

1.0 Reference and Address			
Report Number	180900210SHA-001	Original Issued: 11-Dec-2018	Revised: 18-Nov-2024
Standard(s)	Safety of Household and Similar Electrical Appliances, Part 2-24: Particular Requirements for Refrigerating Appliances, Ice-Cream Appliances and Ice-Makers [UL 60335-2-24:2017 Ed.2+R:27Feb2020] Safety of Household and Similar Electrical Appliances, Part 1: General Requirements [UL 60335-1:2016 Ed.6] Safety of Household and Similar Electrical Appliances, Part 2-24: Particular Requirements for Refrigerating Appliances, Ice-Cream Appliances and Ice-Makers [CSA C22.2#60335-2-24:2017 Ed.2+U1;U2] Safety of Household and Similar Appliances, Part 1: General Requirements [CSA C22.2#60335-1:2016 Ed.2]		
Applicant	Ningbo Hicon Industry Technology Co., Ltd.	Manufacturer 1	Ningbo Hicon Industry Technology Co., Ltd.
Address	No.55, 4th Binhai Road, Qianwan New Area, Ningbo, Zhejiang Province	Address	No.55, 4th Binhai Road, Qianwan New Area, Ningbo, Zhejiang Province
Country	P. R. China	Country	P. R. China
Contact	Mr. Mao Binjun	Contact	Mr. Mao Binjun
Phone	(86) 574-6330 9713	Phone	(86) 574-6330 9713
FAX	(86) 574-6330 9713	FAX	(86) 574-6330 9713
Email	maobinjun@163.com	Email	maobinjun@163.com

2.0 Product Description	
Product	Refrigerator (Party Cooler, Wine Cooler & Beverage Center)
Brand name	HICON, Antarctic Star, AGLUCKY, R.W.FLAME, Kismile, Kndko, Joy Pebble, COWSAR, Free Village, ZAFRO, WAA, Electactic
Description	The products covered by this report are Refrigerator (also can be called as party coolers, wine coolers, beverage coolers, wine and beverage center etc.) for household and indoor use. Each of them is fitted with supply cord terminated by an earthing type plug.
Models	JC-70UEL-F, JC-70VEL-F, JC-70UEX-F, JC-70VEX-F, JC-75UEX-F, JC-75UEL-F, JC-75ULK-F, JC-75VEX-F, JC-75VEL-F, JC-128UEX-F, JC-128UEL-F, JC-128ULK-F, JC-128VEX-F, JC-128VEL-F, JC-90V-F, JC-90VEL-F, JC-90VEX-F, JC-90UEL-F, JC-90UEX-F, JC-90ULK-F, PC-50E-F, PC-75E-F, PC-50AE-F, PC-50A-F, PC-30E-F, PC-30-F, JC-46UEX-F, JC-46UEL-F, JC-46-F, JC-48UEX-F, JC-48UEL-F, JC-48-F, JC-48VEX-F, JC-48VEL-F, JC-36UEL-F, JC-36UEX-F, JC-36-F, JC-18-F, JC-18UEL-F, JC-18UEX-F
Model Similarity	The models JC-70UEL-F, JC-70VEL-F, JC-70UEX-F, JC-70VEX-F, JC-75UEX-F, JC-75UEL-F, JC-75ULK-F, JC-75VEX-F, JC-75VEL-F, JC-128UEX-F, JC-128UEL-F, JC-128ULK-F, JC-128VEX-F, JC-128VEL-F, JC-90V-F, JC-90VEL-F, JC-90VEX-F, JC-90UEL-F, JC-90UEX-F, JC-46UEX-F, JC-46UEL-F, JC-46-F, JC-48UEX-F, JC-48UEL-F, JC-48-F, JC-48VEX-F, JC-48VEL-F, JC-36UEL-F, JC-36UEX-F, JC-36-F, JC-18-F, JC-18UEL-F, JC-18UEX-F are wine coolers and beverage centers with similar constructions, while PC-50E-F is party cooler with different construction and appearance. As for the general principle of figures (18, 36, 46, 48, 50, 70, 75, 90, 128) in all models: the greater number, the larger volume of storage compartment. The models containing characters UEX, UEL, VEX, VEL indicate that these models employ electronic thermostats and their LED lamps are powered by SMPS. Nevertheless, their control panels are located outside on the door frame (for models containing UEX, VEX), or located on the upper frame of storage compartment after opening the door (for models containing UEL, VEL). The models containing characters ULK are similar with models containing UEL, except that models JC-18-F, JC-36-F, JC-46-F, JC-48-F, JC-90ULK-F, JC-75ULK-F and JC-128ULK-F employ mechanical thermostats and their optional LED lamps are powered by circuits connecting resistances and capacitors. The model JC-90V-F is similar with JC-128ULK-F, except for smaller enclosure size and adding evaporator fan motor supplied by power PWB. Models JC-90VEL-F and JC-90VEX-F are similar with model JC-90V-F, except that JC-90VEL-F and JC-90VEX-F use electronic thermostat and electronic control panel. The electronic control panel is located outside on the door frame in model JC-90VEX-F and on the upper frame of storage compartment after opening the door in model JC-90VEL-F. Models JC-*VEL-F, JC-*VEX-F (*=46, 48, 70, 75, 90, 128) are respectively similar with Models JC-*UEL-F, JC-*UEX-F (*=36, 46, 48, 70, 75, 90, 128) except that JC-*VEL-F, JC-*VEX-F (*=46, 48, 70, 75, 90, 128) has additional circulation fan which is located in cooling compartment. Models PC-50AE-F, PC-30E-F are similar with PC-50E-F except outer appearance, dimensions and food storage capacity, control PCB and without cooling fan. Models PC-50A-F, PC-30-F are similar with PC-50AE-F, PC-30E-F respectively, except that they are controlled by mechanical thermostat. PC-75E-F is extended model of PC-50E-F, with larger appearance size.

2.0 Product Description	
Ratings	115V~, 60Hz, Class I, Insulation blowing gas: Cyclopentane; i) 0.8A, Refrigerant R600a: 0.71Oz/20g for compressor QD35Y11G & DG40BY1A; 1.0A, Refrigerant R600a: 0.71Oz/20g for compresspr QD35C5, L35C5L & MD058YA, for JC-75UEX-F, JC-75UEL-F, JC-75ULK-F; ii) 0.8A, Refrigerant R600a: 0.81Oz/23g for compressor QD35Y11G & DG40BY1A; 1.0A, Refrigerant R600a: 0.81Oz/23g for compresspr QD35C5, L35C5L & MD058YA, for JC-70UEL-F, JC-70UEX-F; iii) 1.1A, Refrigerant R600a: 0.85Oz/24g for compressor L48C5BL(L48C5L) or TK48C5, for JC-128UEX-F, JC-128UEL-F, JC-128ULK-F; iv) 1.2A, Refrigerant R600a: 0.85Oz/24g for compressor L48C5BL (L48C5L); 1.2A, Refrigerant R600a: 0.78Oz/22g for compressor QD43Y11G & UKN43YA, for JC-90V-F, JC-90VEL-F, JC-90VEX-F; v) 0.9A, Refrigerant R600a: 0.95Oz/27g for compressor L35C5L, for PC-50E-F; vi) 1.0A, Refrigerant R600a: 1.06Oz/30g for compressor L35C5L, for PC-75E-F; vii) 0.9A, Refrigerant R600a: 0.71Oz/20g for compressor QD35Y11G, DG40BY1A; 1.1A, Refrigerant: R600a: 0.71Oz/20g for compressor QD35C5, L35C5L & MD058YA, for JC-70VEL-F, JC-70VEX-F, JC-75VEX-F, JC-75VEL-F; viii) 1.3A, Refrigerant R600a: 0.81Oz/23g for compressor L48C5BL(L48C5L), TK48C5, for JC-128VEX-F, JC-128VEL-F; ix) 0.9A, Refrigerant R600a: 0.99Oz/28g for compressor L35C5L, for PC-50AE-F, PC-50A-F; x) 0.9A, Refrigerant R600a: 0.81Oz/23g for compressor L35C5L, for PC-30E-F, PC-30-F; xi) 1.0A, Refrigerant R600a: 0.63Oz/18g for compressor QD35C5 & L35C5L & QD35Y11G & DG40BY1A & MD058YA, for JC-48UEL-F, JC-48UEX-F, JC-48-F, JC-46UEL-F, JC-46UEX-F, JC-46-F; xii) 1.1A, Refrigerant R600a: 0.60Oz/17g for compressor QD35C5 & L35C5L & QD35Y11G & DG40BY1A & MD058YA for JC-48VEL-F, JC-48VEX-F; xiii) 1.1A, Refrigerant R600a: 0.85Oz/24g for compressor QD35C5 & L35C5L & QD35Y11G & DG40BY1A & MD058YA, for JC-90UEL-F, JC-90UEX-F, JC-90ULK-F; xiv) 1.0A, Refrigerant R600a: 0.49Oz/14g for compressor QD35C5 & L35C5L & QD35Y11G & DG40BY1A & MD058YA; 1.0A, Refrigerant R600a: 0.56Oz/16g for compressor UKN22YA, for JC-36UEL-F, JC-36UEX-F, JC-36-F; xv) 0.9A, Refrigerant R600a: 0.49Oz/14g for compressor UKN22YA, for JC-18-F, JC-18UEL-F, JC-18UEX-F
Other Ratings	NA

3.0 Product Photographs

Photo 1 - External view of model JC-75UEX-F, JC-75VEX-F (Front side)

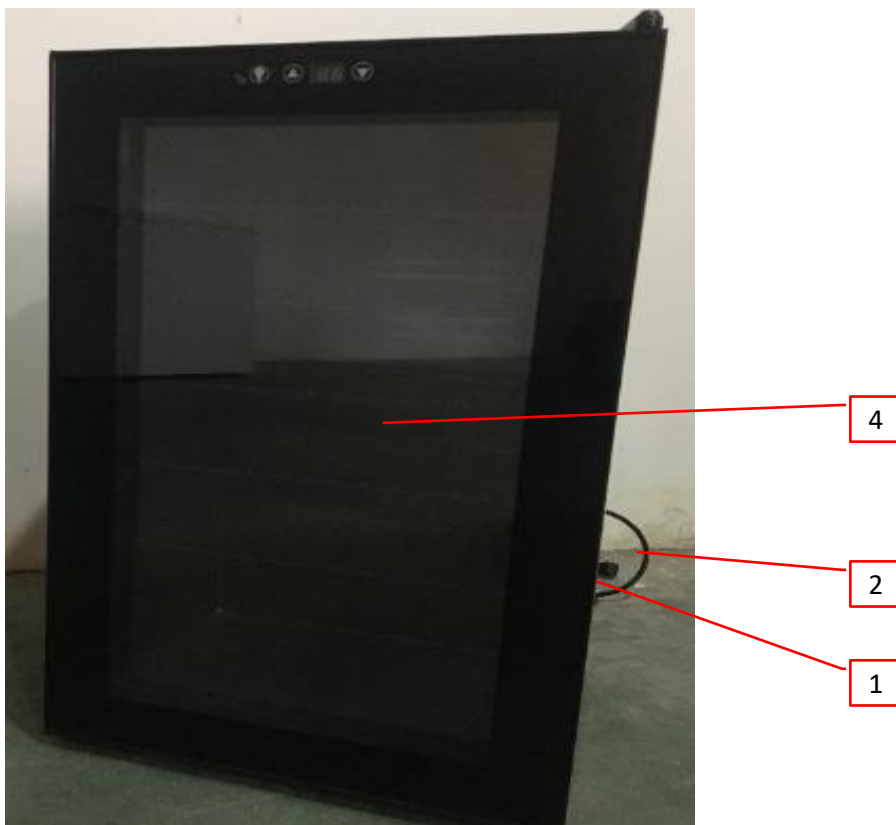


Photo 1a - External view of model JC-48UEL-F (Front side)



3.0 Product Photographs

Photo 2 - External view of models JC-75UEX-F, JC-75UEL-F, JC-75VEX-F and JC-75VEL-F (Rear side)

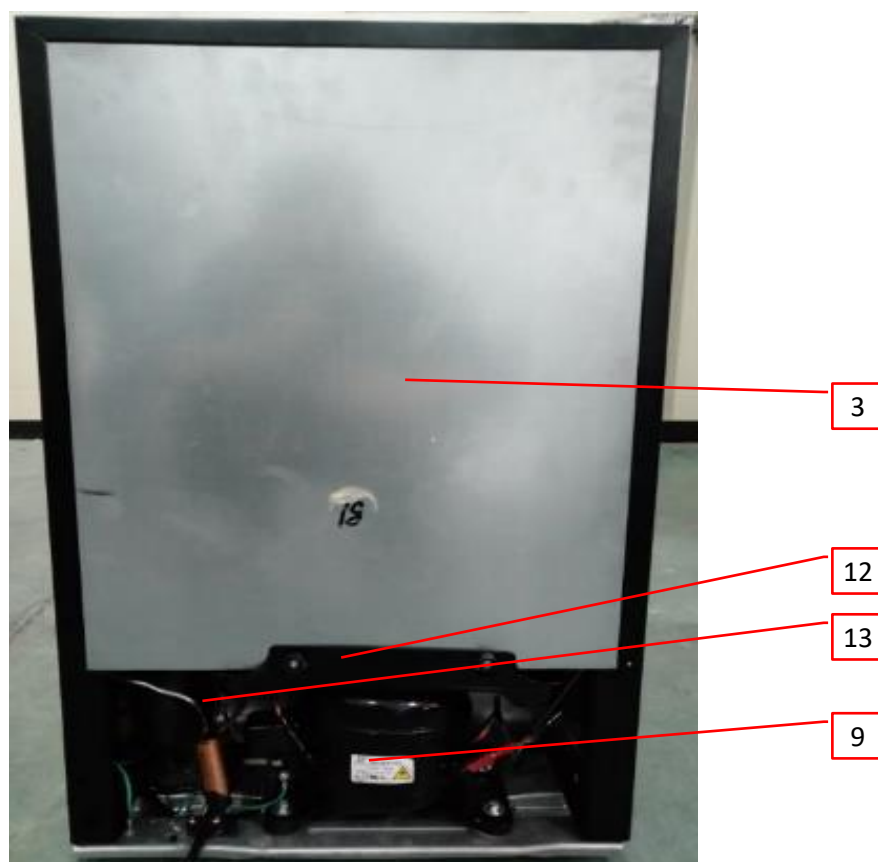


Photo 2a - External view of models JC-48UEL-F (Rear side) (compressor back cover is optional)



3.0 Product Photographs

Photo 3 - Open door view of model JC-75UEX-F



Photo 3a - Open door view of model JC-75VEX-F



3.0 Product Photographs

Photo 3b - Open door view of model JC-48UEL-F



Photo 4 - Open door view of model JC-75UEL-F, JC-75VEL-F



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3.0 Product Photographs

Photo 4a - General view of model JC-70UEL-F, JC-70VEL-F



Photo 4b - Door open view of model JC-70UEL-F, JC-70VEL-F



3.0 Product Photographs

Photo 4c - Rear view of model JC-70UEL-F, JC-70VEL-F, JC-70UEX-F, JC-70VEX-F



Photo 5 - External view of models JC-75UEL-F, JC-75ULK-F, JC-75VEL-F



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3.0 Product Photographs

Photo 5a - External view of models JC-46-F



Photo 5b - External view of models JC-48-F



3.0 Product Photographs

Photo 5c - External view of models JC-36-F



3.0 Product Photographs

Photo 6 - Open door view of model JC-75ULK-F fitted with LED lamp



Photo 6a - Open door view of model JC-75ULK-F fitted with LED lamp with alternative electric box

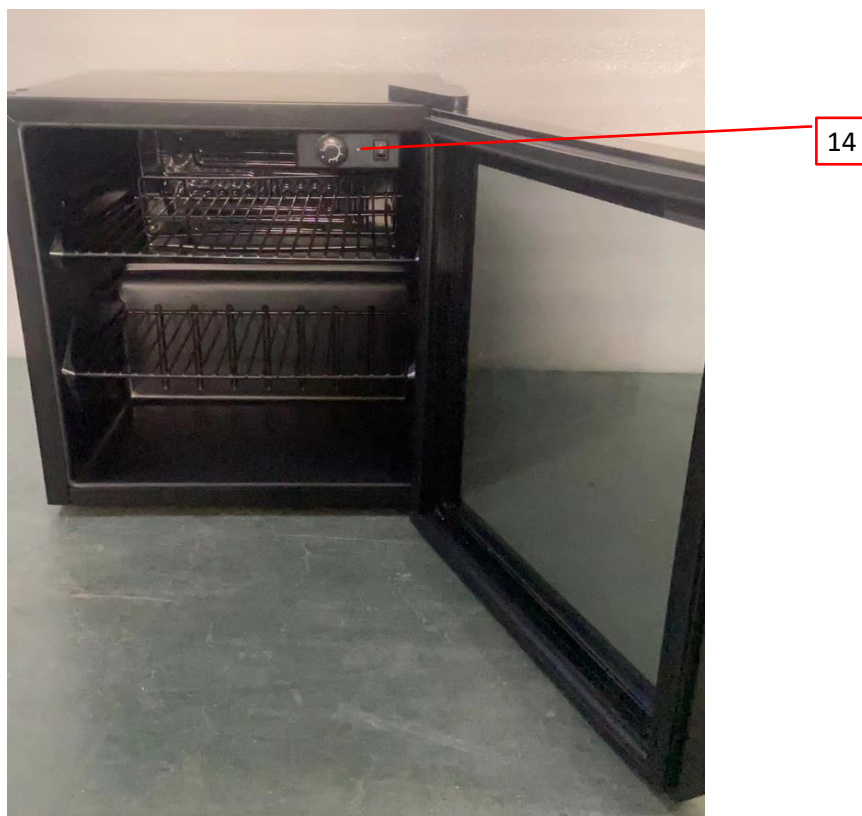


3.0 Product Photographs

Photo 7 - Open door view of model JC-75ULK-F without LED lamp



Photo 7a - Open door view of model JC-46-F

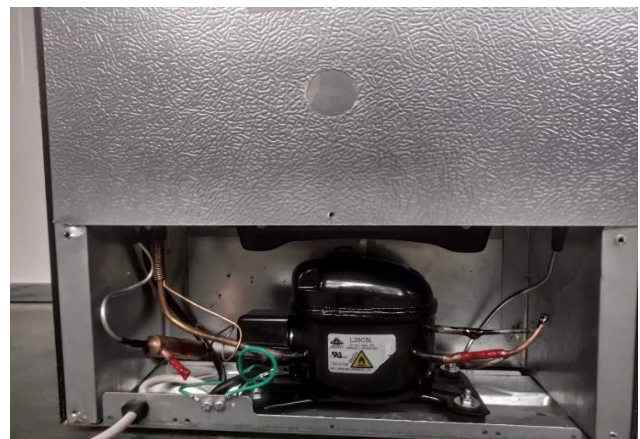


3.0 Product Photographs

Photo 7b - Open door view of model JC-48-F



Photo 7c - Rear view of model JC-48-F (back cover of compressor is optional)



3.0 Product Photographs

Photo 7d - Open door view of model JC-36-F

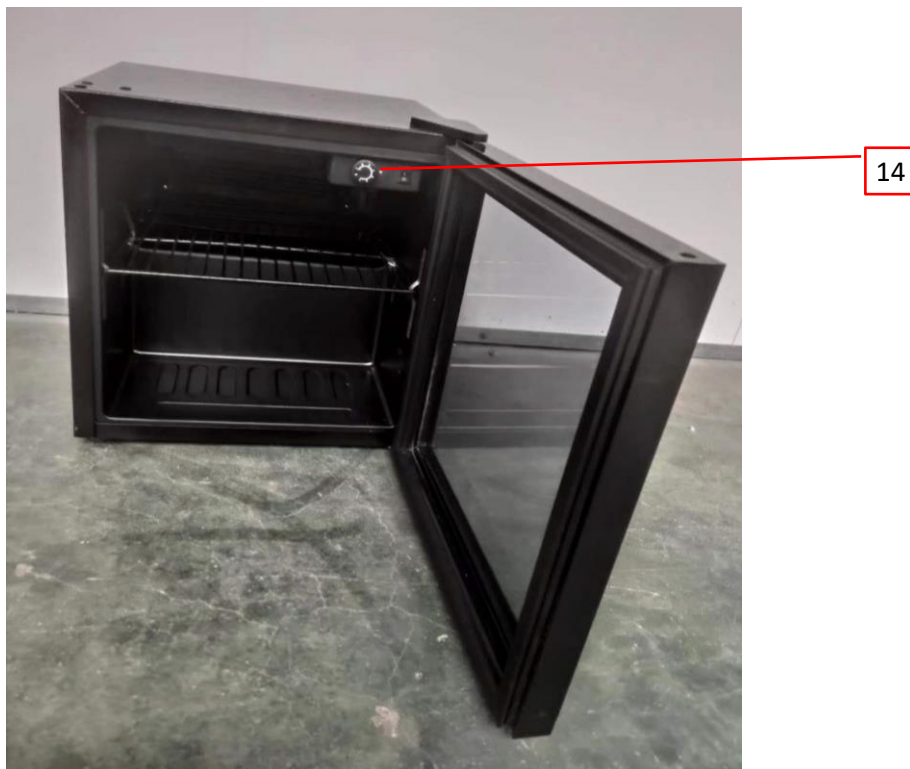


Photo 7e - Rear view of model JC-36-F



3.0 Product Photographs

Photo 7f - Rear view of JC-36-F, JC-36UEL-F, JC-48-F, JC-48UEL-F with sheet metal cover (sheet metal cover is optional)



Photo 7g - Compressor compartment view of JC-36UEL-F and JC-48UEL-F when designed with sheet metal cover



3.0 Product Photographs

Photo 8 - External view of models JC-128UEX-F, JC-128VEX-F (Front side)

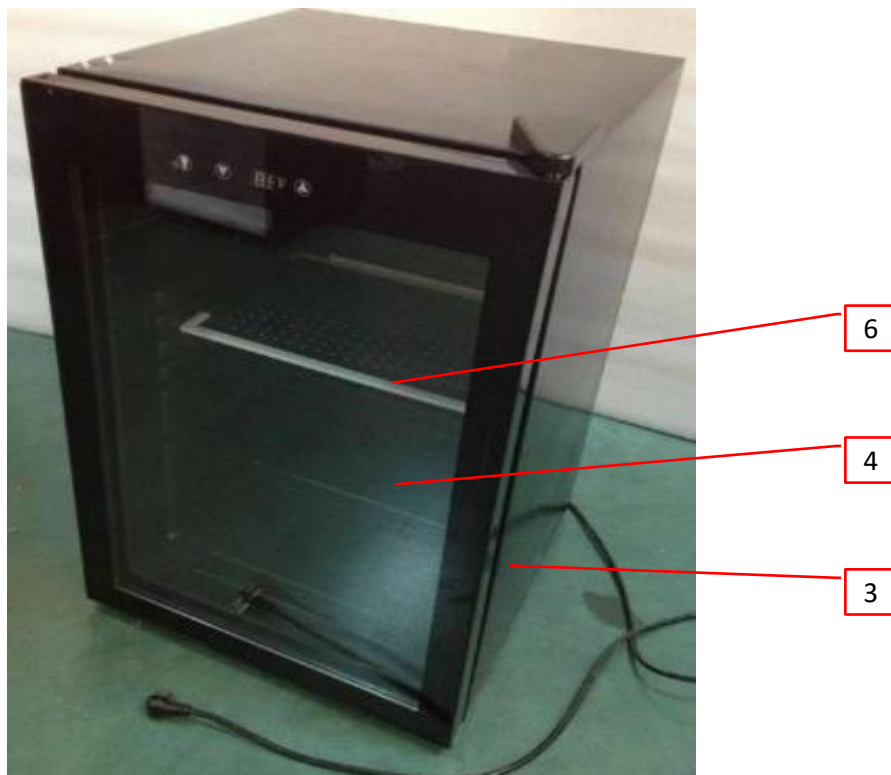


Photo 8a - External view of models JC-128UEL-F, JC-128VEL-F (Front side)



3.0 Product Photographs

Photo 9 - External view of models JC-128UEX-F, JC-128UEL-F, JC-128VEX-F and JC-128VEL-F

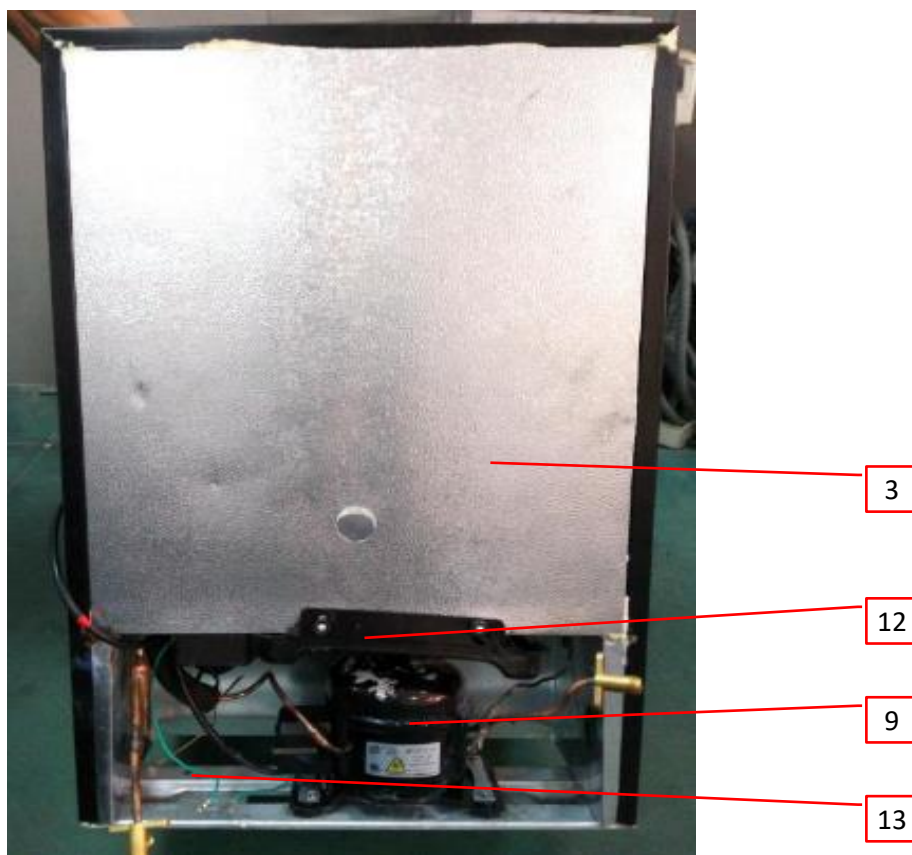


Photo 10 - Open door view of models JC-128UEL-F, JC-128VEL-F



3.0 Product Photographs

Photo 10a - Open door view of models JC-128UEX-F



Photo 10b - Open door view of models JC-128VEX-F



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3.0 Product Photographs

Photo 10c - Cooling Air Circulation Fan Assembly of models JC-*VEL-F , JC-*VEX-F (*=48, 70, 75, 90, 128)

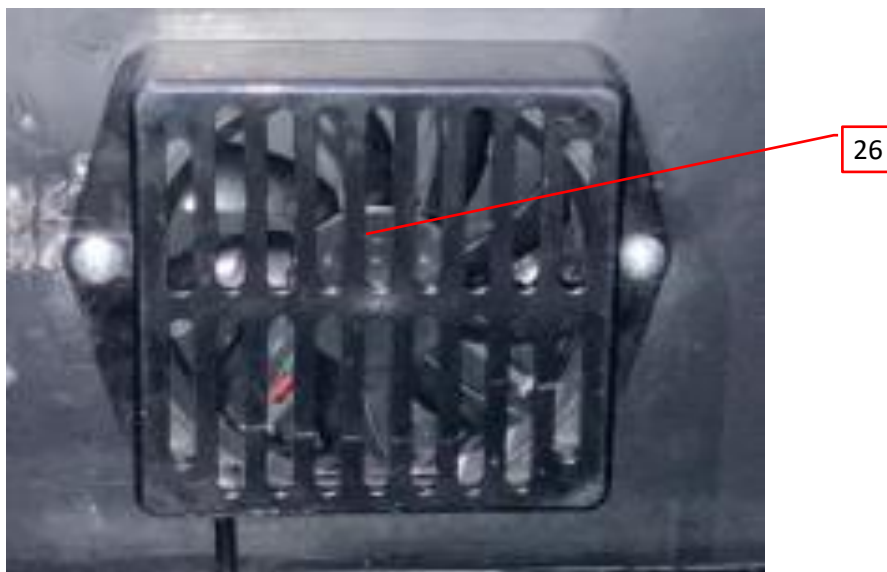


Photo 10d - Alternative Cooling Air Circulation Fan Assembly with or without low voltage LED lamp of models JC-*VEL-F, *VEX-F(*=48, 70, 75, 90, 128)



3.0 Product Photographs

Photo 10e - Alternative steel wire shelves for models JC-128ULK-F, JC-128UEX-F, JC-128VEX-F, JC-128VEL-F



Photo 11 - External view of model JC-128ULK-F (Front side)



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3.0 Product Photographs

Photo 12 - Open door view of model JC-128ULK-F



Photo 12a - Open door view of model JC-128ULK-F with alternative electric box



3.0 Product Photographs

Photo 13 - External view of model JC-90V-F



Photo 13a - External view of model JC-90VEL-F



3.0 Product Photographs

Photo 13b - External view of model JC-90VEX-F



Photo 13c - External view of model JC-90UEL-F



3.0 Product Photographs

Photo 14 - Open door view of model JC-90V-F



Photo 14a - Open door view of model JC-90V-F with alternative electric box



3.0 Product Photographs

Photo 14b - Open door view of model JC-90VEL-F



Photo 14c - Alternative Open door view of model JC-90V-F



3.0 Product Photographs

Photo 14d - Alternative Open door view of model JC-90VEL-F



Photo 14e - Open door view of model JC-90UEL-F



3.0 Product Photographs

Photo 15 - External view of model PC-50E-F



Photo 15a - External view of model PC-30E-F and PC-50AE-F
Model PC-50AE-F is similar with PC-30E-F except unit height



3.0 Product Photographs

Photo 15b - External view of model PC-30-F and PC-50A-F
Model PC-50A-F is similar with PC-30-F except unit height



Photo 15c - External view of model PC-75E-F



3.0 Product Photographs

Photo 15d - Top and bottom view of model PC-75E-F



Photo 16 - Internal view of model PC-50E-F (Upside)



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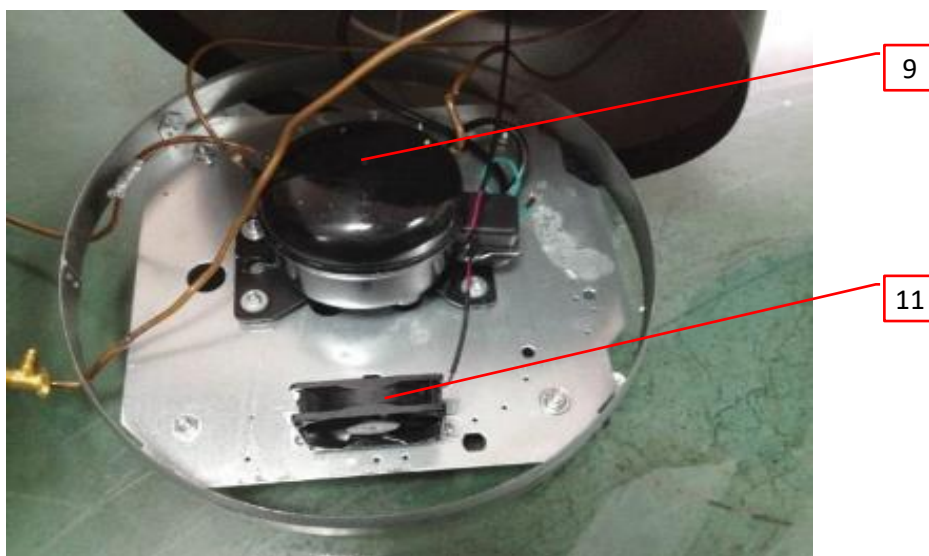
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3.0 Product Photographs

Photo 16a - Internal view of models PC-50AE-F, PC-50A-F, PC-30E-F, PC-30-F (Upside)



Photo 17 - Internal view of model PC-50E-F (Downside)

