

1.0 Reference and Address			
Report Number	SH10011256-001	Original Issued: 8-Feb-2010	Revised: 23-Oct-2025
Standard(s)	Household and Similar Electrical Appliances - Safety - Part 2-24: Particular Requirements for Refrigerating Appliances, Ice-Cream Appliances and Ice-Makers [UL 60335-2-24:2022 Ed.3+R:29Feb2024] Household And Similar Electrical Appliances, Part 1: General Requirements [UL 60335-1:2016 Ed.6] Household and Similar Electrical Appliances - Safety - Part 2-24: Particular Requirements for Refrigerating Appliances, Ice-Cream Appliances and Ice-Makers [CSA C22.2#60335-2-24:2022 Ed.3+U1] 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	Ice Maker
Brand name	HICON, Antarctic Star, AGLUCKY, R.W.FLAME, Free Village, Kismile, Kndko, Joy Pebble, COWSAR, KISSAIR, Electactic, ZAFRO, WAA, Auseo
Description	The products covered by this report are Ice Makers for household use. They are cord-connected type with a recognized mold-on grounding plug and intended to be connected to 115V, 60Hz.
Models	HZB-12E, HZB-12EH, HZB-30D, HZB-20N, HZB-20AN, HZB-20BN, HZB-20CN, HZB-12N, HZB-15N, HZB-15NG, HZB-15NG/S, HZB-15NH, HZB-15NH/S, HZB-15DN, HZB-12NA, HZB-15NA, HZB-12NB, HZB-15NB, HZB-12N/S, HZB-15N/S, HZB-12NA/S, HZB-15NA/S, HZB-12NB/S, HZB-15NB/S, HZB-15NF, HZB-20DN, HZB-25DN, HZB-15EN, HZB-20EN, HZB-15EN-W, HZB-15N-W, HZB-15N/S-W, HZB-15NA-W, HZB-15NA/S-W, HZB-15NB-W, HZB-15NB/S-W, HZB-15NF-W, HZB-20EN-W, HZBY-12, HZB-15NG-W, HZB-15NG/S-W, HZB-15NH-W, HZB-15NH/S-W, HZB-15DN-W
Model Similarity	Model HZB-12E and HZB-12EH share similar construction and same compressor except for water adding method. Model HZB-12E need to add water manually, and HZB-12EH is connected to the water mains. Model HZB-30D share the similar construction with model HZB-12EH, except that HZB-30D has bigger appearance shape and size. Models HZB-20AN are same with HZB-20N respectively, except the outer apperance. Model HZB-20BN share the similar construction with model HZB-20N, except the outer appearance and the compressor. Model HZB-20CN is entended from HZB-20N, they share the similar construction and different appearance. Models HZB-*N, HZB-*NA, HZB-*NB, HZB-*N/S, HZB-*NA/S, HZB-*NB/S (*=12,15) share the same electrical construction, except the difference appearance and ice making capacity. Models with "/S" have a stainless steel enclosure and models without "/S" have a plastic enclosure. Models follow by suffix "-W" means the unit add wifi module. Model HZB-20DN, HZB-25DN are extended from models HZB-*N (*=20,25) with different appearance and functions. Model HZB-15EN, HZB-15NF are extended from model HZB-15N, model HZB-20EN are extended from model HZB-20BN, they share the same electrical construction, except appearance. Models follow by suffix "-W" means the unit add wifi module. Model HZBY-12 share the similar construction with model HZB-12E, except the difference appearance. Model HZB-15NH, HZB-15NH/S, HZB-15NG, HZB-15NG/S, HZB-15NG-W, HZB-15NG/S-W, HZB-15NH-W, HZB-15NH/S-W, HZB-15DN-W are extended from model HZB-15N, except that the overall dimensions and evaporator is smaller, the difference between HZB-15NH and HZB-15NG is the shape of enclosure. Models with "/S" have a stainless steel enclosure and models without "/S" have a plastic enclosure. Models follow by suffix "-W" means the unit add wifi module. Model HZB-15DN share similar cooling system with HZB-15N but different construction.

