimum Flammability Rating	HB
Air Filter	Recognized (QMFZ2, CN)
Listee's Name	Various
Material Designation	Various
Thickness, mm	Any required for HB
Minimum Flammability Rating	HB

Note: Line voltage wiring is isolated from HB and HBF rated materials unless the wiring is rated VW-1.

30-1 Nonmetallic Components (Cont'd)

Model	GDN50BB-A3EBA1A, GDN50BB-A3EBA2A, GDN30BB-A3EBA1B, GDN30BB-A3EBA2B, GDN30BB-A3EBA4A, GDN35BB-A3EBA1A, GDN30BB-A3EBA3A, GDN35BB-A3EBA2A, GDN35BB-A3EBA3A, GDN35BB-A3EBA4A.
PWB Supporting Base	Recognized (QMFZ2,8)
Listee's Name	KINGFA SCI & TECH CO LTD (E171666)
Material Designation	ABS, HF-630
Minimum Thickness Used, mm	2.0 mm
Flammability Classification (Minimum Required)	5VA
HWI/HAI/CTI	4/0/0
RTI, °C	60
PWB Supporting Base - Alternate - Same as above except	
Listee's Name	SILVER AGE ENGINEERING PLASTICS (DONGGUAN) CO LTD (E225348)
Material Designation	ABS, 3370
HWI/HAI/CTI	2/0/1
RTI, °C	90

30-2 Connection-related nonmetallic materials (Recognized ECBT2, CN or RFWV2, CN)

The electrical connectors shown below are used in circuits where the total circuit load is greater than 60W during normal operation and have materials within the flame cylinder (as defined in UL 60335-2-40 101.DVI.2) which have required them to be evaluated to the Nichrome Wire Test of UL 60335-2-40.

Connector Name	Location	Materials Surrounding the Connection
Compressor Terminal Connector	Terminal Enclosure of Compressor	Materials within 3 mm: a) Terminal Sleeving b) Wire Insulation, VW-1 Wiring Materials within 20 x 50mm cylinder: Terminal Enclosure of Compressor, 5VA
Compressor Lead Connector	See Fig. 10 for details	Materials within 3 mm: a) Terminal Sleeving b) Wire Insulation, VW-1 Wiring Materials within 20 x 50mm cylinder: PWB Supporting Base, 5VA
Fan Motor Capacitor Connector (for capacitor terminal)	See Fig. 10 for details	Materials within 3 mm: a) Terminal Sleeving b) Wire Insulation, VW-1 Wiring Materials within 20 x 50mm cylinder: N/A
Compressor Capacitor Connector (for capacitor terminal)	See Fig. 10 for details	Materials within 3 mm: a) Terminal Sleeving b) Wire Insulation, VW-1 Wiring Materials within 20 x 50mm cylinder: N/A
Fan Motor Connector (on PWB)	See Fig. 10 for details	Materials within 3 mm: a) Terminal Sleeving b) Wire Insulation, VW-1 Wiring Materials within 20 x 50mm cylinder: PWB Supporting Base, 5VA

40 REFRIGERATION SYSTEM:

40-1 Compressor (Recognized SLIS2, CN)

Model	GDN50BB-A3EBA1A, GDN50BB-A3EBA2A
Listee's Name	ZHUHAI LANDA COMPRESSOR CO LTD (SA10212)
Designation	QXA-G050xW230
UL File No./Issued Date	SA44218/2008-04-18
Electrical Rating	
V, Hz, Phase	115, 60, 1
* LRA	18
Bonding for Grounding	A dedicated bonding wire identified by color combination green/yellow (18 AWG) secured to control box by a mechanical screw with 4 mm thread diameter
Components of Compressor Assembly (Not for UL Representative's Use)	
Terminal Enclosure	R/C (QMFZ2, CN), Rated 5VA, RTI - 140°C
Gasket under Terminal Enclosure	R/C (QMFZ2, CN), Rated Min. HB, RTI - Min. 130°C

40-2 Overload Protector

Model	GDN50BB-A3EBA1A, GDN50BB-A3EBA2A
Employed with Compressor	QXA-G050xW230
Listee's Name	Changzhou Changrong Electrical Appliance Co., Ltd (E237353)
Model or Designation	HPA-221
Internal or External?	Internal

40-5 Run Capacitor (Recognized CYWT2/8) (See Sec. Gen. for Spacings)

Model	GDN50BB-A3EBA1A, GDN50BB-A3EBA2A
Employed with Compressor	QXA-G050xW230
Type	Oil Filled
Listee's Name	Various
Model No.	Various
Rating, uF, V min., Ambient Temperature	35, 250, T70
Minimum AFC Rating	5000
Location	Within Control Box
Container Material	Aluminum or steel
Corrosion Protection	Inherent
Mounting (+)	Minimum 14.3 mm clearance
Retention means	Secured by a metal strap and screw

(+) - No obstruction located in front of cover.