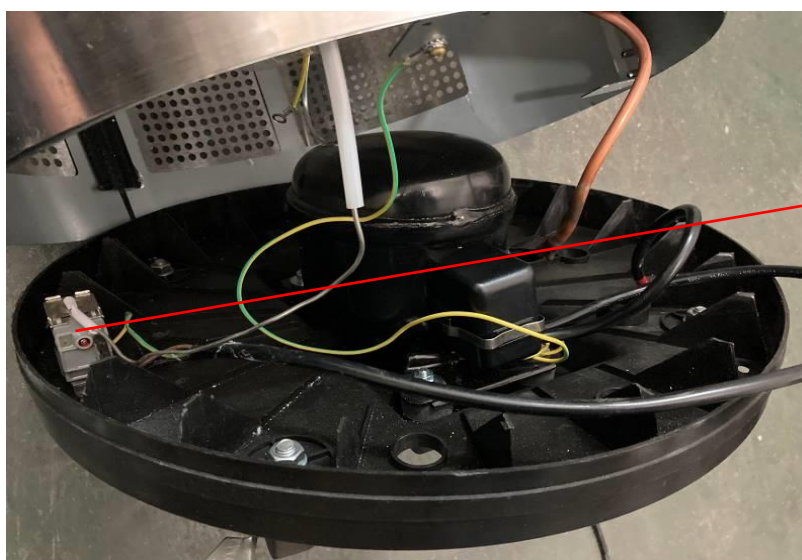


3.0 Product Photographs

Photo 17a - Internal view of models PC-50AE-F, PC-30E-F (Downside)



Photo 17b - Internal view of models PC-50A-F, PC-30-F (Downside)



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3.0 Product Photographs

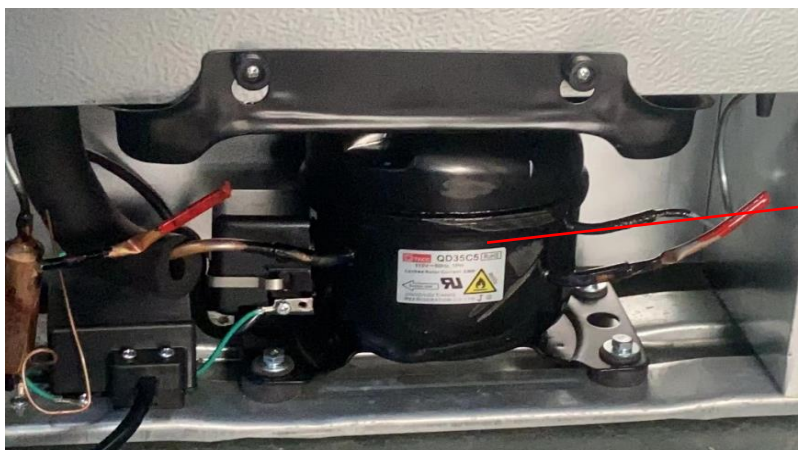
Photo 18 - General view of alternative compressor QD35Y11G (assembled in models JC-36-F, JC-36UEL-F, JC-36UEX-F, JC-46-F, JC-46UEL-F, JC-46UEX-F, JC-48-F, JC-48UEL-F, JC-48UEX-F, JC-48VEL-F, JC-48VEX-F, JC-70UEL-F, JC-70VEL-F, JC-70UEX-F, JC-70VEX-F, JC-75UEX-F, JC-75UEL-F, JC-75ULK-F, JC-75VEX-F, JC-75VEL-F, JC-90UEL-F, JC-90UEX-F, JC-90ULK-F) as a representative



Photo 18a - General view of compressor of models JC-36-F, JC-36UEL-F, JC-36UEX-F, JC-46-F, JC-46UEL-F, JC-46UEX-F, JC-48-F, JC-48UEL-F, JC-48UEX-F, JC-48VEL-F, JC-48VEX-F, JC-70UEL-F, JC-70VEL-F, JC-70UEX-F, JC-70VEX-F, JC-75UEX-F, JC-75UEL-F, JC-75ULK-F, JC-75VEX-F, JC-75VEL-F, JC-90UEL-F, JC-90UEX-F, JC-90ULK-F



Photo 18b - General view of compressor of models JC-36-F, JC-36UEL-F, JC-36UEX-F, JC-46-F, JC-46UEL-F, JC-46UEX-F, JC-48-F, JC-48UEL-F, JC-48UEX-F, JC-48VEL-F, JC-48VEX-F, JC-70UEL-F, JC-70VEL-F, JC-70UEX-F, JC-70VEX-F, JC-75UEX-F, JC-75UEL-F, JC-75ULK-F, JC-75VEX-F, JC-75VEL-F, JC-90UEL-F, JC-90UEX-F, JC-90ULK-F



3.0 Product Photographs

Photo 18c- General view of compressor of models JC-36-F, JC-36UEL-F, JC-36UEX-F



Photo 18d- General view of compressor of models JC-36-F, JC-36UEL-F, JC-36UEX-F, JC-46-F, JC-46UEL-F, JC-46UEX-F, JC-48-F, JC-48UEL-F, JC-48UEX-F, JC-48VEL-F, JC-48VEX-F, JC-70UEL-F, JC-70VEL-F, JC-70UEX-F, JC-70VEX-F, JC-75UEX-F, JC-75UEL-F, JC-75ULK-F, JC-75VEX-F, JC-75VEL-F, JC-90UEL-F, JC-90UEX-F, JC-90ULK-F



3.0 Product Photographs

Photo 19 - General view of compressor L48C5BL (assembled in models JC-128UEX-F, JC-128UEL-F JC-128ULK-F, JC-128VEX-F, JC-128VEL-F, JC-90V-F, JC-90VEX-F, JC-90VEL-F) as a representative



Photo 19a - General view of alternative compressor QD43Y11G (assembled in models JC-90V-F, JC-90VEL-F, JC-90VEX-F)



3.0 Product Photographs

Photo 19b - General view of compressor TK48C5 (assembled in models JC-128UEX-F, JC-128UEL-F, JC-128ULK-F, JC-128VEX-F, JC-128VEL-F) as a representative



Photo 19c - General view of alternative compressor UKN43YA (assembled in models JC-90V-F, JC-90VEL-F, JC-90VEX-F)



3.0 Product Photographs

Photo 20 - Protective earth symbol, earthing terminal and anchorage of supply cord

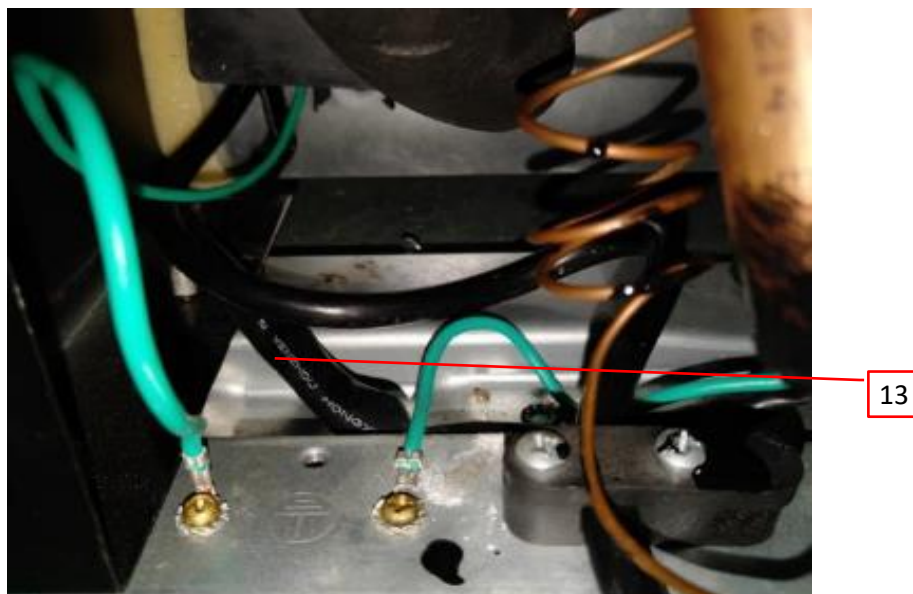


Photo 21 - Storage compartment view of models JC-75UEX-F, JC-75UEL-F, JC-75ULK-F, JC-75VEX-F, JC-75VEL-F

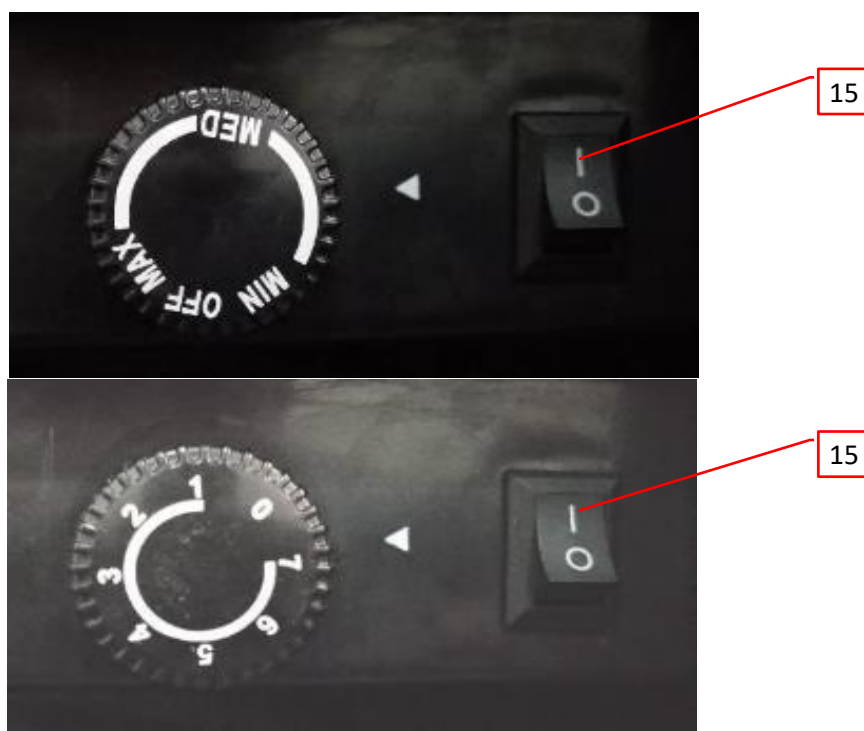


3.0 Product Photographs

Photo 22 - Electrical box pattern of models JC-36-F, JC-46-F, JC-48-F, JC-75ULK-F, JC-90-ULK-F, JC-128ULK-F and JC-90V-F without LED lamp and ON-OFF switch



Photo 23 - Various patterns of electrical box of models JC-36-F, JC-46-F, JC-48-F, JC-75ULK-F, JC-90-ULK-F, JC-128ULK-F and JC-90V-F with LED lamp & ON-OFF switch

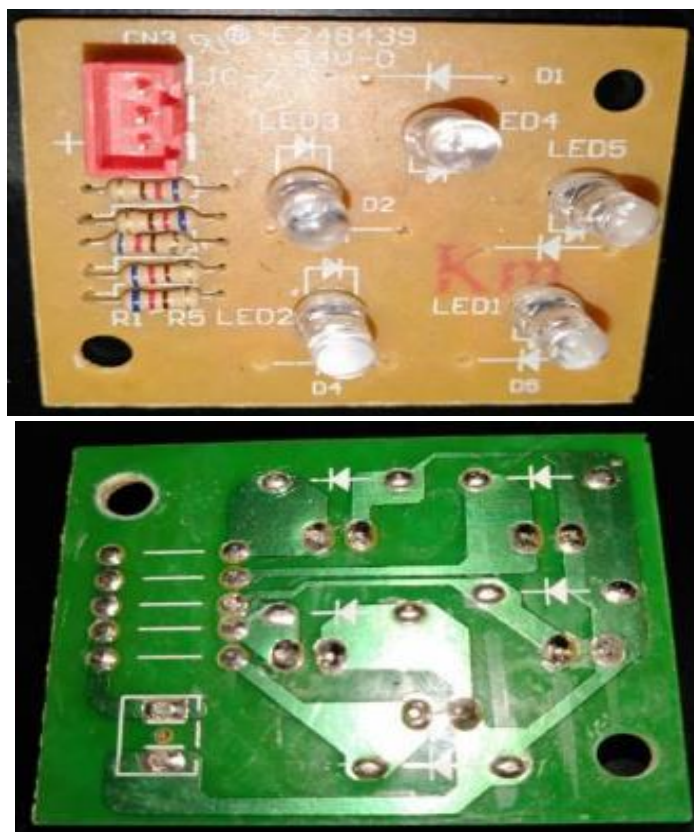


3.0 Product Photographs

Photo 24 - LED lamp with cover



Photo 25 - Alternative PWB for LED lamp



3.0 Product Photographs

Photo 26 - Interior view of electrical box (Including PWB for LED lamp) of models JC-36-F, JC-46-F, JC-48-F, JC-75ULK-F, JC-90-ULK-F, JC-128ULK-F and JC-90V-F

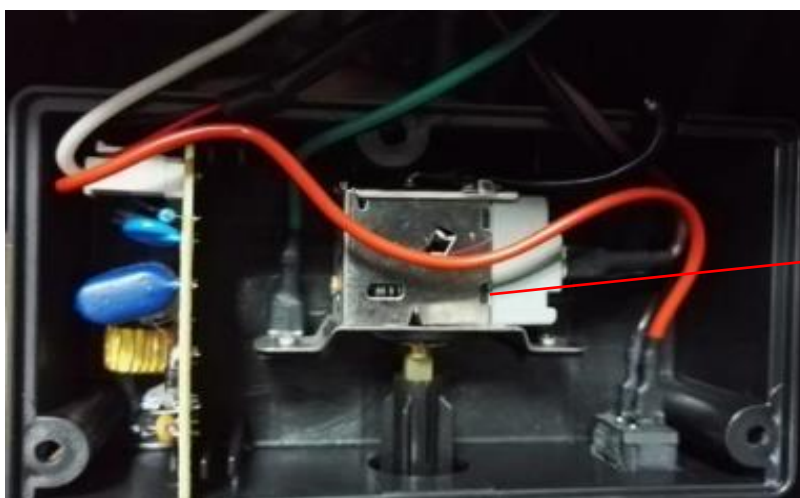
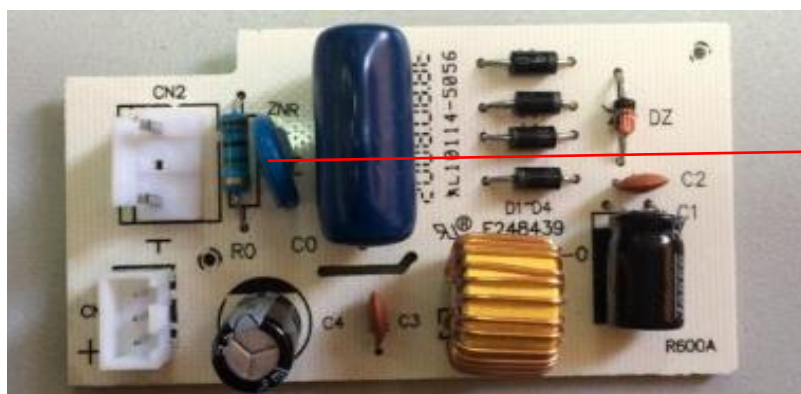


Photo 27 - PWB for LED lamp of models JC-36-F, JC-46-F, JC-48-F, JC-75ULK-F, JC-90-ULK-F, JC-128ULK-F and JC-90V-F

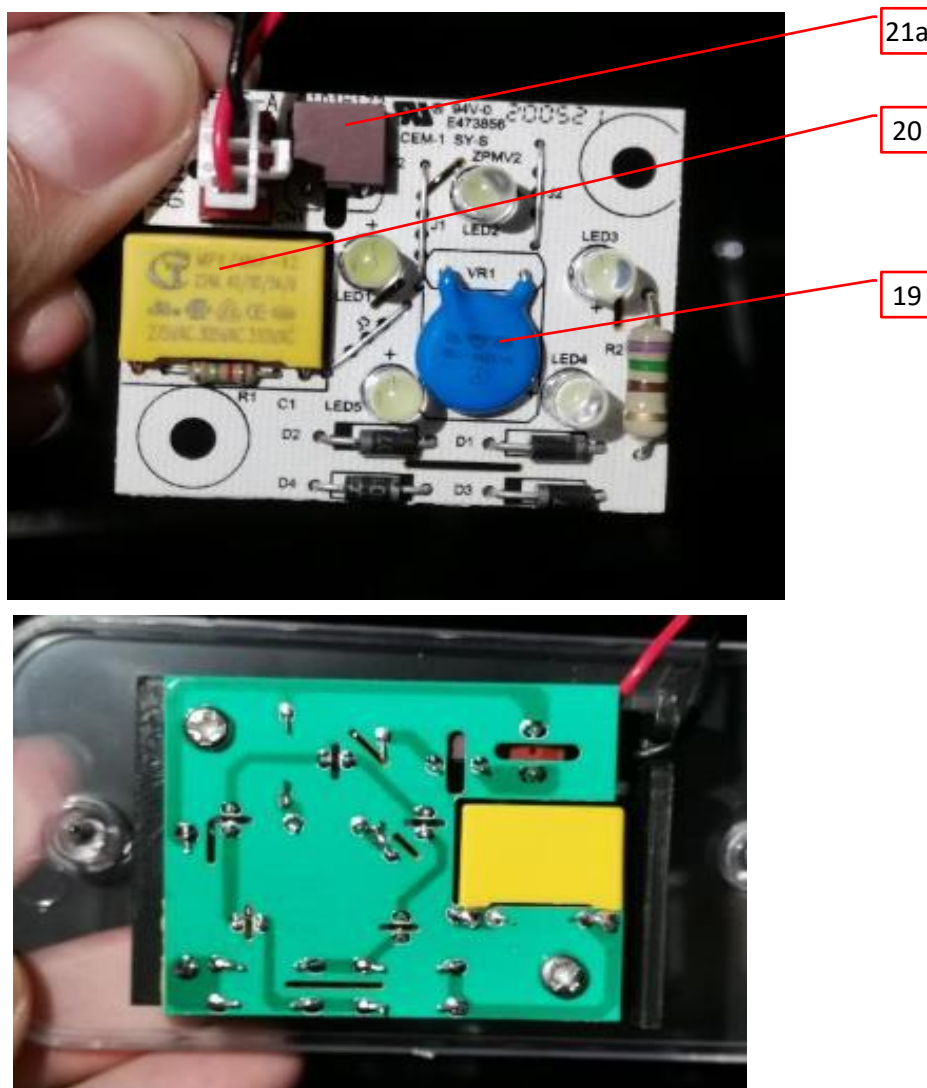


3.0 Product Photographs

Photo 27a - Alternative LED lamp with cover



Photo 27b - Alternative PWB for LED lamp

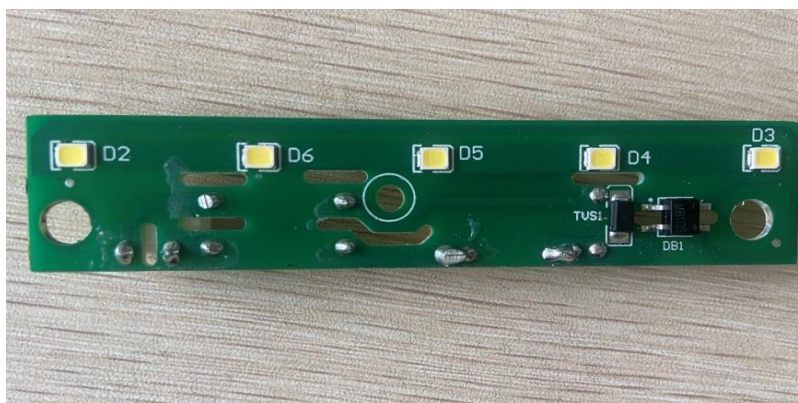


3.0 Product Photographs

Photo 27c - Alternative LED lamp with cover



Photo 27d - Alternative PWB for LED lamp



3.0 Product Photographs

Photo 27e - Interior view of alternative electrical box (without PWB for LED lamp) for models Photo 27 - PWB for LED lamp of models JC-36-F, JC-46-F, JC-48-F, JC-75ULK-F, JC-90-ULK-F, JC-128ULK-F and JC-90V-F, JC-128ULK-F and JC-90V-F

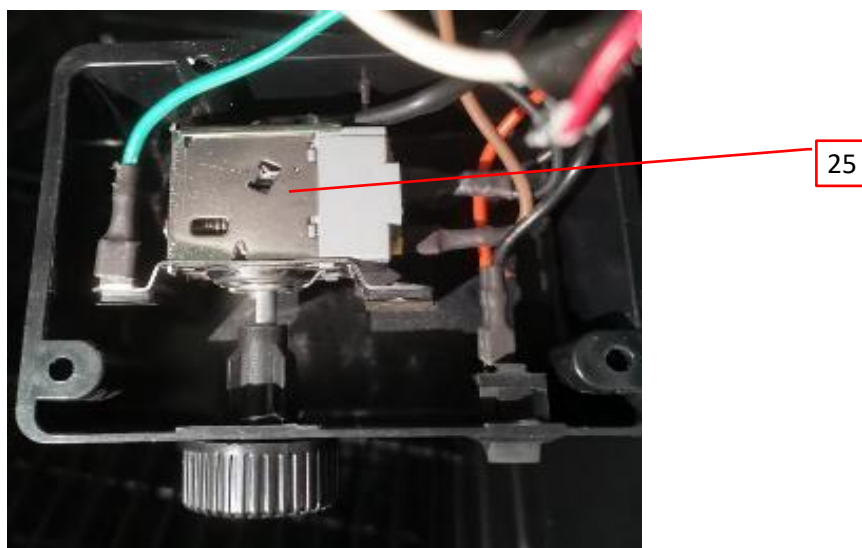
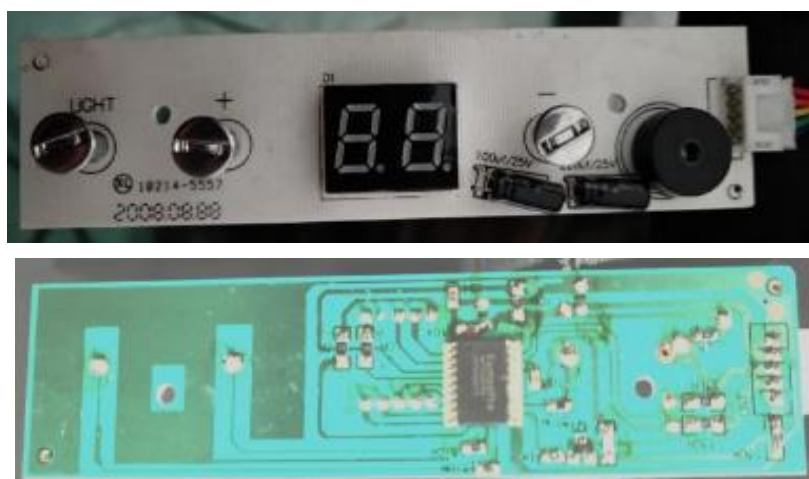


Photo 28 - Control & display panel view of models containing characters UEX, UEL, VEX, VEL



Photo 29 - PWB for control & display panel



3.0 Product Photographs

Photo 30 - Interior view of electrical box of models JC-75UEX-F, JC-75UEL-F, JC-75VEX-F and JC-75VEL-F

Note: The below photo only shows the representative mounting method of electrical box, the PWB may be different as described in section 5.0



Photo 31 - Main PWB with SMPS view of models JC-75UEX-F and JC-75UEL-F (Front side)

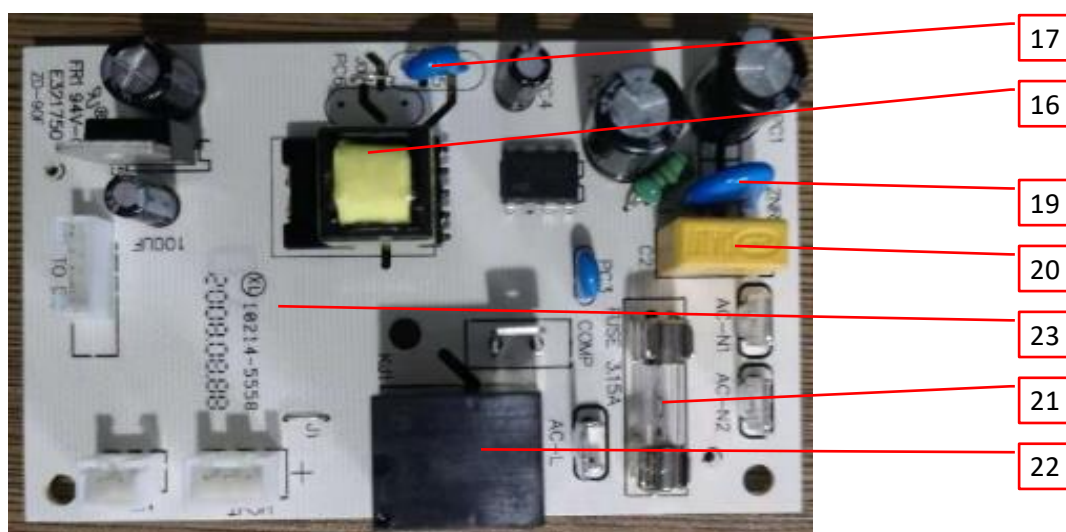
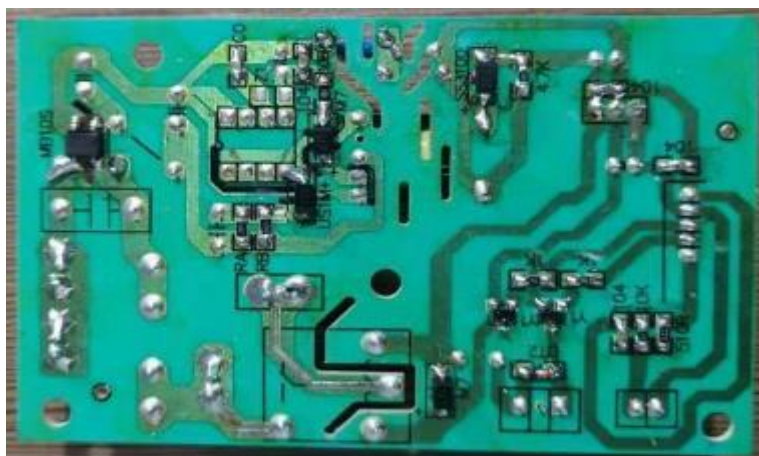


Photo 32 - Main PWB view of models JC-75UEX-F and JC-75UEL-F (Rear side)



3.0 Product Photographs

Photo 33 - Main PWB with SMPS view of models JC-128UEX-F, JC-128UEL-F and PC-50E-F (Front side)

(Remark: Same principle, while different layout with the former)

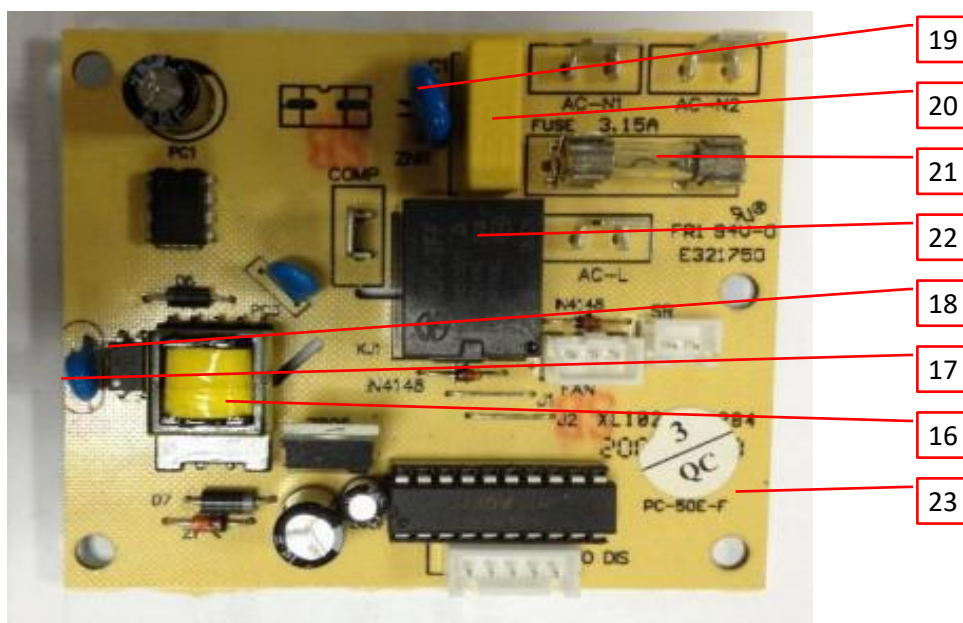


Photo 34 - Main PWB view of models JC-128UEX-F, JC-128UEL-F and PC-50E-F (Rear side)



3.0 Product Photographs

Photo 35 - Main PWB with SMPS view of models JC-128UEX-F and JC-128UEL-F (Front side)

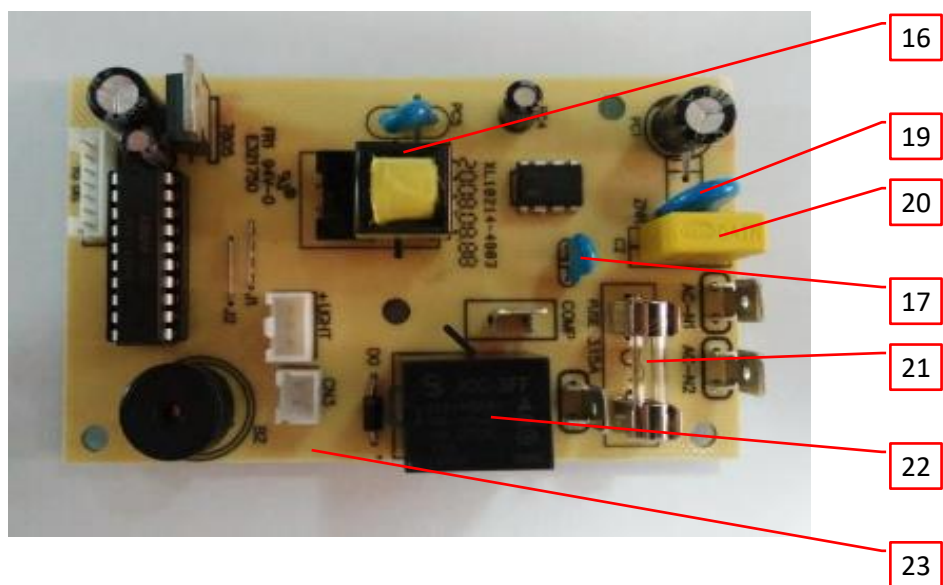
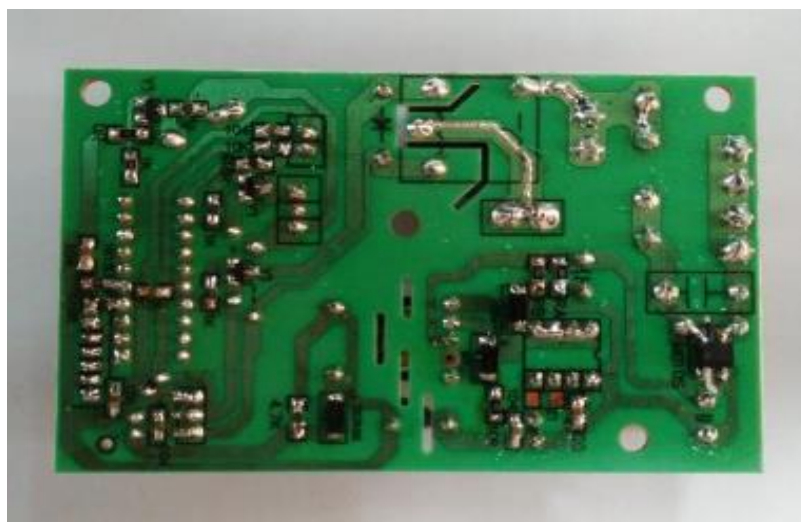


Photo 36 - Main PWB view of models JC-128UEX-F and JC-128UEL-F (Rear side)



3.0 Product Photographs

Photo 37 - Alternative electrical controller of models JC-128UEX-F and JC-128UEL-F (Front side)