2.0 Product Description	
Ratings	HZB-12E, HZB-12EH: 115V, 60Hz, Ice-making current: 1.6A, Ice-harvest current: 2.0A, R600a, 0.74Oz/21g, equipped with compressor L48C5L, HV48Y11A, HD48Y11A; HZB-30D: 115V, 60Hz, Ice-making current: 2.3A, Ice-harvest current: 2.7A, R290, 1.62oz/46g, equipped with compressor QD32R11; HZB-20N, HZB-20AN, HZB-20DN, HZB-25DN: 115V, 60Hz, Ice-making current: 2.7A, R600a, 1.06Oz/30g, equipped with compressor L48C5L and UKN43YA; HZB-20N, HZB-20AN, HZB-20BN, HZB-20CN, HZB-20DN, HZB-25DN: 115V, 60Hz, Ice-making current: 2.5A, R600a, 0.81Oz/23g, equipped with compressor HV48Y11A, M43C5L, UKN43YA and HD48Y11A; HZB-20DN: 115V, 60Hz, Ice-making current: 3.5A, R290, 0.88Oz/25g, equipped with compressor QD32R11; HZB-12N, HZB-15N, HZB-15N-W, HZB-12NA, HZB-15NA, HZB-15NA-W, HZB-12NB, HZB-15NB, HZB-15NB-W, HZB-12N/S, HZB-15N/S, HZB-15N/S-W, HZB-12NA/S, HZB-15NA/S, HZB-15NA/S-W, HZB-12NB/S, HZB-15NB/S, HZB-15NB/S-W, HZB-15EN, HZB-15EN-W, HZB-15NF, HZB-15NF-W: 115V, 60Hz, Ice-making current: 2.7A (with AC ice pushing motor), 1.8A (with DC ice pushing motor), R600a, 0.57Oz/16g, equipped with compressor HV48Y11A, M43C5L, UKN43YA and HD48Y11A. HZB-20EN, HZB-20EN-W: 115V, 60Hz, Ice-making current: 2.7A, R600a, 0.74Oz/21g, equipped with compressor HV48Y11A, M43C5L, UKN43YA and HD48Y11A. HZBY-12: 115V, 60Hz, Ice-making current: 1.6A, Ice-harvest current: 2.0A, R600a, 0.63Oz/18g, equipped with compressor L48C5L, HV48Y11A and HD48Y11A. HZB-15NH, HZB-15NH/S, HZB-15NG, HZB-15NG/S, HZB-15NG-W, HZB-15NG/S-W, HZB-15NH-W, HZB-15NH/S-W, HZB-15DN-W: 115V, 60Hz, Ice-making current: 1.8A, R600a, 0.53Oz/15g, equipped with compressor UKN43YA and HD48Y11A. HZB-15DN: 115V, 60Hz, Ice-making current: 1.7A, R600a, 0.53Oz/15g, equipped with compressor UKN43YA and HD48Y11A.
Other Ratings	High side pressure: 290 psig, low side pressure: 88 psig

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
2.1	1	Plug	Various	Various	NEMA 5-15P	cURus
2.2	2	Power Cord	Various	SJT	3*18AWG, 300 or 600V, VW-1, 1.5-3 m length	cURus
2.2	3	Enclosure Plastic	NINGBO LG YONGXING CHEMICAL CO LTD	HI-121H	ABS, 2mm thickness, rated HB, RTI(60 60 60)	cURus
			LG CHEMICAL LTD	HI121	ABS, 2mm thickness, rated HB, RTI(95 95 95)	cURus
			BASF CO LTD	GP-22	ABS, 2mm thickness, rated HB, RTI(90 80 95)	cURus
			KUMHO PETROCHEMICAL	ABS-750	ABS, 2mm thickness, rated HB, RTI(70 70 70)	cURus
2.6, 3.7	4	Ice-melting Valve	ZHEJIANG SANHUA (MH29234)	FDF2A series	110V/115V/120V/110-120V, 50/60Hz	cURus
			ZHEJIANG ZHONGBAO (E254164)	FDF2A FDF2A-02C	110V/115V/120V/110-120V, 50/60Hz	cURus
			CHANGZHOU CHANGHENG LUSI (MH30067)	DTF-1	110V/115V/120V/110-120V, 50/60Hz	UR
				DTF-1-2A	110V/115V/120V/110-120V, 50/60Hz	cURus
				FDF-2A	110V/115V/120V/110-120V, 50/60Hz	cURus
			TIANCHANG TIANHAO (MH47312)	FDF-2A	110V, 50/60Hz	cURus
			ZHEJIANG DUNAN (E253737)	FDF2A Series	110V, 50/60Hz	cURus