40-1 Compressor (Recognized SLIS2, CN) (Cont'd)

Model	GDN30BB-A3EBA1B, GDN30BB-A3EBA2B, GDN30BB-A3EBA4A, GDN30BB-A3EBA3A
Listee's Name	ZHUHAI LANDA COMPRESSOR CO LTD (SA10212)
Designation	QXA-G042xW230
UL File No./Issued Date	SA44218/2008-04-18
Electrical Rating	
V, Hz, Phase	115, 60, 1
LRA	17
Bonding for Grounding	A dedicated bonding wire identified by color combination green/yellow (18 AWG) secured to control box by a mechanical screw with 4 mm thread diameter
Components of Compressor Assembly (Not for UL Representative's Use)	
Terminal Enclosure	R/C (QMFZ2, CN), Rated 5VA, RTI - 140°C
Gasket under Terminal Enclosure	R/C (QMFZ2, CN), Rated Min. HB, RTI - Min. 145°C

40-2 Overload Protector

Model	GDN30BB-A3EBA1B, GDN30BB-A3EBA2B, GDN30BB-A3EBA4A, GDN30BB-A3EBA3A
Employed with Compressor	QXA-G042xW230
Listee's Name	Changzhou Changrong Electrical Appliance Co., Ltd (E237353)
Model or Designation	HPA-518
Internal or External?	Internal

40-5 Run Capacitor (Recognized CYWT2/8) (See Sec. Gen. for Spacings)

Model	GDN30BB-A3EBA1B, GDN30BB-A3EBA2B, GDN30BB-A3EBA4A, GDN30BB-A3EBA3A
Employed with Compressor	QXA-G042xW230
Type	Oil Filled
Listee's Name	Various
Model No.	Various
Rating, uF, V min., Ambient Temperature	35, 250, T70
Minimum AFC Rating	5000
Location	Within Control Box
Container Material	Aluminum or steel
Corrosion Protection	Inherent
Mounting (+)	Minimum 14.3 mm clearance
Retention means	Secured by a metal strap and screw

(+) - No obstruction located in front of cover.

40-1 Compressor (Recognized SLIS2, CN) (Cont'd)

Model	GDN35BB-A3EBA1A, GDN35BB-A3EBA2A, GDN35BB-A3EBA3A, GDN35BB-A3EBA4A.
Listee's Name	XIAN QINGAN REFRIGERATION EQUIPMENT CO LTD
Designation	YZG-Q048BFY2D2
UL File No./Issued Date	SA32170/2017-11-23
Electrical Rating	
V, Hz, Phase	115, 60, 1
LRA	21
Bonding for Grounding	A dedicated bonding wire identified by color combination green/yellow (18 AWG) secured to control box by a mechanical screw with 4 mm thread diameter
Components of Compressor Assembly (Not for UL Representative's Use)	
Terminal Enclosure	R/C (QMFZ2, CN), Rated 5VA, RTI - 140°C
Gasket under Terminal Enclosure	R/C (QMFZ2, CN), Rated Min. HB, RTI - Min. 145°C

40-2 Overload Protector

Model	GDN35BB-A3EBA1A, GDN35BB-A3EBA2A, GDN35BB-A3EBA3A, GDN35BB-A3EBA4A.
Employed with Compressor	YZG-Q048BFY2D2
Listee's Name	Changzhou Changrong Electrical Appliance Co., Ltd (E237353)
Model or Designation	HPA-419
Internal or External?	Internal

40-5 Run Capacitor (Recognized CYWT2/8) (See Sec. Gen. for Spacings)

Model	GDN35BB-A3EBA1A, GDN35BB-A3EBA2A, GDN35BB-A3EBA3A, GDN35BB-A3EBA4A.
Employed with Compressor	YZG-Q048BFY2D2
Type	Oil Filled
Listee's Name	Various
Model No.	Various
Rating, uF, V min., Ambient Temperature	40, 250, T70
Minimum AFC Rating	5000
Location	Within Control Box
Container Material	Aluminum or steel
Corrosion Protection	Inherent
Mounting (+)	Minimum 14.3 mm clearance
Retention means	Secured by a metal strap and screw

(+) - No obstruction located in front of cover.

