

1.0 Reference and Address					
Report Number	200302585SHA-001	Original Issued:	16-Sep-2020	Revised:	None
Standard(s)	Commercial Refrigerators and Freezers [NSF/ANSI 7:2019]				
Applicant	<u>Qingdao Dashang Electric Appliance Co., Ltd.</u>	Manufacturer	Qingdao Dashang Electric Appliance Co., Ltd.		
Address	No.70, Jinsheng One Road Jihongtan Street, Chengyang District, Qingdao City, Shandong Province	Address	No.70, Jinsheng One Road Jihongtan Street, Chengyang District, Qingdao City, Shandong Province		
Country	China	Country	China		
Contact	Xinyan Ji	Contact	Xinyan Ji		
Phone	15820024969	Phone	15820024969		
FAX	-	FAX	-		
Email	<u>jxy7109@163.com</u>	Email	jxy7109@163.com		

2.0 Product Description	
Product	Display Freezer
Brand name	NA
Description	The products covered by this report are cord connected, indoor use commercial display freezer with a recognized mould-on grounding plug and intended to be connected to 115V power supply. The equipment is intended for use in an area where the environmental conditions are controlled and maintained so that the ambient temperature typically does not exceed 80 °F (27 °C). This equipment is intended for the storage and display of packaged products only.
Models	ZD or ZP; followed by 14, 18, 21 or 25; maybe followed by A; followed by one character; followed by L or U.
Model Similarity	All models are similar in construction and same components and only differ in external view, ratings as detailed in ratings and in dimensions and configuration as identified suffix variables in the model nomenclature. abc-d a identifies Model Series: ZD or ZP b identifies size 14, 18, 21 or 25. c identifies sliding door type view blank: only for left/right A: left/right, also up/down d identifies sliding door open way: L: left/right U:up/down
Ratings	115V, 60Hz, Refer to Ill. 3 for details.
Other Ratings	NA