			Changzhou Weigeer (MH64645)	FDF-2A12	110-120V, 50/60Hz	cURus
2.6	6	Condenser Coil	NINGBO HICON	Various	Copper, outside diameter 7mm, thickness 0.31mm.	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
2.4, 3.3	8	Synchronous Motor	WUXI DEXUN FUDA MOTOR CO LTD / WUXI DEXUN MICRO MOTOR CO LTD	50TYZ-E	120V, 50/60Hz	cURus
			CHANGZHOU LEI LI ELECTRICAL EQUIPMENT CO LTD	50TYZ-JF1	120V, 50/60Hz	cURus
			NINGBO JIULING MOTOR CO LTD	49TYJ	110-120V, 50/60Hz	cURus
			NINGBO MING JONG ELECTRIC INDUSTRY CO LTD	MS	120V, 50/60Hz, 3.5W	cURus
			Ningbo Tianling (E494337)	49TYJ	100-120V, 50/60Hz.	cURus
			ZHAOQING CITY GAOYAO DISTRICT HENGJUN (E242178)	TY-50	100-120V, 50/60Hz, 4W.	cURus
2.4, 3.3, 3.1 0	9	Ice-dispensing Motor	WUXI DEXUN MICRO MOTOR CO LTD	50KTYZ	115V, 60Hz, 6W, Z.P	cURus
			NINGBO HICON	50KTYZ	110-120V, 50/60Hz, 7W, Z.P	See 5.0
2.7, 3.3	10	Condenser Fan Motor	XINRUILIAN (E186492)	RDH1225S	DC12V, 0.4A, ZP	cURus
			SHENZHEN HUAXIA HENGTAI (E254715)	YM1212PTS1	DC12V, 0.27A, ZP	cURus
			ZHONGSHAN HENGSHAN PLASTIC PRODUCTS CO LTD	FS120252H	DC12V, 0.3A, ZP	cURus
			YATE LOON (E189702)	D12SH-12	DC12V, 0.3A, ZP	cURus
			YOUNG LIN (E199993)	DFS122512H	DC12V, 0.28A, ZP	cURus
			SHENZHEN POWERYEAR (E348858)	PY-1225H12S	DC12V, 0.35A	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
2.7, 3.6	11	Water Pump	DONGGUAN XINLINGLONG MOTOR & APPLIANCE MANUFACTURE R	XLL32ZWN12	DC12V, 0.3A	NR
			ZHONGSHAN WEILIBAO MOTOR & ELECTRIC APPLIANCE CO LTD	DB-2B0-11210	DC12V, 0.3A	NR
			NINGBO HICON	ZLWB-12	DC12V, 0.3A	NR
			ZHONGSHAN HENGSHAN PLASTIC PRODUCTS CO LTD	FS60202M	DC12V, 0.23A	NR
			NINGBO HICON	PA1	DC12V, 0.2A	NR
			NINGBO HICON	PV7	DC12V, 0.25A	NR
			SHENZHEN POWERYEAR	PA1	DC12V, 0.2A	NR
			SHENZHEN POWERYEAR	PV7	DC12V, 0.25A	NR
2.4, 3.5	12	PVC Sleeving	Various	Various	300V or 600V, 105°C, VW-1	cURus
2.4, 3.3	13	PWB Box	LG CHEMICAL LTD	AF312B	ABS, 2.5mm thickness, rated 5VA, RTI(75 70 75)	cURus
				AF365F	ABS, 2.0mm thickness, rated 5VA, RTI(85 85 80)	cURus
			CHI MEI CORPORATION	PA-765	ABS, 2.5mm thickness, rated 5VA, RTI(80 80 80)	cURus
				PA-765A	ABS, 2.5mm thickness, rated 5VA, RTI(80 80 80)	cURus
2.5 a, 3.4	14	Internal Wire	Various	1007	22-18AWG, 300V, 80°C, bound well by cabel ties.	cURus
			Various	1015	22-18AWG, 600V, Min. 80°C, bound well by cabel ties.	cURus
3.9	15	Evaporator	NINGBO HICON	Various	Copper, outside diameter 10mm, thickness 0.5mm	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
2.1 1, 3.1 5	16	Relay	GOODSKY	RWH-SH-112DM	Min.5A, 120V/250V, 10E4.	cURus
			XIAMEN HONGFA	JQC-3FF HF3FF	Min.5A, 125V/250V/277V, 10E4.	cURus
			NINGBO SONGLE RELAY CO LTD	SRD-12VDC-SL-A	Min.5A, 125V/250V, 10E4.	cURus
			DONGGUAN SANYOU (E190598)	SRD-S-112DM series, SRD-SH-112DM Sereis	Min.5A, 125V/250V, 10E4.	cURus
			HSIN DA (E162117)	982-1A-12D	Min.5A, 125V/250V, 10E4.	cURus
			SONG CHUAN PRECISION CO LTD	833H-1C-C	Min.5A, 125V, 10E4.	cURus