50 REFRIGERATION SYSTEM: (Refrigerant Containing Components)

50-1 Condenser (Fin and Tube Types)

Model	GDN50BB-A3EBA1A, GDN50BB-A3EBA2A, GDN30BB-A3EBA1B, GDN30BB-A3EBA2B, GDN30BB-A3EBA4A, GDN30BB-A3EBA3A
Manufacturer	Gree Electric Appliances Inc Of Zhuhai
No. Tubes High	12, 11, 9
No. Tubes Deep	3
Physical Size of Finned Section, W x H x D, mm	245 x 228.6 x 34.2
Tubing Material	Copper
Tubing OD, mm	5
Tubing Wall Thickness, mm	0.23
Return Bend Tubing OD, mm	5
Return Bend Wall Thickness, mm	0.41, 0.5
Fins per Inch	18
Bonding for Grounding (Method)	Through copper tubing to compressor
Product Line Test Pressure, MPa (Minimum)	3.6
Illustration	Refer to ILL. 5 for details

50-1 Condenser (Fin and Tube Types) (Cont'd)

Model	GDN35BB-A3EBA1A, GDN35BB-A3EBA2A, GDN35BB-A3EBA3A, GDN35BB-A3EBA4A.
Manufacturer	Gree Electric Appliances Inc Of Zhuhai
No. Tubes High	12, 12, 12
No. Tubes Deep	3
Physical Size of Finned Section, W x H x D, mm	245 x 228.6 x 34.2
Tubing Material	Copper
Tubing OD, mm	5
Tubing Wall Thickness, mm	0.23
Return Bend Tubing OD, mm	5
Return Bend Wall Thickness, mm	0.41, 0.5
Fins per Inch	18
Bonding for Grounding (Method)	Through copper tubing to compressor
Product Line Test Pressure, MPa (Minimum)	3.6
Illustration	Refer to ILL. 5A for details

50-2 Evaporator (Fin and Tube Type)

Model	GDN50BB-A3EBA1A, GDN50BB-A3EBA2A, GDN30BB-A3EBA1B, GDN30BB-A3EBA2B, GDN30BB-A3EBA4A, GDN35BB-A3EBA1A, GDN30BB-A3EBA3A, GDN35BB-A3EBA2A, GDN35BB-A3EBA3A, GDN35BB-A3EBA4A.
Manufacturer	GREE ELECTRIC APPLIANCES INC OF ZHUHAI
No. Tubes High	12
No. Tubes Deep	2
Physical Size of Finned Section, W x H x D, mm	245 x 228.6 x 25.4
Tubing Material	Copper
Tubing OD, mm	7
Tubing Wall Thickness, mm	0.25
Return Bend OD, mm	7
Return Bend Wall Thickness, mm	0.41
Fins per Inch	18
Bonding	Through copper tubing to compressor
Product Line Test Pressure, MPa (Minimum)	2.2
Illustration	Refer to ILL. 6 for details

50-3 Accumulator - Integrated Part of R/C Compressor

50-4 Refrigerant Control

Model	GDN50BB-A3EBA1A, GDN50BB-A3EBA2A, GDN30BB-A3EBA1B, GDN30BB-A3EBA2B, GDN30BB-A3EBA4A, GDN30BB-A3EBA3A	GDN35BB-A3EBA1A, GDN35BB-A3EBA2A, GDN35BB-A3EBA3A, GDN35BB-A3EBA4A.	
Capillary Tube - No. Provided	1	1	
Material	Copper	Copper	
ID, mm	1.0	1.0	
Wall Thickness, mm	0.65	0.65	
Length, mm	600	700	
Capillary Code (Not for UL Representative's use)	CT1	CT2	

50-6 Interconnecting Tubing (See Sec. Gen.)

50-7 Method of Joining Tubing and Components - See Sec. Gen.

