



To : Mr. Oliver M. Filoteo
President / Chief Executive Officer
From : Quality Control Department
Re : Window type air-conditioner
Date : January 27, 2026
Reference no. : QCD-WAC-100GQAIINV32-26-01-001
Cc : PCO / A. De Rivera / Dept. concern

Listed below are the specifications and parts of newly delivered Window type air-conditioner Quad Driven by AI Inverter with smart controller, received and inspected this January 19, to 24, 2026.

KA-100GQAIINV32 (1.0hp)

Model : KA-100GQAIINV32
Description : Remote control window type inverter (QUAD AI SERIES) with Wifi
EAN Number : 4 806508 236592
P/O Number : KT-2509GR-18
Lot Number : 192025001
Serial number range : 19202509-10001 to 11972 (1,972 units)
Printing Features : Good and all labels are correct

Inspected units: **Kolin Serial number** 19202509 – 10726 and 11912
Supplier Serial no. 1309350000732 and 1309350001918



Remarks:

1. First shipment of the new QUAD AI Series 1.0hp inverter window-type air conditioner.
2. Carton box color and features are same from approved designed.
3. The label is complying to the declared specification.
4. The CSPF / Energy label was stucked on face cover using own adhesive.
5. The Main PCB, Display PCB, and remote control are different to sample unit.
See details on page 9.

Recommendations:

Units are automatically for 100%-line inspection and testing, also need to put QR code on to warranty card and serial number on power cord.

Note: Inspected units are compared to the Sample unit.

MAIN BOARD is the only difference of 1.0hp on 0.75hp QUAD AI.

Packaging and Carton box checking:

Packaging Dimensions	W x D x H Gross weight	516 x 743 x 374 mm 31.5 kg.
Packaging Support	Top support : Bottom support :	Carton board / Single wall / Thickness 2.0mm Styrofoam / Thickness : 30mm
Carton Box	W x D x H / Weight : Type / Thickness :	520 x 741 x 362 mm / 1.415g. Single wall, BE flute / 5.0mm
Carton base	W x D x H / Weight : Type / Thickness	507 x 731 x 35mm / 270g Single wall, B flute / 3.0mm
Accessories	<ol style="list-style-type: none">1. Owner's Manual2. Smart Controller Manual3. Warranty Card4. Remote Control5. AAA battery6. Drain pan7. Screw (2pcs)	

Unit checking for outer part:

Specifications :	Phase	Single
	Voltage	230 V~
	Frequency	60 Hz
	Nominal Capacity	1.0hp
	Cooling Capacity	10,290 (3,087-11,319)kJ/h
		2.86(0.86-3.14)kW
	Power Input	740 (148-888) W
	Input Current	4.0 A
	Rated Power / Current	1,200 W / 5.3 A
	CSPF	5.60 ★★★★★
	Max Allowable Pressure	4.3 MPa
	Max Discharge Pressure	4.3 MPa
	Max Suction Pressure	2.5 MPa
	Sound Pressure Level	50/46/42 dB (A)
	Moisture Protection	IPX4
	Refrigerant / Charge	R32 / 0.42kg
BPS Certificate License No.	Product safety & Quality Q-2824	
Unit Dimensions	Width x Depth x Height	450 x 640 x 350mm
	Net weight	29 kg.



Shell Cabinet	Appearance	White color, powder coated metal. Air ventilation on both side and top.
	Dimensions W x D x H	450 x 612 x 352mm
	Back Logo (Dimensions)	KOLIN (190mm x 80mm) Green color Full DC Inverter (44mm x 11mm)
Face Cover	Appearance	White color, plastic materials. With KOLIN, QUAD AI, and INV. logo
	Dimensions (W x D x H)	448x 53 x 350mm
	Swing louver (Horizontal)	17 x 110mm /12pcs. / White (manual)
	Swing louver (Vertical)	178 x 30 x 45mm / Black (motorize)
	Air intake panel (Dimensions): Front Kolin logo : Quad AI logo : Full DC Inverter logo:	307 x 34 x 347mm Cool gray color (size) 45 x 16mm Cool gray color (size) 50 x 22.5mm 37 x 9.5mm
Air Filter (Appearance) : (Dimensions) :	White color 264mm x 288mm	
Power cord	Color / Size : Specifications :	Dirty White color / Length 1.5 meter SJT / 3 x 0.224mm ² (18AWG)105°C 300V / Rifeng / NEMA 6-15 type

Unit checking for inner part:

Compressor Motor	Brand name: Model Number: Specifications: Manufacturer: Appearance:	GREE QXF-N075z T190 260-350V / 900-5400rpm / R32/R410A Zhuhai Landa Compressor Co. LTD Black coated Internal OLP
Fan Motor	Type: Part number: Model : Specifications: Manufacturer: Appearance :	Permanent Magnet Brushless DC Motor 150104060091 ZWF-45A / CJ45A-ZL / DC310V/ 45W/ B / 8P / IP44 / 1050r/min. Jiangsu Shangqi Group Co Ltd White Coated casing
Control Module	Main Board	300027064697 / W28E13DN GRJ28E-A8 (V1) T1.6 / 14
	Electrolytic Capacitor	470µf / 450V / 105°C (2 pc.)
	Heat zinc	Dimensions (W x D x H) 132 x 50 x 40mm
	Control box	GI materials, with plastic base inside
	Remote Control (Type)	YAW1F9 / AAA battery 1.5V x 2
	WIFI Module (Model)	300145000144 / WB64AR
	Display panel Board	300001060992 (D28EF13MJ) GRJ28E-B3 (V1) 2022/03/11/13 T1.6
Swing Motor	MP24VA / 12V / Step Motor (1pc.)	

Electric Expansion Valve	Brand / Specifications	DUNAN / DC 12V / DPFX07-766
Unit Sensors	Temperature sensor: Tube sensor: Temperature Sensor Tube Sensor: CompTemp. sensor	GL 15K / 382mm (L) Evaporator Side GL 20K / 634mm (L) Evaporator Side GL 15K / 450mm (L) Condenser Side GL 20K / 877mm (L) Condenser Side GL 50K / 688mm (L)
Evaporator	Aluminum fins : Copper tubing : Dimensions :	196pcs. Blue fins (Straight design) 3 rows of 48 lines of Ø 7.0mm (L x H x W)265 x 306 x 38.mm Coated by Blue Resin paint
Condenser	Aluminum fins : Copper tubing : Dimensions :	520pcs. Blue fins (C curve design) 3 rows, 48 lines with Ø 5.0mm each (L x H x W) 660 x 323 x 34.2mm
Tubing system	Capillary tube (1pc.): Suction tube : High pressure tube : Strainer / Drier :	Ø 2.3mm x 650mm length Ø 9.5mm outside diameter Ø 8.0mm outside diameter 25.5mm x 202mm
Wheel blower	Appearance: Dimensions :	Ivory color / ABS Plastic materials 67 leaves 6mm gap each Ø193mm x 81mm
Propeller Fan	Appearance: Dimensions :	Ivory color / ABS Plastic materials / 5 Blades Ø310mm x 100mm
Other Parts	Unit Base:	White coated metal materials
	Top cover / Divider:	Evaporator side - GI materials Condenser side - Plastic materials
	Fan Motor Bracket:	Plastic materials, built-in to divider and mounted on base.

Unit Inner Part Photo's and Spec's.

		<p style="text-align: center;">COMPRESSOR</p> <p style="text-align: center;">GREE QXF-N075zT190 260-350V / 900-5400rpm / R32/R410A</p>
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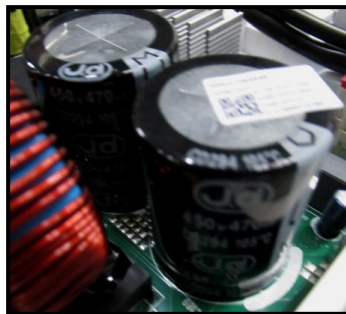
FAN MOTOR

Permanent Magnet Brushless DC Motor
150104060091
ZWF-45A / CJ45A-ZL /
DC310V/ 45W/ B / 8P / IP44 / 1050r/min.



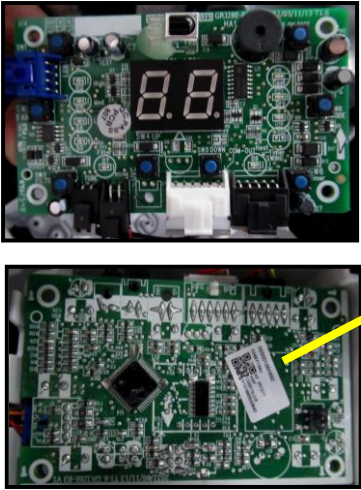


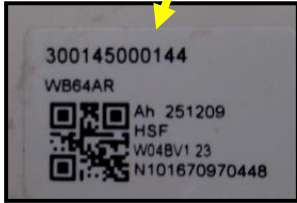



MAIN BOARD

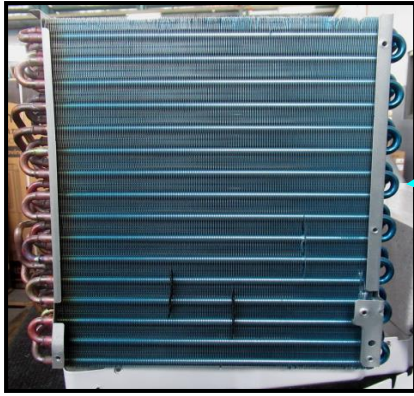
300027064697 / W28E13DN
GRJ28E-A8 (V1) T1.6 / 14



ELECTROLYTIC CAPACITOR

470 μ f / 450V (2 pc.)