			QUN LI RADIO APPLIANCE FACTORY	JQC-3FB	Min.5A, 120V or 250V, 10E4.	cURus
			NINGBO JINTIAN RELAY CO LTD	JQC-3FF	Min.5A, min. 120V or 125V, 10E4.	cURus
				HF3FF	Min.5A, min. 120V or 125V, 10E4.	cURus
			NINGBO ZETTLER (E319069)	JQC-3FF	Min.5A, 120V/125V/250V/277V, 10E4.	cURus
			HSIN DA (E162117)	943/943A-1A-12D	Min.5A, 125V/240V/250V, 10E4.	cURus
			YUEQING MEISHUO (E313266)	MPA-S-112-A	Min. 5A, 125V/240V/250V, 10E4.	cURus
			NINGBO TIANBO GANGLIAN ELECTRONICS CO LTD	HJR-3FF	Min. 5A, 120V or 125V, 10E4.	cURus
			WANGRONG ELECTRONICS (SHENZHEN) (E345228)	RD-112DM-A-S	Min 5A, 250/227V, 10E4.	cURus
			NINGBO HUILONGCANG (E215689)	973-12VDC-SL-A	Min 5A,125Vor 250V, 10E4.	cURus
			SHENZHEN YUANZE (E341498)	Y3F-SS-112DM	Min 5A,125Vor 250V, 10E4.	cURus
			DONGGUAN YONGNENG(E320522)	YX202-S-112DMF	Min 5A,125Vor 250V, 10E4.	cURus
			Shenzhen Golden Electrical (E321783)	GH-1A-12LSFT	Min. 5A, 120V or 125V, 10E4.	cURus
			Guoke Relay Factory(E359350)	GK3FF-12VDC-S-A	Min 5A,250V, 10E4.	cURus
			Hunan Sanyi Precision (E481527)	SED-SS-112DM	Min 5A,250V, 10E4.	cURus

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Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
2.9, 3.1 5	17	Across-the-line Capacitor	Various	Various	0,1μF, 0.33μF, 0.56μF, min. 250V	cURus
2.9, 3.1 5	18	Varistor	Various	Various	330V	cURus
2.9, 3.1 5	20	Fuse	Various	Various	3.15A, 250V.	cURus
2.9, 3.1 6	21	Main PWB	Various	Various	Thickness: 1.5mm, V-0, 130°C	URus
2.9 3.1 6	22	Quick-connect Terminals (not shown)	Various	Various	Clamped at end of internal wires for connecting with terminals on PWB	cURus
2.1	23	Marking Label (not shown)	Various	Various	80°C.	URus
2.9, 3.1 5	24	Triacs	Various	Various	0.6A. For valve, syn. Motor	NR
2.9, 3.1 5	25	Optical Isolators	LITE-ON TECHNOLOGY CORP	MOC-3021 series	Providing 5000V isolation. This component be used together with Item 24 Triacs. For valve, syn. Motor	cURus
			FAIRCHILD SEMICONDUCTOR CORP	MOC3021 series	Providing 3750V isolation. For valve, syn. Motor	cURus
			EVERLIGHT ELECTRONICS CO LTD	EL3021 series	Providing 5000V isolation. For valve, syn. Motor	cURus
				ELT3021 series	Providing 5000V isolation. For valve, syn. Motor	cURus
			SHARP CORP ELECTRONIC COMPONENTS AND DEVICES GROUP	1S3021 series	Providing 5000V isolation. For valve, syn. Motor	cURus
			SHENZHEN ORIENT (E323844)	ORMOC3021S series	Providing 5000V isolation. For valve, syn. Motor	cURus
			JIEJIE MICROELECTRONICS (Shenzhen) (E521485)	JOC3021 series	Providing 5000V isolation. For valve, syn. Motor	cURus
			CT Microelectronics Far East (E364000)	CT3021 seires	Providing 5000V isolation. For valve, syn. Motor	cURus
			NingBo Qunxin Microelectronics Co., LTD (E509768)	QX3021 series, QX2021 series	Providing 5000V isolation.	cURus
			CRM ICBG (Wuxi) Co Ltd(E465130)	HK3021 series	Providing 5000V isolation	cURus
			Various	Various	Providing 5000V isolation. For valve, syn. Motor	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