3.0 Product Photographs

Photo 1 - Overview

ZD18A-U		ZP14A-L	
ZP14A-U		ZP21A-L	
ZP21A-U		ZP25A-L	
ZP25A-U		ZD18-L	
ZD18A-L		ZP14-L	
		ZP21-L	
		ZP25-L	

Photo 2 - Sample Overview



3.0 Product Photographs

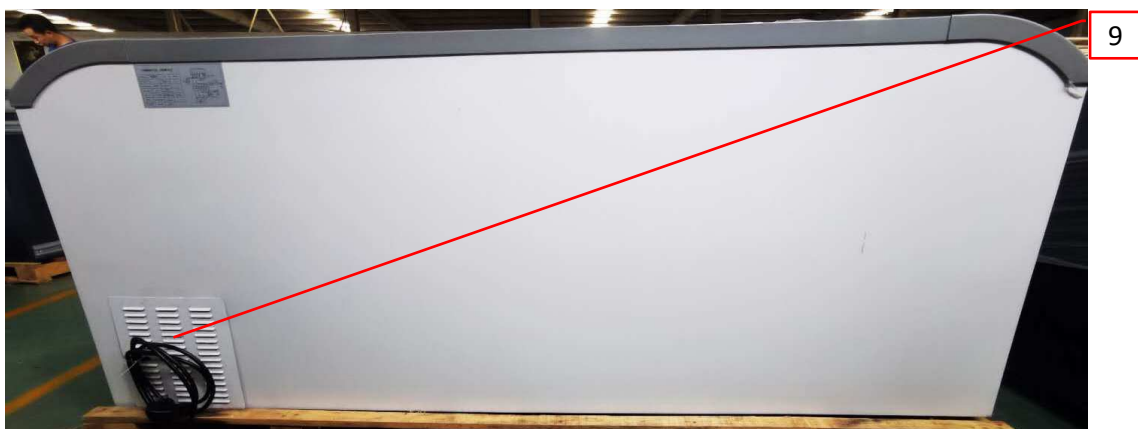
Photo 3 - Sample rear view



Photo 4 - Sample view



Photo 5 - Sample rear view



3.0 Product Photographs

Photo 6 - Sample side view



Photo 7 - Sample side view



3.0 Product Photographs

Photo 8 - Sample Internal view



Photo 9 - Sample internal view



3.0 Product Photographs

Photo 10 - Sample bottom view



4.0 Critical Components						
Photo #	Item no. ¹	Name and location ^{2,3}	Manufacturer ⁴	Model/tradename, material type ⁵	Technical data and acceptance	Mark(s) of conformity ⁶
4	1	Door glass, SZ	Various	Tempered glass	Transparent, accessible and easily cleanable, thickness: 5mm, Class A	NR
4	2	Door frame/handle, SZ	Various	Polymeric, PVC-SG-5	Gray, accessible and easily cleanable.	NR
4	3	Decorative Polymeric, SZ	Various			NR
4	4	Panel Polymeric, SZ	Various			NR
4	5	Enclosure, SZ	Various	SPCC	Coated with item 6, accessible and easily cleanable.	NR
4, 10	6	Powder Coating, SZ	Becco Industrial Coatings (Shanghai) Co., Ltd	Organic Coating, polyester, white, 53D+A	Applied thickness of 60-80µm, SPCC substrate.	NR
				Organic Coating, polyester, Black, DX51DZ80	Applied thickness of 60-80µm, SPCC substrate.	NR
4	7	Cover of thermostat and switch, SZ	Various	Polymeric, PVC-SG-5	Transparent, accessible and easily cleanable	NR
4	8	Thermostat, SZ	DIXELL SRL	XR06CX-4N1F1	Range from -40°C to +110°C, graduated in increments of 0.1°C.	NR
5	9	Ventilation Guard, SZ	Various	SPCC	Coated with item 6, accessible and easily cleanable.	NR
6	10			SPCC	Coated with item 6, accessible and easily cleanable.	NR
8	11	Shelf, SZ	Various	Hard-drawn steel wire	Coated with item 11a, thickness: min. 120µm. Accessible and easily cleanable.	NR
8	11a	Powder Coating, SZ	Qingdao Haili Youshun Industry and Trade Co., Ltd.	organic coating, polyester, YS-102	Applied thickness of 120µm, hard-drawn steel wire substrate.	NR
8	12	Cabinet liner, SZ	Various	Al alloy	Aluminum Alloy 3003/5005/3105. Smooth surface, accessible and easily cleanable.	NR

4.0 Critical Components						
Photo #	Item no. ¹	Name and location ^{2,3}	Manufacturer ⁴	Model/tradename, material type ⁵	Technical data and acceptance	Mark(s) of conformity ⁶
9	13	Cover of Light switch, SZ	Various	Polymeric, PVC-2B01N75M	Transparent, accessible and easily cleanable.	NR
9	14	Cover of LED module, SZ	Various	Polypropylene (PP), H550	Transparent, accessible and cleanable	NR
9	15	Track for cabinet heating wire, SZ	Various	Polymeric, PVC-SG-5	Gray, accessible and easily cleanable	NR
9	16	Sealants, SZ	MOMENTIVE	RTV102	Gray, accessible and easily, cleanable.	NR
10	17	Base plate, NFZ	Various	SPCC	Accessible and cleanable, with electrolytic zinc coating (ASTM879-00) on double sides .	NR
10	18	Castor, NFZ	Various	Horn: SPCC Wheel: PP	Surfaced with galvanize coating, type ASTM A653/653M-01. Accessible and cleanable. See illustration 1 for detailed dimension.	NR

NOTES:

1) Not all item numbers are indicated (called out) in the photos, as their location is obvious.

2) Identifies location on equipment by zone. Identifiers are:

Food Zone, Direct Food Contact (FZ, FC);

Food Zone, One square inch or less of Direct Food Contact (FZ, 1in2)

Food Zone, Non-direct Food Contact (FZ, NFC);

Add "H" in front of FZ designations to indicate a Heated Food Zone;

Splash Zone (SZ);

Non-food Zone (NFZ);

Unexposed non-food zone (UNFZ)

Food zone material requirements with splash zone design and construction requirements are to be designated with applicable FZ requirements in Section 4.0 with SZ construction requirements detailed in Sections 5.0 and 6.0

3) Materials with ITK numbers identify unlisted food contact materials that have been evaluated by Intertek. The material manufacturer and material tradename for these items are not expected to be confirmed onsite during follow-up service inspection

4) "Various" means any type, from any manufacturer, that complies with the "Technical Data and Acceptance" and meets the "Mark(s) of conformity" may be used.