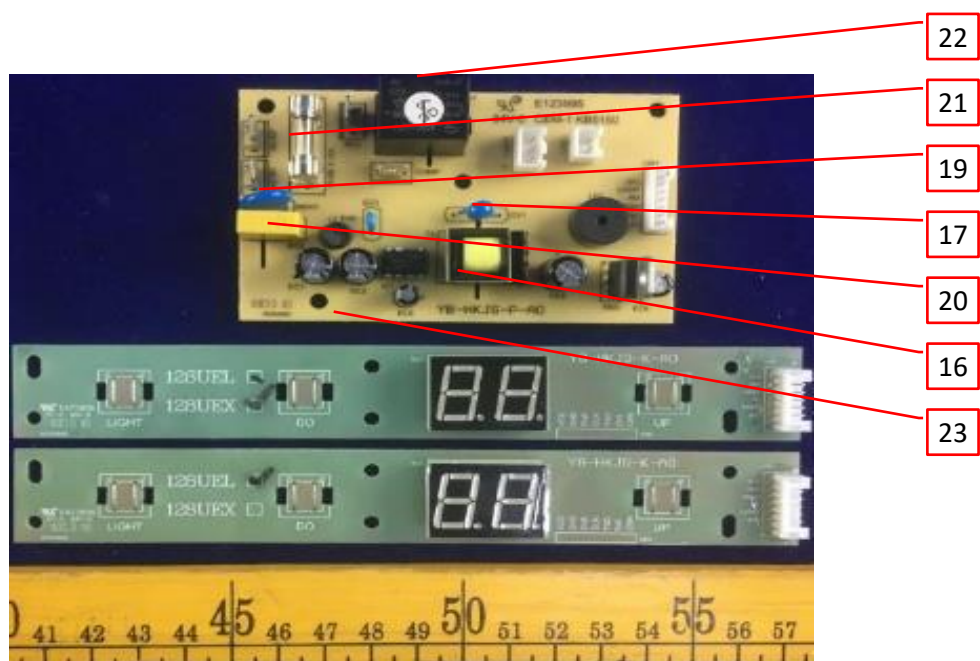
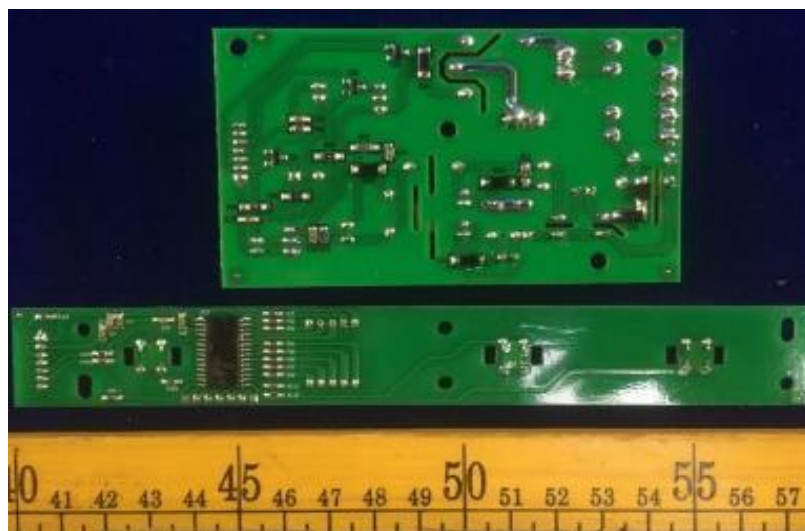


Photo 38 - Alternative electrical controller of models JC-128UEX-F and JC-128UEL-F (Rear side)

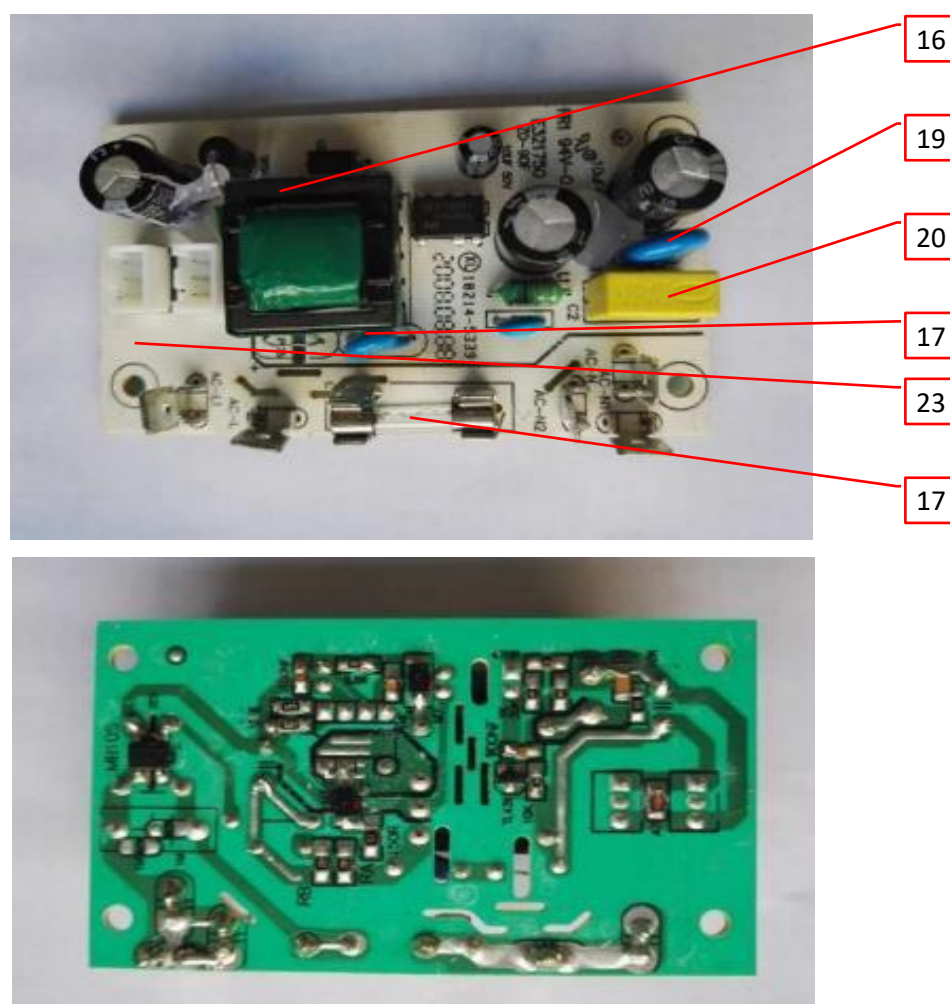


3.0 Product Photographs

Photo 39 - Interior view of electrical box placed fan motor power PWB of model JC-90V-F



Photo 40 - Fan motor power PWB of model JC-90V-F



3.0 Product Photographs

Photo 41 - Main control PWB of models JC-90VEX-F and JC-90VEL-F (Front)

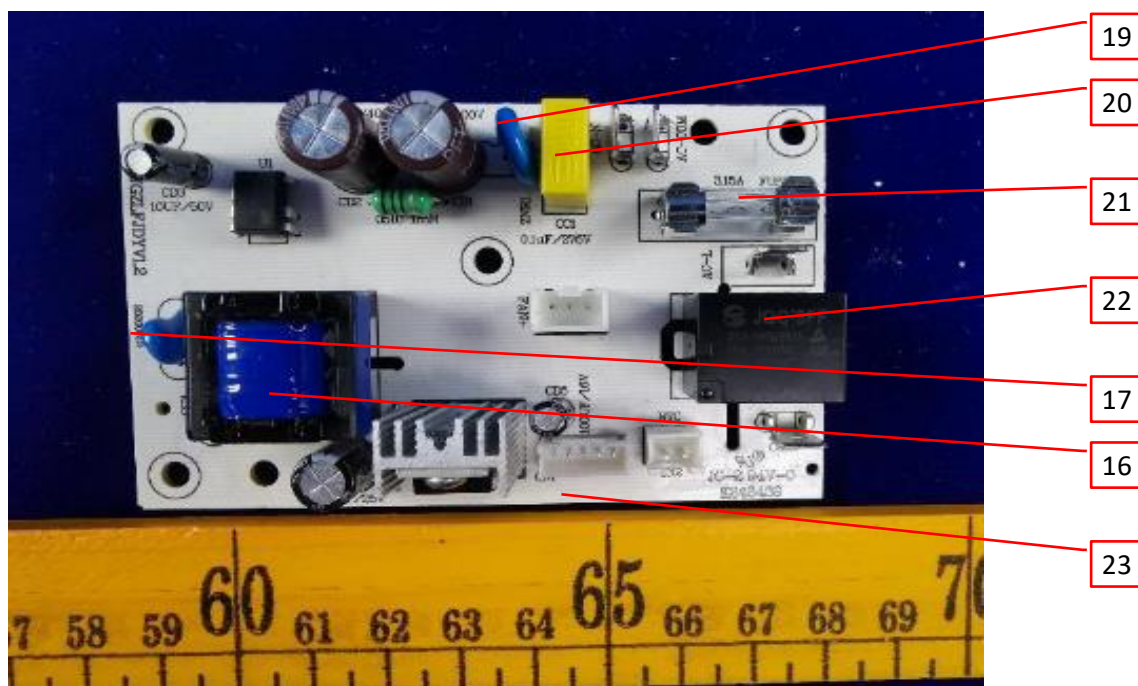
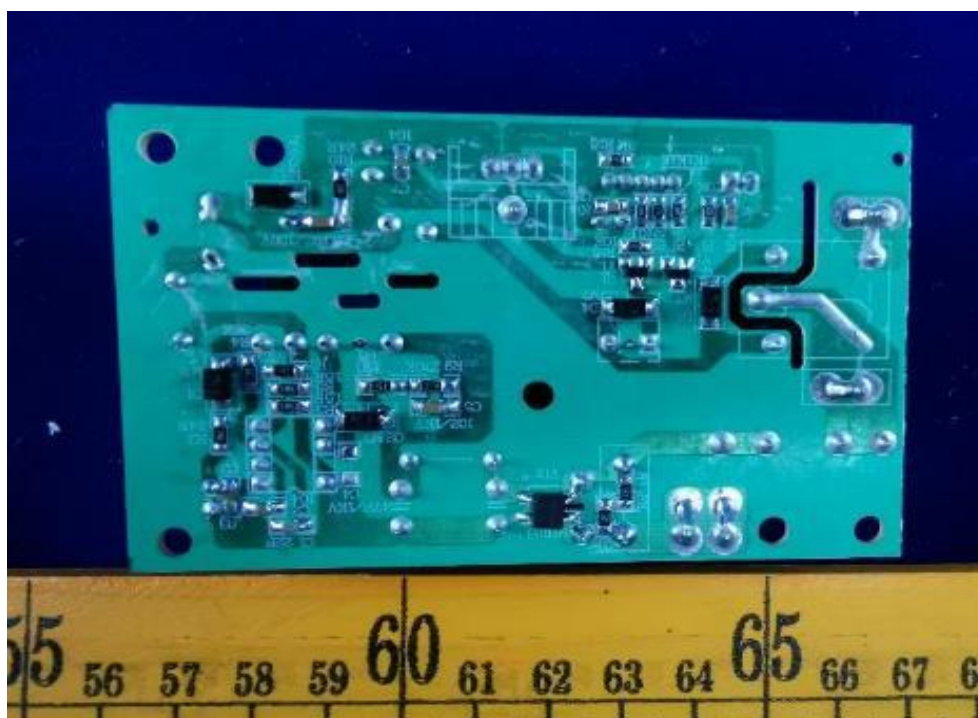


Photo 42 - Main control PWB of models JC-90VEX-F and JC-90VEL-F (Rear)



3.0 Product Photographs

Photo 43 - Electronic control panel PCB of models JC-90VEX-F, JC-90VEL-F, JC-75VEL-F (Front)

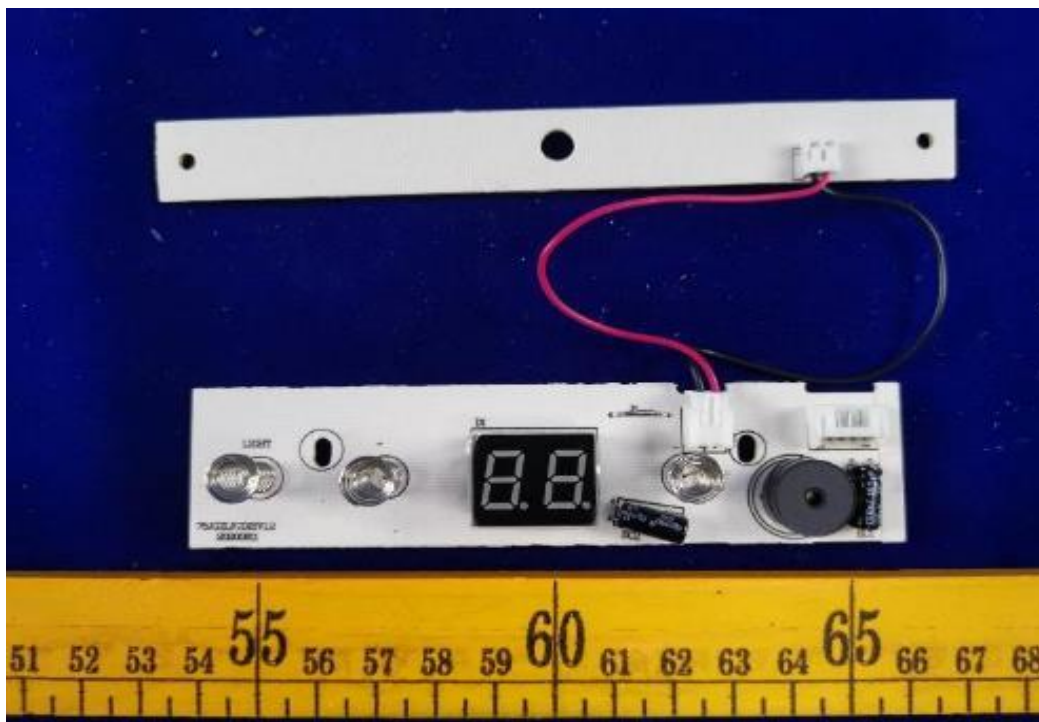
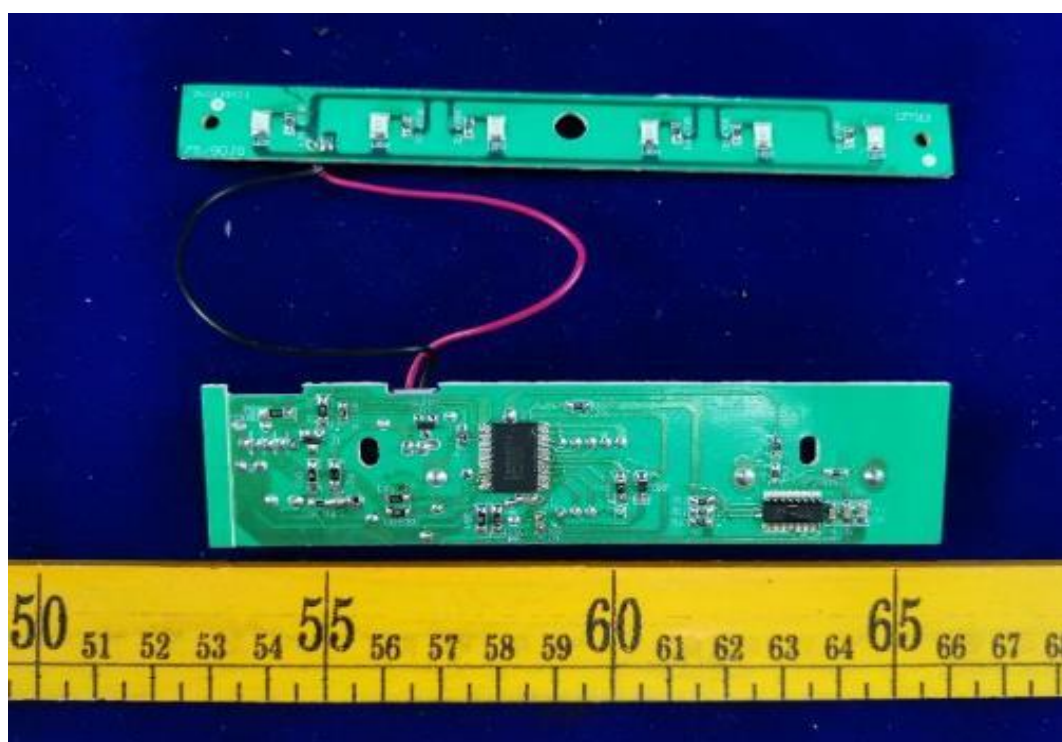


Photo 44 - Electronic control panel PCB of models JC-90VEX-F and JC-90VEL-F (Rear)



3.0 Product Photographs

Photo 45 - Main control PWB of models JC-75VEX-F, JC-75VEL-F, JC-90VEX-F, JC-90VEL-F (FRONT)

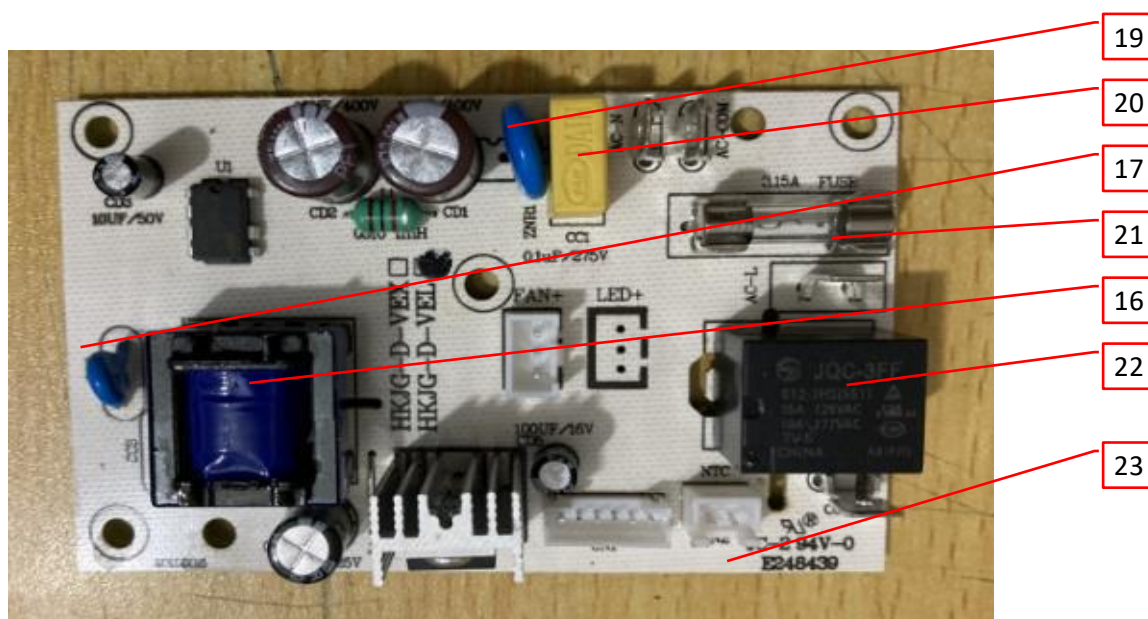
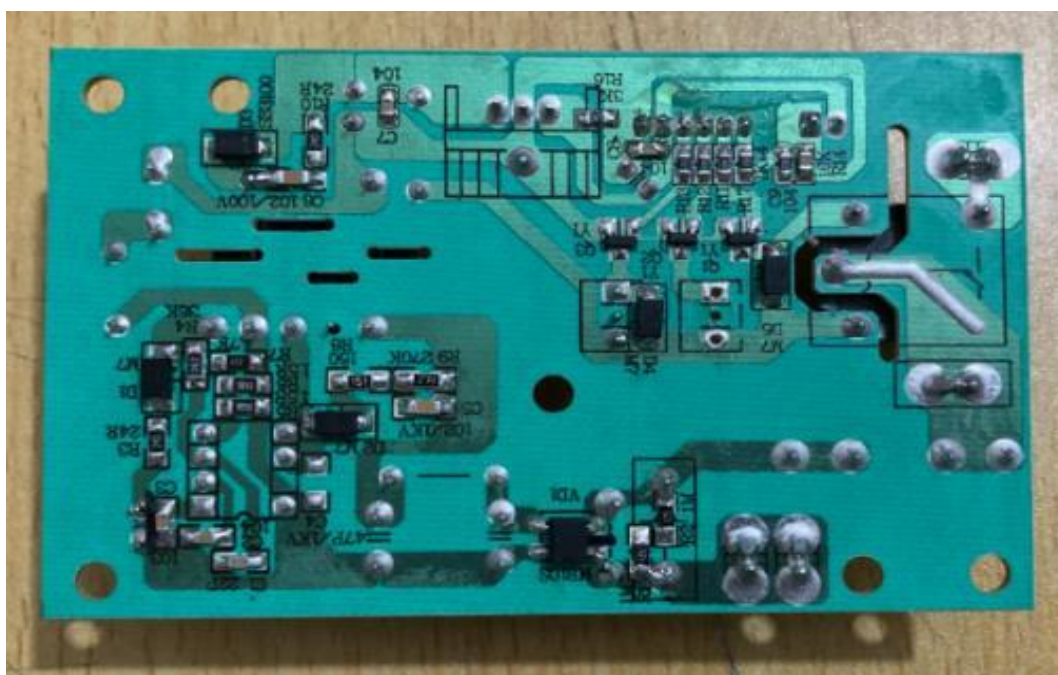


Photo 46 - Main control PWB of models JC-75VEX-F, JC-75VEL-F, JC-90VEX-F, JC-90VEL-F (REAR)

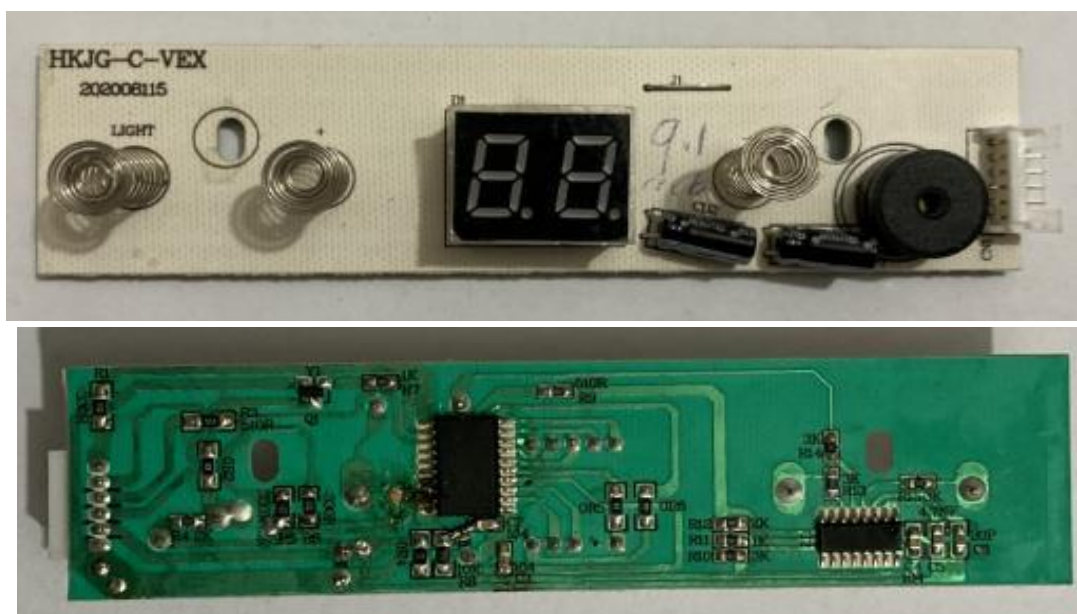


3.0 Product Photographs

Photo 47 - Electronic controller of models JC-75VEX-F



Photo 48 - Alternative electronic controller of models JC-75VEX-F



3.0 Product Photographs

Photo 49 - Electronic controller of models JC-128VEX-F, JC-128VEL-F

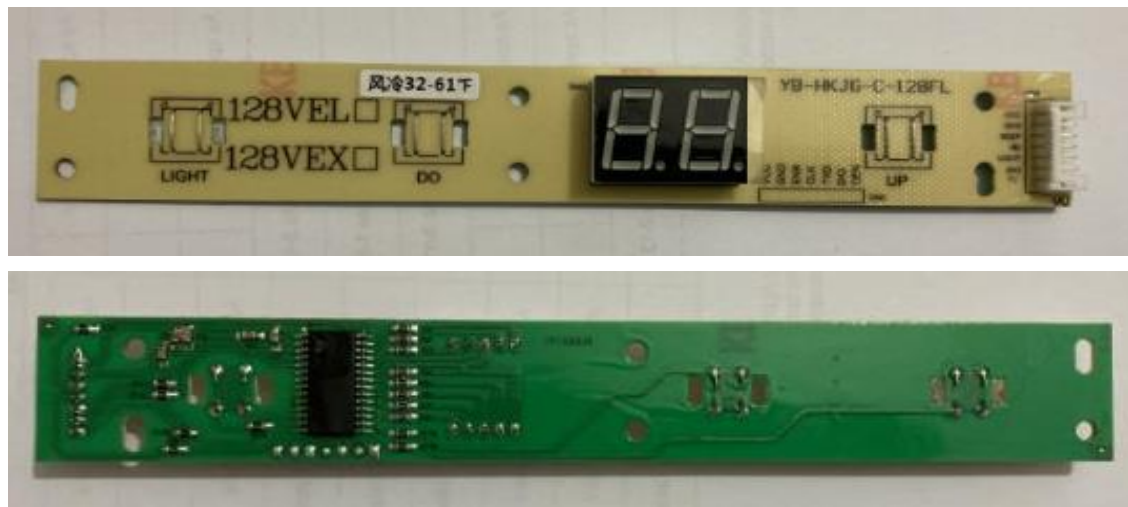
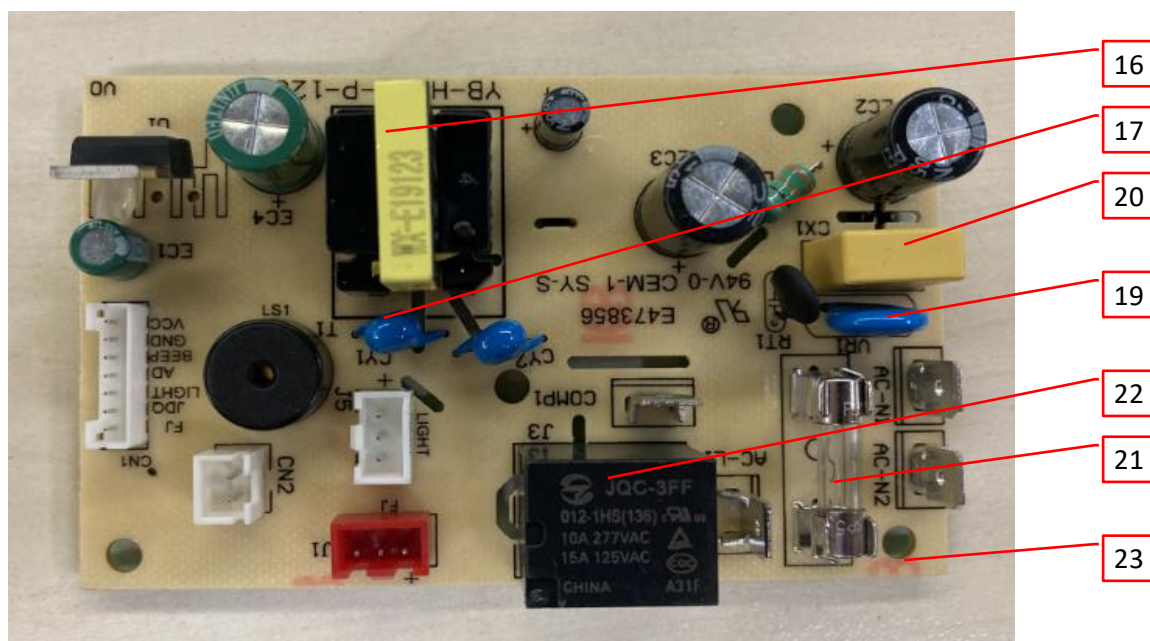


Photo 50 - Main control PWB of models JC-128VEX-F, JC-128VEL-F (FRONT)



3.0 Product Photographs

Photo 51 - Main control PWB of models JC-128VEX-F, JC-128VEL-F (REAR)

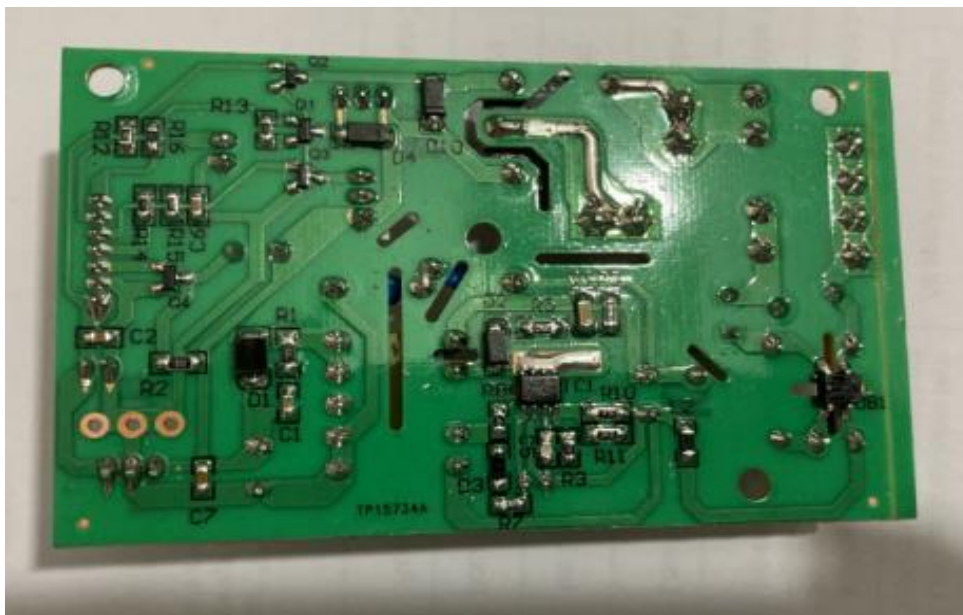
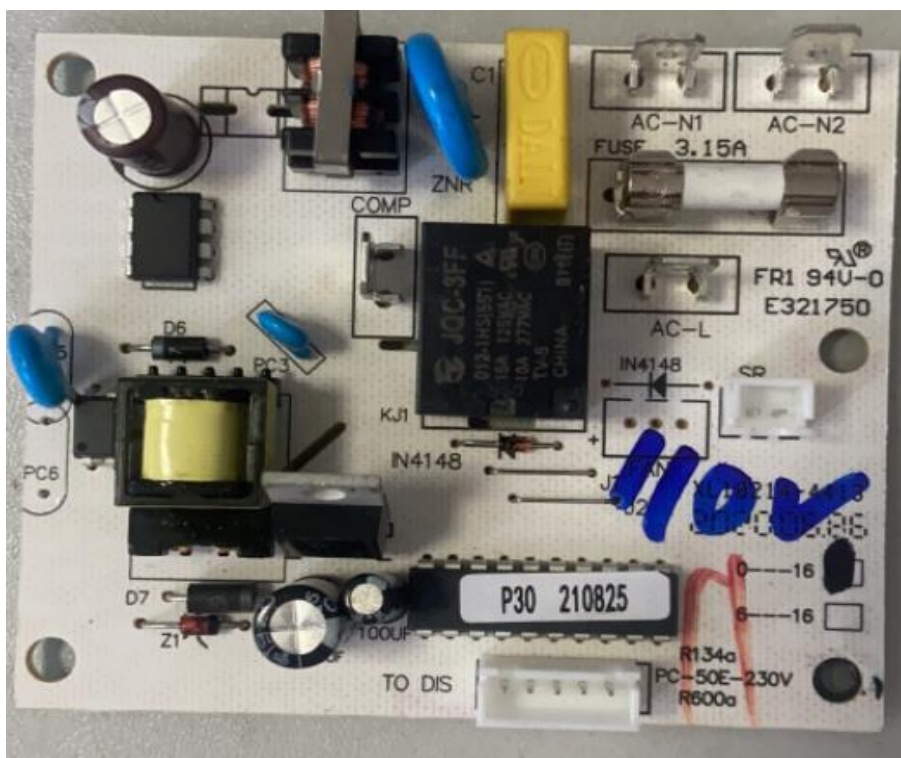