3.1 5	25a	Optical Isolators	EVERLIGHT ELECTRONICS CO LTD	817	Providing 5000V isolation. For transformer. Only for HZB-30D.	cURus
				EL817	Providing 5000V isolation. For transformer. Only for HZB-30D.	cURus
			SHARP CORP ELECTRONIC COMPONENTS AND DEVICES GROUP	PC817	Providing 5000V isolation. For transformer. Only for HZB-30D.	cURus
			FAIRCHILD SEMICONDUCTOR CORP	FOD817	Providing 5000V isolation. For transformer. Only for HZB-30D.	cURus
			LITE-ON TECHNOLOGY CORP	LTV817	Providing 5000V isolation. For transformer. Only for HZB-30D.	cURus
			Shenzhen Orient Components Co., Ltd.	OR817	Providing 5000V isolation. For transformer. Only for HZB-30D.	cURus
2.9, 3.1 5	26	Y Capacitor	Various	Various	Min 250V, 1.0nF or 2.2nF. 1 piece Y1 or 2 pieces Y1 or Y2 connected across pri. and sec. by soldering	cURus
2.9	27	Switching Transformer	Various	Various	Horizontally installed, vanish impregnated core, thickness 5,3mm by width 20,6mm by length 20,2mm, bobbin min. 1,6mm thickness. Primary winding Ø0,25mm, 90 turns, type MW79, rated min. 155°C, measured 1,0Ω at 12°C. Sec. 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. only for HZB-12E. Refer to illustration 4a for details.	NR
			Various	Various	Varnish impregnated core, thickness 4.8mm by width 19.0mm by height 16.4mm, bobbin min. 1.0mm thickness. Primary winding Ø0.18mm, 120 turns, rated min. 155°C, measured 2.42Ω at 28°C. Sec. 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. Refer to illustration 4b for details.	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
3.1 5	27a	Switching Transformer	Various	Various	Vertical installed, vanish impregnated core. Primary winding Ø0.3mm, 84 turns, type MW75-C/2UEW QA-1, rated min. 130/155°C, measured 1.3Ω at 25°C. Sec. winding 3 layers insulated wire Ø0.5mm*2P, 12 turns, rated min. 130°C, measured 0.04Ω at 25°C. Vcc winding Ø0.25mm*2P, 15 turns, rated min. 155°C, measured 0.215Ω at 25°C. Class 120. Only for HZB-30D. Refer to illustration 4c for details.	NR
2.2 5	27b	Switching Transformer	Various	Various	E19 with thickness 9.9mm by width 20.0mm by length 16.1mm, bobbin min. 1.6mm thickness. Primary winding Ø0.33mm, 68turns, type MW79, rated min. 155°C, measured 0.74Ω at 25°C. Sec. winding 3 layers insulated wire Ø0.35mm*2P, 7turns, rated min. 155°C, measured 0.063 Ω at 25°C. Vcc winding Ø0.23mm*3P, 10turns, rated min. 155°C, measured 0.032 Ω at 25°C. Only for HZBY-12. Refer to illustration 4d, 4d1 for details.	NR
2.5, 2.5 a, 2.5 b	28	Compressor	HUAYI COMPRESSOR (JINGZHOU) CO LTD	L48C5L	110-120V, 60Hz, R600a. For HZB-12E, HZB-12EH, HZBY-12	cURus
			NINGBO ANUODAN MACHINERY CO LTD (SA33342)	HV48Y11A	110-120V, 60Hz, R600a. For models HZB-12E, HZB-12EH, HZBY-12.	cURus
			NINGBO ANUODAN MACHINERY CO LTD (SA33342)	HD48Y11A	110-120V, 60Hz, R600a. For models HZB-12E, HZB-12EH, HZBY-12.	cURus