5) Unique identifier (model for components or tradename for materials) must be included in addition to material type if necessary for conformance.

6) Indicates specific marks to be verified, which assures the agreed level of surveillance for the component.

"NR" - indicates Unlisted.

A physical mark may not be present on components made of listed materials (e.g. the listed material is purchased and then molded into a part), in which case evidence that the listing is current must be obtained (by use of an online CB directory, etc.).

"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.

Accessible - Manufactured to be exposed for cleaning and inspection with the use of simple tools.

Closed - Manufactured with no space exceeding 1/32 inch (0.031 inch, 0.79 mm).

Easily cleanable - Manufactured so that food and other soiling material may be removed by manual cleaning methods.

Exposed - Open to view from at least one angle.

Hardware - A component of a larger piece of equipment having a specific capability or function including, but not limited to, metal parts such as fasteners, locks, or hinges.

Manual cleaning - Cleaning by hand with appropriate cleaning tools.

Mobile - Mounted on casters, rollers, gliders, or similar devices that allow the equipment to be moved easily along a surface.

Readily accessible - Manufactured to be exposed for cleaning and inspection without the use of tools.

Readily removable - Capable of being detached and taken away from the parent unit without the use of tools.

Removable - Capable of being detached and taken away from the parent unit, and reattached to the parent unit with the use of simple tools.

Sealed - Manufactured without openings, to prevent entry or leakage of liquid or moisture.

Simple tools - Hand tools commonly available to food establishment maintenance and cleaning personnel, such as screwdrivers, pliers, open-ended wrenches, and Allen wrenches.

Smooth - Free of pits, pinholes, cracks, crevices, inclusions, rough edges, and other surface imperfections detectable by visual and tactile inspection.

Tight-fitting - Manufactured with no space exceeding 1/64 inch (0.016 inch, 0.40 mm).

Zones

Food zone, food contact - Equipment surfaces intended to be in direct contact with food

Food zone, non-food contact - Equipment surfaces that food or condensate may contact and then drain, drip, or splash back into food or onto surfaces that are intended to be in direct contact with food.

Heated food zone - Food zone surfaces that maintain a minimum temperature of 180 °F (82 °C) during normal operation.

Splash zone - Equipment surfaces, other than those in a food zone, that are subject to splash, spillage, or other food soiling during operation of the equipment.

Nonfood zone - Exposed equipment surfaces other than those in a food or splash zone.

Unexposed non-food zone - Enclosed areas that are unexposed under normal use conditions. Included in this definition are areas that are inaccessible or are designed to be accessed only for maintenance and/or service through means including but not limited to covers, panels, or doors that are removable, readily removable, sliding or hinged.