Photo 52 - Main PWB with SMPS view of models PC-50AE-F, PC-30E-F (Front side, without connector for cooling fan)



3.0 Product Photographs

Photo 53 - Main PWB with SMPS view of models PC-50AE-F, PC-30E-F (Rear side)

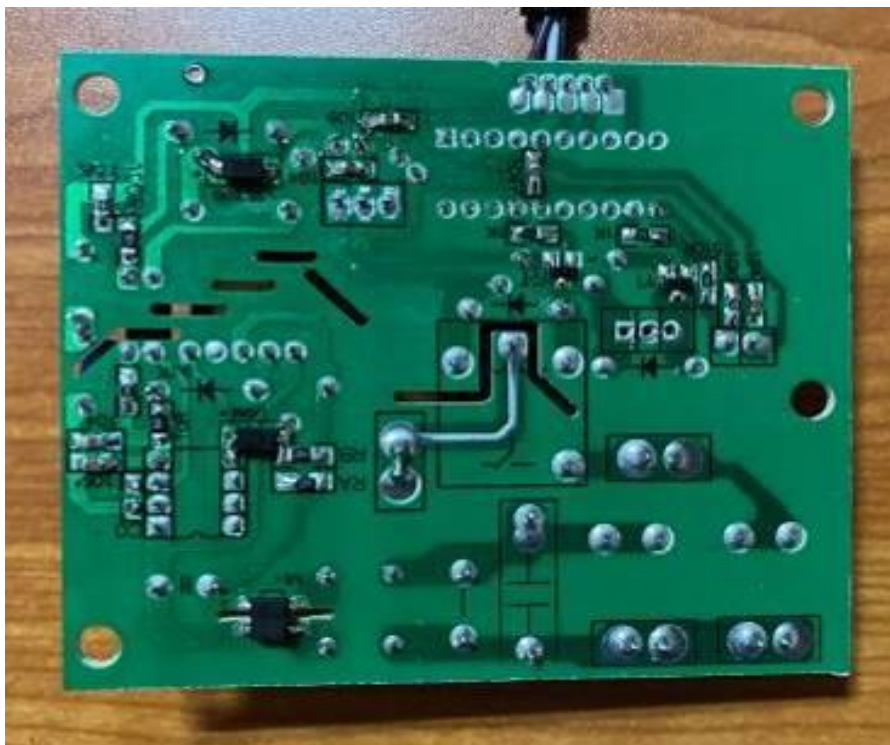
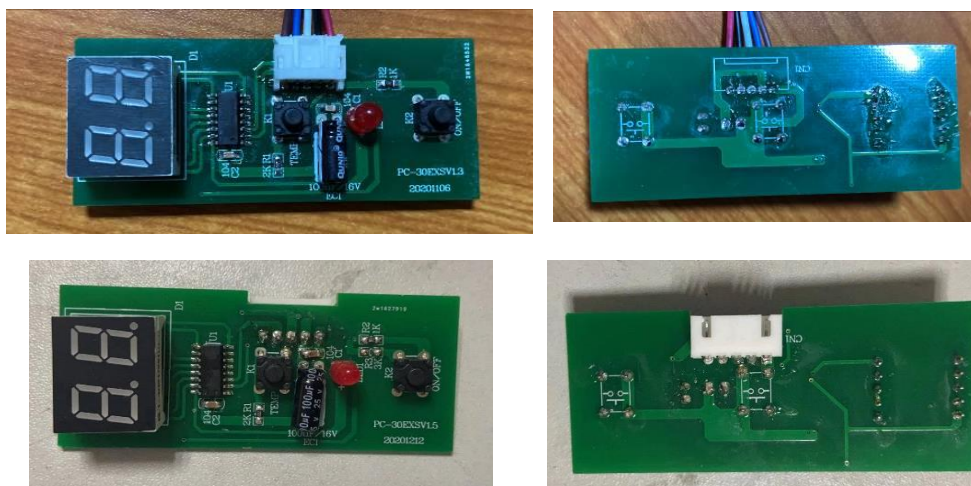


Photo 54 - Electrical controller of models PC-30E-F and PC-50AE-F (two alternative constructions)



3.0 Product Photographs

Photo 55 - General view (bottom surface) of models PC-30E-F and PC-50AE-F



Photo 56 - General view (bottom surface) of models PC-30-F and PC-50A-F



3.0 Product Photographs

Photo 57 - General view of compressor L35C5L of models PC-50E-F, PC-75E-F, PC-50A-F, PC-50AE-F, PC-30-F, PC-30E-F, JC-36-F, JC-46-F, JC-48-F, JC-*UEL-F (*=36, 46, 48, 70, 75, 90), JC-*UEX-F (*=36, 46, 48, 70, 75, 90), JC-*VEL-F (*=48, 70, 75), JC-*VEX-F (*=48, 70, 75), JC-75ULK-F, JC-90ULK-F

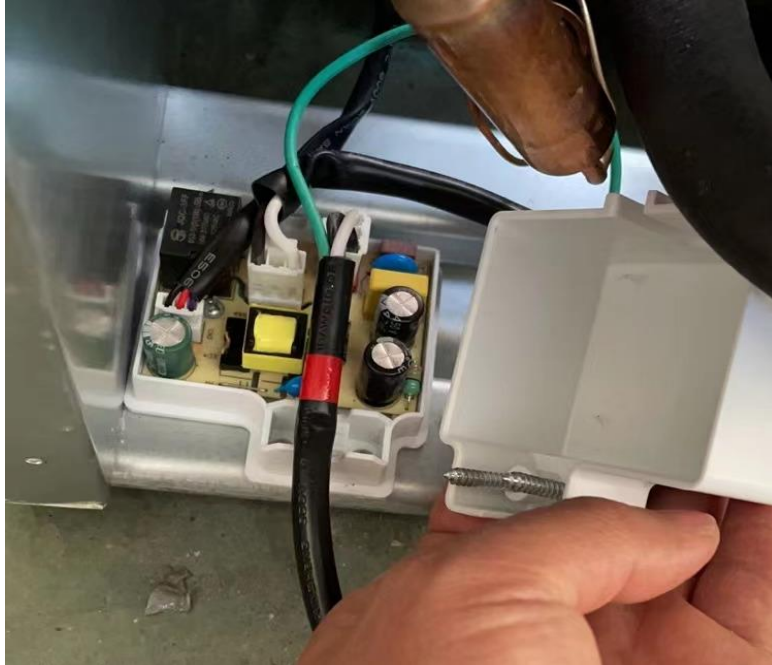


Photo 58 - Alternative main electric box and power cord strain relief means view of models JC-*UEL-F, JC-*VEL-F, JC-*UEX-F, JC-*VEX-F (*=36, 46, 48, 70, 75, 90, 128), PC-50E-F, PC-75E-F, PC-50AE-F, PC-30E-F



3.0 Product Photographs

Photo 59 - Alternative main electric box and power cord strain relief means view of models JC-*UEL-F, JC-*VEL-F, JC-*UEX-F, JC-*VEX-F (*=36, 46, 48, 70, 75, 90, 128), PC-50E-F, PC-75E-F, PC-50AE-F, PC-30E-F



3.0 Product Photographs

Photo 60 - Alternative main control PWB of models JC-*UEX-F, JC-*UEL-F (*=18, 36, 46, 48, 70, 75, 90, 128), PC-50E-F, PC-75E-F, PC-50AE-F, PC-30E-F

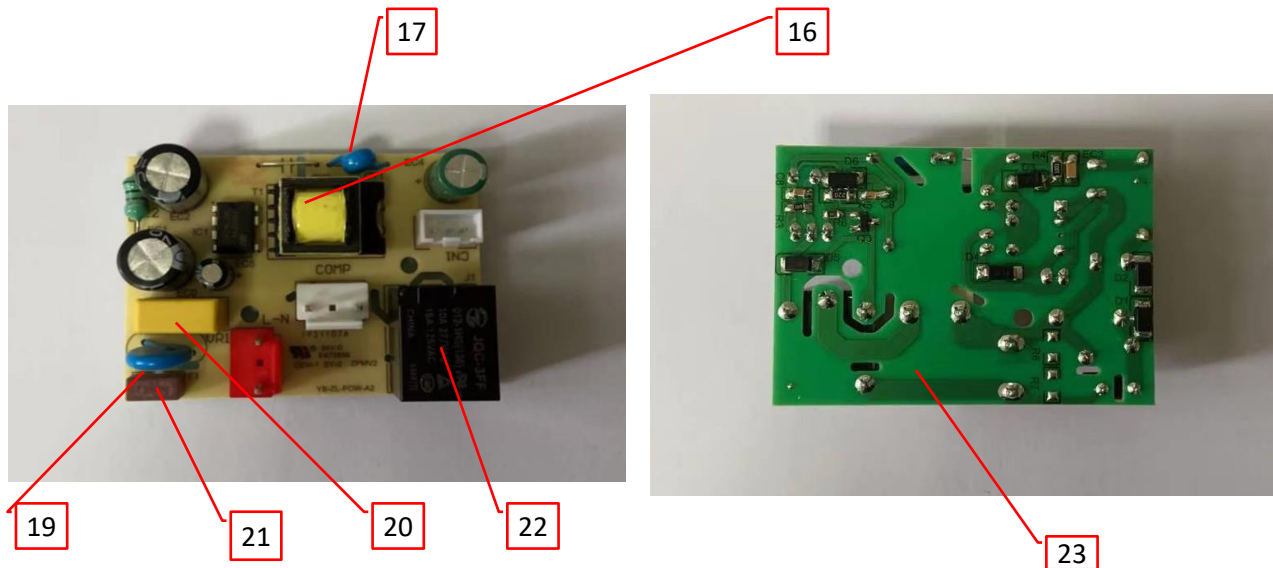


Photo 61 - Alternative main control PWB of models JC-*VEX-F, JC-*VEL-F (*=46, 48, 70, 75, 90, 128)

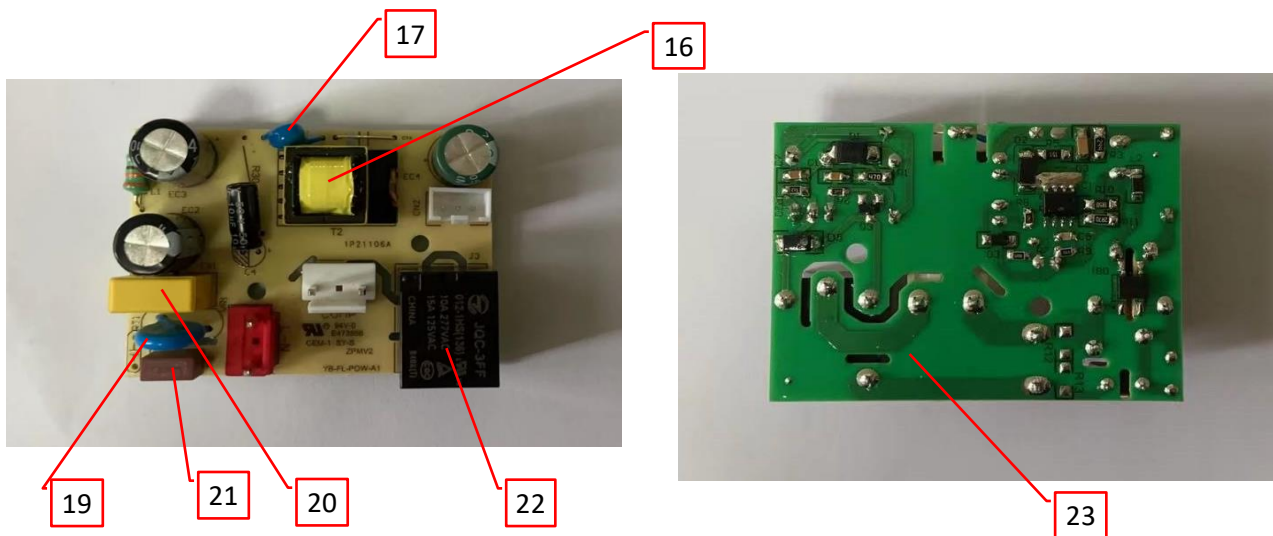
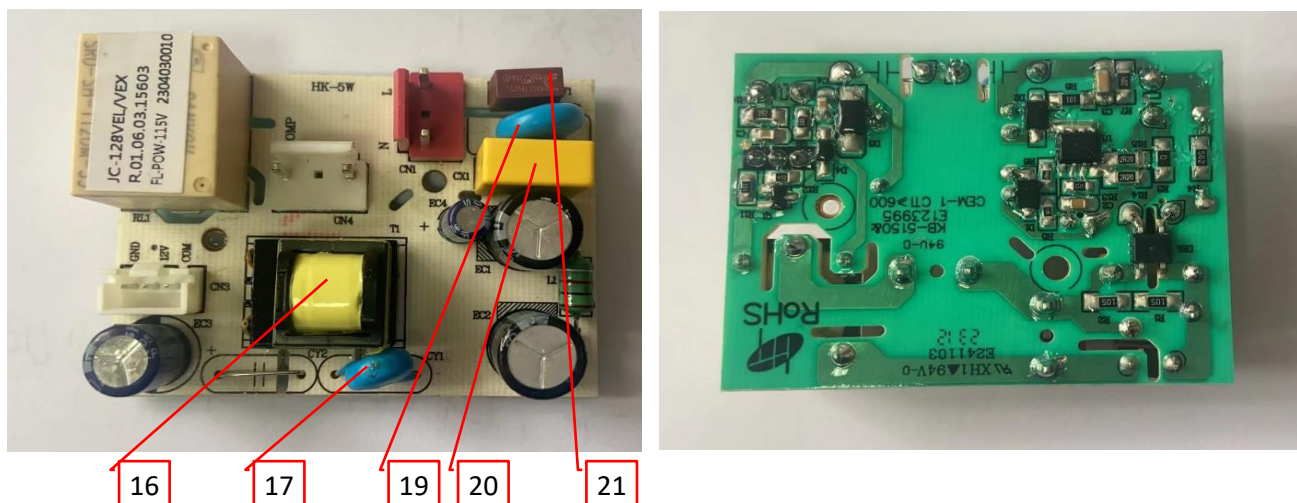


Photo 61a - Alternative main control PWB of models JC-*UEL-F, JC-*UEX-F (*=18, 36, 46, 48, 70, 75, 90, 128), PC-50E-F, PC-50AE-F, PC-30AE-F and JC-*VEL-F, JC-*VEX-F (*=46, 48, 70, 75, 90, 128)

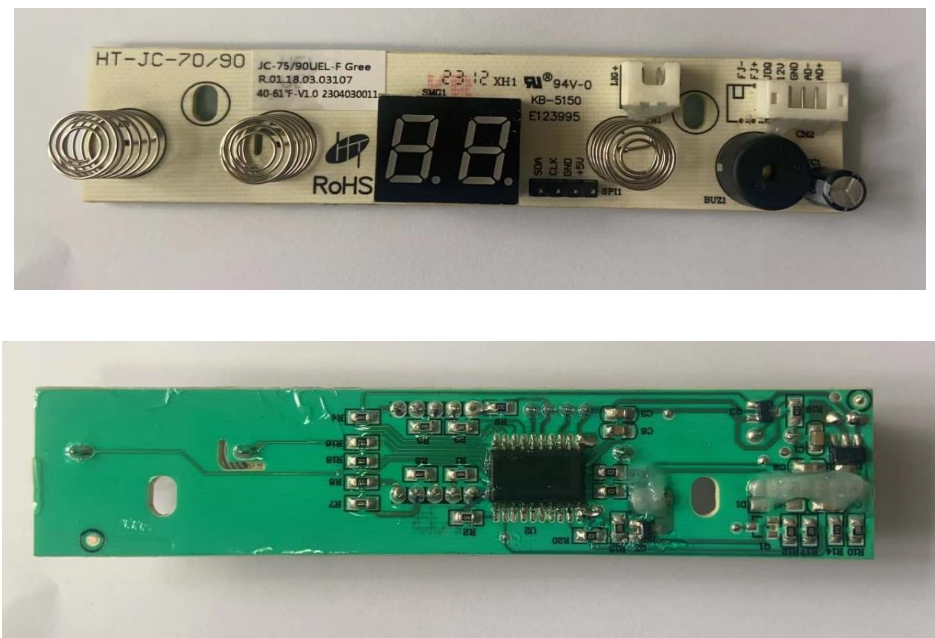


3.0 Product Photographs

Photo 62 - Alternative control panel PWB of models JC-*UEL-F, JC-*VEL-F (*=36, 46, 48, 70, 75, 90)



Photo 62a - Alternative control panel PWB of models JC-*UEL-F, JC-*VEL-F (*=36, 46, 48, 70, 75, 90)



3.0 Product Photographs

Photo 63 - Alternative control panel PWB of models JC-*UEX-F, JC-*VEX-F (*=36, 46, 48, 70, 75, 90)

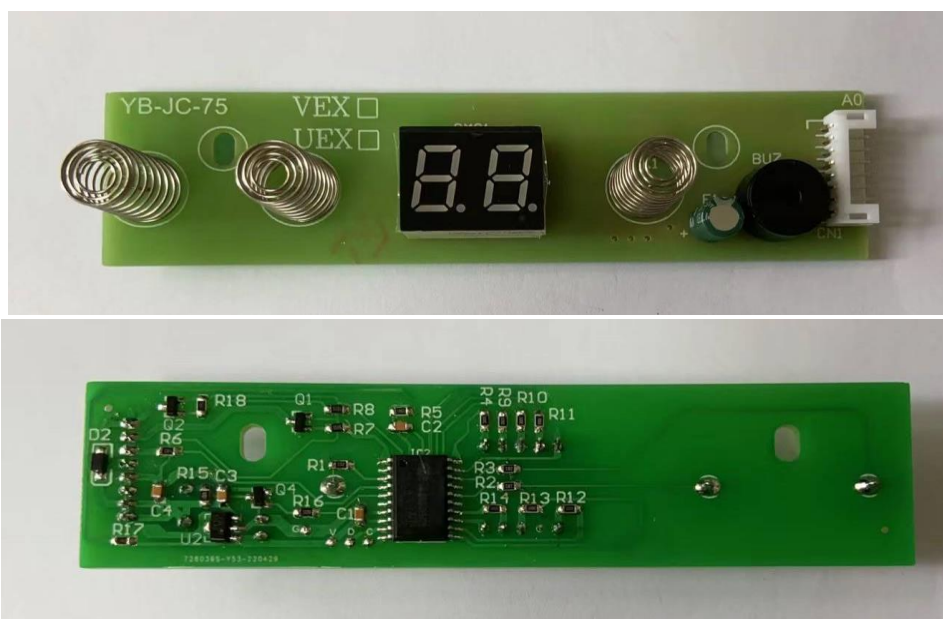
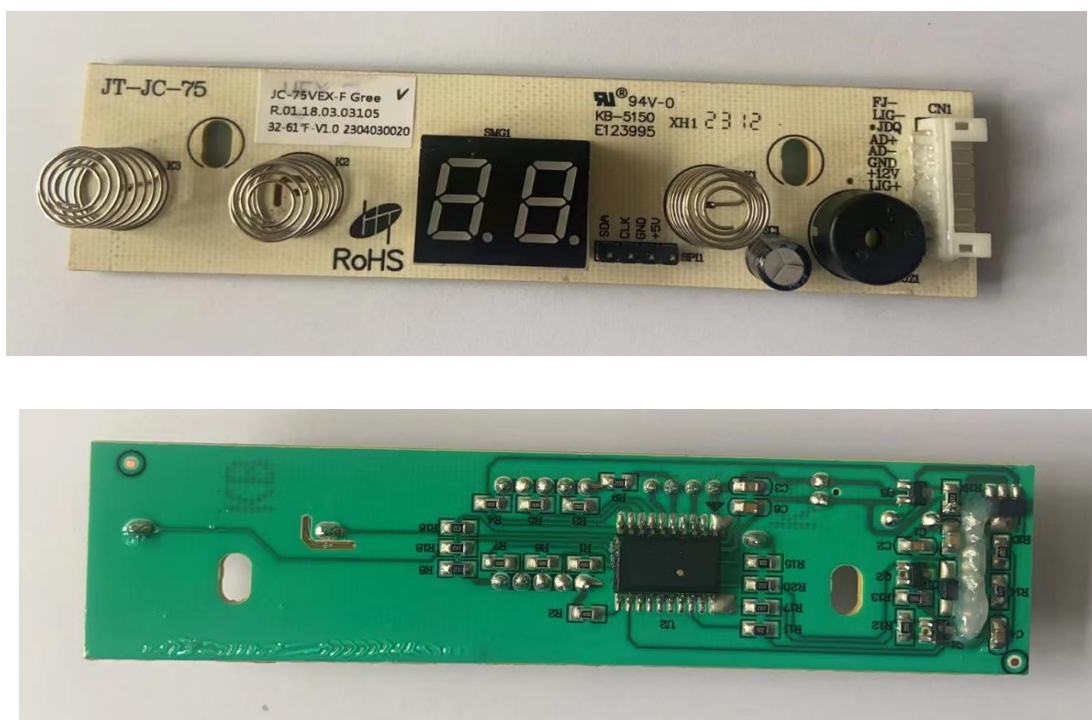


Photo 63a - Alternative control panel PWB of models JC-*UEX-F, JC-*VEX-F (*=36, 46, 48, 70, 75, 90)



3.0 Product Photographs

Photo 64 - Alternative control panel PWB of models JC-128UEX-F, JC-128VEX-F, JC-128UEL-F,JC-128VEL-F

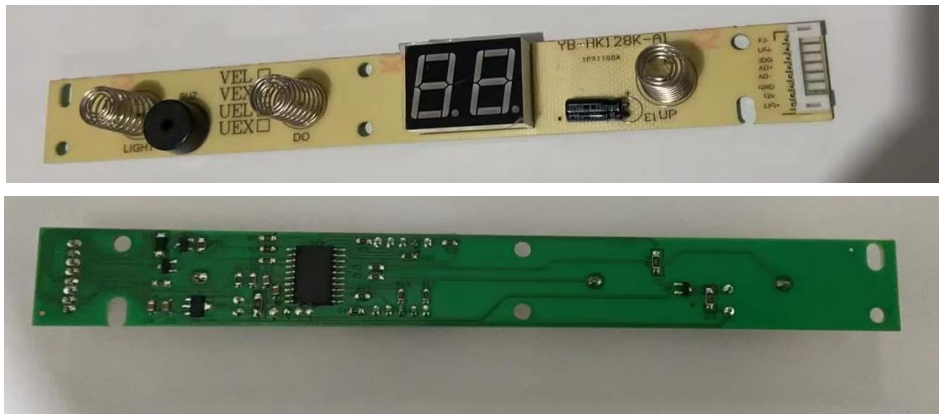
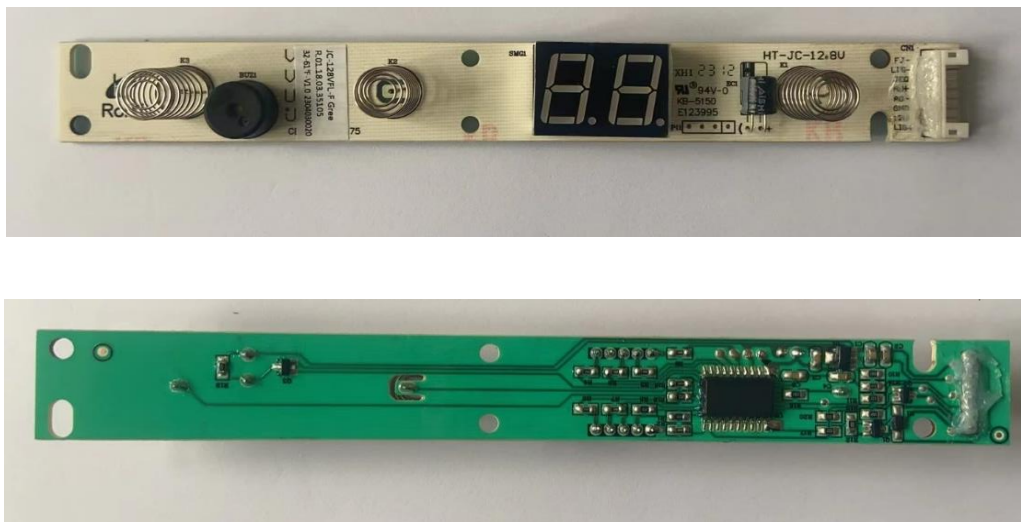
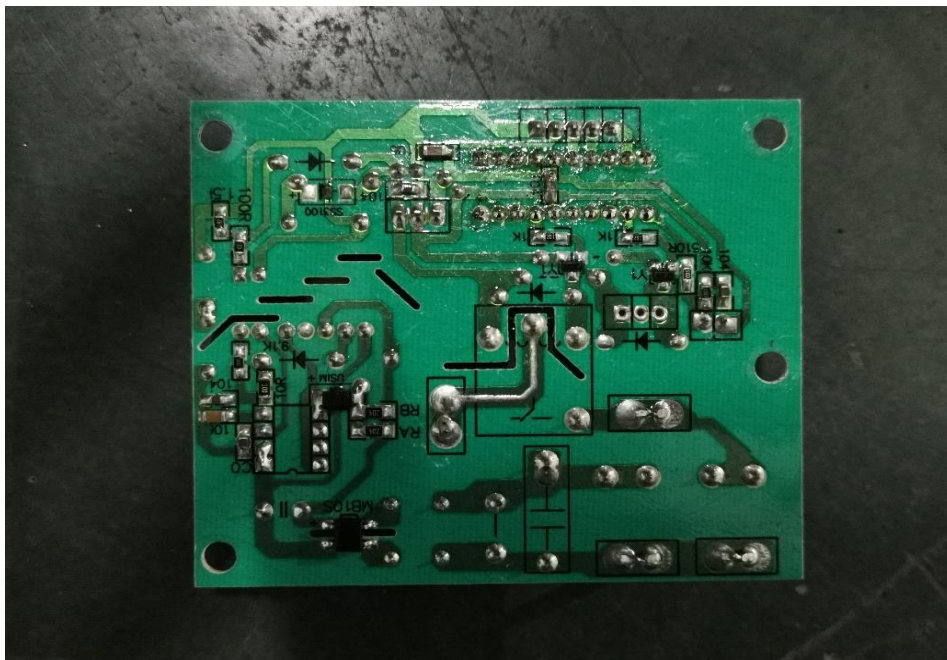
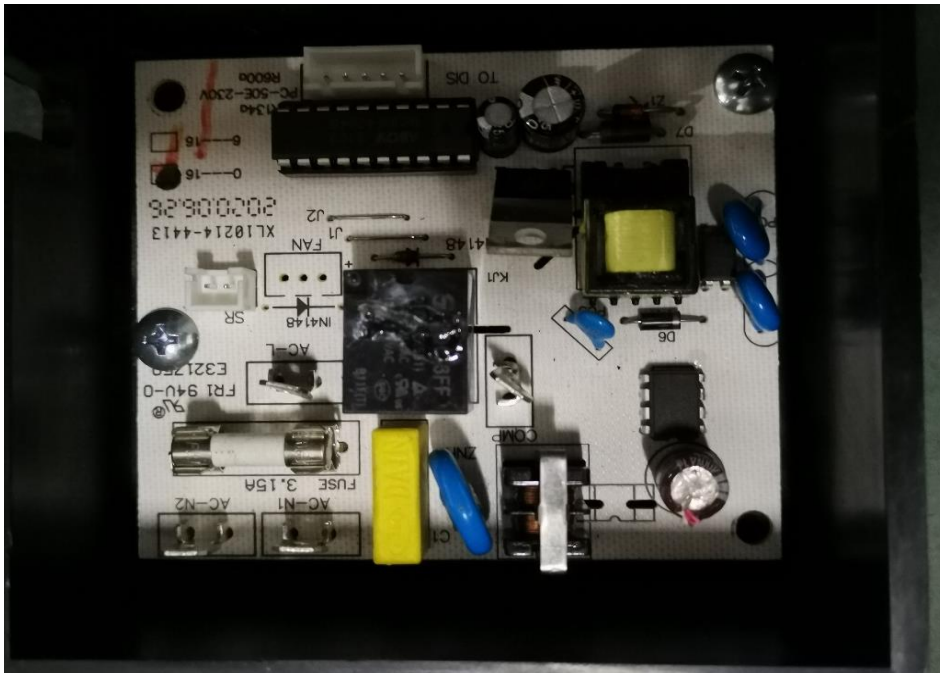


Photo 64a - Alternative control panel PWB of models JC-128UEX-F, JC-128VEX-F, JC-128UEL-F,JC-128VEL-F



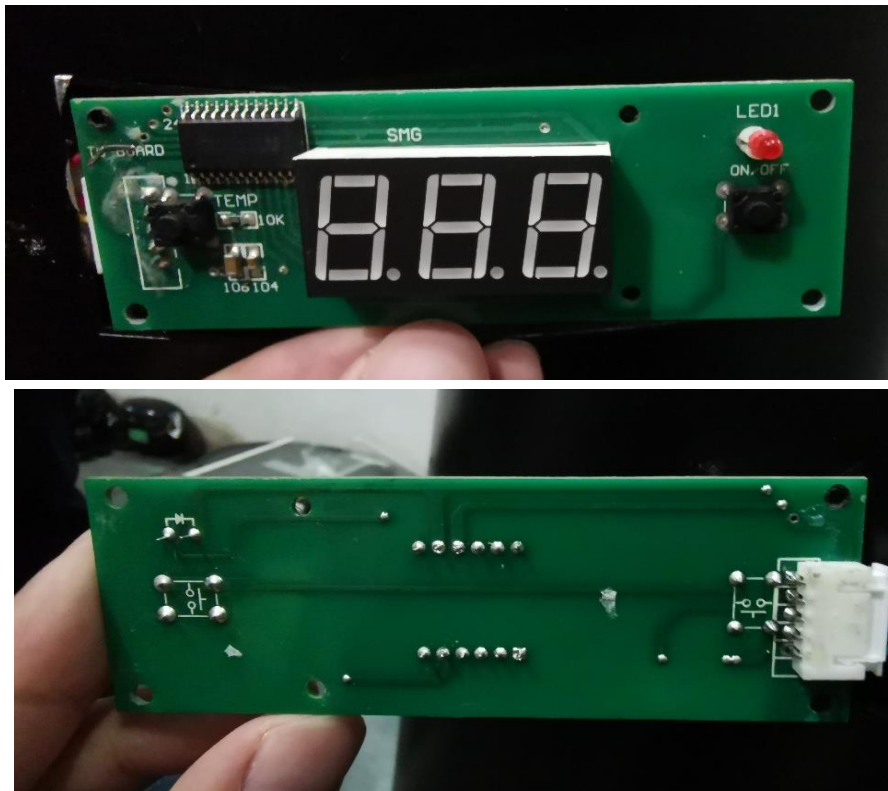
3.0 Product Photographs

Photo 65 - Main control PWB of model PC-75E-F (Same principle with main control PWB of model PC-50E-F)