2.6, 3.3	29	Water-inlet valve	Various	Various	DC12V. Secured by screw. For HZB-12EH, HZBY-12 and HZB-30D.	NR
3.1 7	30	Compressor	NINGBO ANUODAN MACHINERY CO LTD (SA33342)	QD32R11	110-120V, 60Hz, R290. For HZB-30D	cURus
2.2 4	31	DC step motor	Various	Various	12VDC. For model HZBY-12.	NR
4.1	4.1	Plug	Various	Various	NEMA 5-15P	cURus
4.1, 4.3 aa2 , 4.3 aa9	4.2	Power Cord	Various	SJT	3*18AWG, 300 or 600V, VW-1, 1.5-3 m length	cURus

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Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
4.1, 4.3 aa1, 4.3 aa6, 4.3 aa13	4.3	Enclosure Plastic	NINGBO LG YONGXING CHEMICAL CO LTD	HI-121H	ABS, 2mm thickness, rated HB, RTI(60 60 60)	cURus
			LG CHEMICAL LTD	HI121	ABS, 2mm thickness, rated HB, RTI(95 95 95)	cURus
			BASF CO LTD	GP-22	ABS, 2mm thickness, rated HB, RTI(90 80 95)	cURus
			KUMHO PETROCHEMICAL	ABS-750	ABS, 2mm thickness, rated HB, RTI(70 70 70)	cURus
4.8, 4.1 Or3	4.5	Internal Wire	Various	1015	22-18AWG, 600V, Min 80°C, bound well by cabel ties and routed in good way	cURus
			Various	1007	22-18AWG, 300V, 80°C, bound well by cabel ties and routed in good way	cURus
4.9, 4.1 Or2	4.6	PWB Box	LG CHEMICAL LTD	AF312B	ABS, 2.5mm thickness, rated 5VA, RTI(75 70 75)	cURus
				AF365F	ABS, 2.0mm thickness, rated 5VA, RTI(85 85 80)	cURus
			CHI MEI CORPORATION	PA-765	ABS, 2.5mm thickness, rated 5VA, RTI(80 80 80)	cURus
				PA-765A	ABS, 2.5mm thickness, rated 5VA, RTI(80 80 80)	cURus
4.9, 4.1 Or5	4.7	Water-inlet valve	Various	Various	DC12V. Secured by screw.	NR
4.9, 4.1 Od	4.8	Ice pushing motor	NINGBO HICON	SJ-0066/105JC640 G1312	120V, 60Hz, 11W, T.P.	See 5.0
4.9	4.9	Water Pump	DONGGUAN XINLINGLONG MOTOR & APPLIANCE MANUFACTURE R	XLL32ZWN12	DC12V, 0.3A	NR
			ZHONGSHAN WEILIBAO MOTOR & ELECTRIC APPLIANCE CO LTD	DB-2B0-11210	DC12V, 0.3A	NR
			NINGBO HICON	ZLWB-12	DC12V, 0.3A	NR
			ZHONGSHAN HENGSHAN PLASTIC PRODUCTS CO LTD	FS60202M	DC12V, 0.23A	NR
			NINGBO HICON	PA1	DC12V, 0.2A	NR
			SHENZHEN POWERYEAR	PA1	DC12V, 0.2A	NR
			XINRUILIAN	RDH1225S	DC12V, 0.4A, ZP	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
4.9, 4.1 0b, 4.1 0r2	4.10	Condenser Fan Motor	SHENZHEN HUAXIA HENGTAI ELECTRONIC CO LTD	YM1212PTS1	DC12V, 0.27A, ZP	cURus
			ZHONGSHAN HENGSHAN PLASTIC PRODUCTS CO LTD	FS120252H	DC12V, 0.3A, ZP	cURus
			YATE LOON ELECTRONICS CO LTD	D12SH-12	DC12V, 0.3A, ZP	cURus
			YOUNG LIN TECH CO LTD	DFS122512H	DC12V, 0.28A, ZP	cURus
			SHENZHEN POWERYEAR TECHNOLOGY CO LTD	PY-1225H12S	DC12V, 0.35A	cURus
4.1 0, 4.1 0r4	4.11	Condenser Coil	NINGBO HICON	Various	Copper, outside diameter 7mm, thickness 0.31mm or outside diameter 5mm, thickness 0.20mm.	NR
4.1 1	4.12	Evaporator	NINGBO HICON	Various	Copper, outside diameter 6mm, thickness 0.5mm, length approximately 1700mm. Fixed around the external surface of ice mould (9 turns). For HZB-20N,20AN,20BN,20CN,20DN.	NR