6.0 Critical Features	
6.1 Design and construction	
All products are marked with: the Applicant's name; Basic or Multiple Listee's name as defined in section 9.0; or brand names and model number.	
1	<u>Labeling</u> - The products covered by this report are commercial, indoor use, cord connected display freezer. The equipment is intended for use in an area where the environmental conditions are controlled and maintained so that the ambient temperature typically does not exceed 80 °F (27 °C). This equipment is intended for the storage and display of packaged products only. The product is marked on a labeling system as follows: applicant's brand name, model number, date of manufacturer, electrical ratings.
2	<u>Literature</u> - No literature requirements
3	<u>General sanitation</u> - Equipment is designed and constructed to prevent the harborage of vermin and the accumulation of dirt and debris, and to facilitate cleaning, maintenance, and inspection of the equipment and its components. Food zones and surfaces in direct contact with packaged foods shall be readily accessible and easily cleanable. Splash zone surfaces shall be accessible and easily cleanable. Non-food zone surfaces shall be accessible and cleanable. Unexposed non-food zone surfaces shall be accessible or closed.
4	<u>Angles and corners</u> -None.
5	<u>Joints and seams</u> - Permanent joints and seams in the Splash Zone are sealed and smooth.
6	<u>Fasteners</u> - Philips head fasteners are used on the exterior of enclosure. Hex-head fasteners are used to hold the fan guards in place. No other fastener types are used. All fasteners are tight-fitting to the surfaces. There are no washers, exposed threads, projecting screws, studs or sharp points exposed.
7	<u>Insulation</u> - None
8	<u>Reinforcing and framing</u> - No exposed reinforcing and framing members
9	<u>Panels, doors and covers (include hinges, door gaskets, tracks & guides, etc.)</u> - Door is sized to fit its opening and close properly. Exposed channel sections on single panel doors is easily cleanable. Hinges have no more than five knuckles in total per hinge set and have sealed joints and seams on the hinge body (except for seams at the pivot joint).
10	<u>Louvers</u> - Louvers which is subject to overhead splashes, spills, and drips is a deflecting design.
11	<u>Hardware, drains, handles, latches, etc.</u> - Handle is easily cleanable as installed on equipment.
12	<u>Equipment mounting (include legs, feet, casters, gliders, etc.)</u> - Floor-mounted equipment with caster which meet the construction and material requirements for nonfood zones. Casters shall be easily cleanable. Tread surfaces shall be smooth and shall preclude scoring, staining, or breaking of floor coverings. Exposed wheel surfaces facing the horn, excluding the hub area, shall be readily accessible. Caster wheels shall be non-spoked. Grease fittings shall be acceptable. Refer to Illustration No. 1 for details.