3.0 Product Photographs

Photo 66 - Control panel PWB of model PC-75E-F



3.0 Product Photographs

Photo 2.1 - External view of models JC-18-F



Photo 2.2 - Rear view of models JC-18-F



3.0 Product Photographs

Photo 2.3 - Side view of models JC-18-F, JC-18UEL-F, JC-18UEX-F



Photo 2.4 - Side view of models JC-18-F, JC-18UEL-F, JC-18UEX-F

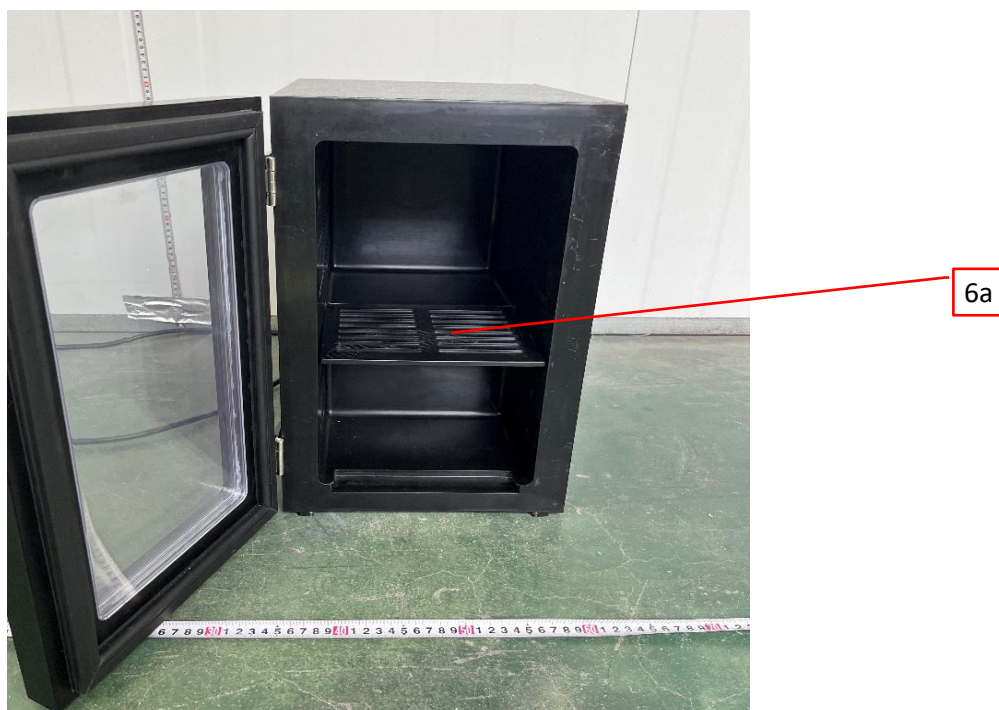


3.0 Product Photographs

Photo 2.5 - Top view of models JC-18-F, JC-18UEL-F, JC-18UEX-F



Photo 2.6 - Storage compartment view of models JC-18-F with plastic shelf



3.0 Product Photographs

Photo 2.7 - Storage compartment view of models JC-18-F with steel shelf

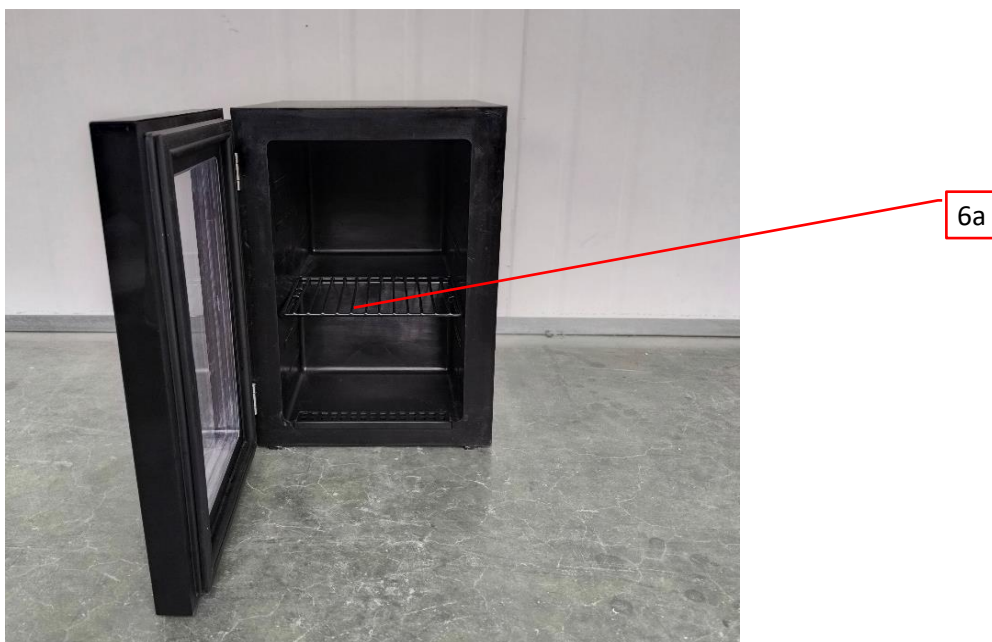


Photo 2.8 - Compressor compartment view of models JC-18-F



3.0 Product Photographs

Photo 2.8a - External view of models JC-18UEL-F



Photo 2.8b - Storage compartment view of models JC-18UEL-F



3.0 Product Photographs

Photo 2.8c - Rear view of models JC-18UEL-F, JC-18UEX-F



Photo 2.8d - Rear view of models JC-18UEL-F, JC-18UEX-F



3.0 Product Photographs

Photo 2.8e - Deatil view of models JC-18UEL-F, JC-18UEX-F (Main control PWB used in JC-18UEL-F, JC-18UEX-F is same as the one shown in Photo 60 & 61a)



Photo 2.9 - Compressor view of models JC-18-F, JC-18UEX-F, JC-UEL-F



9

3.0 Product Photographs

Photo 2.10 - Thermostat view of models JC-18-F (fixed on steel plate by two screws)

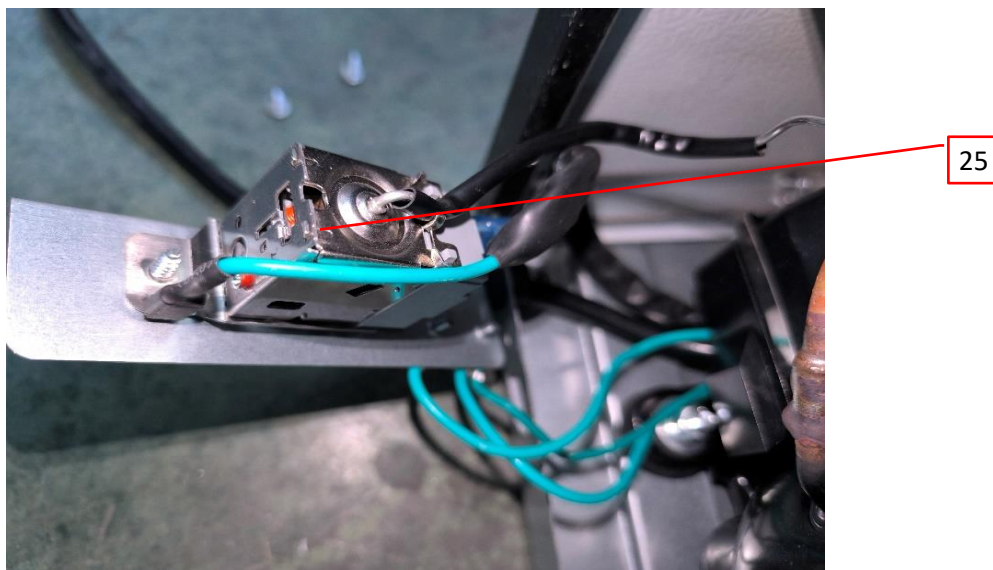


Photo 2.11 - Control panel PCB view of models JC-18UEX-F, JC-18UEL-F



4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
1, 8, 15	1	Plug	Various	Various	NEMA 5-15P	cURus
1, 8, 15	2	Supply Cord	YUYAO ANLIAN ELECTRONICS SCIENCE & TECHNOLOGY CO LTD	SJT	3×18AWG, Length 1.5-3.0m, Rated 300V, 600V or 300/600V, 105°C, VW-1, Terminated with a grounding plug	cURus
			Various	SJT		cURus
2, 5, 8, 9, 15	3	Enclosure	Various	Various	Cold-rolled steel plate with powder painting, pre-painted steel plate or stainless steel plate; Thickness: Min. 0.3mm	NR
1, 8, 11	4	Door Glass	Various	Various	Only for all models except model PC-50E-F, PC-75E-F, PC-50AE-F, PC-50A-F, PC-30E-F, PC-30-F: Consisting of two or three layers of glass. Each of them may be strengthening glass or toughened glass. Min. thickness 3mm for strengthening glass, which can withstand 2.2 J impact force by diameter 50.8mm, weight 540g steel ball without breakage	NR
2.1	4a	Door	Various	Various	Only for model JC-18-F, JC-18UEL-F, JC-18UEX-F: Consisting of two or three layers of glass. Each of them may be strengthening glass or toughened glass. Min. thickness 3mm for strengthening glass, which can withstand 2.2 J impact force by diameter 50.8mm, weight 540g steel ball without breakage	NR
					Alternative door for JC-18-F, JC-18UEL-F, JC-18UEX-F: Consisting of molded plastic parts, usually with or without plastic transparent windows	NR
15	5	Cover Glass	Various	Various	Only for model PC-50E-F, PC-75E-F, PC-50AE-F, PC-50A-F, PC-30E-F, PC-30-F: Single layer of strengthening glass, Thickness: Min. 3mm	NR

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
3, 4, 8, 10, 12, 14	6	Shelf Plate	Various	Various	Only for all models except model PC-50E-F, PC-75E-F, PC-50AE-F, PC-50A-F, PC-30E-F, PC-30-F: Single layer of toughened glass or steel wire with plastic wrapped or steel wire chrome plated, Secured to inner compartment by reliable method	NR
2.6, 2.7	6a	Shelf Plate	Various	Various	Only for model JC-18-F, JC-18UEL-F, JC-18UEX-F: ABS plastic or Impregnated steel wire shelf, secured to inner compartment by reliable method	NR
21, 2.6	7	Evaporator (Not Shown)	NINGBO HICON	Various	Only for all models except model PC-50E-F, PC-75E-F, PC-50AE-F, PC-50A-F, PC-30E-F, PC-30-F: Inflation type, Aluminum plate, Thickness: Min. 1mm, Secured to inner enclosure by 4 screws	NR
					Only for model PC-50E-F, PC-75E-F, PC-50AE-F, PC-50A-F, PC-30E-F, PC-30-F: Aluminum tube, Thickness: 0.7mm, Embedded in thermal insulation of storage compartment	NR
					Only for model JC-18-F, JC-18UEL-F, JC-18UEX-F: Tube-in-sheet evaporator. Embedded in thermal insulation of storage compartment.	NR
2, 9, 2.2	8	Condenser (Not Shown)	NINGBO HICON	Various	Bondi tube, Outside diameter (O.D.): 4mm, Thickness: 0.5mm, Embedded in thermal insulation of storage compartment	NR
					Only for model JC-18-F, JC-18UEL-F, JC-18UEX-F: Wire and tube condenser, Assembled on rear enclosure by reliable fixation.	NR

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
			NINGBO ANUODAN MACHINERY CO LTD	QD35Y11G	Only for models JC-36-F, JC-36UEL-F, JC-36UEX-F, JC-46-F, JC-46UEL-F, JC-46UEX-F, JC-48-F, JC-48UEL-F, JC-48UEX-F, JC-48VEL-F, JC-48VEX-F, JC-70UEL-F, JC-70VEL-F, JC-70UEX-F, JC-70VEX-F, JC-75UEX-F, JC-75UEL-F, JC-75ULK-F, JC-75VEX-F, JC-75VEL-F, JC-90UEL-F, JC-90UEX-F, JC-90ULK-F: Rated 110-120V, 60Hz, R600a, Thermally protected, Secured to bottom metal by positive means such as 4 screws and nuts	cURus
			HUANGSHI DONGBEI ELECTRICAL APPLIANCE CO LTD (SA12805)	DG40BY1A	Only for models JC-36-F, JC-36UEL-F, JC-36UEX-F, JC-46-F, JC-46UEL-F, JC-46UEX-F, JC-48-F, JC-48UEL-F, JC-48UEX-F, JC-48VEL-F, JC-48VEX-F, JC-70UEL-F, JC-70VEL-F, JC-70UEX-F, JC-70VEX-F, JC-75UEX-F, JC-75UEL-F, JC-75ULK-F, JC-75VEX-F, JC-75VEL-F, JC-90UEL-F, JC-90UEX-F, JC-90ULK-F. Rated 110-120V, 60Hz, R600a, 4.2LRA, Thermally protected, Secured to bottom metal by positive means such as 4 screws and nuts	cURus
			JINGZHOU TIANKE REFRIGERATION CO LTD (SA34011)	QD35C5	Only for models JC-36-F, JC-36UEL-F, JC-36UEX-F, JC-46-F, JC-46UEL-F, JC-46UEX-F, JC-48-F, JC-48UEL-F, JC-48UEX-F, JC-48VEL-F, JC-48VEX-F, JC-70UEL-F, JC-70VEL-F, JC-70UEX-F, JC-70VEX-F, JC-75UEX-F, JC-75UEL-F, JC-75ULK-F, JC-75VEX-F, JC-75VEL-F, JC-90UEL-F, JC-90UEX-F, JC-90ULK-F. Rated 110-120V, 60Hz, R600a, 4.2LRA, Thermally protected, Secured to bottom metal by positive means such as 4 screws and nuts	cURus

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
2, 9, 17, 18, 18b, 18c, 19, 19a, 19b, 19c, 2.9	9	Compressor	HUAYI COMPRESSOR (JINGZHOU) CO LTD (SA13324)	L48C5BL (L48C5L)	Only for models JC-128UEX-F, JC-128UEL-F, JC-128ULK-F, JC-128VEX-F, JC-128VEL-F, JC-90V-F, JC-90VEX-F, JC-90VEL-F: Rated 110-120V, 60Hz, R600a, Thermally protected, Secured to bottom metal by positive means such as 4 screws and nuts	cURus
			HUAYI COMPRESSOR (JINGZHOU) CO LTD	L35C5L	Only for models PC-50E-F, PC-75E-F, PC-50AE-F, PC-50A-F, PC-30E-F, PC-30-F, JC-36-F, JC-36UEL-F, JC-36UEX-F, JC-46-F, JC-46UEL-F, JC-46UEX-F, JC-48-F, JC-48UEL-F, JC-48UEX-F, JC-48VEL-F, JC-48VEX-F, JC-70UEL-F, JC-70VEL-F, JC-70UEX-F, JC-70VEX-F, JC-75UEX-F, JC-75UEL-F, JC-75ULK-F, JC-75VEX-F, JC-75VEL-F, JC-90UEL-F, JC-90UEX-F, JC-90ULK-F: Rated 110-120V, 60Hz, R600a, Thermally protected, Secured to bottom metal by positive means such as 4 screws and nuts	cURus
			NINGBO ANUODAN MACHINERY CO LTD (SA33342)	QD43Y11G	Only for models JC-90V-F, JC-90VEL-F, JC-90VEX-F: Rated 110-120V, 60Hz, R600a, Thermally protected, Secured to bottom metal by positive means such as 4 screws and nuts	cURus
			JINGZHOU TIANKE REFRIGERATION CO LTD (SA34011)	TK48C5	Only for models JC-128UEX-F, JC-128UEL-F, JC-128ULK-F, JC-128VEX-F, JC-128VEL-F: Rated 115V, 60Hz, R600a, Thermally protected, Secured to bottom metal by positive means such as 4 screws and nuts	cURus
			Hangzhou Qianjiang Refrigeration Compressor Group Co Ltd (SA33247)	UKN43YA	Only for models JC-90V-F, JC-90VEL-F, JC-90VEX-F: Rated 110-120V, 60Hz, R600a, Thermally protected, Secured to bottom metal by positive means such as 4 screws and nuts	cURus
			Hangzhou Qianjiang Refrigeration Compressor Group Co Ltd (SA33247)	UKN22YA	Only for models JC-18-F, JC-18UEL-F, JC-18UEX-F, JC-36-F, JC-36UEL-F, JC-36UEX-F: Rated 110-120V, 60Hz, R600a, Thermally protected, Secured to bottom metal by positive means such as 4 screws and nuts	cURus

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
			Hangzhou Qianjiang Refrigeration Compressor Group Co Ltd (SA33247)	MD058YA	Only for models JC-36-F, JC-36UEL-F, JC-36UEX-F, JC-46-F, JC-46UEL-F, JC-46UEX-F, JC-48-F, JC-48UEL-F, JC-48UEX-F, JC-48VEL-F, JC-48VEX-F, JC-70UEL-F, JC-70VEL-F, JC-70UEX-F, JC-70VEX-F, JC-75UEX-F, JC-75UEL-F, JC-75ULK-F, JC-75VEX-F, JC-75VEL-F, JC-90UEL-F, JC-90UEX-F, JC-90ULK-F: Rated 110-120V, 60Hz, R600a, Thermally protected, Secured to bottom metal by positive means such as 4 screws and nuts	cURus
14	10	Evaporator Fan Motor	XINRUILIAN SCIENCE & TECHNOLOGY (SHENZHEN) CO LTD	RDH1225S	For models JC-90V-F, JC-90VEX-F, JC-90VEL-F: DC brushless type, Rated 12V, 0.4A, Impedance Protection (Z.P.)	cURus
			SHENZHEN HUAXIA HENGTAI ELECTRONIC CO LTD	YM1212PTS1	Applicable model same as above. DC brushless type, Rated 12V, 0.27A, Impedance Protection (Z.P.)	cURus
			YATE LOON ELECTRONICS CO LTD	D12SH-12	Applicable model same as above. DC brushless type, Rated 12V, 0.3A, Impedance Protection (Z.P.)	cURus
			YOUNG LIN TECH CO LTD	DFS122512H	Applicable model same as above. DC brushless type, Rated 12V, 0.28A, Impedance Protection (Z.P.)	cURus
			HONGKONG POWERYEAR TECHNOLOGY CO LTD	PY-1225H12S	Applicable model same as above. DC brushless type, Rated 12V, 0.35A, Impedance Protection (Z.P.)	cURus

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
17	11	Cooling Fan Motor	HONGKONG POWERYEAR TECHNOLOGY CO LTD	PY-9225L12S	Only for model PC-50E-F: DC brushless type, Rated 12V, 0.16A, Impedance Protection (Z.P.), Secured to bottom metal by 2 screws	cURus
			XINRUILIAN SCIENCE & TECHNOLOGY (SHENZHEN) CO LTD	RDL9225S1	Applicable model same as above. DC brushless type, Rated 12V, 1.6W, Impedance Protection (Z.P.), Secured to bottom metal by 2 screws	cURus
			YOUNG LIN TECH CO LTD	DFB902512L	Applicable model same as above. DC brushless type, Rated 12V, 1.6W, Impedance Protection (Z.P.), Secured to bottom metal by 2 screws	cURus
			SHENZHEN YONGYIHAO ELECTRONIC CO LTD	YY9225L12S	Applicable model same as above. DC brushless type, Rated 12V, 1.6W, Impedance Protection (Z.P.), Secured to bottom metal by 2 screws	cURus
2, 9	12	Drain Tray	Various	Various	Thickness: Min. 0.4mm	NR
2, 9, 16, 20	13	Internal Wiring with line voltage	Various	Various	22-18AWG, Rated 300 or 600V, 105°C, with or without enclosed by PVC sleeving, VW-1, or power cord, Rated 300V, 600V or 300/600V, 105°C, VW-1	cURus

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
6, 7, 7a, 7b, 7d, 12, 14, 16, 22, 30, 39, 58	14	Electrical Box for HighVoltage PWB	NINGBO LG YONGXING CHEMICAL CO LTD	AF-312B	Thickness: Min. 2mm, Rated 5VA; Secured to top of inner liner within storage compartment by 2 screws (for models JC-36-F, JC-46-F, JC-48-F, JC-75ULK-F, JC-90ULK-F, JC-128ULK-F and JC-90V-F);	cURus
			LG CHEMICAL CO LTD (E67171)	AF-312B	Secured in compressor compartment by 2 screws (for models JC-18UEX-F, JC-18UEL-F, JC-36UEL-F, JC-36UEX-F, JC-46UEL-F, JC-46UEX-F, JC-48UEL-F, JC-48UEX-F, JC-48VEL-F, JC-48VEX-F, JC-70UEL-F, JC-70VEL-F, JC-70UEX-F, JC-70VEX-F, JC-75UEX-F, JC-75UEL-F, JC-75VEX-F, JC-75VEL-F, JC-128UEX-F, JC-128UEL-F, JC-128VEX-F, JC-128VEL-F, JC-90V-F, JC-90VEL-F, JC-90VEX-F, JC-90UEL-F, JC-90UEX-F); The model JC-90V-F is fitted up with two boxes in different places;	cURus
				AF-365F	Secured by 4 screws to sheet metal bracket which is secured to plywood by 4 screws (for model PC-50E-F)	
			CHI MEI CORPORATION	PA-765	Alternative main electric box secured on compressor baseboard and used as power cord strain relief as well.	cURus
				PA-765A		
			Various	Various		cURus
6, 12, 14, 23	15	ON-OFF lamp rocker switch	ZHEJIANG CHANGDECHEN G ELECTRIC APPLIANCES CO LTD (E239938)	BQK01-2	Only for models JC-36-F, JC-46-F, JC-48-F, JC-75ULK-F, JC-90ULK-F, JC-128ULK-F and JC-90V-F fitted with LED lamp: AC 250V, 6A, 6K, 85°C, Secured by snap-in device	cURus

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
			Various	Various	For models JC-*UEX-F, JC-*UEL-F (*=18,36,46,48,70,75,90,128), models PC-*E-F, PC-*AE-F(**=30,50), PC-75E-F: Vanish impregnated core, Type EE13 with thickness appr. 6mm by width 13,5mm and by length 13mm, Thickness of bobbin: Min. 1.6mm. Primary winding: Ø0.13mm, 180 turns, Type UEW, Rated Min. 130°C, Measured 6.05Ω at 25°C. Secondary winding: 3 layers insulated wire, Ø0.3mm, 27 turns, Rated Min. 130°C, Measured 0.21Ω at 25°C. Vcc. winding: Ø0.13mm, 40 turns, Rated Min. 130°C, Measured 1.87Ω at 25°C. Class 120 (E). Horizontally secured to PWB by soldering.	NR
			FOSHAN SHUNDE WAN XIN ELECTRONICS CO LTD	WX-E13087	For models JC-*UEX-F, JC-*UEL-F (*=18,36,46,48,70,75,90,128), models PC-*E-F, PC-*AE-F(**=30,50), PC-75E-F: Vanish impregnated core, Type EE13 with thickness appr. 6mm by width 13mm by length 12mm, Thickness of bobbin: Min. 1.0mm. Primary winding: Ø0.12mm, 157 turns, Type UEW, Rated Min. 155°C, Measured 6.2Ω at 22°C. Secondary winding: 3 layers insulated wire, Ø0.21mm, 31 turns, Rated min. 155°C, Measured 0.5Ω at 22°C. Vcc. winding: Ø0.23mm, 31 turns, Rated Min. 155°C, Measured 0.4Ω at 22°C. Class 120 (E). Horizontally secured to PWB by soldering.	NR

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
			DONG GUAN TNK INDUSTRY CO LTD	TDB918	For models JC-*UEX-F, JC-*UEL-F (*=18,36,46,48,70,75,90,128), models PC-*E-F, PC-*AE-F(**=30,50), PC-75E-F: Vanish impregnated core, Type EE13 with thickness appr. 6mm by width 13mm by length 12mm, Thickness of bobbin: Min. 1.0mm. Primary winding: Ø0.12mm, 157 turns, Type UEW, Rated Min. 155°C, Measured 6.2Ω at 22°C. Secondary winding: 3 layers insulated wire, Ø0.21mm, 31 turns, Rated Min. 155°C, Measured 0.5Ω at 22°C. Vcc. winding: Ø0.23mm, 31 turns, Rated Min. 155°C, Measured 0.4Ω at 22°C. Class 120 (E). Horizontally secured to PWB by soldering.	NR
			Various	Various	For models JC-*UEX-F, JC-*UEL-F (*=18,36,46,48,70,75,90,128), models PC-*E-F, PC-*AE-F(**=30,50), PC-75E-F: Vanish impregnated core, Type EE13 with thickness appr. 6mm by width 13mm by length 12mm, Thickness of bobbin: Min. 1.0mm. Primary winding: Ø0.13mm, 180 turns, Type MW79, Rated Min. 155°C, Measured 5.85Ω at 22°C. Secondary winding: 3 layers insulated wire, Ø0.35mm, 30 turns, Rated Min. 130°C, Measured 0.23Ω at 22°C. Vcc. winding: Ø0.13mm, 35 turns, Rated Min. 130°C, Measured 1.55Ω at 22°C. Class 120 (E). Horizontally secured to PWB by soldering.	NR

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
31, 33, 35, 37, 40, 41, 45, 50, 60, 61, 61a	16	Switching Transformer for Electrical Controller	Various	Various	For models JC-*VEX-F, JC-*VEL-F (*=46,48,70,75,90,128): Vanish impregnated core, Type EE13 with thickness appr. 6mm by width 13mm by length 12mm, Thickness of bobbin: Min. 1.0mm. Primary winding: Ø0.13mm, 145 turns, Type 2UEW, Rated Min. 130°C, Measured 5.36Ω at 22°C. Secondary winding: 3 layers insulated wire, Ø0.4mm, 24 turns, Type ALTIW-B, Rated Min. 130°C, Measured 0.116Ω at 22°C. Vcc. winding: Ø0.13mm, 27 turns, Type 2UEW, Rated Min. 130°C, Measured 1.19Ω at 22°C. Class 120 (E). Horizontally secured to PWB by soldering.	NR
			Various	Various	Only for model JC-90V-F: Varnish impregnated core, Thickness: 5,3mm by width 21mm by length 20,2mm, Thickness of bobbin: Min. 1.6mm. Primary winding: Ø0,27mm×1, 153 turns, Type 2UEWF, Rated Min. 130°C, Measured 1,545Ω at 22°C. Secondary winding: 3 layers insulated wire, Ø0,55mm×2, 15 turns, Type TIW-B, Rated Min. 130°C, Measured 26,65mΩ at 22°C. Vcc. winding: Ø0,2mm×2, 20 turns, Type 2UEWF, Rated Min. 130°C, Measured: 0,28Ω at 22°C. Class 120 (E). Horizontally secured to PWB by soldering without optical isolater as feedback.	NR

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
			Various	Various	Only for model JC-90VEL-F, JC-90VEX-F, JC-75VEL-F, JC-75VEX-F, JC-70VEL-F, JC-70VEX-F, JC-48VEL-F, JC-48VEX-F: Varnish impregnated core, Thickness: 5,3mm by width 20,6mm by length 20,2mm, Thickness of bobbin: Min. 1.6mm. Primary winding: Ø0,25mm×90 turns, Type MW79, Rated Min. 155°C, Measured 1,0Ω at 12°C. Secondary winding: 3 layers insulated wire, Ø0,45mm×14 turns, Rated Min. 130°C, Measured 0,06Ω at 12°C. Vcc. winding: Ø0,25mm×18 turns, Rated Min. 155°C, Measured: 0,25Ω at 12°C. Class 120 (E). Horizontally secured to PWB by soldering without optical isolater as feedback.	NR
			FOSHAN SHUNDE WANXIN ELECTRONIC ELECTRICAL CO.,LTD	WX-E19123	Only for model JC-128VEL-F, JC-128VEX-F: Varnish impregnated core, Thickness: 4.8mm by width 19.0mm by height 16.4mm, Thickness of bobbin: Min. 1.0mm. Primary winding: Ø0,18mm×120 turns, Rated Min. 155°C, Measured 2.42Ω at 28°C. Secondary winding: 3 layers insulated wire, Ø0,45mm×15 turns, Rated Min. 130°C, Measured 62.54mΩ at 28°C. Vcc. winding: Ø0,18mm×18 turns, Rated Min. 155°C, Measured: 0.54Ω at 28°C. Class 130 (B). Horizontally secured to PWB by soldering without optical isolater as feedback.	NR

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
			Various	Various	For models JC-*UEL-F, JC-*UEX-F (*=18, 36, 46, 48, 70, 75, 90, 128), PC-50E-F, PC-75E-F, PC-50AE-F, PC-30AE-F and JC-*VEL-F, JC-*VEX-F (*=46, 48, 70, 75, 90, 128) Varnish impregnated core, Type EE13 with thickness 5.5mm approx., by width 13mm approx., length 20mm approx., thickness of bobbin: Min. 1.0mm. Primary winding: Ø0.15mm×124 turns, Rated Min. 130°C, Measured 4.2Ω at 25°C. Secondary winding: 3 layers insulated wire, Ø0.25mm×25 turns, Rated Min. 130°C, Measured 0.8Ω at 25°C. Vcc. winding: Ø0.17mm×25 turns, Rated Min. 130°C, Measured: 1.2Ω at 25°C. Class 130 (B). Horizontally secured to PWB by soldering without optical isolater as feedback.	NR
			JYH CHUNG ELECTRONICS CO LTD	JY	Only for models JC-18UEX-F, JC-18UEL-F, JC-36UEL-F, JC-36UEX-F, JC-46UEL-F, JC-46UEX-F, JC-48UEL-F, JC-48UEX-F, JC-48VEL-F, JC-48VEX-F, JC-70UEL-F, JC-70VEL-F, JC-70UEX-F, JC-70VEX-F, JC-75UEX-F, JC-75UEL-F, JC-75VEX-F, JC-75VEL-F, JC-128UEX-F, JC-128UEL-F, JC-128VEX-F, JC-128VEL-F, JC-90V-F, JC-90VEX-F, JC-90VEL-F, JC-90UEL-F, JC-90UEX-F, PC-50E-F, PC-75E-F, PC-50AE-F, PC-30E-F: Min.250V, 1.0nF or 2.2nF, 1 piece connected across primary and secondary by soldering.	cURus
			JYH HSU ELECTRONICS LTD	JY Series	Applicable models same as above. Min.250V, 1.0nF or 2.2nF, 1 piece connected across primary and secondary by soldering.	cURus

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
31, 33, 35, 37, 40, 41, 45, 50, 60, 61, 61a	17	Y Capacitor	JYH HSU (JEC) ELECTRONICS LTD (E356696)	JD Series	Applicable models same as above. Min.250V, 1.0nF or 2.2nF, 1 piece connected across primary and secondary by soldering.	cURus
				JY Series		
			NANJING JINGWEI ELECTRONICS CO LTD (E333929)	CT7	Applicable models same as above. Min.250V, 1.0nF or 2.2nF, 1 piece connected across primary and secondary by soldering.	cURus
			GUANGZHOU YES ELECTRONIC TECHNOLOGY CO LTD	AR	Applicable models same as above. Min.250V, 1.0nF or 2.2nF, 1 piece connected across primary and secondary by soldering.	cURus
			Haohua Electronic Co.	CT7	Applicable models same as above. Min.250V, 1.0nF or 2.2nF, 1 piece connected across primary and secondary by soldering.	cURus
			Guangdong South Hongming Electronic Science & Technology Co., Ltd.	F	Applicable models same as above. Min.250V, 1.0nF or 2.2nF, 1 piece connected across primary and secondary by soldering.	cURus
			Shantou High-New Technology Development Zone Songtian Enterprise Co., Ltd.	CD-series, CE-series	Applicable models same as above. Min.250V, 1.0nF or 2.2nF, 1 piece connected across primary and secondary by soldering.	cURus
			Yinan Don's Electronic Component Co., Ltd.	CT81 series	Applicable models same as above. Min.250V, 1.0nF or 2.2nF, 1 piece connected across primary and secondary by soldering.	cURus
			Xiamen Wanming Electronics Co., Ltd.	HJ	Applicable models same as above. Min.250V, 1.0nF or 2.2nF, 1 piece connected across primary and secondary by soldering.	cURus
				HM		cURus
33	18	Optical Isolator	EVERLIGHT ELECTRONICS CO LTD	817	Only for the condition of models JC-128UEX-F, JC-128UEL-F and PC-50E-F, PC-75E-F, PC-50AE-F, PC-30E-F equipped with optical isolator on the PWB: Providing AC 5000V isolation	cURus
				EL817		
			SHARP CORP ELECTRONIC COMPONENTS AND DEVICES GROUP	PC817		cURus
			FAIRCHILD SEMICONDUCTOR CORP	FOD817		cURus
			BRIGHT LED ELECTRONICS CORP	BPC-817		cURus