4.1 1	4.12 a	Evaporator	NINGBO HICON	Various	Copper, outside diameter 6mm, thickness 0.5mm, length approximately 760mm. Fixed around the external surface of ice mould (5 turns).for HZB-*N,*N/S,*NA,*NA/S,*NB,*NB/S,(*=12,15)	NR
4.1 1	4.12 b	Evaporator	NINGBO HICON	Various	SUS tube welding around the external surface of ice mould, OD48mm, ID37mm, tube thickness 1.0mm. For all models	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
4.1 3, 4.1 3a, 4.1 3b	4.13	Compressor	HUAYI COMPRESSOR (JINGZHOU) CO LTD	L48C5L	110-120V, 60Hz, R600a.	cURus
			NINGBO ANUODAN MACHINERY CO LTD (SA33342)	HV48Y11A	110-120V, 60Hz, R600a. For all models.	cURus
			HUAYI COMPRESSOR (JINGZHOU) CO LTD (SA13324)	M43C5L	110-120V, 60Hz, R600a. For all models.	cURus
			Hangzhou Qianjiang Refrigeration Compressor Group Co Ltd (SA33247)	UKN43YA	110-120V, 60Hz, R600a. For all models.	cURus
			NINGBO ANUODAN MACHINERY CO LTD (SA33342)	HD48Y11A	110-120V, 60Hz, R600a. For all models.	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
4.1 6, 4.1 7a, 4.1 6d	4.14	Relay	GOODSKY	RWH-SH-112DM	Min.5A, 120V/250V, 10E4, secured to PWB by soldering.	cURus
			XIAMEN HONGFA (E314517)	JQC-3FF HF3FF	Min.5A, 125V/250V/277V, 10E4.	cURus
			NINGBO SONGLE RELAY CO LTD	SRD-12VDC-SL-A	Min.5A, 125V/250V, 10E4.	cURus
			DONGGUAN SANYOU (E190598)	SRD-S-112DM series SRD-SH-112DM Sereis	Min.5A, 125V/250V, 10E4.	cURus
			HSIN DA (E162117)	982-1A-12D	Min.5A, 125V/250V, 10E4.	cURus
			SONG CHUAN PRECISION CO LTD	833H-1C-C	Min.5A, 125V, 10E4.	cURus
			QUN LI RADIO APPLIANCE FACTORY	JQC-3FB	Min.5A, 120V or 5A, 250V, 10E4.	cURus
			NINGBO JINTIAN RELAY CO LTD	JQC-3FF	Min.5A, min. 120V or 125V, 10E4.	cURus
				HF3FF	Min.5A, min. 120V or 125V, 10E4.	cURus
			NINGBO ZETTLER (E319069)	JQC-3FF	Min.5A, 120V/125V/250V/277V, 10E4.	cURus
			HSIN DA (E162117)	943/943A-1A-12D	Min. 5A, 125V/250V, 10E4.	cURus
			YUEQING MEISHUO (E313266)	MPA-S-112-A	Min. 5A, 125V/240V/250V, 10E4.	cURus
			NINGBO TIANBO GANGLIAN ELECTRONICS CO LTD	HJR-3FF	Min. 5A, 120V or 125V, 10E4.	cURus
			WANGRONG ELECTRONICS (SHENZHEN) (E345228)	RD-112DM-A-S	Min 5A, 250/227V, 10E4.	cURus
			NINGBO HUILONGCANG (E215689)	973-12VDC-SL-A	Min. 5A, 125V or 250V, 10E4.	cURus
			SHENZHEN YUANZE (E341498)	Y3F-SS-112DM	Min. 5A, 125V or 250V, 10E4.	cURus
			DONGGUAN YONGNENG (E320522)	YX202-S-112DMF	Min. 5A, 125V or 250V, 10E4.	cURus
			Shenzhen Golden Electrical (E321783)	GH-1A-12LSFT	Min.5A, 120V/125V/250V/277V, 10E4	cURus
			Guoke Relay Factory(E359350)	GK3FF-12VDC-S-A	Min 5A,250V, 10E4.	cURus
			Hunan Sanyi Precision (E481527)	SED-SS-112DM	Min 5A,250V, 10E4.	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
4.1 6, 4.1 7a, 4.1 6d	4.15	Across-the-line Capacitor	Various	Various	0.1μF or 0.22μF, 0.33μF, 0.56μF, min. 250V	cURus
4.1 6, 4.1 7a, 4.1 6d	4.16	Varistor	Various	Various	330V	cURus
4.1 6, 4.1 7a, 4.1 6d	4.17	Fuse	Various	Various	3.15A, 250V.	cURus