7.0 Illustrations

Illustration 1 - Castor

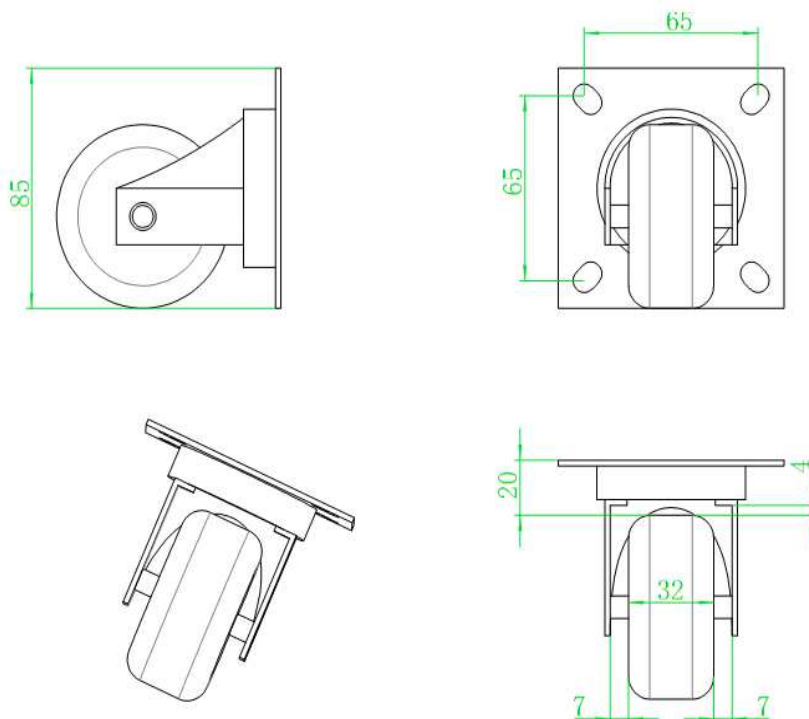




Illustration 2 - Products Parameters Table

Model	Product type	Current (A)	Refrigerant		Design		Compressor#	Size#(W*D*H) mm*mm*mm	LED# (W)
			(Oz.)	-	High side	Low side			
ZP14A-L	Freezer	10.0	3.88	R-290	290	174	NEU2178U	1470*876*837	18
ZP14A-U	Freezer	10.0	3.88	R-290	290	174	NEU2178U	1470*876*838	
ZP14-L	Freezer	10.0	3.88	R-290	290	174	NEU2178U	1470*876*839	18
ZD18A-L	Freezer	10.0	4.41	R-290	290	174	NEU2178U	1870*876*837	
ZD18A-U	Freezer	10.0	4.41	R-290	290	174	NEU2178U	1870*876*838	18
ZD18-L	Freezer	10.0	4.41	R-290	290	174	NEU2178U	1870*876*839	
ZP21A-L	Freezer	11.0	5.11	R-290	290	174	NEU2178U	2115*876*839	27
ZP21A-U	Freezer	11.0	5.11	R-290	290	174	NEU2178U	2115*876*839	
ZP21-L	Freezer	11.0	5.11	R-290	290	174	NEU2178U	2115*876*839	27
ZP25A-L	Freezer	11.0	5.26	R-290	290	174	NEU2178U	2502*876*839	
ZP25A-U	Freezer	11.0	5.26	R-290	290	174	NEU2178U	2502*876*839	31.5
ZP25-L	Freezer	11.0	5.26	R-290	290	174	NEU2178U	2502*876*839	

is provided for reference for checking ratings. Information does not need to be on product label.

8.0 Test Summary			
Evaluation Period	2020-03-25 to 2020-07-29		Project No. 200302585SHA
Sample Rec. Date	25-Mar-2020	Condition	Prototype
			Sample ID. 0200325-01
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	NSF/ANSI 7 - 2019 Clause	NSF/ANSI 51 - 2019 Clause	
Abrasion Resistance- Method II (for organic coatings used on splash zones) (Item 6 of 4.0) (Item 11a of 4.0)	4.1	8.2	
Impact resistance (Item 6 of 4.0) (Item 11a of 4.0)	4.1	9.2	
Glass Impact Test	5.30.3	-	

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:	Leo Liu	Reviewed by:	Jack Yang
Title:	Engineer	Title:	Reviewer
Signature:		Signature:	

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	Qingdao Dashang Electric Appliance Co., Ltd.
Address	No.70, Jinsheng One Road Jihongtan Street, Chengyang District, Qingdao City, Shandong Province
Country	China
Product	Display Freezer

MULTIPLE LISTEE 1	Qingdao Dusung Refrigeration Co., Ltd.
Address	No.70, Jinsheng One Road Jihongtan Street, Chengyang District, Qingdao City, Shandong Province
Country	China
Brand Name	DUSUNG Refrigeration

ASSOCIATED MANUFACTURER	Qingdao Dashang Electric Appliance Co., Ltd.
Address	No.70, Jinsheng One Road Jihongtan Street, Chengyang District, Qingdao City, Shandong Province
Country	China

MULTIPLE LISTEE 1 MODELS	BASIC LISTEE MODELS
ZP14A-L	ZP14A-L
ZP14A-U	ZP14A-U
ZP14-L	ZP14-L
ZD18A-L	ZD18A-L
ZD18A-U	ZD18A-U
ZD18-L	ZD18-L
ZP21A-L	ZP21A-L
ZP21A-U	ZP21A-U
ZP21-L	ZP21-L
ZP25A-L	ZP25A-L
ZP25A-U	ZP25A-U
ZP25-L	ZP25-L

MULTIPLE LISTEE 2	None
Address	
Country	
Brand Name	

ASSOCIATED MANUFACTURER	
Address	
Country	

MULTIPLE LISTEE 2 MODELS	BASIC LISTEE MODELS

MULTIPLE LISTEE 3	None
Address	
Country	
Brand Name	

ASSOCIATED MANUFACTURER	
Address	
Country	

MULTIPLE LISTEE 3 MODELS	BASIC LISTEE MODELS

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.

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.

10.1 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.

Note to Intertek Follow Up Inspector: The Component Evaluation Center, CEC, will notify you in writing when these components must be selected and sent to the CEC for re-evaluation

Ship the samples to:
Intertek Testing Services Shanghai Limited
ETL Component Evaluation Center
Building No. 86, 1198 Qinzhou Road (North)
Shanghai 200233, China
Attn: Ms. Angela Han

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

None