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
27, 27b, 31, 33, 35, 37, 40, 45, 50, 60, 61, 61a	19	VDR	CHENGDU TIEDA ELECTRONIC CO LTD	MYN12-331	Only for models JC-18UEL-F, JC-18UEX-F, JC-36UEL-F, JC-36UEX-F, JC-46UEL-F, JC-46UEX-F, JC-48UEL-F, JC-48UEX-F, JC-48VEL-F, JC-48VEX-F, JC-70UEL-F, JC-70VEL-F, JC-70UEX-F, JC-70VEX-F, JC-75UEL-F, JC-75UEX-F, JC-75VEL-F, JC-75VEX-F, JC-128UEL-F, JC-128VEL-F, JC-128VEX-F, JC-128VEX-F, JC-90UEL-F, JC-90UEX-F, PC-50E-F, PC-75E-F, PC-50AE-F, PC-30E-F: 330V (Majority of alternative VDRs) / 320V (Item No. 19D: VDR of model (SIOV-)S10K320), Secured to PWB by soldering.	cURus
			FENG HUA ADVANCE TECHNOLOGY (HOLDING) CO LTD	FNR10K331		cURus
				FNR14K561		
			GUANGDONG FOSHAN KESTAR ELECTRONIC CO LTD	MYG10-331		cURus
			DONGGUAN LITTELFUSE ELECTRONICS CO LTD	VDR-10D331K		cURus
				MOV-10D331K		
			EPCOS (ZHUHAI FTZ) CO LTD / TDK (ZHUHAI FTZ) CO LTD (E321126)	(SIOV-) S10K320		cURus
			HONGZHI ENTERPRISES LTD	HEL-10D331K		cURus
			XIAN XIWUER ELECTRONIC & INFORMATION CO LTD	MYD-10K331		cURus
			CAPATRONICS ELECTRONICS (KUNSHAN) CO LTD	CVR10N331		cURus
			NANJING JOCOL ELECTRONICS TECHNOLOGY CO LTD	10D331K		cURus
			CERAMATE TECHNICAL CO LTD	(GNR or NFV) 10D331K		cURus
				(GNR or NFV) 14D331K		
			GUANGXI NEW FUTURE INFORMATION INDUSTRY CO LTD	NFC10D331K		cURus
				NFC14D331K		
			JYA-NAY CO LTD	10D331K		cURus
			JYH HSU (JEC) ELECTRONICS LTD (E486000)	10D331K		cURus
			ZHEJIANG HUANG-YAN SAILING ELECTRONICS CO LTD (E329714)	MYG10K331		cURus

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
			HUIZHOU SONGLONGXINDIAN ELECTRONICS TECHNOLOGY CO LTD (E359158)	10D331K		cURus
			GUANGZHOU YES ELECTRONIC TECHNOLOGY CO LTD	V-331K-10D		cURus
			Guangdong Huiwan Electronics Technology Co Ltd	V-331K-10D		cURus
			Shantou High-New Technology Development. Zone Songtian Enterprise Co., Ltd.	(STE)10D331K (STE)10D331K-H		cURus
			Thinking Electronic Industrial Co. Ltd	TVR10331 TVR10331-B TVR10331-V		cURus

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
27b, 27d, 31, 33, 35, 37, 40, 41, 45, 50, 60, 61, 61a	20	Across-the-line Capacitor	JIMSON ELECTRONICS CO LTD	MKP	For models JC-18UEL-F, JC-18UEX-F, JC-36UEL-F, JC-36UEX-F, JC-46UEL-F, JC-46UEX-F, JC-48UEL-F, JC-48UEX-F, JC-48VEL-F, JC-48VEX-F, JC-70UEL-F, JC-70VEL-F, JC-70UEX-F, JC-70VEX-F, JC-75UEL-F, JC-75UEX-F, JC-75VEL-F, JC-75VEX-F, JC-128UEL-F, JC-128UEX-F, JC-128VEL-F, JC-128VEX-F, JC-90V-F, JC-90VEX-F, JC-90VEL-F, JC-90UEL-F, JC-90UEX-F, PC-50E-F, PC-75E-F, PC-50AE-F, PC-30E-F: 0.1μF, Min. 250V, Secured to PWB by soldering. For optional LED lighting PWB used in models JC-36-F, JC-46-F, JC-48-F, JC-75ULK-F, JC-90V-F, JC-90ULK-F, JC-128ULK: 0.22μF, Min. 250V, Secured to PWB by soldering.	cURus
			JENN FU ELECTRONICS CORP	MPX		cURus
			DAIN ELECTRONICS CO LTD	MPX		cURus
			ANHUI TONG FENG ELECTRONICS CO LTD	MKP		cURus
			FU XIN PAN OCEAN ELECTRONIC LTD	MPX-X2		cURus
			CAPATRONICS ELECTRONICS (KUNSHAN) CO LTD	Type B2		cURus
			HUIZHOU RONGDA ELECTRONICS CO LTD	MPX		cURus
			JYH CHUNG ELECTRONICS CO LTD	JD		cURus
			JYH HSU (JEC) ELECTRONICS LTD (E356696)	MPX		cURus
			GUANGZHOU YES ELECTRONIC TECHNOLOGY CO LTD	MPX		cURus
			GUANGDONG FENGMING ELECTRONIC TECH CO LTD	MKP		cURus
			Ningbo Jiangbei Zhenhua Electronic Co., Ltd.	CBB62		cURus
			Nistronics (Jiang xi) Co., Ltd.	MPR		cURus
			Shantou High-New Technology Development Zone Songtian Enterprise Co., Ltd.	MPX		cURus
			Ultra Tech Xiphi Enterprise Co., Ltd.	HQX		cURus
			Dain Electronics Co., Ltd.	MPX		cURus

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
31, 33, 35, 37, 40, 41, 45, 50, 60, 61, 61a	21	Fuse	HOLLYLAND CO LTD	50	Only for models JC-18UEL-F, JC-18UEX-F, JC-36UEL-F, JC-36UEX-F, JC-46UEL-F, JC-46UEX-F, JC-48UEL-F, JC-48UEX-F, JC-48VEL-F, JC-48VEX-F, JC-70UEL-F, JC-70VEL-F, JC-70UEX-F, JC-70VEX-F, JC-75UEL-F, JC-75UEX-F, JC-75VEL-F, JC-75VEX-F, JC-128UEL-F, JC-128UEX-F, JC-128VEL-F, JC-128VEX-F, JC-90UEL-F, JC-90UEX-F, JC-90VEL-F, JC-90VEX-F, PC-50E-F, PC-75E-F, PC-50AE-F, PC-30E-F: 3.15A, 125/250V, Secured to PWB by soldering.	CULus
			LITTELFUSE INC	51S		CULus
			LITTELFUSE INC	618		CULus
			EVER ISLAND ELECTRIC CO LTD & WALTER ELECTRIC	2000		CULus
			SHANGHAI SONGSHAN ELECTRONICS CO LTD	218		CULus
			HOLLYLAND CO LTD	51NM		CULus
			SHENZHEN LANSON ELECTRONICS CO LTD	5M Series		CULus
			SHENZHEN LANSON ELECTRONICS CO LTD	5N Series		CULus
			SUNNY EAST ENTERPRISE CO LTD	CEB Series		CULus
			SUNNY EAST ENTERPRISE CO LTD	SEB Series		CULus
			XC ELECTRONICS (SHENZHEN) CORP LTD	5F		CULus
			XC ELECTRONICS (SHENZHEN) CORP LTD	5G		CULus
			XC ELECTRONICS (SHENZHEN) CORP LTD	5S		CULus
			SUZHOU WALTER ELECTRONIC CO LTD	SGP		CULus
			HOLLYLAND CO LTD	5EF032H		CULus
			SHANGHAI FULLNESS ELECTRICAL CO LTD (E485357)	TSP		CULus
			DONGGUAN BETTER ELECTRONICS TECHNOLOGY CO LTD	932		CULus
			DONGGUAN CHEVRON ELECTRONIC TECHNOLOGY CO LTD	SET		CULus
			SUZHOU WALTER ELECTRONIC CO LTD (E56092)	2010		CULus
			CONQUER ELECTRONICS CO LTD (E82636)	MST		CULus
			XC ELECTRONICS (SHENZHEN)	5TE		CULus

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
			HONG HU BLUELIGHT ELECTRONIC CO LTD	6ET		CULus
			Littelfuse Inc.	392		CULus
			Hollyland Co., Ltd	5ET, 5EF		CULus
			Various	Various		cULus
27b	21a	Fuse (optional, no need on PWB for LED lamp of photo 27d)	HOLLYLAND CO LTD	5EF032H	For optional LED lighting PWB used in models JC-36-F, JC-46-F, JC-48-F, JC-75ULK-F, JC-90V-F, JC-90ULK-F, JC-128ULK: 1.0A, 125VAC or 250VAC.	cULus
			SHANGHAI FULLNESS ELECTRICAL CO LTD (E485357)	TSP		cULus
			DONGGUAN BETTER ELECTRONICS TECHNOLOGY CO LTD	932		cULus
			DONGGUAN CHEVRON ELECTRONIC TECHNOLOGY CO LTD	SET		CULus
			SUZHOU WALTER ELECTRONIC CO LTD (E56092)	2010		CULus
			CONQUER ELECTRONICS CO LTD (E82636)	MST		CULus
			XC ELECTRONICS (SHENZHEN) CORP LTD	5TE		CULus
			HONG HU BLUELIGHT ELECTRONIC CO LTD (E324232)	6ET		CULus
			Littelfuse Inc.	392		CULus
			Hollyland Co., Ltd	5ET, 5EF		CULus
			Various	Various		CULus

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
31, 33, 35, 37, 41, 45, 50, 60, 61	22	Relay	XIAMEN HONGFA	JQC-3FF	Only for models JC-18UEL-F, JC-18UEX-F, JC-36UEL-F, JC-36UEX-F, JC-46UEL-F, JC-46UEX-F, JC-48UEL-F, JC-48UEX-F, JC-48VEL-F, JC-48VEX-F, JC-70UEL-F, JC-70VEL-F, JC-70UEX-F, JC-70VEX-F, JC-75UEL-F, JC-75UEX-F, JC-75VEL-F, JC-75VEX-F, JC-128UEL-F, JC-128UEX-F, JC-128VEL-F, JC-128VEX-F, PC-50E-F, PC-75E-F, PC-50AE-F, PC-30E-F, JC-90VEX-F, JC-90VEL-F, JC-90UEL-F, JC-90UEX-F: Min. 5A, 120V or 125V or 250V or 277V, 10E4, Secured to PWB by soldering.	cURus
			GOODSKY	RWH-SH-112DM	Applicable models same as above. Min. 5A, 120V or 125V or 250V or 277V, 10E4, Secured to PWB by soldering.	cURus
			NINGBO SONGLE RELAY CO LTD	SRD-12VDC-SL A	Applicable models same as above. Min. 5A, 120V or 125V or 250V or 277V, 10E4, Secured to PWB by soldering.	cURus
			DONGGUAN SANYOU ELECTRICAL APPLIANCES CO LTD	SRD-S-112DM, SRD-S-112DM, SRD-SH-112DM	Applicable models same as above. Min. 5A, 120V or 125V or 250V or 277V, 10E4, Secured to PWB by soldering.	cURus
			HSIN DA PRECISION CO LTD	982-1A-12D	Applicable models same as above. Min. 5A, 120V or 125V or 250V or 277V, 10E4, Secured to PWB by soldering.	cURus
			SONG CHUAN PRECISION CO LTD	833H-1C-C	Applicable models same as above. Min. 5A, 120V or 125V or 250V or 277V, 10E4, Secured to PWB by soldering.	cURus
			QUN LI RADIO APPLIANCE FACTORY	JQC-3FB	Applicable models same as above. Min. 5A, 120V or 125V or 250V or 277V, 10E4, Secured to PWB by soldering.	cURus
			NINGBO JINTIAN RELAY CO LTD	JQC-3FF	Applicable models same as above.	cURus
				HF3FF	Min. 5A, 120V or 125V or 250V or 277V, 10E4, Secured to PWB by soldering.	

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
			NINGBO ZETTLER ELECTRONICS CO LTD (E319069)	JQC-3FF	Applicable models same as above. Min. 5A, 120V or 125V or 250V or 277V, 10E4, Secured to PWB by soldering.	cURus
			XIAMEN HONGFA ELECTROACOUSTIC CO LTD (E134517)	JQC-3FF	Applicable models same as above.	cURus
				HF3FF	Min. 5A, 120V or 125V or 250V or 277V, 10E4, Secured to PWB by soldering.	
				HF3FA, HF3FA-T		
			WangRong Electronics (Shenzhen) Co. Ltd.	RD-112DM series	Applicable models same as above. Min. 5A, 120V or 125V or 250V or 277V, 10E4, Secured to PWB by soldering.	cURus
			Zhejiang MeiShuo Electric Technology Co Ltd	MPA	Applicable models same as above. Min. 5A, 120V or 125V or 250V or 277V, 10E4, Secured to PWB by soldering.	cURus

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
27d, 31, 33, 35, 37, 40, 41, 45, 50, 60, 61	23	PWB for High Voltage	NAN YA PLASTICS CORP (CCL DEPT ELECTRONIC MATERIAL DIV)	CEM-3-86/92/95	Only for models JC-18UEL-F, JC-18UEX-F, JC-36UEL-F, JC-36UEX-F, JC-46UEL-F, JC-46UEX-F, JC-48UEL-F, JC-48UEX-F, JC-48VEL-F, JC-48VEX-F, JC-70UEL-F, JC-70VEL-F, JC-70UEX-F, JC-70VEX-F, JC-75UEL-F, JC-75UEX-F, JC-75VEL-F, JC-75VEX-F, JC-128UEL-F, JC-128UEX-F, JC-128VEL-F, JC-128VEX-F, JC-90VEL-F, JC-90VEX-F, JC-90UEL-F, JC-90UEX-F, PC-50E-F, PC-75E-F, PC-50AE-F, PC-30E-F: Thickness: 1.5mm, V-0, 130°C, Secured to PWB box by 4 screws.	cURus
			YAT TAO CHEMICAL HOLDINGS (HK) LTD	KH-111F		cURus
			SHANGHAI NANYA COPPER CLAD LAMINATES CO LTD	SN-L1		cURus
				SN-L2		
				SN-P1		
				SN-P2		
			CHANGZHOU SHUANGJIN ELECTRONIC CO LTD	CCEM-1		cURus
				CFR-1		
			ZHEJIANG WENZHOU TIANCHEN ELECTRONICS	TC-1		cURus
			SHANDONG JINBAO ELECTRONICS CO LTD	ZD-90F		cURus
				ZD-98F		
			CIXI WINNER-TECH ELECTRONIC TECHNOLOGY CO LTD	FR1		cURus
			CHANGZHOU KELONG ELECTRONICS CO LTD	JC-2		cURus
			HANGZHOU BAOLIN PRINTED CIRCUIT CO LTD	BL1		cURus
			HANGZHOU LINAN PENGYU ELECTRONICS CO LTD	PY-2		cURus
			CIXI CITY LUTENG ELECTRONIC TECHNOLOGY CO LTD	FR1		cURus
			KINGBOARD LAMINATES HOLDINGS LTD (E123995)	KB5150		cURus
				KB6160		
			Guangde Sanyang Electronics Co Ltd	SY-S		cURus
			KINGBOARD LAMINATES HOLDINGS LTD	KB-5150 Series KB-6160 series		cURus
			Various	Various		cURus

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
2, 9, 15	24	Marking Label (Not Shown)	KUNSHAN DAVID PRINTING & STATIONARY CO LTD	TL-400	60°C, Pasted on the back of enclosure	cURus
			HANGZHOU HENGBO LABEL CO LTD	JH-1	60°C, Pasted on the back of enclosure	cURus
			YUETAI PRINTING & PACKING CO LTD	YT99601	80°C, Pasted on the back of enclosure	cURus
				YT99601A		
			TAIZHOU LUQIAO WU WEN PRINTING FACTORY	WW-02	80°C, Pasted on the back of enclosure	cURus
			YUYAO KANGDA ELECTRON PRINTING CO LTD	KD125	80°C, Pasted on the back of enclosure	cURus
			AVERY (CHINA) CO LTD	PET TC/S333	80°C, Pasted on the back of enclosure	cURus
			YUYAO CHENGQU	ST-010	80°C, Pasted on the back of enclosure	cURus
				SY-010		
			Various	Various	80°C, Pasted on the back of enclosure	cURus

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
17b, 26, 27e, 2.10	25	Thermostat	FOSHAN TONGBAO CO LTD (SA33884)	WD	Only for models JC-18-F, JC-36-F, JC-46-F, JC-48-F, JC-75ULK-F, JC-90ULK-F, JC-128ULK-F and JC-90V-F, PC-50A-F, PC-30-F: Rated 125V, FLA: 6A, LRA: 36A, or 250V, FLA: 4A, LRA: 24A. Secured by screws, CNEx 11.2701X	cURus
			FOSHAN TONGBAO HUATONG CONTROLLER CO LTD (E124776)	WD	Applicable models same as above. Rated 125V, FLA: 6A, LRA: 36A, or 250V, FLA: 4A, LRA: 24A. Secured by screws, CNEx 11.2701X	cURus
			JIUJIANG HENGTONG AUTOCONTROL DEVICE CO LTD (E225669)	WP	Applicable models same as above. Rated 125V, FLA: 6A, LRA: 36A, or 250V, FLA: 4A, LRA: 24A. Secured by screws, CNEx 13.4303X, CNEx 13.4305X	cURus
				WDF		
			JIUJIANG HENGTAI AUTOCONTROL DEVICE CO LTD (E304615)	WP	Applicable models same as above. Rated 250V, FLA: 25A, LRA: 80A, or 250V, FLA: 4A, LRA: 24A, or 250V, FLA: 5A, LRA: 24A. Secured by screws, VDE 40019289	cURus
				WDF		
			CHANGZHOU THERMOSTER ELECTRICAL APPLIANCE CO LTD (E188259)	WPFE	Applicable models same as above. Rated 125V, FLA: 8A, LRA: 36A, or 250V, FLA: 6A, LRA: 24A. Secured by screws, VDE 40024527	cURus
				WDFE		
			JIANGXI TONGDA ELECTRIC APPLIANCE CO LTD (E186656)	WP	Applicable models same as above. Rated 250V, FLA: 4A, LRA: 24A. Secured by screws, CNEx 13.0201X	cURus
				WD		
			HEFEI CHAOYUE ELECTRICAL APPLIANCES CO LTD (E212930)	WPF	Applicable models same as above. Rated 120V, FLA: 8.5A, LRA: 30A. Secured by screws, CNEx 13.4184X	cURus
				WDF		
			Yuyao Mingtong Electric Appliance Co., LTD (SA32356)	W-L series	Rated 250VAC, 4A. TUV R: AK 50535715 0001	cURus
			HEFEI SHUSHI INDUSTRIAL TRADE CO LTD (E477729)	WP	Applicable models same as above. Rated 250V, FLA: 6A, LRA: 30A. Secured by screws, CNEx 15.2894X	cURus
				WD		

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
3a, 10b, 10c, 10d	26	Cooling Air Circulation Fan	Hongkong Poweryear Technology Co Ltd (E348858)	PY-8025M12S	Only for models JC-48VEL-F, JC-48VEX-F, JC-70VEL-F, JC-70VEX-F, JC-75VEX-F, JC-75VEL-F, JC-128VEX-F, JC-128VEL-F, JC-90V-F JC-90VEL-F, JC-90VEX-F. DC brushless type, Rated 12V, 0.15A, Mounted on the top of inner liner, covered by polymeric enclosure which rated min HB and with min 1.2 mm thickness.	cURus
				PY-8025L12S	Only for models JC-48VEL-F, JC-48VEX-F, JC-70VEL-F, JC-70VEX-F, JC-75VEX-F, JC-75VEL-F, JC-128VEX-F, JC-128VEL-F, JC-90V-F, JC-90VEL-F, JC-90VEX-F. DC brushless type, Rated 12V, 0.13A, Mounted on the top of inner liner, covered by polymeric enclosure which rated min HB and with min 1.2 mm thickness.	cURus
NOTES:						
1) Not all item numbers are indicated (called out) in the photos, as their location is obvious.						
2) “Various” means any type, from any manufacturer that complies with the "Technical data and securement means" and meets the "Mark(s) of conformity" can be used.						
3) Indicates specific marks to be verified, which assures the agreed level of surveillance for the component. "NR" - indicates Unlisted and only visual examination is necessary. "See 5.0" indicates Unlisted components or assemblies to be evaluated periodically refer to section 5.0 for details.						

5.0 Critical Unlisted CEC Components

No Unlisted CEC components are used in this report.

6.0 Critical Features

Recognized Component - A component part, which has been previously evaluated by an accredited certification body with restrictions and must be evaluated as part of the basic product considering the restrictions as specified by the Conditions of Acceptability.

Listed Component - A component part, which has been previously Listed or Certified by an accredited Certification Organization with no restrictions and is used in the intended application within its ratings.

Unlisted Component - A part that has not been previously evaluated to the appropriate designated component standard. It may also be a Listed or Recognized component that is being used outside of its evaluated Listing or component recognition.

Critical Features/Components - An essential part, material, subassembly, system, software, or accessory of a product that has a direct bearing on the product's conformance to applicable requirements of the product standard.

Construction Details - For specific construction details, reference should be made to the photographs and descriptions. All dimensions are approximate unless specified as exact or within a tolerance. In addition to the specific construction details described in this Report, the following general requirements also apply.

1. Spacing - In primary circuits, 1.6 mm minimum spacing are maintained through air and over surfaces of insulating material between current-carrying parts of opposite polarity and 6.4 mm minimum between such current-carrying parts and dead-metal parts or low voltage isolated circuits.
2. Mechanical Assembly - Components such as switches, fuseholders, connectors, wiring terminals and display lamps are mounted and prevented from shifting or rotating by the use of lockwashers, starwashers, or other mounting format that prevents turning of the component.
3. Corrosion Protection - All ferrous metal parts are protected against corrosion by painting, plating or the equivalent.
4. Accessibility of Live Parts - All uninsulated live parts in primary circuitry are housed within a metal enclosure constructed with no openings other than those specifically described in Sections 4 and 5.
5. Grounding - All exposed dead-metal parts and all dead-metal parts within the enclosure that are exposed are connected to the grounding lead of the power supply cord.
6. Polarized Connection - This product is provided with a polarized power supply connection. All single pole switches and fuses are connected only to the ungrounded supply circuit conductor.
7. Internal Wiring - Internal wiring is routed away from sharp or moving parts. Internal wiring leads terminating in soldered connections are made mechanically secure prior to soldering. Recognized Component separable (quick disconnect) connectors of the positive detent type, closed loop connectors, or other types specifically described in the text of this report are also acceptable as internal wiring terminals. At points where internal wiring passes through metal walls or partitions, the wiring insulation is protected against abrasion or damage by plastic bushings or grommets. All wiring is minimum 22AWG, with a minimum rating of 300V, 105°C.

8. Schematics - NA

9. Markings - The products are marked on as labeling system as described in item no. 24 of Section 4.0 as follows: applicant's name, model number, manufacturing date, power supply voltage/frequency, electrical ratings, the mass and type of refrigerant, foaming agent.
The products are required to have markings in both French and English when they are shipped to Canada market. It is the responsibility of the Applicant to determine any such requirement and provide bilingual markings, where applicable, in accordance with the Provincial Regulatory Authorities.

10. Cautionary Markings - Refer to Illustration No. 3 and 3A for details.

6.0 Critical Features

11. Installation, Operating and Safety Instructions - Instructions for installation and use of this product are provided by the manufacturer.
Refer to Illustration No. 4, 4A and 4B for IMPORTANT SAFEGUARDS of instruction manual used for model JC-75ULK-F as the representative. The whole contents of all models have been checked while not be pasted in this report.
12. M/L model similarities - For M/L No. 1, Curtis International Ltd.:
For models MIS155, MIS1530, MIS1530-EO and EFRP245, their brand name is IGLOO.
For model RMIS1530, their brand name is RCA.
For model EFMIS155, EFMIS155_SM, their brand name is FRIGIDAIRE.
For M/L No. 2 GE Appliances, a Haier Company:
Alphanumeric character A-Z represent product color or for marketing purpose.
13. Logo Dependent Marking - The required marking is dependent on the specific ETL logo applied to the product as authorized by the Authorization to Mark. In addition to the required marking of item 10 above, All products bearing the cETL or cETLus logo must also be marked with:
All products bearing the ETLus logo only is not required for following french language marking:
- DANGER Risque d'incendie ou d'explosion. Frigorigène inflammable utilisé. La réparation doit être faite seulement par un personnel qualifié. Ne pas perforer la conduite de frigorigène.
- ATTENTION Risque d'incendie ou d'explosion. Frigorigène inflammable utilisé. Consulter le manuel de réparation/manuel du propriétaire avant d'entreprendre l'entretien de ce produit. Toutes les mesures de sécurité doivent être respectées.
- ATTENTION Risque d'incendie ou d'explosion. Éliminer convenablement conformément à la réglementation fédérale ou locale Frigorigène inflammable utilisé.
- ATTENTION La perforation de la conduite de frigorigène peut entraîner un incendie ou une explosion. Suivre avec soin les instructions fournies. Frigorigène inflammable utilisé.
- Note: The above markings shall be in letters no less than 3.2mm high.

7.0 Illustrations

Illustration No. 3 - Cautionary Markings

1. The below marking shall be located near the machine compartment:



DANGER – Risk Of Fire Or Explosion. Flammable Refrigerant Used. To Be Repaired Only By Trained Service Personnel. Do Not Puncture Refrigerant Tubing.

Danger-rique de feu ou explosion. Les articles inflammables réfrigérants utilisés. Il faut être réparé par les professionnels seuls. Ne pas crever le tuyau réfrigérant.

CAUTION – Risk Of Fire Or Explosion. Flammable Refrigerant Used. Consult Repair Manual/Owner's Guide Before Attempting To Service This Product. All Safety Precautions Must be Followed.

Attention-rique de feu ou explosion. Les articles inflammables réfrigérants utilisés. Consultez la spécification de réparation/le guide avant d'essayer de utiliser ce produit. Toutes les précautions en sécurité doivent être respectées.

2. The below marking shall be provided on the exterior of the refrigerator:

CAUTION – Risk Of Fire Or Explosion. Dispose Of Property In Accordance With Federal Or Local Regulations. Flammable Refrigerant Used

Attention-rique de feu ou explosion. Détruire la propriété selon les réglementations fédérales ou locales. Les articles inflammables réfrigérants utilisés.

3. The below marking shall be provided near all exposed refrigerant tubing:

CAUTION – Risk Of Fire Or Explosion Due To Puncture Of Refrigerant Tubing; Follow Handling Instructions Carefully. Flammable Refrigerant Used

Attention-rique de feu ou explosion. Il faut crever le tuyau réfrigérant selon l'instruction d'opérations. Les articles inflammables réfrigérants utilisés.

4. For refrigeration tubing or other devices through which the refrigerant is intended to be serviced shall be painted, colored, or labeled red, Pantone® Matching System (PMS) No. 185. This color shall be present at all places where service puncturing or otherwise creating an opening in the refrigerant circuit might be expected. In the case of a process tube on a compressor, the color mark shall extend at least 2.5 cm (1 inch) from the compressor.

7.0 Illustrations

Illustration No. 3A - Marking Label of Flammable Refrigerant and Insulation Blowing Gas



French Translation of the marking - Avertissement: Risque d'incendie / de matériaux inflammables

Remark: This triangle is more than 15mm in height.

The marking of flammable refrigerant "R600a" and flammable insulation blowing gas "Cyclopentane", as well as the symbol "ISO 7010 W021" (Warning: Risk of fire / flammable materials), are visible when gaining access to the compressors. For example, they are placed above the compressor compartment at the rear side of appliances.

7.0 Illustrations

Illustration No. 4 - Pages of Instruction Manual for IMPORTANT SAFEGUARDS
(Remark: The manual of model JC-75ULK-F is selected as the representative.)

HICON®

Wine cooler **INSTRUCTION MANUAL** Model: **JC-75ULK-F**



To ensure proper use of this appliance and your safety, please read the following instructions completely before operating this appliance.

NINGBO HICON INTERNATIONAL INDUSTRY CO., LTD

7.0 Illustrations

Illustration No. 4A - Pages of Instruction Manual for IMPORTANT SAFEGUARDS (Continued)

PRODUCT FEATURE

- Transparent glass door, luxury out looking, elegant design, easy operating.
- Envelope with attracting black color.
- Low noise, high energy efficiency, updated quick cooling system.
- Plastic enveloped or chrome-plated wire rack shelves, sanitation, convenience.

BEFORE PUTTING INTO USE

- Before connecting the appliance to the power supply, let the unit stand upright for 4 hours, which will reduce the possibility of the cooling system malfunctioning due to improper handling.
- Clean your unit thoroughly before putting into use. (See "How to Clean")
- Use the parts diagram on page 4 to insure proper positioning of internal components.

TIPS FOR ENERGY SAVINGS

- Keep the unit doors closed as much as possible, particularly in warm / humid conditions.
- Maintain adequate ventilation around the back and sides of the unit.
- Allow warm wine bottle to cool to room temperature before placing in the unit.

IMPORTANT SAFETY INSTRUCTIONS

Before you use your refrigerator, please read this owner's manual carefully.

Use this appliance only for its intended purpose as described in this owner's manual.

-WARNING: This appliance is intended to be used in household and similar applications such as

- staff kitchen areas in shops, offices and other working environments;
- farm houses and by clients in hotels, motels and other residential type environments;
- bed and breakfast type environments;
- catering and similar non-retail applications.
- The appliance must be correctly installed and connected to the power supply in accordance with the installation instructions before it is used.. (See: "HOW TO INSTALL").
- The main power supply must be properly grounded.
- This refrigerator must be positioned so that the plug is accessible. Never unplug you unit often by pulling on the power cord. Always grasp the plug firmly and pull straight out from the outlet.
- Do not use an extension cord as this can negatively affect the performance of the unit. If you must use an extension cord, use 18AWG minimum size and rated no less than 1875 watts.
- When transporting the refrigerator, keep the unit in the upright position. Do not tilt the appliance beyond 45° or place the unit in upside down position. Do not tip over.
- Do not touch the cooled surfaces while the appliance operates, especially not with wet hands, because the skin may stick to the cold surfaces.
- It is recommended that the refrigerator is positioned away from any combustible sources such as gas, petrol, alcohol, lacquer and banana oil, etc. The aforementioned objects should not be stored in the refrigerator under any circumstances.
- If the unit fails to cool properly, dispose of spoiled food as needed.

