

Attachment to Certificate No.: 23HZH0487-01

Constructional Data Form (CDF)

<i>Certificate Holder:</i>	Yuyao Hengyang Electric Appliance Co., Ltd. Linshan Town Yuyao City, Ningbo, Zhejiang P. R. China
<i>Manufacturing Site:</i>	Yuyao Hengyang Electric Appliance Co., Ltd. Linshan Town Yuyao City, Ningbo, Zhejiang P. R. China
<i>Product: (in German)</i>	Eisergezeuger für den Hausgebrauch
<i>Product: (in English)</i>	Ice maker for household use
<i>Type:</i>	ZB-10A, ZB-10B, ZB-10C, ZB-10E
<i>Brandname:</i>	---
<i>Description:</i>	220-240V~, 50Hz, 0,7A, R600a/22g, climatic class: T, Class I
<i>Test Report No.:</i>	230400247HZH-001:2023-05-04
<i>Tested according to:</i>	EN 62233:2008 PAK-Anforderung für GS (PAH requirement for GS) AfPS GS 2019:01 PAK EN 60335-2-24:2010+A1:2019+A2:2019+A11:2020 EN 60335-1:2012+A11:2014+A13:2017+A1:2019+A2:2019+A14:2019 +A15:2021
<i>Valid until:</i>	2028-05-23
<i>Issued on:</i>	2023-05-24

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Product Information:

General product information

The appliances in this report are compressor type automatic ice makers for household use. They all have a safety isolating transformer for control circuit.

ZB-10A are only filled with potable water; ZB-10B, ZB-10C and ZB-10E is not only filled with potable water but also can be filled from water main by hose-set.

ZB-10B and ZB-10E are same except for main difference at appearance of enclosure and control circuit.

All models are same except the differences listed in the following table:

Model	Water pump	Water valve and hose-set
ZB-10A	One	Without
ZB-10B, ZB-10E	Two	With
ZB-10C	One	With

Copy of marking plate

(representative)



When the equipment is vended to EU, then name and address of the importer or authorized representative within the EEA shall be added on the equipment.



C₅H₁₀

Warning; Risk of fire / flammable materials
Warnung; Brandgefahr/ brennbare materialien

Insulation Blowing Gas
Isolation Treibgas

Product Pictures



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List of Critical Components

Object / part No.	Manufacturer/ trademark	Type / model ²⁾	Technical data	Standard	Mark(s) of conformity ¹⁾
Power plug	Yuyao Shengshida Electronic Co., Ltd.	YD-03	AC250V, 16A DIN 49441-R2	VDE 0620-1	VDE*/4003542 6
Supply cord	Yuyao Shengshida Electronic Co., Ltd.	H05VV-F	3G0,75mm ²	EN 50525-2-11	VDE*/4003430 3
Internal wire	Ningbo Haoguang Electric Appliance Co.,Ltd.	H05S-K	0,5-2,5mm ² , T180	VDE 0282-3	VDE*/4003804 2
-alternative	Nan Ping Plastic Appliance Factory	RV-90	300/500V, 0,5mm ²	EN 60335-1 EN 60335-2-24	Tested with appliance
-alternative	Xiangshan Haoguang Electric Wire & Cable Co. Ltd.	H05V-K	0,5-1,0mm ²	VDE 0281-3	VDE*/126062
Internal wiring (only for Electromagnetic valve)	ZHONGSHAN CITY SENBEO ELECTRIC CO LTD	3478	600V, 125°C, 20AWG (E199818)	EN 60335-1 EN 60335-2-24	Tested with appliance
-alternative	SHANGHAI HUORI ELECTRIC WIRE & CABLE CO LTD	3478	600V, 125°C, 20AWG (E304845)	EN 60335-1 EN 60335-2-24	Tested with appliance
-alternative	WUXI HUAHAO ELECTRIC CO LTD	3478	600V, 125°C, 20AWG (E231903)	EN 60335-1 EN 60335-2-24	Tested with appliance
-alternative	Wuxi Elpont Radiation	3478	600V, 125°C, 20AWG (E186848)	EN 60335-1 EN 60335-2-24	Tested with appliance
Internal wiring (only for Synchronous motor)	NINGBO MINGSHENG ELECTRONIC CO LTD	1015	600V, 105°C, 24AWG (E255201)	EN 60335-1 EN 60335-2-24	Tested with appliance
-alternative	CHANGZHOU CITY CONHIS ELECTRONIC CABLE FACTORY	1015	600V, 105°C, 24AWG (E321598)	EN 60335-1 EN 60335-2-24	Tested with appliance
-alternative	ZHONG XIAN ELECTRIC WIRE & CABLE CO LTD	1015	600V, 105°C, 24AWG (E345624)	EN 60335-1 EN 60335-2-24	Tested with appliance
-alternative	FOSHAN NANHAI FENJIN CABLE CO LTD	1015	600V, 105°C, 24AWG (E258510)	EN 60335-1 EN 60335-2-24	Tested with appliance
Internal wiring (only for Condenser fan motor)	YUYAO YONGFENG ELECTRIC WIRE FACTORY	1007	300V, 80°C, 22AWG (E304869)	EN 60335-1 EN 60335-2-24	Tested with appliance
-alternative	Hunan Aomeng Electrical Appliance Co., Ltd.	1007	300V, 80°C, 22AWG (E202352)	EN 60335-1 EN 60335-2-24	Tested with appliance
-alternative	Dongguan Cheng Xing Electronic Co., Ltd.	1007	300V, 80°C, 22AWG (E249743)	EN 60335-1 EN 60335-2-24	Tested with appliance
-alternative	FOSHAN NANHAI FENJIN CABLE CO LTD	1007	300V, 80°C, 22AWG (E258510)	EN 60335-1 EN 60335-2-24	Tested with appliance
-alternative	SHENZHEN CITY DE XING LONG ELECTRIC CO LTD	1007	300V, 80°C, 22AWG (E328945)	EN 60335-1 EN 60335-2-24	Tested with appliance
-alternative	DONGGUAN WENCHANG ELECTRONIC CO LTD	1007	300V, 80°C, 22AWG (E214500)	EN 60335-1 EN 60335-2-24	Tested with appliance
-alternative	Dongguan Zelongkang Wire Co., Ltd	1007	300V, 80°C, 22AWG (E330488)	EN 60335-1 EN 60335-2-24	Tested with appliance
-alternative	DONGGUAN CITY ZHUANGXINCHUAN WIRE CO LTD	1007	300V, 80°C, 22AWG (E492515)	EN 60335-1 EN 60335-2-24	Tested with appliance
-alternative	WIN HAND INDUSTRY (HK) CO LTD	1007	300V, 80°C, 22AWG (E313925)	EN 60335-1 EN 60335-2-24	Tested with appliance
Internal wiring (only for Water pump)	Zhongshan Xiaolan Qiangli Electric Factory	H03VV-F	2x0,3mm ²	EN 60335-1 EN 60335-2-24	Tested with appliance