 	<p align="center">DISPLAY BOARD</p> <p align="center">300001060992 (D28EF13MJ) GRJ28E-B3 (V1) 2022/03/11/13 T1.6</p>
 	<p align="center">WIFI MODULE</p> <p align="center">300145000144 / WB64AR</p>
	<p align="center">REMOTE CONTROL</p> <p align="center">YAW1F9 / AAA battery 1.5V x 2</p>
	<p align="center">ELECTRIC EXPANSION VALVE</p> <p align="center">DUNAN / DC 12V /DPFX07-766</p>
	<p align="center">SWING MOTOR</p> <p align="center">MP24VA / 12V / Step Motor (1pc)</p>



EVAPORATOR

196pcs. Blue fins (Straight design)
3 rows of 48 lines of Ø 7.0mm
(L x H x W) 265 x 306 x 38.mm
**The long U bend side was coated
by Blue Resin Paint**



CONDENSER

520pcs. Blue fins (C curve design)
3 rows, 48 lines with Ø 5.0mm each
(L x H x W) 660 x 323 x 34.2mm




BLOWER WHEEL

Ivory color / ABS Plastic materials
67 leaves
 Ø 193mm x 81mm

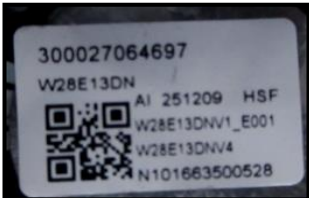





PROPELLER FAN

Ivory color / ABS Plastic materials / 5
Blades Ø 310mm x 100mm

	<p style="text-align: center;">ACCESSORIES</p> <p style="text-align: center;">Owner/s Manual Smart Controller Manual Warranty Card Remote Control AAA battery Screw (2pcs) Drain Pan</p>
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COMPARISON OF KA-100GQAIINV32 to 1.0HP SAMPLE UNIT

PARTS	KA-100GQAIINV32	SAMPLE UNIT	REMARKS
COMPRESSOR	GREE QXF-N075ZT190 260-350V / 900-5400rpm / R32/R410A	GREE QXF-N075ZT190 260-350V / 900-5400rpm / R32/R410A	SAME
FAN MOTOR	Permanent Magnet Brushless DC Motor 150104060091 ZWF-45A / CJ45A-ZL / DC310V/ 45W/ B / 8P / IP44 / 1050r/min.	Permanent Magnet Brushless DC Motor 150104060091 ZWF-45A / CJ45A-ZL / DC310V/ 45W/ B / 8P / IP44 / 1050r/min.	SAME
MAIN BOARD	<p style="text-align: center;">300027064697 / W28E13DN</p> <p>GRJ28E-A8 (V1) T1.6 / 14</p> 	<p style="text-align: center;">300027063704 / W28E13CGJ</p> <p>GRJ28E-A8 [V1] 2024 / 03/14 / 13 / T1.6</p> 	DIFFERENT
DISPLAY BOARD	<p style="text-align: center;">300001060992/D28EF13MJ</p> <p>GRJ28E-B3 (V1) 2022/03/11/13 T1.6</p> 	<p style="text-align: center;">300001061392 / D28EF13ACJ</p> <p>GRJ28E-B3 V1 2022/3/11/13 T1.6</p> 	DIFFERENT

WIFI MODULE	WB61AR / 300145000144	NONE	
REMOTE CONTROL	YAW1F9 / AAA battery 1.5V x 2	YAWIF9 / AAA battery 1.5Vx2	SAME
ELECTRIC EXPANSION VALVE	DUNAN / DC 12V DPFX07-766	DUNAN / DC 12V DPFX07-766	SAME
WHEEL BLOWER	Ivory color / ABS Plastic materials 67 leaves Ø193mm x 81mm	Ivory color /ABS Plastic materials 67 leaves Ø193mm x 81mm	SAME
PROPELLER FAN	Ivory color / ABS Plastic materials / 5 Blades Ø310mm x 100mm	Ivory color / ABS Plastic materials / 5 Blades Ø310mm x 100mm	SAME
EVAPORATOR	Blue fins (Straight design) 3 rows of 48 lines of Ø7.0mm (L x H x W) 265 x 306 x 38mm	Blue fins (Straight design) 3 rows of 48 lines of Ø 7.0mm (L x H x W) 265 x 304.8 x 38mm	SAME
CONDENSER	Blue fins (L curve design) 3 rows, 48 lines with Ø 5.0mm each (L x H x W) 660 x 323 x 34mm	Blue fins (L curve design) 3 rows, 48 lines with Ø 5.0mm each (L x H x W) 660 x 323.85 x 34.2mm	SAME

For your reference,

Prepared by : Jayson L. Pagacita
QC Staff

Noted by : Alberto I. Francisco
QC Asst. Supervisor

Approved by : Engr. Kenneth P. Zamora
Asst. Plant Operations Manager