7.0 Illustrations

Illustration No. 4B - Pages of Instruction Manual for IMPORTANT SAFEGUARDS (Continued)

- Unplug your unit before cleaning or before making any repairs. **NOTE:** *If for any reason this product requires service, we strongly recommend that a certified technician perform the service. Repairs made by non-qualified personnel will void the warranty.*
- Do not defrost the appliance with other electric devices (hair dryer etc.) and never scrape the ice or frost layer with sharp tools. Warning: Do not damage the refrigerant circuit.
- The rating plate is inside the appliance or outside on the rear or side wall.
- 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 a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
- Do not run cord over carpeting or other heat insulators. Do not cover the cord. Keep cord away from traffic areas, and do not submerge in water. If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard. Repair or replace immediately all electric service cords that have become frayed or otherwise damaged. Do not use a cord that shows cracks or abrasion damage along its length, the plug or the connector end.
- **WARNING:** Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.
- **WARNING:** Do not use mechanical device or other means to accelerate the defrosting process, other than those recommended by the manufacturer.
- **WARNING:** Do not damage the refrigerant circuit.
- **WARNING:** Do not use electrical appliances inside the food storage compartments of the appliance, unless they are of the type recommended by the manufacturer.
- Do not operate your refrigerator in the presence of explosive fumes.
- **WARNING--**Do not use the flame or catch the fire near the unit.
- **DANGER--**Risk of Fire or Explosion. **FLAMMABLE REFRIGERANT Used. Do Not Use Mechanical Device To Defrost Refrigerator. Do Not Puncture Refrigerant Tubing**
- **DANGER--**Risk of Fire or Explosion. **FLAMMABLE REFRIGERANT Used. To Be Repaired Only By Trained Service Personnel. Do Not Puncture Refrigerant Tubing.**
- **CAUTION –** Risk Of Fire Or Explosion. **FLAMMABLE REFRIGERANT Used. Consult Repair Manual/Owner's Guide Before Attempting To Service This Product. All Safety Precautions Must be Followed.**
- **CAUTION--**Risk of Fire or Explosion. **Dispose Of Property In Accordance With Federal Or Local Regulations. Flammable Refrigerant Used.**
- **CAUTION –** Risk Of Fire Or Explosion Due To Puncture Of Refrigerant Tubing; **Follow Handling Instructions Carefully. FLAMMABLE REFRIGERANT Used.**

8.0 Test Summary					
Evaluation Period	2018-09-04 to 2018-11-30		Project No.	180900210SHA	
Sample Rec. Date	13-Sep-2017	Condition	Prototype	Sample ID.	0180913-37-002
Test Location	Intertek Testing Services Shanghai Limited Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, P. R. China				
Test Procedure	Testing Lab				
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.					
The following tests were performed:					
Test Description			UL 60335-2-24:2017 Ed.2+R:27Feb2020& UL 60335-1:2016 Ed.6& CSA C22.2#60335-2-24:2017 Ed.2+U1;U2& CSA C22.2#60335-1:2016 Ed.2		
			Clause		
Marking and Instruction			7		
Protection against access to live parts			8		
Power input and current			10		
Heating			11		
Leakage current and electric strength at operating temperature			13		
Moisture resistance			15		
Leakage current and electric strength			16		
Overload protection of transformer and associated circuits			17		
Abnormal operation			19		
Stability and mechanical hazards			20		
Mechanical strength			21		
Construction			22		
Internal wiring			23		
Components			24		
Supply connection and external flexible cords			25		
Terminals for external conductors			26		
Provision for earthing			27		
Screws and connections			28		
Creepage distance, clearances and distances through insulation			29		
Resistance to heat and fire			30		
Test Description			UL 1310:2011 Ed.6 +R:01Feb2017		CSA C22.2#223:2015 Ed.3
			Clause		Clause
Maximum Output Voltage Test			28		6.2.1
Output Current and Power Test			30		6.2.4
Dielectric Voltage Withstand Test			34		6.4
Transformer burnout			39.4		-
Component Breakdown			39.7		6.7
Tests on Insulation Materials			40		6.13

8.0 Test Summary					
Evaluation Period	2019-05-20 to 2019-07-09		Project No.	190502043SHA	
Sample Rec. Date	20-May-2019	Condition	Prototype	Sample ID.	0190520-36-002
Test Location	Intertek Testing Services Shanghai Limited / Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, P. R. China				
Test Procedure	Testing Lab				
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.					
The following tests were performed:					
Test Description	UL 60335-2-24:2017 Ed.2 & UL 60335-1:2016 Ed.6 & CSA C22.2#60335-2-24:2017 Ed.2 & CSA C22.2#60335-1:2016 Ed.2 Clause				
Marking and Instruction	7				
Protection against access to live parts	8				
Power input and current	10				
Heating	11				
Leakage current and electric strength at operating temperature	13				
Moisture resistance	15				
Leakage current and electric strength	16				
Overload protection of transformer and associated circuits	17				
Abnormal operation	19				
Stability and mechanical hazards	20				
Mechanical strength	21				
Construction	22				
Internal wiring	23				
Components	24				
Supply connection and external flexible cords	25				
Terminals for external conductors	26				
Provision for earthing	27				
Screws and connections	28				
Creepage distance, clearances and distances through insulation	29				
Resistance to heat and fire	30				
Test Description	UL 1310:2011 Ed.6 +R:01Feb2017 Clause		CSA C22.2#223:2015 Ed.3 Clause		
Maximum Output Voltage Test	28		6.2.1		
Output Current and Power Test	30		6.2.4		
Dielectric Voltage Withstand Test	34		6.4		
Transformer burnout	39.4		-		
Component Breakdown	39.7		6.7		
Tests on Insulation Materials	40		6.13		

8.0 Test Summary					
Evaluation Period	2020-06-22 to 2020-06-30		Project No.	200602018SHA	
Sample Rec. Date	19-Jun-2020	Condition	Prototype	Sample ID.	0200619-32
Test Location	Intertek Testing Services Shanghai Limited / Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, P. R. China				
Test Procedure	Testing Lab				
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.					
The following tests (clauses 10.2, 11.8, 13.2, 13.3, 15.3, 16.2, 16.3, 19.11, 22.107-22.109) were performed on new model JC-90VEL-F:					
Test Description		UL 60335-2-24:2017 Ed.2+R:22May2019 & UL 60335-1:2016 Ed.6 & CSA C22.2#60335-2-24:2017 Ed.2+U1 & CSA C22.2#60335-1:2016 Ed.2 Clause			
Protection against access to live parts		8			
Power input and current		10			
Heating		11			
Leakage current and electric strength at operating temperature		13			
Moisture resistance		15			
Leakage current and electric strength		16			
Abnormal operation		19			
Construction		22			
Components		24			
Creepage distance, clearances and distances through insulation		29			
Test Description		UL 1310:2018 Ed.7+R:16Aug2019 Clause	CSA C22.2#223:2015 Ed.3 Clause		
Maximum Output Voltage Test		28	6.2.1		
Output Current and Power Test		30	6.2.4		
Dielectric Voltage Withstand Test		34	6.4		
Transformer burnout		39.4	-		
Component Breakdown		39.7	6.7		
Tests on Insulation Materials		40	6.13		

8.0 Test Summary					
Evaluation Period	2020-09-28 to 2020-10-15		Project No.	201000398SHA	
Sample Rec. Date	27-Sep-2020	Condition	Prototype	Sample ID.	0200927-48
Test Location	Intertek Testing Services Shanghai Limited / Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, P. R. China				
Test Procedure	Testing Lab				
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.					
The following tests were performed on new model JC-75VEX-F and JC-128VEL-F:					
Test Description		UL 60335-2-24:2017 Ed.2+R:22May2019 & UL 60335-1:2016 Ed.6 & CSA C22.2#60335-2-24:2017 Ed.2+U1 & CSA C22.2#60335-1:2016 Ed.2 Clause			
Protection against access to live parts		8			
Power input and current		10			
Heating		11			
Leakage current and electric strength at operating temperature		13			
Moisture resistance		15			
Leakage current and electric strength		16			
Abnormal operation		19			
Construction		22			
Components		24			
Creepage distance, clearances and distances through		29			
Test Description		UL 1310:2018 Ed.7+R:16Aug2019 Clause		CSA C22.2#223:2015 Ed.3 Clause	
Maximum Output Voltage Test		28		6.3.1	
Output Current and Power Test		30		6.3.4	
Dielectric Voltage Withstand Test		34.1		6.5	
Abnormal: Transformer burnout		39.4		-	
Abnormal: Component break down		39.7		-	
Tests on Insulating Materials		40		4.9	

8.0 Test Summary					
Evaluation Period	2021-09-15 to 2021-09-26		Project No.	210900930SHA	
Sample Rec. Date	15-Sep-2021	Condition	Prototype	Sample ID.	0210915-35
Test Location	Intertek Testing Services Shanghai Limited Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, P. R. China				
Test Procedure	Testing Lab				
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.					
The following tests were performed:					
Test Description	UL 60335-2-24:2017 Ed.2+R:22May2019 & UL 60335-1:2016 Ed.6 & CSA C22.2#60335-2-24:2017 Ed.2+U1 & CSA C22.2#60335-1:2016 Ed.2 Clause				
Protection against access to live parts	8				
Power input and current	10				
Heating	11				
Leakage current and electric strength at operating temperature	13				
Moisture resistance	15				
Leakage current and electric strength	16				
Stability and mechanical hazards	20				
Mechanical strength	21				
Construction	22				
Components	24				
Provision for earthing	27				
Screws and connections	28				
Creepage distance, clearances and distances through insulation	29				
Evaluation Period	2021-11-10 to 2021-11-19		Project No.	211102632SHA	
Sample Rec. Date	8-Nov-2021	Condition	Prototype	Sample ID.	0211108-23
Test Location	Intertek Testing Services Shanghai Limited Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, P. R. China				
Test Procedure	Testing Lab				
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.					
The following tests were performed on model JC-128UEX-F with new compressor TK48C5:					
Test Description	UL 60335-2-24:2017 Ed.2+R:22May2019 & UL 60335-1:2016 Ed.6 & CSA C22.2#60335-2-24:2017 Ed.2+U1 & CSA C22.2#60335-1:2016 Ed.2 Clause				
Power input and current	10				
Heating	11				
Leakage current and electric strength at operating temperature	13				
Moisture resistance	15				
Leakage current and electric strength	16				
Construction	22				

8.0 Test Summary					
Evaluation Period	2022-05-09 to 2022-05-13		Project No.	220500383SHA	
Sample Rec. Date	7-May-2022	Condition	Prototype	Sample ID.	0220507-23
Test Location	Intertek Testing Services Shanghai Limited Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, P. R. China				
Test Procedure	Testing Lab				
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.					
The following tests were performed on new model JC-70UEX-F with compressor DG40BY1A and alternative new main control PWB, model JC-90VEL-F with compressor QD43Y11G and alternative new main control PWB, JC-128UEL-F & JC-128VEL-F with compressor TK48C5 and alternative new main control PWB:					
Test Description	UL 60335-2-24:2017 Ed.2+R:27Feb2020 & UL 60335-1:2016 Ed.6 & CSA C22.2#60335-2-24:2017 Ed.2+U1 & CSA C22.2#60335-1:2016 Ed.2 Clause				
Power input and current	10				
Heating	11				
Leakage current and electric strength at operating	13				
Moisture resistance	15				
Leakage current and electric strength	16				
Abnormal operation	19				
Construction	22				
Creepage distance, clearances and distances through insulation	29				
Evaluation Period	2022-11-15 to 2022-11-30		Project No.	221200004SHA	
Sample Rec. Date	14-Nov-2022	Condition	Prototype	Sample ID.	0221114-23
Test Location	Intertek Testing Services Shanghai Limited Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, P. R. China				
Test Procedure	Testing Lab				
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.					
The following tests were performed on model JC-75UEX-F with compressor L35C5L, model JC-90UEL-F with compressor L35C5L, model JC-48VEL-F with compressor QD35C5:					
Test Description	UL 60335-2-24:2017 Ed.2+R:27Feb2020 & UL 60335-1:2016 Ed.6 & CSA C22.2#60335-2-24:2017 Ed.2+U1 & CSA C22.2#60335-1:2016 Ed.2 Clause				
Power input and current	10				
Heating	11				
Leakage current and electric strength at operating temperature	13				
Moisture resistance	15				
Leakage current and electric strength	16				
Abnormal operation	19				
Construction	22				
Creepage distance, clearances and distances through insulation	29				

8.0 Test Summary					
Evaluation Period	2023-03-06 to 2023-03-14		Project No.	230300395SHA	
Sample Rec. Date	6-Mar-2023	Condition	Prototype	Sample ID.	0230306-25
Test Location	Intertek Testing Services Shanghai Limited Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, P. R. China				
Test Procedure	Testing Lab				
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.					
The following tests were performed on model JC-36-F:					
Test Description	UL 60335-2-24:2017 Ed.2+R:27Feb2020 & UL 60335-1:2016 Ed.6 & CSA C22.2#60335-2-24:2017 Ed.2+U1 & CSA C22.2#60335-1:2016 Ed.2 Clause				
Power input and current	10				
Heating	11				
Leakage current and electric strength at operating temperature	13				
Moisture resistance	15				
Leakage current and electric strength	16				
Abnormal operation	19				
Construction	22				
Creepage distance, clearances and distances through insulation	29				
Test Description	UL 1310:2018 Ed.7+R:16Aug2019 Clause		CSA C22.2#223:2015 Ed.3 Clause		
Maximum Output Voltage Test	28		6.3.1		
Output Current and Power Test	30		6.3.4		
Dielectric Voltage Withstand Test	34.1		6.5		
Abnormal: Transformer burnout	39.4		-		
Abnormal: Component break down	39.7		-		
Tests on Insulating Materials	40		4.9		

8.0 Test Summary					
Evaluation Period	2023-07-17 to 2023-07-31		Project No.	2307A0957SHA	
Sample Rec. Date	17-Jul-2023	Condition	Prototype	Sample ID.	0230717-43
Test Location	Intertek Testing Services Shanghai Limited Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, P. R. China				
Test Procedure	Testing Lab				
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.					
The following tests were performed on model JC-90VEL-F with new compressor UKN43YA and PC-75E-F:					
Test Description	UL 60335-2-24:2017 Ed.2+R:27Feb2020 & UL 60335-1:2016 Ed.6 & CSA C22.2#60335-2-24:2017 Ed.2+U1 & CSA C22.2#60335-1:2016 Ed.2 Clause				
Power input and current	10				
Heating	11				
Leakage current and electric strength at operating temperature	13				
Moisture resistance	15				
Leakage current and electric strength	16				
Abnormal operation	19				

Evaluation Period	2024-04-17 to 2024-04-26		Project No.	2404B1934SHA	
Sample Rec. Date	15-Apr-2024	Condition	Prototype	Sample ID.	0240415-19
Test Location	Intertek Testing Services Shanghai Limited Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, P. R. China				
Test Procedure	Testing Lab				
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.					
The following tests were performed on model JC-18-F with new compressor UKN22YA:					
Test Description	UL 60335-2-24:2017 Ed.2+R:27Feb2020 & UL 60335-1:2016 Ed.6 & CSA C22.2#60335-2-24:2017 Ed.2+U1;U2 & CSA C22.2#60335-1:2016 Ed.2 Clause				
Power input and current	10				
Heating	11				
Leakage current and electric strength at operating temperature	13				
Moisture resistance	15				
Leakage current and electric strength	16				
Abnormal operation	19				

8.0 Test Summary			
Evaluation Period	2024-08-19 to 2024-08-30		Project No. 2409B0158SHA
Sample Rec. Date	15-Aug-2024	Condition	Prototype
Sample ID	A240815-13		
Test Location	Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, P. R. China		
Test Procedure	Testing Lab		
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria. The following tests were performed on model JC-18UEL-F with compressor UKN22YA and JC-90UEXL-F with compressor MD058YA:			
Test Description	UL 60335-2-24:2017 Ed.2+R:27Feb2020 & UL 60335-1:2016 Ed.6 & CSA C22.2#60335-2-24:2017 Ed.2+U1;U2 & CSA C22.2#60335-1:2016 Ed.2 Clause		
Power input and current	10		
Heating	11		
Leakage current and electric strength at operating temperature	13		
Moisture resistance	15		
Leakage current and electric strength	16		
Abnormal operation	19		
8.1 Signatures			
A representative sample of the product covered by this report has been evaluated and found to comply with the applicable requirements of the standards indicated in Section 1.0.			
Completed by:	Jesse Jin	Reviewed by:	Kent Zhang
Title:	Project Engineer	Title:	Mandated Reviewer
Signature:	Signature on file	Signature:	Signature on file

9.0 Correlation Page For Multiple Listings

The following products, which are identical to those identified in this report except for model number and Listee name, are authorized to bear the ETL label under provisions of the Intertek Multiple Listing Program.

BASIC LISTEE	Ningbo Hicon Industry Technology Co., Ltd.
Address	No.55, 4th Binhai Road, Qianwan New Area, Ningbo, Zhejiang Province
Country	P. R. China
Product	Refrigerator (Party Cooler, Wine Cooler & Beverage Center)

MULTIPLE LISTEE 1	Curtis International Ltd.
Address	7045 Beckett Drive, Unit 15, Mississauga, Ontario, L5S 2A3,
Country	Canada
Brand Name	IGLOO, RCA, FRIGIDAIRE, BUDWEISER, Hamilton Beach, CRITERION

ASSOCIATED MANUFACTURER	All manufacturers shown in Section 1.0
Address	
Country	

MULTIPLE LISTEE 1 MODELS	BASIC LISTEE MODELS
MIS155, MIS1530, MIS1530-EO, RMIS1530 EFRP245, EFRP245_HD EFMIS155_SM, EFMIS155, EFMIS155-6COM, EFMIS155-followed by up to fifteen letters, HBWF4303, HBWF4303-6COM, HBWF4303-followed by up to fifteen letters, EFMIS168, EFMIS168-6COM, EFMIS168-followed by up to fifteen letters FRP246-BUD HBWF2500, HBWF2500-6COM, CFMIS9000, EFMIS9000, EFMIS9000-6COM, EFMIS9000-HD, EFMIS9000-followed by up to fifteen letters, EFMIS8825-6COM, EFMIS8825-followed by up to fifteen letters, HBWF2500_AMZ, HBWF2500-followed by up to fifteen letters EFMIS2415, EFMIS2415-followed by up to fifteen letters EFMIS164-CU, EFMIS164-COM, EFMIS164_QVC, EFMIS164-AMZ-COM, EFMIS164-6COM, EFMIS164-followed by up to fifteen letters	JC-128UEX-F PC-50E-F JC-128VEL-F PC-50A-F JC-70UEL-F JC-90VEL-F JC-46-F

9.0 Correlation Page For Multiple Listings

MULTIPLE LISTEE 2	GE Appliances, a Haier Company	
Address	4000 Buechel Bank Rd. Appliance Park, Louisville, KY 40225	
Country	USA	
Brand Name	Haier	
ASSOCIATED MANUFACTURER	All manufacturers shown in Section 1.0	
Address		
Country		
MULTIPLE LISTEE 2 MODELS		BASIC LISTEE MODELS
HEBF100 may be followed by one alphanumerical character		JC-128ULK-F

9.0 Correlation Page For Multiple Listings

MULTIPLE LISTEE 3	W APPLIANCE Co.,LLC	
Address	1356 BROADWAY, NEW YORK, NY 10018	
Country	USA	
Brand Name	BLACK&DECKER	
ASSOCIATED MANUFACTURER	All manufacturers shown in Section 1.0	
Address		
Country		
MULTIPLE LISTEE 3 MODELS		BASIC LISTEE MODELS
BD6152*		JC-75UEX-F
BD61526, BDB16HS		JC-46-F
BDB26HB		JC-75VEX-F
BD61536		JC-90UEL-F
BDB31HS		JC-90VEL-F

Note: "*" represents a different packaging usually ending in number 6.

9.0 Correlation Page For Multiple Listings

MULTIPLE LISTEE 4	BEACH TRADING COMPANY INC.	
Address	80 CARTER DRIVE, EDISON, NJ 08817	
Country	USA	
Brand Name	DECO CHEF	
ASSOCIATED MANUFACTURER	All manufacturers shown in Section 1.0	
Address		
Country		
MULTIPLE LISTEE 4 MODELS		BASIC LISTEE MODELS
DGMFB100		JC-90VEL-F

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9.0 Correlation Page For Multiple Listings	
MULTIPLE LISTEE 7	MC APPLIANCE CORP
Address	940 N. Central Ave. Wood Dale, IL 60191
Country	USA
Brand Name	Vissani
ASSOCIATED MANUFACTURER	All manufacturers shown in Section 1.0
Address	
Country	
MULTIPLE LISTEE 7 MODELS	BASIC LISTEE MODELS
HVBC430ST, HVBC430STF	JC-128VEL-F

9.0 Correlation Page For Multiple Listings	
MULTIPLE LISTEE 8	NEKTECK INC
Address	421 S BROOKHURST ST SUITE #127 ANAHEIM,CA 92804 0000
Country	USA
Brand Name	CROWNFUL
ASSOCIATED MANUFACTURER	All manufacturers shown in Section 1.0
Address	
Country	
MULTIPLE LISTEE 8 MODELS	BASIC LISTEE MODELS
JC-90VEL-F	JC-90VEL-F

9.0 Correlation Page For Multiple Listings	
MULTIPLE LISTEE 9	SeaLoon International Group (HongKong) Limited
Address	Unit 2601-05, 26/F, Delta House, No.3 On Yiu Street, Shatin, NT, HONG KONG 999077
Country	P.R.China
Brand Name	Silonn
ASSOCIATED MANUFACTURER	All manufacturers shown in Section 1.0
Address	
Country	
MULTIPLE LISTEE 9 MODELS	BASIC LISTEE MODELS
SLRC03, SLRC03S1, SLRC03B, SLRC03G, SLRC03C, SLRC03T, SLRC03T1	JC-75VEX-F
SLRC04, SLRC04S1, SLRC04B, SLRC04G, SLRC04C, SLRC04T, SLRC04T1	JC-90VEL-F
SLRC05, SLRC05S1, SLRC05B, SLRC05G, SLRC05C, SLRC05T, SLRC05T1	JC-128VEX-F
SLRC02S1	JC-46UEL-F

9.0 Correlation Page For Multiple Listings	
MULTIPLE LISTEE 10	Ningbo Hoome Information Technology Co., Ltd.
Address	Room 602-2, Building 1-2, Qianyang Star Plaza, No. 996, Changxing Road, Jiangbei District, Ningbo, Zhejiang 315336
Country	P.R.China
Brand Name	EUHOMY, ICYGLEE, SIMZLIFE
ASSOCIATED MANUFACTURER	All manufacturers shown in Section 1.0
Address	
Country	
MULTIPLE LISTEE 10 MODELS	BASIC LISTEE MODELS
BR-110, BR-110H, BR-110-HM, BR-110H-HM, BR-110-AZ-HM, ZX-BR-110-AZ-HM, BR-110-TK-HM, ZX-BR-110-TK-HM, BR-110-WM-HM, ZX-BR-110-WM-HM, BR-110-HZ-HM, ZX-BR-110-HZ-HM, BR-110H-AZ-HM, ZX-BR-110H-AZ-HM, BR-110H-TK-HM, ZX-BR-110H-TK-HM, BR-110H-WM-HM, ZX-BR-110H-WM-HM, BR-110H-HZ-HM, ZX-BR-110H-HZ-HM, BR001-110, BR-110P	JC-90VEL-F
BR-75, BR-75H, BR-75-HM, BR-75H-HM	JC-75VEL-F
BR-55H, BR-55H-AZ-HM, ZX-BR-55H-AZ-HM, BR-55H-WM-HM, ZX-BR-55H-WM-HM, BR-55H-TK-HM, ZX-BR-55H-TK-HM, BR-55H-HZ-HM, ZX-BR-55H-HZ-HM	JC-36-F
BR-145, BR001-145	JC-128VEL-F
BR-55H, BR001-55	JC-36UEL-F
BR-95H, BR001-95	JC-70UEL-F
WC-145, FWC002-20	JC-128VEX-F
WC-6B, FWC001-11	JC-18-F

9.0 Correlation Page For Multiple Listings	
MULTIPLE LISTEE 11	Shenzhen Foduosi Trading Co., Ltd.
Address	1403, Block 4, Haixuan Plaza, No.89 Jinlong Road, Luogang Community, Buji Street, Longgang District, Shenzhen
Country	P.R.China
Brand Name	FOHERE
ASSOCIATED MANUFACTURER	All manufacturers shown in Section 1.0
Address	
Country	
MULTIPLE LISTEE 11 MODELS	BASIC LISTEE MODELS
JC-90VEL-F	JC-90VEL-F

9.0 Correlation Page For Multiple Listings	
MULTIPLE LISTEE 12	BUTLER SALES AND SERVICE, LLC
Address	2502 ADA DRIVE, ELKHART, INDIANA, 46514
Country	USA
Brand Name	ATTITUDE
ASSOCIATED MANUFACTURER	All manufacturers shown in Section 1.0
Address	
Country	
MULTIPLE LISTEE 12 MODELS	BASIC LISTEE MODELS
AT26GFB	JC-75UEX-F

9.0 Correlation Page For Multiple Listings	
MULTIPLE LISTEE 13	KARMAS FAR INC
Address	8668 HARVEST PL RANCHO CUCAMONGA CA 91730
Country	USA
Brand Name	E-MACHT
ASSOCIATED MANUFACTURER	All manufacturers shown in Section 1.0
Address	
Country	
MULTIPLE LISTEE 13 MODELS	BASIC LISTEE MODELS
ET99001	PC-50AE-F

9.0 Correlation Page For Multiple Listings	
MULTIPLE LISTEE 14	ERIVESS TRADING, INC.
Address	1560 DRUMHILL DR. HACIENDA HEIGHTS, CA 91745
Country	USA
Brand Name	ERIVESS
ASSOCIATED MANUFACTURER	All manufacturers shown in Section 1.0
Address	
Country	
MULTIPLE LISTEE 14 MODELS	BASIC LISTEE MODELS
NBYG-HA206*	JC-36UEL-F
NBYG-HA203*	JC-48UEL-F
NBYG-HA205*	JC-70UEL-F
NBYG-HA207*	JC-75VEL-F
NBYG-HA201*	JC-90VEL-F
NBYG-HA204*	JC-128VEL-F
NBYG-HA209*	JC-18-F

9.0 Correlation Page For Multiple Listings	
MULTIPLE LISTEE 15	Koolmore supply Inc
Address	1411 President Street Ste 3A 10018, Brooklyn NY 11213
Country	USA
Brand Name	KoolMore
ASSOCIATED MANUFACTURER	All manufacturers shown in Section 1.0
Address	
Country	
MULTIPLE LISTEE 15 MODELS	BASIC LISTEE MODELS
KM-BR32SS	JC-90VEL-F

9.0 Correlation Page For Multiple Listings	
MULTIPLE LISTEE 16	Essendant
Address	One Parkway N. Blvd. Deerfield, IL 60015
Country	USA
Brand Name	Alera
ASSOCIATED MANUFACTURER	All manufacturers shown in Section 1.0
Address	
Country	
MULTIPLE LISTEE 16 MODELS	BASIC LISTEE MODELS
ALERFBC34	JC-90VEL-F

9.0 Correlation Page For Multiple Listings	
MULTIPLE LISTEE 17	CICA HOMORE INC
Address	11190 White Birch Dr Suite 100, Rancho Cucamonga, CA 91730
Country	USA
Brand Name	E-MACHT
ASSOCIATED MANUFACTURER	All manufacturers shown in Section 1.0
Address	
Country	
MULTIPLE LISTEE 17 MODELS	BASIC LISTEE MODELS
ET99001	PC-50AE-F

10.0 General Information

The Applicant and Manufacturer have agreed to produce, test and label ETL Listed products in accordance with the requirements of this Report. The Manufacturer has also agreed to notify Intertek and to request authorization prior to using alternate parts, components or materials.

COMPONENTS

Components used shall be those itemized in this Intertek report covering the product, including any amendments and/or revisions.

LISTING MARK

The ETL Listing mark applied to the products shall either be separable in form, such as labels purchased from Intertek, or on a product nameplate or other media only as specifically authorized by Intertek. Use of the mark is subject to the control of Intertek.

The mark must include the following four items:

- 1) applicable country identifiers "US" and/or "C" or "US", "C" and "EU"
- 2) the word "Listed" or "Classified" or "Recognized Component" (whichever is appropriate)
- 3) a control number issued by Intertek
- 4) a product descriptor that identifies the standards used for certification. Example:

For US standards, the words, "Conforms to" shall appear with the standard number along with the word, "Standard" or "Std." Example: "Conforms to ANSI/UL Std. XX."

For Canadian standards, the words "Certified to CAN/CSA Standard CXX No. XX." shall be used, or abbreviated, "Cert. to CAN/CSA Std. CXX No. XX."

Can be used together when both standards are used.

If all standards on the ATM have the same standard title, the shared title or its abbreviation may be used in place of the examples above. Example: "Medical Electrical Equipment" or "MEE"; "Information Technology Equipment" or "ITE"; "Audio/Video Information And Communication Technology Equipment" or "A/V ICTE".

Note: A facsimile must be submitted to Intertek, Attn: Follow-up Services for approval prior to use.

The facsimile need not have a control number. A control number will be issued **after signed Certification Agreements** have been received by the Follow-up Services office, approval of the facsimile of your proposed Listing Mark, satisfactory completion of the Listing Report, and scheduling of a factory assessment in your facility.

MANUFACTURING AND PRODUCTION TESTS

Manufacturing and Production Tests shall be performed as required in this Report.

FOLLOW-UP SERVICE

Periodic unannounced audits of the manufacturing facility (and any locations authorized to apply the mark) shall be scheduled by Intertek. An audit report shall be issued after each visit. Special attention will be given to the following:

1. Conformance of the manufactured product to the descriptions in this Report.
2. Conformance of the use of the ETL mark with the requirements of this Report and the Certification Agreement.
3. Manufacturing changes.
4. Performance of specified Manufacturing and Production Tests.

In the event that the Intertek representative identifies non-conformance(s) to any provision of this Report, the Applicant shall take one or more of the following actions:

1. Correct the non-conformance.
2. Remove the ETL Mark from non-conforming product.
3. Contact the issuing product safety evaluation center for instructions.

10.0 General Information

10.1 Evaluation of Unlisted Components

Because Unlisted Components are uncontrolled, and they do not fall under a third party follow up program, Intertek may require these components to be tested and/or evaluated at least once annually, more often for certain components, as part of the independent certification process. The Unlisted Components in Section 5.0 require testing and/or evaluation as indicated.

The Applicant will be notified, in writing, via the applicable contact methods, as defined in Section 1.0, when these components must be selected and sent to Component Evaluation Center (CEC) for re-evaluation.

Due to particular testing requirements, some components may be requested to be shipped to specific labs. Thus, specific shipment destination(s) for each sample will be provided in the written notification.

Managing CEC Location:

Intertek Testing Services (Shanghai FTZ) Co., Ltd

ETL Component Evaluation Center

Building No. 86, 1198 Qinzhou Road (North)

Shanghai 200233, China

Attn: Ms. Emiliana Zhou

Sample Disposition: Due to the destructive nature of the testing, all samples will be discarded at the conclusion of testing unless, the manufacturer specifically requests the return of the samples. The request for return must accompany the initial component shipment.

11.0 Manufacturing and Production Tests

The manufacturer agrees to conduct the following Manufacturing and Production Tests as specified:

Required Tests

Dielectric Voltage Withstand Test
Grounding Continuity Test
Refrigerant Leakage Tests
Functional Test

11.1 Dielectric Voltage Withstand Test

Method

One hundred percent of production of the products covered by this Report shall be subjected to a routine production line dielectric withstand test.

The test shall be conducted on products, which are fully assembled. Prior to applying the test potential, all switches, contactors, relays, etc., should be closed so that all primary circuits are energized by the test potential. If all primary circuits cannot be tested at one time, then separate applications of the test potential shall be made.

The test voltage specified below shall be applied between primary circuits and accessible dead-metal parts. The test voltage may be gradually increased to the specified value but must be maintained at the specified value for one second or one minute as required.

Test Equipment

The test equipment shall incorporate a transformer with an essentially sinusoidal output, a means to indicate the applied test potential, and an audible and/or visual indicator of dielectric breakdown.

The test equipment shall incorporate a voltmeter in the output circuit to indicate directly the applied test potential if the rated output of the test equipment is less than 500VA.

If the rated output of the test equipment is 500VA or more, the applied test potential may be indicated by either:

- 1 - a voltmeter in the primary circuit;
- 2 - a selector switch marked to indicate the test potential; or
- 3 - a marking in a readily visible location to indicate the test potential for test equipment having a single test potential output.

In cases 2 and 3, the test equipment shall include a lamp or other visual means to indicate that the test potential is present at the test equipment output. All test equipment shall be maintained in current calibration.

Products Requiring Dielectric Voltage Withstand Test:

<u>Product</u>	<u>Test Voltage</u>	<u>Test Time</u>
All models covered by this report		
Between live parts and accessible metal parts separated from live parts by:		
Basic insulation only	AC 1250V	60s
Double or reinforced insulation	AC 2500V	60s

11.0 Manufacturing and Production Tests

11.2 Grounding Continuity Test

Method

Each product listed below shall be subjected to a test to determine that there is continuity between accessible dead-metal parts of the product and the grounding pin or blade of the attachment plug.

If all accessible dead metal is connected, only a single test need be performed. A visual or audible device (ohmmeter, buzzer, etc.) may be used to indicate grounding continuity.

Products Requiring Grounding Continuity Test:

All products covered by this Report.

11.3 Functional Test

Method

The correct functioning of an appliance is checked by inspection or by an appropriate test if the incorrect connection or adjustment of components has safety implications.

Products Requiring Pressure Tests:

All products covered by this Report.

11.3 Refrigerant leakage test

Method

Each refrigerator that employs a FLAMMABLE REFRIGERANT shall be tested and proved tight at not less than the isaturation pressure of the refrigerant at the following temperatures:

- a) 20 °C (68 °F) for low sides; and
- b) 70 °C (158 °F) for high sides.

Products Requiring Pressure Tests for Leakage and Strength:

All products covered by this Report.