60 MOTORS:

60-1 Fan Motor (Recognized XEWR2, CN)

Model	GDN50BB-A3EBA1A, GDN50BB-A3EBA2A, GDN30BB-A3EBA1B, GDN30BB-A3EBA2B, GDN30BB-A3EBA4A, GDN35BB-A3EBA1A, GDN30BB-A3EBA3A, GDN35BB-A3EBA2A, GDN35BB-A3EBA3A, GDN35BB-A3EBA4A.
Listee's Name	ZHUHAI KAIBANG MOTOR MFG CO LTD (E257969)
Model No.	CF20D
Recognized Designation	YY020-704P01-001
UL File No./Issued Date	E470671/2013-08-08
Rating V, A, W, Hz	115, 0.46, 20, 60 (Copper winding, Class A)
Overheating Protection	Thermally protected
Listee's Name	JIANGSU CHANGSHENG ELECTRIC APPLIANCE CO LTD (E214731)
Model Designation	18AM-B
Motor Type	Enclosed
Mounting	Secured to Fan Shroud by screws
Bonding for Grounding	A dedicated bonding wire identified by color combination green/yellow (min. 20 AWG) secured to control box by a mechanical screw with 4 mm thread diameter

60-2 Fan Capacitor (Recognized CYWT2/8) (See Sec. Gen. for Spacings)

Model	GDN50BB-A3EBA1A, GDN50BB-A3EBA2A, GDN30BB-A3EBA1B, GDN30BB-A3EBA2B, GDN30BB-A3EBA4A, GDN35BB-A3EBA1A, GDN30BB-A3EBA3A, GDN35BB-A3EBA2A, GDN35BB-A3EBA3A, GDN35BB-A3EBA4A.
Employed with Fan Motor	YY020-704P01-001
Type	Dry
Listee	Various
Model No.	Various
Rating, uF, V min., Ambient Temperature	6, 250, T70
Location	Within Control Box
Securement	By one screw and two tabs
Special Comments	Capacitor Enclosure Rating - Min. V-1 (Not for UL Representative's Use)

60-1 Fan Motor (Recognized XEWR2, CN) (Cont'd)

Alternate -

Model	GDN50BB-A3EBA1A, GDN50BB-A3EBA2A, GDN30BB-A3EBA1B, GDN30BB-A3EBA2B, GDN30BB-A3EBA4A, GDN35BB-A3EBA1A, GDN30BB-A3EBA3A, GDN35BB-A3EBA2A, GDN35BB-A3EBA3A, GDN35BB-A3EBA4A.
Listee's Name	ZHONG SHAN NAN-FENG ELECTRICAL MACHINERY CO LTD
Model No.	CF20D
Recognized Designation	YY020-704PL01-001
UL File No./Issued Date	E256306/2017-12-19
Rating V, A, W, Hz	115, 0.4, 20, 60 (Copper winding, Class B)
Overheating Protection	Thermally protected
Listee's Name	JIANGSU CHANGSHENG ELECTRIC APPLIANCE CO LTD (E214731)
Model Designation	BR-A
Motor Type	Enclosed
Mounting	Secured to Fan Shroud by screws
Bonding for Grounding	A dedicated bonding wire identified by color combination green/yellow (min. 20 AWG) secured to control box by a mechanical screw with 4 mm thread diameter

60-2 Fan Capacitor (Recognized CYWT2/8) (See Sec. Gen. for Spacings)

Model	GDN50BB-A3EBA1A, GDN50BB-A3EBA2A, GDN30BB-A3EBA1B, GDN30BB-A3EBA2B, GDN30BB-A3EBA4A, GDN35BB-A3EBA1A, GDN30BB-A3EBA3A, GDN35BB-A3EBA2A, GDN35BB-A3EBA3A, GDN35BB-A3EBA4A.
Employed with Fan Motor	YY020-704PL01-001
Type	Dry
Listee	Various
Model No.	Various
Rating, uF, V min., Ambient Temperature	6, 250, T70
Location	Within Control Box
Securement	By one screw and two tabs
Special Comments	Capacitor Enclosure Rating - Min. V-1 (Not for UL Representative's Use)

70 ELECTRICAL COMPONENTS:

70-1 Switches

Model	All
Use (Loads Controlled)	Water Level
Manufacturer	Various
Model Number	Various
Electrical Rating	125 V, 16 A
Location/Enclosure	Behind Water Bucket
Special Comments	Electrically located in low voltage circuit power supplied by class 2 transformer. No safety function.