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Object / part No.	Manufacturer/ trademark	Type / model ²⁾	Technical data	Standard	Mark(s) of conformity ¹⁾
-alternative	Ningbo Qiaopu Electric Co., Ltd.	H03VVH2-F	2x0,5mm ²	VDE 0281-5	VDE*/4003597 6
Compressor	Jiangsu Baixue Electric Appliances Co., Ltd.	VY43R45A	220-240V~, 50Hz, R600a	EN 60335-1 EN 60335-2-34	VDE*/4001625 0
Motor	Ningbo Yinzhou Fengtech Motor Co., Ltd.	59TYD	220-240V~, 50Hz, 0,1A, Class 120	EN 60335-1 EN 60335-2-24	Tested with appliance
Condenser fan motor	Yuyao Yujie Electronics & Plastics Factory.	12025	DC12V, 0,35A, Class 120	EN 60335-1 EN 60335-2-24	Tested with appliance
-alternative	Yate Loon Electronics Co., Ltd.	D12SH-12(M-sss)	DC12V, 0,3A, Class 120	EN 60335-1 EN 60335-2-24	TUV Rh*/09954588 and tested with appliance
-alternative	Yuyao Hengyang Electric Appliance Co.,Ltd.	HY-D12F	DC12V, 0,3A, Class 120	EN 60335-1 EN 60335-2-24	Tested with appliance
Synchronous motor for ice pushing function	Wuxi Dexun Micromotor Company Limited.	50TYZ-E	220-240V~, 50/60Hz, 3,5/3W, Class 120	EN 60335-1 EN 60335-2-24	Tested with appliance
-alternative	Ningbo Ming Jong Electric Ind. Co., Ltd.	MS	220-240V~, 50/60Hz, 4W, Class 120	EN 60335-1 EN 60335-2-24	TUV Rh*/50173659 +Tested with the appliance
-alternative	Cixi Longshan Dayan Motor Factory	49TYJ	220-240V~, 50/60Hz, 4W, Class 120	EN 60335-1 EN 60335-2-24	VDE*/4002476 5 + tested with appliance
-alternative	Yuyao hengyang Electric Appliance Co.,Ltd.	HY-49TYJ	220-240V~, 50/60Hz, 4W, Class 120	EN 60335-1 EN 60335-2-24	Tested with appliance
Switch (used in SELV circuit)	Zhongxun Electronics Industry Company.	KW11-3Z	250V~, 50Hz, 5A, 5E4, T85	EN 61058-1	TUV */ Rh 50058511
-alternative	Ningbo Jialin Electron Co., Ltd.	KW4-3Z-3	250V~, 50Hz, 5A, 1E4	EN 61058-1	TUV */Rh 50177088
Water pump	Zhongshan KangDe Accessories Co., Ltd.	BL-DC201	DC12V, 2,5W, Class 120	EN 60335-1 EN 60335-2-24	Tested with appliance
-alternative	Yuyao hengyang Electric Appliance Co.,Ltd.	HY-DC12	DC12V, 2,5W, Class 120	EN 60335-1 EN 60335-2-24	Tested with appliance
Electromagnetic valve for cooling system	Changzhou Changheng Lusi Electrical Appliance Co., Ltd.	DTF-2	220-240V~, 50/60Hz, T50, 10E4, 2,1MPa, Class 120	EN 60730-1	TUV Rh*/ 50073186
-alternative	Changzhou EFT Electric Appliance Co., Ltd.	DTF-1-2A	230V~, 50Hz, T55, 10E4, 3,0MPa, Class 120	EN 60730-1	TUV R*/ 50144685
-alternative	Tianchang Tianhao Refrigerating Equipment Factory	FDf-2A	230VAC, 50Hz, T55, 5E4, 3,0MPa, Class 120	EN 60730-1	TUV PS*/ N8 08 11 68217 002
Water valve	Zhejiang Kebo Electrical Appliance Co., Ltd.	FPD-270L1-DC24V	DC24V, 0,02-1,0MPa, Class 120	EN 60335-1 EN 60335-2-24	Tested with appliance
Varistor	Guangdong Foshan Kestar Electronic Co., Ltd.	MYG10 471	25A, max. peak current: 3500A, max. 550V~, T85	EN 61051-1 EN 61051-2 EN 61051-2-2	VDE*/ 40005616
-alternative	Lien Shun Electronics Co., Ltd.	10D471K	25A, max. peak current: 3500A, max. 680V~, T85	EN 61051-1 EN 61051-2 EN 61051-2-2	VDE*/ 40005858
-alternative	Kunshan Micro Capacitors Electronic Co., Ltd.	10D471K	25A, max. peak current: 3500A, max. 680V~, T85	EN 61051-1 EN 61051-2 EN 61051-2-2	VDE*/ 40029901
-alternative	Cerglass MFG Inc	10D471K	25A, max. peak current: 2500A, max. 775V, T125	EN 61051-1 EN 61051-2 EN 61051-2-2	VDE*/ 40028836
X2 capacitor	Aid Electronic Corporation	MEX	275V, 0,1µF, T85	EN 60384-14	VDE*/4002897 3