4.1 6, 4.1 7a, 4.1 6d	4.19	Y Capacitor	Various	Various	Min 250V, 1.0nF or 2.2nF or 4.7nF. 1 or 2 pieces connected across pri. and sec. by soldering	cURus
4.1 6, 4.1 7a, 4.1 6d	4.20	Switching Transformer	Various	Various	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. Refer to illustration 4e, 4e1 for details.	NR
			Various	Various	Vertical installed, vanish impregnated core. Thickness 10mm by width 20.4mm by length 16.5mm, bobbin min. 0.5mm thickness. Primary winding Ø0.29mm, 75 turns, type MW75-C/2UEW, rated 155°C, measured 0.86Ω at 25°C. Sec. winding 3 layers insulated wire Ø0.75mm, 7 turns, rated min. 130°C, measured 0.01Ω at 25°C. Vcc winding Ø0.15mm, 7 turns, rated min. 155°C, measured 0.275Ω at 25°C. Class 120. Refer to illustration 4f, 4f1 for details.	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
4.1 7, 4.1 7a, 4.1 6d	4.21	Main PWB	Various	Various	1.5mm thickness, V-0, 130°C	URus
4.1 0e	4.22	Self-priming water pump (optional)	DUOJIA KEJI	DJGM-2	DC12V, 5W. Optional for self-priming models.	NR
			Ningbo Hebang Motor	DJGM-2	DC12V, 5W. Optional for self priming models.	NR
4.1 0a, 4.1 0la	4.23	Water-inlet valve (optional)	Various	Various	DC12V. Optional for external water supply models.	NR
4.2 2	4.24	Ice pushing motor	NINGBO HICON	RY-CJY-616330-0006A	120V, 60Hz, 12W, T.P	See 5.0
4.2 2	4.24 a	Ice pushing motor (Not shown)	NINGBO HICON	RY-CJY-616335-0008T	120V, 60Hz, 24W, T.P	See 5.0
4.2 2	4.24 b	Ice pushing motor (Not shown)	NINGBO HICON	RY-CJY-616335-0009L	120V, 60Hz, 19W, T.P, AL Magnet wire	See 5.0
4.2 3	4.24 c	Ice pushing motor (Not shown)	NINGBO HICON	RY-CJY-616330-0008L	120V, 60Hz, 18W, T.P, AL Magnet wire	See 5.0
4.2 4	4.25	Ice pushing motor	NINGBO HICON	YS-BL-58-1100T	DC12V, 15W, for HZB-15DN, and HZB-15N series models	NR
4.1 0r6	4.26	Ice-dispensing Motor	WUXI DEXUN MICRO MOTOR CO LTD	50KTYZ	115V, 60Hz, 6W, Z.P	cURus
			NINGBO HICON	50KTYZ	110-120V, 50/60Hz, 7W, Z.P	See 5.0
4.1 6d	4.27	Relay for Ice-dispensing Motor	NINGBO ZETTLER (E319069)	JT32F JT32F-G	Min. 3A, 120/125V~, 10E4	cURus
			Sanyou (E190598)	SJ-S-112DM SJ-SH-112DM	Min. 5A, 120/125V~, 10E4	cURus
			Zhejiang Meishuo (E358149)	MPD-S-112-A	Min.5A, 120V/125V/240V/250V, 10E4	cURus
			Xiamen Hongfa (E314517)	HF32FV series HF32FV-G series	Min.5A, 120V/125V/240V/250V, 10E4	cURus
			WANGRONG ELECTRONICS (SHENZHEN) (E345228)	RJ-SS-112DM1-S	Min. 5A, 240/250V/277~, 10E4,	cURus
			Guoke Relay Factory(E359350)	GK32F-12VDC-S-A	Min.5A, 250V/277V, 10E4	cURus
			DONGGUAN YONGNENG(E32 0522)	YX201H-S-112DMF	Min.5A, 125/250V, 10E4	cURus
			Hunan Sanyi Precision (E481527)	32F-SS-112DM	Min 5A,250V,5E4	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.

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) 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. 4) Item 4.1-4.27 are specially used for models HZB-**N, **NA, **NB, **AN, **BN, **CN, **DN series. Item 4.26 and 4.27 are used for HZB-15DN only.						