70-2 Transformer - R/C (XOKV2, CN)

Model	All except models with switch mode power supply
Listee's Name	DONGGUAN CITY DAZHONG ELEC CO LTD DONGGUAN CITY WANXING ELEC FTY
Model Designation	35X15D(1)
UL File No./Issued Date	E218861/2006-08-21
Rating	Primary - 110-120 V, 60 Hz; Secondary - 11.8 V, 250 mA
Securement	By screws

Alternative:

Model	All except models with switch mode power supply
Listee's Name	SHENZHEN JINGQUANHUA ELECTRONICS CO LTD
Model Designation	DB-EI35-5051A
UL File No./Issued Date	E221053/2012-02-23
Rating	Primary - 120 V, 60 Hz; Secondary - 11.8 V, 250 mA
Securement	By screws

70-3 Temperature Controller

Model	GDN50BB-A3EBA1A, GDN50BB-A3EBA2A, GDN30BB-A3EBA1B, GDN30BB-A3EBA2B, GDN30BB-A3EBA4A, GDN30BB-A3EBA3A	GDN35BB-A3EBA1A, GDN35BB-A3EBA2A, GDN35BB-A3EBA3A, GDN35BB-A3EBA4A.
Main PWB		
Manufacturer	Gree Electric Appliances Inc Of Zhuhai	
Model No.	M10101AH	M10101AW
Circuit Schematic	High voltage circuit shall not differ from ILL. 7 or 7B	High voltage circuit shall not differ from ILL. 7A
PWB Layout	PWB layout shall not differ from ILL. 8 or 8A	PWB layout shall not differ from ILL. 8
Printed Wiring Board	R/C (ZPMV2, CN), Rated V-0, 130°C, Suitable for direct support of live parts	
Populated Components on M10101AH , M10101AW (Main PWB) -		
Compressor Relay (1 provided) Special Comments - Not for UL Representative's Use - Relay Enclosure Rating - Min. V-1	R/C (NLDX2, 8), XIAMEN HONGFA ELECTROACOUSTIC CO LTD (E134517), Type JQX-102F, Rated 1 HP, 120V ac, 100K cycles, T85; Or R/C (NLDX2, 8), SONG CHUAN PRECISION CO LTD (E88991), Type 891WP-1A-C, Rated 18 FLA, 98 LRA, 240 Vac, 30K cycles, T65; Or R/C (NLDX2, 8), DONGGUAN SANYOU ELECTRICAL APPLIANCES CO LTD (E190598), Type SFK-112DM, Rated 1 HP, 120 V ac, 100K cycles, T80; Or R/C (NLDX2, 8), DONGGUAN CHUROD ELECTRONICS CO LTD (E341422), Type CHF-V-112DA2, Rated 240 V ac, 2 Hp, 100K cycles, T85;	
Fan Motor Relay (3 provided) Water Pump Relay (only for models with water pump, 1 provided) Special Comments - Not for UL Representative's Use - Relay Enclosure Rating - Min. V-1	R/C (NLDX2, 8), XIAMEN HONGFA ELECTROACOUSTIC CO LTD (E134517), Type JZC-32F, Rated 1/10 HP, 125 V ac, 100K cycles, T70; Or R/C (NLDX2, CN), DONGGUAN SANYOU ELECTRICAL APPLIANCES CO LTD (E190598), Type SJ-S-112DM, Rated 1/3 HP, 240 V ac, 30K Cycles, T105; Or R/C (NLDX2, CN), DONGGUAN CHUROD ELECTRONICS CO LTD (E341422), Model A1-S-112DA, Rated 125 V ac, 1/6 HP, 100K cycles, T85; Or R/C (NRNT2, CN), TYCO ELECTRONICS (SHENZHEN) CO LTD (E82292), Model OJE-SS-112DM, Rated 125 V ac, 1/10 HP, 100K Cycles, T85;	
Fuse (FU1)	R/C (JDYX2, CN), Rated 120 V Min., 3.15 A	
Varistor (RV1)	R/C (VZCA2, CN), Rated 385 V Min.	
X Capacitor (C1)	R/C (FOWX2, CN), Rated 275 V Min., 0.01 uF	
Display PWB - Low voltage		
Printed Wiring Board	R/C (ZPMV2), Rated V-0	
Humidity PWB - Low voltage		
Printed Wiring Board	R/C (ZPMV2), Rated V-0	

*Note: M10101AW is similar to M10101AH except the temperature controller **M10101AWwithout relay and connector for water pump..**

80 INTERNAL WIRING:

80-1 Wiring Method

Except as follows, see Sec. Gen. for complete wiring details.