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Object / part No.	Manufacturer/ trademark	Type / model ²⁾	Technical data	Standard	Mark(s) of conformity ¹⁾
-alternative	Tenta Electric Industrial Co. Ltd.	MEX	275V, 0,1μF, T100, X2	EN 60384-14	VDE*/119119
X2 capacitor	Aid Electronic Corporation	MEX	275V, 0,47μF, T85	EN 60384-14	VDE*/4002897 3
-alternative	Tenta Electric Industrial Co. Ltd.	MEX	275V, 0,47μF, T100, X2	EN 60384-14	VDE*/119119
Y capacitor	Jyh Chung Electronic Co., Ltd.	JD	400V~, 2200pF, T85, Y1	EN 60384-14	VDE*/137027
-alternative	Jyh Chung Electronic Co., Ltd.	JY	300V~, 2200pF, T85, Y2	EN 60384-14	VDE*/123326
-alternative	JYA-NAY Co., Ltd.	JN	400V~, 2200pF, T125, Y1	EN 60384-14	TUV*/Rh 50232059
-alternative	JYH HSU (JEC) ELECTRONICS LTD	JD	400V, 2200pF, T85, Y1	EN 60384-14	VDE*/ 40038642
Fuse	Dongguan Reomax Electronics Co., Ltd.	TBP	250V~, 2A, 3,6mm×10mm, TL	EN 60127-1 EN 60127-3	VDE*/4003205 3
-alternative	Dongguan Reomax Electronics Co., Ltd.	FBP	250V~, 2A, 3,6mm×10mm, TL	EN 60127-1 EN 60127-3	VDE*/4003458 1
-alternative	Dongguan Hongda Electronic Technology Co., Ltd.	31TC	250V~, 2A, 3,6mm×10mm, TL	EN 60127-1 EN 60127-3	VDE*/4002815 0
-alternative	XC Electronics (Shen Zhen) Corp. Ltd.	3F-Serie(s)	250V~, 2A, 3,6mm×10mm, TL	EN 60127-1 EN 60127-3	VDE*/4001963 6
-alternative	Dongguan Dawei Metal Electron Co., Ltd.	3T - Serie(s)	250V~, 2A, 3,6mm×10mm, TL	EN 60127-1 EN 60127-3	VDE*/4003233 5
-alternative	Chi Lick Schurter Limited	SPT 3,6 x 10 mm	250V~, 2A, 3,6mm×10mm, TL	EN 60127-1 EN 60127-3	VDE*/4001522 8
-alternative	Shenzhen Lanson Electronics Co. Ltd.	Series 3JFxxx250V	250V~, 2A, 3,6mm×10mm, TL	EN 60127-1 EN 60127-3	VDE*/4000930 1
Relay	Xiamen Hongfa Electroacoustic Co., Ltd.	JZC-32F 012-HS HF32F 012-HS	250V~, 5A, 10E4, T70	EN 61810-1 Cl. 17 of EN 60730-1	VDE*/4001220 4
-alternative	Ningbo Zettler Electronics Co., Ltd.	JT32F012-HS	250V~, 5A, 10E4, T70	EN 61810-1 Cl. 17 of EN 60730-1	TUV */Rh 50265552
-alternative	Shenzhen Golden Electrical Appliances Co., Ltd.	GI-1A-12D	250V~, 5A, 10E4, T85	EN 61810-1 Cl. 17 of EN 60730-1	TUV*/Rh 50134939
-alternative	Ningbo Zettler Electronics Co., Ltd.	JT32F-G	250V, 10A, 10E4, T70	EN 61810-1 Cl. 17 of EN 60730-1	TUV */Rh 50265552
-alternative	SHENZHEN GOLDEN ELECTRICAL APPLIANCES CO.,LTD.	GI-1A-12DH	250V, 10A, 10E4, T85	EN 61810-1 Cl. 17 of EN 60730-1	TUV */Rh 50160373
SELV transformer	Yuyao Linshan Jianwei Electronic Factory	EF-20(EF20)	Input: 220-240V~, 50Hz, Output: 12V; Class 120	EN 60335-1 EN 60335-2-24	Tested with appliance
Bobbin of transformer	CHANG CHUN PLASTICS CO LTD	4115F	PBT, min. thickness 1mm, (UL E59481)	EN 60335-1 EN 60335-2-24	Tested with appliance
Optocoupler	Everlight Electronics Co., Ltd	EL817	850V, T100	EN 60747-5-2	VDE*/132249
-alternative	Bright Led Electronics Corp.	BPC-817A	630V, T100	EN 60747-5-2	TUV Rh*/50029014
Hose set for water supply (ZB-10B, ZB-10C, ZB-10E)	ZheJiang Pan'an Jianshan Xinxing Plastic Factory.	XIN-6709-002A	PVC, max temperature of medium: 25°C	EN 61770	VDE*/4002056 0
PCB	Pan An PCB Factory.	--	Epoxy resin, min thickness: 1,5mm	EN 60335-1 EN 60335-2-24	Tested with appliance