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
9-Jul-2019	Darren Zhao	2	Product name	Modifying the product name, from "Refrigerator (Wine Cooler & Beverage Center)" to "Refrigerator (Party Cooler, Wine Cooler & Beverage Center)".
190502043SHA	Kent Zhang	2	Description	Modifying the description with adding other alternative names of products.
		2	Models	Adding models including JC-128UEX-F, JC-128UEL-F, JC-128ULK-F, JC-90V-F and PC-50E-F, which were ever confirmed by Authorization to Mark for Report No. 130700009SHA-001 (R12) issued on 28-Nov-2018, fulfilling all applicable requirements of standards UL 250 and CSA C22.2 No. 63 issued on 1-Nov-1993 Rev. 22-Feb-2013. Nowadays the models are merged into this report No. 180900210SHA-001.
		2	Similarities	Merging similarities of models JC-128UEX-F, JC-128UEL-F, JC-128ULK-F, JC-90V-F and PC-50E-F into original contents of this report; Integrating and simplifying the detailed introduction.
		2	Rating	Adding charging information of refrigerant R600a for models JC-128UEX-F, JC-128UEL-F and JC-128ULK-F fitted with new alternative compressor; Integrating and simplifying the ratings of all models.
		3	All Photos	Merging photographs of models JC-128UEX-F, JC-128UEL-F, JC-128ULK-F, JC-90V-F and PC-50E-F stated in Report No. 130700009SHA-001 (R12) issued on 28-Nov-2018 into original contents of this report; Introducing new photograph of existing compressor L48C5L, with replacing the original one in Report No. 130700009SHA-001 (R12) issued on 28-Nov-2018; Reordering item numbers of all photographs.
		4	/	Merging critical components of models JC-128UEX-F, JC-128UEL-F, JC-128ULK-F, JC-90V-F and PC-50E-F stated in Report No. 130700009SHA-001 (R12) issued on 28-Nov-2018 into original contents of this report; Removing alternative compressor MV4711Y manufactured by ZHEJIANG LIYANG COMPRESSOR CO LTD originally assembled in models JC-128UEX-F, JC-128UEL-F and JC-128ULK-F; Reordering photo numbers and item numbers of all critical components.
		4	2, 2A	Correcting former typing errors of manufacturer name and type name of alternative supply cords, from "YUYAN ANLIAN ELECTRONICS SCIENCE & TECHNOLOGY CO LTD" to "YUYAO ANLIAN ELECTRONICS SCIENCE & TECHNOLOGY CO LTD", and from "SJT-3" to "SJT".
		4	9B	Modifying model name of alternative compressor manufactured by HUAYI COMPRESSOR (JINGZHOU) CO LTD, from "L48C5L" to "L48C5BL (L48C5L)", due to simple change that does not involve technical information.
		4	12	Modifying component name and descriptions of technical data, from "Liquid Container" to "Drain Tray"; and from "Thickness: Appr. 0.5mm" to "Thickness: Min. 0.4mm".
		4	15	Modifying component name, from "Switch" to "ON-OFF lamp rocker switch".

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
		6	9	Checking consistency of Items No. described in Section 4.0 and Illustrations No. described in Section 7.0 with modifying information, from “The products are marked on as labeling system as described in item no. 20 and 20A to 20G of Section 4.0 as follows: manufacturer's name, brand name, model number, manufacturing date, electrical ratings, referring to Illustration No. 1, 1A and 1B for details.” to “The products are marked on as labeling system as described in item no. 24 and 24A to 24G of Section 4.0 as follows: manufacturer's name, brand name, model number, manufacturing date, electrical ratings, referring to Illustration No. 1, 1A to 1F, 2 and 2A for details.”.
		6	10	Checking consistency of Illustrations No. described in Section 7.0 with modifying information, from “Refer to Illustration No. 2 for details.” to “Refer to Illustration No. 3 and 3A for details.”.
		6	11	Checking consistency of Illustrations No. described in Section 7.0 with modifying information, and Updating description of remark without changing its spirit of content, from “Refer to Illustration No. 3, 3A and 3B for IMPORTANT SAFEGUARDS pages of manual applying model JC-75ULK-F as representative. The whole content which consists of 10 pages per model has been checked while not be pasted here.” to “Refer to Illustration No. 4, 4A and 4B for IMPORTANT SAFEGUARDS of instruction manual used for model JC-75ULK-F as the representative. The whole contents of all models have been checked while not be pasted in this report.”.
		6	12	Adding model similarities for Multiple Listee No. 1, Curtis International Ltd.
		7	III. No. 1B to 1F	Updating description of remark under Illustrations No. 1A without changing its spirit of the content; Adding marking labels of models JC-128UEX-F, JC-128UEL-F, JC-128ULK-F, JC-90V-F and PC-50E-F for Basic Listee, Ningbo Hicon International Industry Co., Ltd.
		7	III. No. 2, 2A	Adding marking labels of models RMIS1530 and EFMIS155 as the representatives for Multiple Listee No. 1, Curtis International Ltd.
		7	III. No. 3, 3A	Modifying reference number of Cautionary Markings and Marking Label of Flammable Refrigerant and Insulation Blowing Gas, from original 2 to existing 3, and from original 3, 3A, 3B to existing 4, 4A, 4B.
		7	III. No. 4, 4A, 4B	Modifying Reference Numbers of Installation, Operating and Safety Instructions.
		8	Tests	Some necessary tests were performed.
		9	M/L No. 1	Adding Multiple Listee No. 1, Curtis International Ltd., with its models “MIS155”, “MIS1530”, “MIS1530-EO”, “EFRP245”, “RMIS1530” and “EFMIS155” corresponding to basic models “JC-128UEX-F”, “JC-128UEL-F”, “JC-128ULK-F”, “PC-50E-F”, “JC-128UEX-F” and “JC-128UEL-F” respectively.

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
		11	11.1	Correcting former typing errors of Dielectric Voltage Withstand Test: (1) for basic insulation only, from "AC 800V, 1s" to "AC 1250V, 60s"; (2) for double or reinforced insulation, from "AC 2000V, 1s" to "AC 2500V, 60s".
20-Sep-2019	Jesse Jin	6	12	Add description for M/L No. 2
190900492SHA	Kent Zhang	9	ML 2	Adding ML No. 2, GE Appliances, a Haier Company, with its model HEBF100 corresponding to basic model JC-128ULK-F.
13-May-2020	Jesse Jin	9	ML 3	Adding ML No. 3, W APPLIANCE Co.,LLC with its model BD6152* corresponding to basic model JC-75UEX-F.
200500928SHA	Kent Zhang			
6-Jul-2020	Jesse Jin	1	-	Update the UL standard from "UL 60335-2-24:2017 Ed.2" to "UL 60335-2-24:2017 Ed.2+R:22May2019". Update the CSA standard from "CSA C22.2#60335-2-24:2017 Ed.2" to "CSA C22.2#60335-2-24:2017 Ed.2+U1".
200602018SHA	Kent Zhang	2	-	Add new models JC-90VEL-F, JC-90VEX-F and its Model Similarity and Ratings.
		3	6a	Add photo for open door view of model JC-75ULK-F fitted with LED lamp with alternative electric box.
			12a	Add photo for open door view of model JC-128ULK-F with alternative electric box.
			14a	Add photo for open door view of model JC-90V-F with alternative electric box.
			13a,1 3b, 14b	Add general view photos for new models JC-90VEL-F, JC-90VEX-F.
			27a	Add photo for alternative LED lamp with cover.
			27b	Add photos for alternative PWB for LED lamp.
			27c	Add photo for Interior view of alternative electrical box.
			41, 42	Add photos for main control PWB of models JC-90VEX-F and JC-90VEL-F.
			43, 44	Add photos for electronic control panel PCB of models JC-90VEX-F and JC-90VEL-F.
		4	11	Correct the manufacturer from "SHENZHEN POWERYEAR TECHNOLOGY CO LTD" to "HONGKONG POWERYEAR TECHNOLOGY CO LTD".
			16	Add alternative Switching Transformer for Electrical Controller for model JC-90VEX-F, JC-90VEL-F.
		7	1G	Add markings for models JC-90VEL-F, JC-90VEX-F.
		8	-	Update the Test Summary.
15-Sep-2020	Magnus Chen/ Even Li	6	9	Checking consistency of Illustrations No. described in Section 7.0 with modifying information, from "referring to Illustration No. 1, 1A to 1G, 2 and 2A for details." to "referring to Illustration No. 1, 1A to 1G, 2, 2A and 2B for details."
200900919SHA	Kent Zhang	7	2B	Add Marking Label of Model DGMFB100 for Multiple Listee No. 4
		9	4	Add new Multiple Listee No. 4, BEACH TRADING COMPANY INC., with its models DGMFB100, of brand DECO CHEF, corresponding to basic models JC-90VEL-F.

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
19-Oct-2020	Magnus Chen/ Even Li	2	-	Add new models JC-75VEX-F, JC-75VEL-F, JC-128VEX-F, JC-128VEL-F and their Model Similarity and Ratings.
201000398SHA	Kent Zhang	3	1	Add similar model JC-75VEX-F to the description of photo.
			2	Add similar model JC-75VEX-F and JC-75VEL-F to the description of photo.
			3a	Add photo for Open door view of model JC-75VEX-F.
			4	Replace photo of open door view of model JC-75UEL-F, and add similar model JC-75VEL-F.
			5	Add similar model JC-75VEL-F to the description of photo.
			8	Add similar model JC-128VEX-F to the description of photo.
			8a	Add photo for External view of models JC-128UEL-F, JC-128VEL-F (Front side).
			9	Add similar model JC-128VEX-F and JC-128VEL-F to the description of photo.
			10	Add similar model JC-128VEL-F to the description of photo.
			10a	Add photo for Open door view of models JC-128UEX-F.
			10b	Add photo for Open door view of models JC-128VEX-F.
			10c	Add photo for Cooling Air Circulation Fan Assembly of models JC-75VEX-F, JC-75VEL-F, JC-128VEX-F, JC-128VEL-F.
			18	Add similar model JC-75VEX-F, JC-75VEL-F to the description of photo.
			18a	Add photo for General view of compressor of models JC-75UEX-F, JC-75UEL-F, JC-75ULK-F, JC-75VEX-F, JC-75VEL-F.
			19	Add similar model JC-128VEX-F, JC-128VEL-F to the description of photo.
			20	Add similar model JC-75VEX-F, JC-75VEL-F to the description of photo.
			28	Add similar model VEX, VEL to the description of photo.
			30	Add similar model JC-75VEX-F and JC-75VEL-F to the description of photo. And add "Note: The above photo only shows the representative mounting method of electrical box, the PWB may be different as described in section 5.0".
			45, 46	Add photos for Main control PWB of models JC-75VEX-F, JC-75VEL-F, JC-90VEX-F, JC-90VEL-F.
			47, 48	Add photos for Electronic controller of models JC-75VEX-F.
			49	Add photo for Electronic controller of models JC-128VEX-F, JC-128VEL-F.
			50, 51	Add photos for Main control PWB of models JC-128VEX-F, JC-128VEL-F.

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
		4	9, 14, 16, 17, 19, 20, 21, 22, 23	Add similar models of JC-75VEX-F, JC-75VEL-F, JC-128VEX-F, JC-128VEL-F to the description of technical data.
			9	Add alternative compressor of "DG40BY1A"
			16	Add alternative Switching Transformer for Electrical Controller of "WX-E19123"
			17	Add alternative Y capacitor of "AR" and "CT7".
			19	Add alternative VDR of "V-331K-10D".
			20	Add alternative Across-the-line Capacitor of "MPX" and "MKP".
			21	Add alternative fuse of "SGP".
			23	Add alternative PWB for High Voltage of "SY-S".
			26	Add component of Cooling Air Circulation Fan.
			1H	Add marking Label of Models JC-75VEX-F, JC-75VEL-F.
			1I	Add marking Label of Models JC-128VEX-F, JC-128VEL-F.
17-May-2021	Magnus Chen	2	-	Add brand name Antarctic Star, AGLUCKY, R.W.FLAME, Kismile.
210501324SHA	Kent Zhang	7	1,1A to 1I,2,2 A,2B	Delete ETL logo on marking label.
29-Jul-2021	Magnus Chen	6	13	Add description of Logo Dependent Marking.
210700206SHA	Kent Zhang	7	2C	Add marking label for M/L No.5.
		7	2D,2E	Add marking label for M/L No.6.
		7	2F	Add marking label for M/L No.7.
		7	2G	Add marking label for M/L No.8.
		9	5	Add M/L No.5 NINGBO HEYME INFORMATION TECHNOLOGY CO., LTD., with its model BR-115, BR-115A, BR-115B, BR-115-W, corresponding to basic models JC-90VEL-F, with brand E EUHOMY.
		9	6	Add M/L No. 6 CENTURY PRODUCTS INC., Brand "HBN" and "BN-LINK", with its models CP-JD39, CP-JD39A, CP-JD39B, CP-JD43, CP-JD43A, CP-JD43B, CP-JD44, CP-JD45, CP-JD44A, CP-JD46B, respectively corresponding to basic models JC-75UEX-F, JC-75UEL-F, JC-75ULK-F, JC-128UEX-F, JC-128UEL-F, JC-128ULK-F, JC-90V-F, PC-50E-F, JC-90VEL-F, JC-90VEX-F.
		9	7	Add M/L No.7 MC APPLIANCE CORP, with its model HVBC430ST, corresponding to basic model JC-128UEL-F, with brand Vissani.
		9	8	Add M/L No.8 NEKTECK INC, with its model JC-90VEL-F, corresponding to basic model JC-90VEL-F, with brand CROWNFUL.
3-Sep-2021	Richard Zheng/ Magnus Chen	6	12	Add M/L model similarities description for M/L No.1.
210900354SHA	Kent Zhang	9	ML1	Add new model "EFMIS155_SM" to M/L No.1 Curtis International Ltd., with brand FRIGIDAIRE, corresponding to basic model "JC-128UEL-F".

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
27-Sep-2021	Magnus Chen	2	/	Add new models PC-50AE-F, PC-50A-F, PC-30E-F, PC-30-F. Update their Model Similarity and Rating.
210900930SHA	Kent Zhang	3	10d	Add Alternative Cooling Air Circulation Fan Assembly with or without low voltage LED lamp of models JC-75VEX-F, JC-75VEL-F, JC-128VEX-F, JC-128VEL-F, JC-90V-F, JC-90VEL-F, JC-90VEX-F.
		3	10e	Add Alternative steel wire shelves for models JC-128ULK-F, JC-128UEX-F, JC-128VEX-F, JC-128VEL-F
		3	14c	Add Alternative Open door view of model JC-90V-F
		3	14d	Add Alternative Open door view of model JC-90VEL-F
		3	15a	Add External view of model PC-30E-F and PC-50AE-F
		3	15b	Add External view of model PC-30-F and PC-50A-F
		3	16a	Add Internal view of models PC-50AE-F, PC-50A-F, PC-30E-F, PC-30-F (Upside)
		3	17a	Add Internal view of models PC-50AE-F, PC-30E-F (Downside)
		3	17b	Add Internal view of models PC-50A-F, PC-30-F (Downside)
		3	19a	Add General view of alternative compressor QD43Y11G (assembled in models JC-90V-F, JC-90VEL-F, JC-90VEX-F)
		3	52, 53	Add photo of Main PWB with SMPS view of models PC-50AE-F, PC-30E-F
		3	54	Add photo of Electrical controller of models PC-30E-F and PC-50AE-F
		3	55	Add General view (bottom surface) of models PC-30E-F and PC-50AE-F
		3	56	Add General view (bottom surface) of models PC-30-F and PC-50A-F
		3	57	Add General view of compressor L35C5L
		4	4,5,6,7,9,16,17,18,19,20,21,22,23,25	Update applicable models and except models for new models PC-50E-F, PC-50AE-F, PC-50A-F, PC-30E-F, PC-30-F.
		4	6	Add alternative shelf material "steel wire chrome plated".
		4	9	Add alternative compressor QD43Y11G for models JC-90V-F, JC-90VEL-F, JC-90VEX-F
		4	26	Add alternative Cooling Air Circulation Fan PY-8025L12S for models JC-75VEX-F, JC-75VEL-F, JC-128VEX-F, JC-128VEL-F, JC-90V-F, JC-90VEL-F, JC-90VEX-F
		7	1J	Add Marking Label of Models PC-50AE-F, PC-50A-F
		7	1K	Add Marking Label of Models PC-30E-F, PC-30-F
		7	1L	Add Marking Label of Models JC-90V-F, JC-90VEL-F, JC-90VEX-F with compressor QD43Y11G
		8	/	Update the test summary.
12-Oct-2021	Richard Zheng/ Even Li	7	2F	Update the Marking Label for Multiple Listee No. 7
211000211SHA	Kent Zhang	9	ML7	Correct the basic model from JC-128UEL-F to JC-128VEL-F corresponding to multiple model HVBC 430ST.
23-Nov-2021	Jesse Jin	9	ML7	Add new model HVBC430STF for ML7, corresponding to basic model JC-128VEL-F.
211101048SHA	Kent Zhang			

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
6-Dec-2021	Jesse Jin	3	19b	Add photo for alternative compressor TK48C5.
211102632SHA	Kent Zhang	4	9	Add alternative compressor TK48C5, manufactured by JINGZHOU TIANKE REFRIGERATION CO LTD.
		8	-	Update the Test Summary.
18-May-2022	Jesse Jin	1	-	Update the lasted UL standard from "UL 60335-2-24:2017 Ed.2+R:22May2019" to "UL 60335-2-24:2017 Ed.2+R:27Feb2020".
220500383SHA	Kent Zhang	2	-	Add new models JC-70UEL-F, JC-70VEL-F, JC-70UEX-F, JC-70VEX-F and its ratings and Model Similarity.
		3	4a-4c	Add photos for JC-70UEL-F.
			58, 59	Add photo for alternative electric box.
			60-64	Add photos for alternative main control PWB and control panel PWB.
		4	21a	Add fuse for models JC-75ULK-F, JC-90V-F, JC-128ULK-F
			25	Add alternative Thermostat, model W-L series manufactured by Yuyao Mingtong Electric Appliance Co., LTD.
		8	-	Update the Test Summary.
28-Jul-2022	Jesse Jin	9	ML 9	Add new ML 9 SeaLoon International Group (HongKong) Limited with its brand name Silonn and models SLRC03, SLRC03S1, SLRC03B, SLRC03G, SLRC03C, SLRC03T, SLRC03T1, SLRC04, SLRC04S1, SLRC04B, SLRC04G, SLRC04C, SLRC04T, SLRC04T1, SLRC05, SLRC05S1, SLRC05B, SLRC05G, SLRC05C, SLRC05T, SLRC05T1, respectively corresponding to basic models JC-75VEX-F, JC-75VEX-F, JC-75VEX-F, JC-75VEX-F, JC-75VEX-F, JC-75VEX-F, JC-90VEL-F, JC-90VEL-F, JC-90VEL-F, JC-90VEL-F, JC-90VEL-F, JC-90VEL-F, JC-90VEL-F, JC-90VEL-F, JC-90VEL-F, JC-128VEX-F, JC-128VEX-F, JC-128VEX-F, JC-128VEX-F.
220702648SHA	Kent Zhang			
22-Sep-2022	Jesse Jin	9	ML 1	Add new models FRP246-BUD, EFMIS155-6COM for ML 1, respectively corresponding to basic models PC-50A-F, JC-128UEL-F. Add new brand name BUDWEISER.
220901690SHA	Kent Zhang			
1-Dec-2022	Jesse Jin	1	-	Modify the applicant and manufacturer's name and address from "Ningbo Hicon International Industry Co., Ltd." and "No.55, 4th Binhai Road, Hangzhou Bay New Zone, Ningbo, Zhejiang 315336" to "Ningbo Hicon Industry Technology Co., Ltd." and "No.55, 4th Binhai Road, Qianwan New Area, Ningbo, Zhejiang Province".
221200185SHA	Kent Zhang	9	ML1	Add new model EFRP245_HD for ML1, corresponding to basic model PC-50E-F.

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The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
5-Dec-2022	Jesse Jin	2	-	Add new models JC-90UEL-F, JC-90UEX-F, JC-90ULK-F, JC-46UEX-F, JC-46UEL-F, JC-46-F, JC-48UEX-F, JC-48UEL-F, JC-48-F, JC-48VEX-F, JC-48VEL-F with its Model Similarity and Ratings.
221200004SHA	Kent Zhang	3	13c, 14e	Add photos for model JC-90UEL-F.
			1a, 2a, 3b	Add photos for model JC-48UEL-F.
			5a, 5b, 7a, 7c	Add photos for model JC-46-F, JC-48-F.
			18b	Add photos for alternative compressor
		4	9	Add alternative compressor, model QD35C5 manufactured by JINGZHOU TIANKE REFRIGERATION CO LTD.
		7	1M	Add representative markings for new models.
		8	-	Update the test summary.
30-Jan-2023	Jesse Jin	9	ML 10	Add new ML 10 Ningbo Hoom Information Technology Co., Ltd. with its brand name EUHOMY and models BR-110, BR-110H, BR-110-HM, BR-110H-HM, BR-75, BR-75H, BR-75-HM, BR-75H-HM, respectively corresponding to basic models JC-90VEL-F, JC-90VEL-F, JC-90VEL-F, JC-90VEL-F, JC-75VEL-F, JC-75VEL-F, JC-75VEL-F, JC-75VEL-F.
230100946SHA	Kent Zhang			

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
10-Apr-2023	Jesse Jin	2	-	Add new model JC-36UEL-F, JC-36UEX-F, JC-36-F and its ratings and model similarity
230300395SHA	Kent Zhang	3	5c, 7d 7e	Add photos for new model JC-36-F.
			27c,2 7d	Add photos for alternative LED lamp.
			61a	Add photos for Alternative main control PWB of models JC-*UEL-F, JC-*UEX-F (*=36, 46, 48, 70, 75, 90, 128), PC-50E-F, PC-50AE-F, PC-30AE-F and JC-*VEL-F, JC-*VEX-F (*=46, 48, 70, 75, 90, 128)
			62a,6 3a,64 a	Add photos for Alternative control panel PWB.
		4	16	Add alternative Switching Transformer for Electrical Controller.
			17	Add alternative , Y capacitor, model F manufactured by Guangdong South Hongming Electronic Science & Technology Co., Ltd., model CD-series, CE-series manufactured by Shantou High-New Technology Development Zone Songtian Enterprise Co., Ltd., model CT81 series manufactured by Yinan Don's Electronic Component Co., Ltd., model HJ, HM manufactured by Xiamen Wanming Electronics Co., Ltd.
			19	Add alternative VDR, model (STE)10D331K, (STE)10D331K-H manufactured by Shantou High-New Technology Development. Zone Songtian Enterprise Co., Ltd., model TVR10331, TVR10331-B, TVR10331-V manufactured by Thinking Electronic Industrial Co.Ltd.
			20	Add alternative Across-the-line Capacitor, model CBB62 manufactured by Ningbo Jiangbei Zhenhua Electronic Co., Ltd., model MPR manufactured by Nistrionics (Jiangxi) Co.,Ltd., model MPX manufactured by Shantou High-New Technology Development Zone Songtian Enterprise Co., Ltd., model HQX manufactured by Ultra Tech Xiphi Enterprise Co., Ltd, model MPX manufactured by Dain Electronics Co., Ltd.
			21,21 a	Add alternative Fuse, model 392 manufactured by Littelfuse Inc., model 5ET, 5EF manufactured by Hollyland Co., Ltd.
			22	Add alternative Relay, mode; RD-112DM series manufactured by WangRong Electronics (Shenzhen) Co. Ltd., model MPA manufactured by Zhejiang MeiShuo Electric Technology Co Ltd.
			23	Add alternative PWB for High Voltage, model KB-5150 series, KB-6160 series, manufactured by KINGBOARD LAMINATES HOLDINGS LTD.
		7	1N	Add marking for new models.
		8	-	Update the test summary.
		9	ML1	Add new brand name "Hamilton Beach" for ML1. Add new models HBWF2500, HBWF2500-6COM for ML1, corresponding to basic model JC-70UEL-F.

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
9-Jun-2023	Jesse Jin	9	ML1	Add new brand name "CRITERION" for ML1. Add new models EFMIS9000, EFMIS9000-6COM, EFMIS9000-HD, EFMIS9000-followed by up to fifteen letters, HBWF4303-6COM, HBWF4303, HBWF4303-followed by up to fifteen letters, respectively corresponding to basic models JC-70UEL-F, JC-70UEL-F, JC-70UEL-F, JC-70UEL-F, JC-70UEL-F, JC-128UEL-F, JC-128UEL-F, JC-128UEL-F.
2306A0290SHA	Kent Zhang			
27-Jul-2023	Jesse Jin	9	ML11	Add new ML11 Shenzhen Foduosi Trading Co., Ltd. with its brand name FOHERE and its model JC-90VEL-F, corresponding to basic model JC-90VEL-F.
2307A0608SHA	Kent Zhang			
3-Aug-2023	Jesse Jin	2	-	Add new model PC-75E-F and its Model Similarity and Ratings. Add new compressor UKN43YA for JC-90V-F, JC-90VEL-F, JC-90VEX-F.
2307A0957SHA	Kent Zhang	3	15c,1 5d, 65, 66	Add photos for PC-75E-F.
			19c	Add photo for compressor UKN43YA.
		4	9	Add alternative compressor, model UKN43YA manufactured by Hangzhou Qianjiang Refrigeration Compressor Group Co Ltd.
		8	-	Update the test summary.
		9	ML12	Add new ML12 BUTLER SALES AND SERVICE, LLC with its brand name ATTITUDE and its model AT26GFB, corresponding to basic model JC-75UEX-F.
29-Aug-2023	Jesse Jin	9	ML13	Add new ML13 KARMAS FAR INC with its brand name E-MACHT, and its model ET99001, corresponding to basic model PC-50AE-F.
2308A0734SHA	Kent Zhang			
11-Sep-2023	Jesse Jin	9	ML1	Add new models EFMIS2415, EFMIS2415-followed by up to fifteen letters for ML1, corresponding to basic model JC-90VEL-F.
2309A0346SHA	Kent Zhang			
7-Oct-2023	Jesse Jin	9	ML9	Modify the address of ML9 from "LEVEL 54 HOPEWELL CTR 183 QUEEN'S RD EAST HONG KONG 999077" to "Unit 2601-05, 26/F, Delta House, No.3 On Yiu Street, Shatin, NT, HONG KONG 999077". Add new model SLRC02S1 for ML9, corresponding to basic model JC-46UEL-F.
2309A1644SHA	Kent Zhang			
24-Oct-2023	Jesse Jin	9	ML1	Add new models EFMIS164-CU, EFMIS164-COM, EFMIS164_QVC, EFMIS164-AMZ-COM, EFMIS164-6COM, EFMIS164-followed by up to fifteen letters for ML1, corresponding to basic model JC-46-F.
2310A0915SHA	Kent Zhang			
21-Nov-2023	Jesse Jin	9	ML1	Add new models EFMIS8825-6COM, EFMIS8825-followed by up to fifteen letters for ML1, corresponding to basic model JC-70UEL-F.
2311A1336SHA	Kent Zhang			
10-Jan-2024	Jesse Jin	9	ML3	Add new models BD61526, BDB16HS, BDB26HB, BD61536, BDB31HS for ML3, respectively corresponding to basic models JC-46-F, JC-46-F, JC-75VEX-F, JC-90UEL-F, JC-90VEL-F.
2401B0528SHA	Kent Zhang			

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
19-Jan-2024	Jesse Jin	9	ML14	Add new ML14 ERIVESS TRADING, INC. with its brand name ERIVESS and models NBYG-HA206*, NBYG-HA203*, NBYG-HA205*, NBYG-HA207*, NBYG-HA201*, NBYG-HA204*, respectively corresponding to basic models JC-36UEL-F, JC-48UEL-F, JC-70UEL-F, JC-75VEX-F, JC-90VEL-F, JC-128VEL-F.
2401B1118SHA	Kent Zhang			
22-Feb-2024	Lynn Zhou	7	Illustration No. 2D	Removed Marking Label for Multiple Listee No. 6
20240082CER	Hyden Li		Illustration No. 2E	Removed Marking Label for Multiple Listee No. 6
		9	6	Removed Multiple listee 6: "CENTURY PRODUCTS INC." with type: "CP-JD39 CP-JD39A CP-JD39B CP-JD43 CP-JD43A CP-JD43B CP-JD44 CP-JD45 CP-JD44A CP-JD46B" and brand name: "HBN, BN-LINK"
7-Apr-2024	Jesse Jin	9	ML10	Modify the address of ML10 from "2-1, No.247 Wangshan Road, Jiangbei District, Ningbo, Zhejiang 315336" to "Room 602-2, Building 1-2, Qianyang Star Plaza, No. 996, Changxing Road, Jiangbei District, Ningbo, Zhejiang 315336". Add new brand name ICYGLEE, SIMZLIFE. Add new models for ML10, BR-110-AZ-HM, ZX-BR-110-AZ-HM, BR-110-TK-HM, ZX-BR-110-TK-HM, BR-110-WM-HM, ZX-BR-110-WM-HM, BR-110-HZ-HM, ZX-BR-110-HZ-HM, BR-110H-AZ-HM, ZX-BR-110H-AZ-HM, BR-110H-TK-HM, ZX-BR-110H-TK-HM, BR-110H-WM-HM, ZX-BR-110H-WM-HM, BR-110H-HZ-HM, ZX-BR-110H-HZ-HM, corresponding to basic model JC-90VEL-F. Add new models BR-55H, BR-55H-AZ-HM, ZX-BR-55H-AZ-HM, BR-55H-WM-HM, ZX-BR-55H-WM-HM, BR-55H-TK-HM, ZX-BR-55H-TK-HM, BR-55H-HZ-HM, ZX-BR-55H-HZ-HM, corresponding to basic model JC-36-F.
2403B0014SHA	Kent Zhang			

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
15-May-2024	Jesse Jin	1	-	Update the CSA standard from "CSA C22.2#60335-2-24:2017 Ed.2+U1" to "CSA C22.2#60335-2-24:2017 Ed.2+U1;U2"
2404B1934SHA	Kent Zhang	2	-	Add new model JC-18-F and its model similarity and ratings.
		3	2.1-2.10	Add photos for new model JC-18-F.
		4	4a	Add door for JC-18-F.
		4	6a	Add Shelf Plate for JC-18-F.
		4	7	Add Evaporator for JC-18-F.
			8	Add Condenser for JC-18-F.
		4	9	Add alternative compressor, model UKN22YA manufactured by Hangzhou Qianjiang Refrigeration Compressor Group Co Ltd.
		7	1O,1P	Add new marking labels.
		8	-	Update the test summary.
		9	ML14	Add new model NBYG-HA209* for ML14, corresponding to basic model JC-18-F.
		9	ML15	Add new ML15 Koolmore supply Inc and its brand name KoolMore, with its model KM-BR32SS, corresponding to basic model JC-90VEL-F.
22-Jul-2024	Jesse Jin	2	-	Add new brand name Kndko, Joy Pebble, COWSAR, Free Village
2407B1889SHA	Kent Zhang	9	ML16	Add new ML16 Essendant and its brand name Alera, with its model ALERFBC34, corresponding to basic model JC-90VEL-F.
		9	ML17	Add new ML17 CICA HOMORE INC with its brand name E-MACHT, and its model ET99001, corresponding to basic model PC-50AE-F.
3-Sep-2024	Jesse Jin	2	-	Add new brand name ZAFRO, WAA.
2409B0158SHA	Kent Zhang	2	-	Add new models JC-18UEL-F, JC-18UEX-F and its ratings and model similarity.
		3	2.8a-2.8e, 2.11	Add photos for new models.
		3	18d	Add photos for compressor MD058YA.
		4	9	Add alternative compressor MD058YA.
		7	1-1O, 2-2G	Delete Markings.
		8	-	Update the test summary.
		9	ML1	Add new models HBWF2500_AMZ, HBWF2500-followed by up to fifteen letters for ML1, corresponding to basic model JC-70UEL-F.
22-Oct-2024	Jesse Jin	9	ML1	Add new models for ML1, EFMIS168, EFMIS168-6COM, EFMIS168-followed by up to fifteen letters corresponding to basic model JC-128VEL-F; Modify the models EFMIS155_SM, EFMIS155, EFMIS155-6COM, EFMIS155-followed by up to fifteen letters, HBWF4303, HBWF4303-6COM, HBWF4303-followed by up to fifteen letters, from "corresponding to basic model JC-128UEL-F" to "corresponding to basic model JC-128VEL-F".
2410B0492SHA	Kent Zhang	9	ML5	Delete ML5 NINGBO HEYME INFORMATION TECHNOLOGY CO., LTD. and its brand name E EUHOMY, with its models BR-115, BR-115A, BR-115B, BR-115-W.

12.0 Revision Summary

The following changes are in compliance with the declaration of Section 8.1:

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