A. Compressor leads are type UL 1015, rated 105°C, detailed AWG refer to table below -

Model	AWG
GDN50BB-A3EBA1A, GDN50BB-A3EBA2A, GDN30BB-A3EBA1B, GDN30BB-A3EBA2B, GDN30BB-A3EBA4A, GDN35BB-A3EBA1A, GDN30BB-A3EBA3A, GDN35BB-A3EBA2A, GDN35BB-A3EBA3A, GDN35BB-A3EBA4A.	18

B. Fan motor leads are min. No. 20 AWG (UL 1015), rated 105°C.

C. All wiring is rated VW-1, 300 V minimum.

D. The internal leads as indicated below are covered by one layer of R/C (YDPU2, CN) insulating sleeving with min. thickness as indicated below. Insulating sleeving is secured in place by cable tie and used for isolating when these leads contact with high voltage leads.

- 0.5 mm thick sleeving for Internal leads connecting Main PWB and Display Board (PWB);

- 0.5 mm thick sleeving for Internal leads connecting Water Level Switch

- only for models provided with temperature sensor on discharging tubing - 0.25 mm thick sleeving for Internal leads connecting temperature sensor on discharging tubing;

- 0.5 mm thick sleeving for Internal leads connecting Humidity PWB and Display Board (PWB);

E. The internal leads as indicated below are additionally covered by one layer of R/C (YDPU2, CN) shrinkable insulating sleeving with min thickness as indicated below. These sleeving are placed nearby the termination of leads (connector).

- 0.25 mm thick sleeving for Internal leads connecting Main PWB and Display Board (PWB);

- 0.25 mm thick sleeving for Internal leads connecting Water Level Switch

90 ELECTRICAL SUPPLY CONNECTION:

90-1 Cord Connected Unit

Model	GDN50BB-A3EBA1A, GDN50BB-A3EBA2A, GDN30BB-A3EBA1B, GDN30BB-A3EBA2B, GDN30BB-A3EBA4A, GDN35BB-A3EBA1A, GDN30BB-A3EBA3A, GDN35BB-A3EBA2A, GDN35BB-A3EBA3A, GDN35BB-A3EBA4A.	
Power Supply Cord (with plug)	Any Listed (ELBZ,7)	
Flexible Cord Type	SJT	
Size, AWG No., Minimum	3 x 18	
Attachment Plug Cap		
Rating (V, A)	125, 15	
Cord Length(+), m	1.5 minimum, 3 maximum	
Strain Relief Means	Cable clamp screwed to Unit Base, refer to ILL. 9 for details	
Means to prevent pushback displacement	Integrated bushing of power supply cord blocked by the rib integrated with Unit Base	
Grounding Conductor Color	Green/yellow of solid green	
Securement of Grounding Conductor		
Location	Control Box	
Securement of Means	4 mm thread diameter of mechanical screw with star washer	

+ - Measured between the attachment plug and (1) any point at which the cord exits the product cabinet or (2) the last strain relief, whichever is shorter.

100 ADDITIONAL COMPONENTS:

Model	All
Cluster Connectors - Recognized (ECBT2, CN), suitable for size and type of wires used.	
Quick Connectors - Recognized (RFWV2, CN), suitable for size and type of wires used.	
Tubing/Sleeving - Recognized (YDPU2, CN), VW-1, suitable for size and type of wires used.	

Figures

The following figures represent all models unless otherwise specified.

Fig.	Description
1	Front Side
2	Left Side
3	Rear Side
4	Right Side
5	Top Side
6	Internal View - A
7	Internal View - B
8	Internal View - C
9	Internal View - D
10	Control Box
11	Main PWB - Top Layer
12	Main PWB - Bottom Layer

The following figures represent Models GDN50BB-A3EBA2A, GDN30BB-A3EBA2B.

Fig.	Description
1A	Front Side
2A	Left Side
4A	Right Side
5A	Top Side

The following figures represent Models GDN30BB-A3EBA3A.

Fig.	Description
1B	Front Side

Illustrations

ILL.	Description
1,1A	Wiring Diagram
*2, 2A-2C	Front Unit Cabinet
3	Top Unit Cabinet
4	Control Box
5,5A	Condenser
6	Evaporator
7,7A,7B	Circuit Schematic
8,8A	PWB Layout
9	Strain Relief
10	Instruction Manual
11	Blower Wheel
12	Fan Shroud