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Object / part No.	Manufacturer/ trademark	Type / mode ¹⁾	Technical data	Standard	Mark(s) of conformity ¹⁾
PCB box	Ningbo Yongxing.	--	ABS, min thickness: 2,5mm	EN 60335-1 EN 60335-2-24	Tested with appliance
Evaporator	Yuyao Hengyang Electric Appliance Co., Ltd.	--	ID 9,8mm, 0,55mm thickness	EN 60335-1 EN 60335-2-24	Tested with appliance
Condenser	Yuyao Hengyang Electric Appliance Co., Ltd.	--	Steel, ID 4,76mm, 0,65mm thickness	EN 60335-1 EN 60335-2-24	Tested with appliance
Plastic enclosure/ Storage compartment	Yuyao Hengyang Electric Appliance Co., Ltd.	201T	ABS, min thickness: 2mm	EN 60335-1 EN 60335-2-24	Tested with appliance
Metal enclosure	Yuyao Hengyang Electric Appliance Co., Ltd.	--	Steel, min thickness: 0,6mm	EN 60335-1 EN 60335-2-24	Tested with appliance
Heat shrinkable tubing	DONGGUAN SALIPT CO LTD.	SALIPT S-901- 600	600V, T125, VW-1, E209436	EN 60335-1 EN 60335-2-24	Tested with appliance
Water tube	Ningbo Jinwang Electrical Appliance Industrial Co., Ltd.	--	Silicone, thickness: 1,2- 1,6mm	EN 60335-1 EN 60335-2-24	Tested with appliance
Black button	Yuyao Hengyang Electric Appliance Co., Ltd	--	Silicone	EN 60335-1 EN 60335-2-24	Tested with appliance

¹⁾ An asterisk indicates a mark which assures the agreed level of surveillance.
²⁾ All PAHS parts refer to PAH evaluation report 230400247HZH-001-PAH.

Modification Summary

The following changes have been made to this CDF:

Date	Local Project no.	Description of Change
None	None	None

Signed



M.Sc. Qiao Qiao

DocuSign

Date 2023-05-24