



Test Report

No.SDHL2409017405PK

Date: Sep 20, 2024

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ZEPHYR VENTILATION, LLC
2277 HARBOR BAY PARKWAY ALAMEDA, CA, USA 94546

Sample Description 15" SINGLE ZONE COOLER
Item No. BBV15C01AG and BWN15C01AG
Country of Origin CHINA
Country of Destination UNITED STATES

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

SGS Ref No. GZTX2409000014HS
Sample Receiving Date Sep 09, 2024
Test Performing Date Sep 12, 2024 to Sep 20, 2024
Test Performed Selected test(s) as requested by applicant

Test Result Summary

No.	Test(s) Requested	Result(s)	Comments
1	ISTA 3A: 2018	Satisfactory	Excluding Atmospheric Conditioning Test

For further details, please refer to the following page(s)

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch

Karl Zhou

Karl Zhou
Authorized Signatory



SDHL2409017405PK
Verification
check.sgsonline.com.cn



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中国·广东·佛山市顺德区大良街道办事处五沙社区居民委员会顺和南路1号欧洲工业园一号厂房首层、二层 邮编: 528300 t (86-757)22805888 sgs.china@sgs.com

Test Results:

1. Description of Package-Product

- 1) External Container Size (Inches) : length 38-3/4 x width 28-3/4 x depth 20
- 2) Gross Weight of Packaged-Product Tested (lbs.) : 102.30
- 3) Packaged-product Type : Standard
- 4) Shipping Carton Forms : Double Wall Corrugated Board
- Shipping Mark : No
- Box Manufacturer's Certificate : No
- Joint : Stitched Joint (Double & Diagonal)
- Closed With : Fixation Strap

2. Transportation Test (As per ISTA 3A: 2018-Excluding Atmospheric Conditioning Test)

Sample Number: One Master Carton

1) Atmospheric Measurement

Sequence	Temperature (°C)	Humidity (% R.H.)	Storing Duration (hours)
Preconditioning	25.6	45	12

2) Drop Test

Drop Number	Height of Drop (Inches)	Orientation of Packaged-Product	
1	12	Edge	Edge 3-4
2	12	Edge	Edge 3-6
3	12	Edge	Edge 4-6
4	12	Corner	Corner 3-4-6
5	12	Corner	Corner 2-3-5
6	12	Edge	Edge 2-3
7	12	Edge	Edge 1-2
8	24	Face	Face 3
9	12	Face	Face 3



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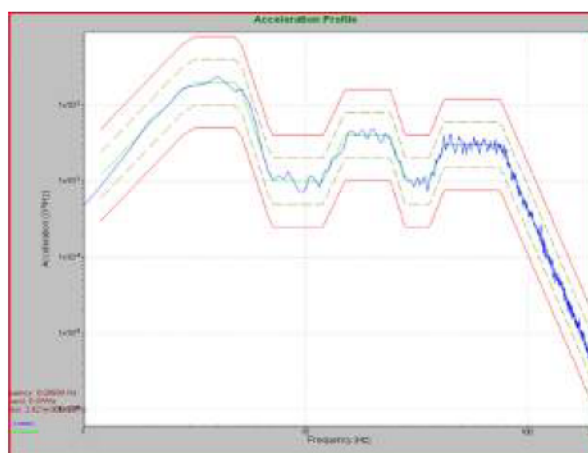
3) Vibration with and Without Load Test

1. Over-The-Road Vibration

Formula, with values, used to calculate	Top load (lbs.)	Total test time (Minutes)	Face resting on platform (Face No.)
TL-H=(108-H) x L x W x 0.0035	300	60	3
TL-W=(108-W) x L x H x 0.0035	215	30	4
TL-L=(108-L) x W x H x 0.0035	140	30	6

Vibration Spectrum:

OVER-THE-ROAD	
Frequency (Hz)	PSD Level, g^2 / Hz
1	0.0007
3	0.02
5	0.02
7	0.001
12	0.001
15	0.004
24	0.004
28	0.001
36	0.001
42	0.003
75	0.003
200	0.000004
$G(m/s^2) = 0.53$	



ISTA 3A – Over-the-Road Trailer Spectrum

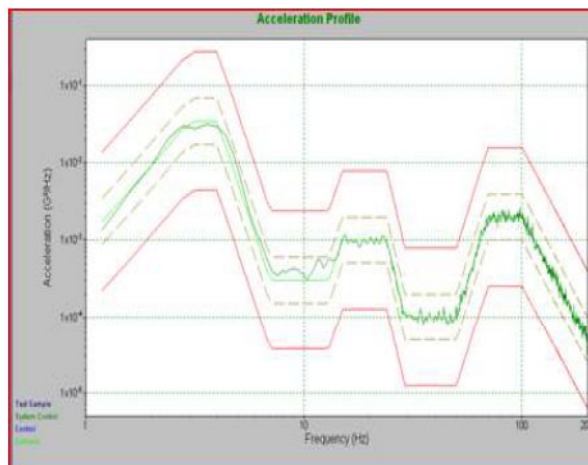
2. Pick-up and Delivery Vibration:

Face resting on platform: Face 3

Total test time: 30 Minutes

Vibration Spectrum:

PICK-UP AND DELIVERY	
Frequency (Hz)	PSD Level, g^2 / Hz
1	0.001
3	0.035
4	0.035
7	0.0003
13	0.0003
15	0.001
24	0.001
29	0.0001
50	0.0001
70	0.002
100	0.002
200	0.00005
$G(m/s^2) = 0.46$	



ISTA 3A – Pick-up and Delivery Vehicle Spectrum



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4) Drop Test

Drop Number	Height of Drop (Inches)	Orientation of Packaged-Product	
10	12	Edge	Edge 3-4
11	12	Edge	Edge 3-6
12	12	Edge	Edge 1-5
13	12	Corner	Corner 3-4-6
14	12	Corner	Corner 1-2-6
15	12	Corner	Corner 1-4-5
16	24	Face	Face 3
17 (on hazard)	12	Face	Face 3

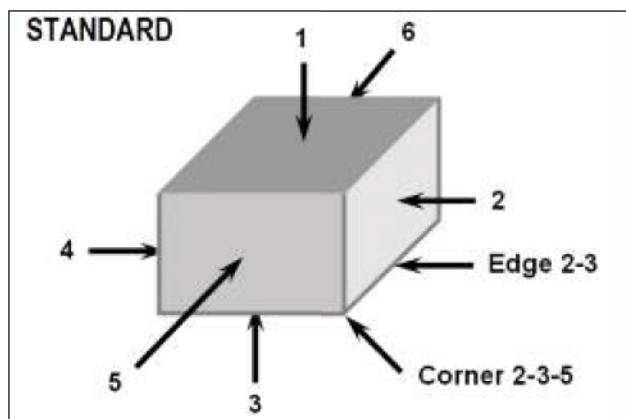
Result: Satisfactory

Package: After performing the above tests, no visible damage was found on the package.

Product: After performing the above tests, no visible damage was found on the product.

Surface Specification

Place the packaged-product so the package is in its most stable orientation, then turn the packaged-product so that one of the smallest faces is directly in front of you. If the one end of the package is noticeably heavier than the other, then position the smallest face with the heaviest end is directly in front of you.



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Photo Appendix

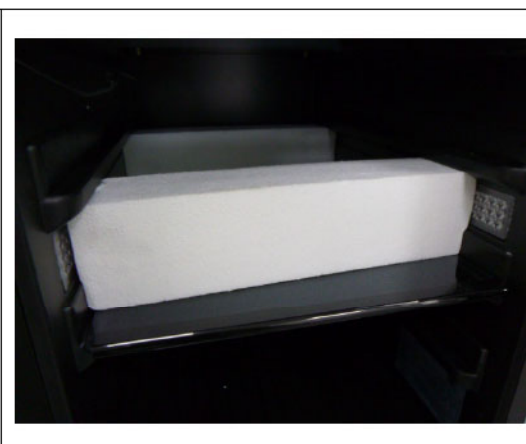
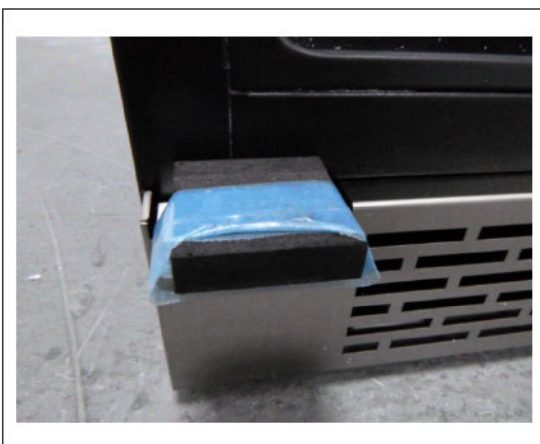
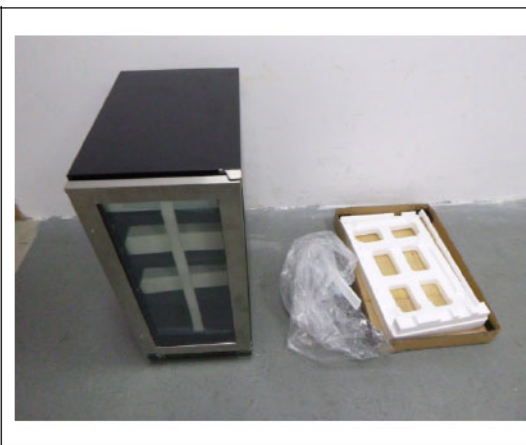


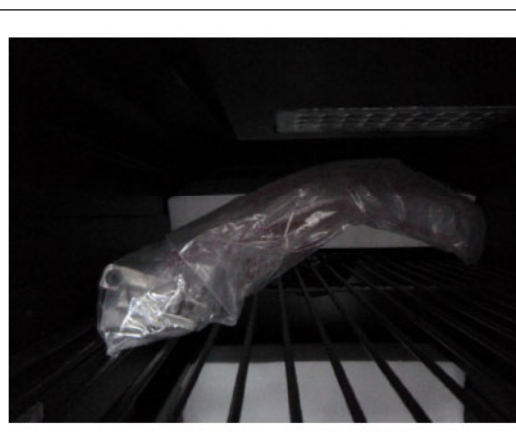
Before Test



After Test







End of Report



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