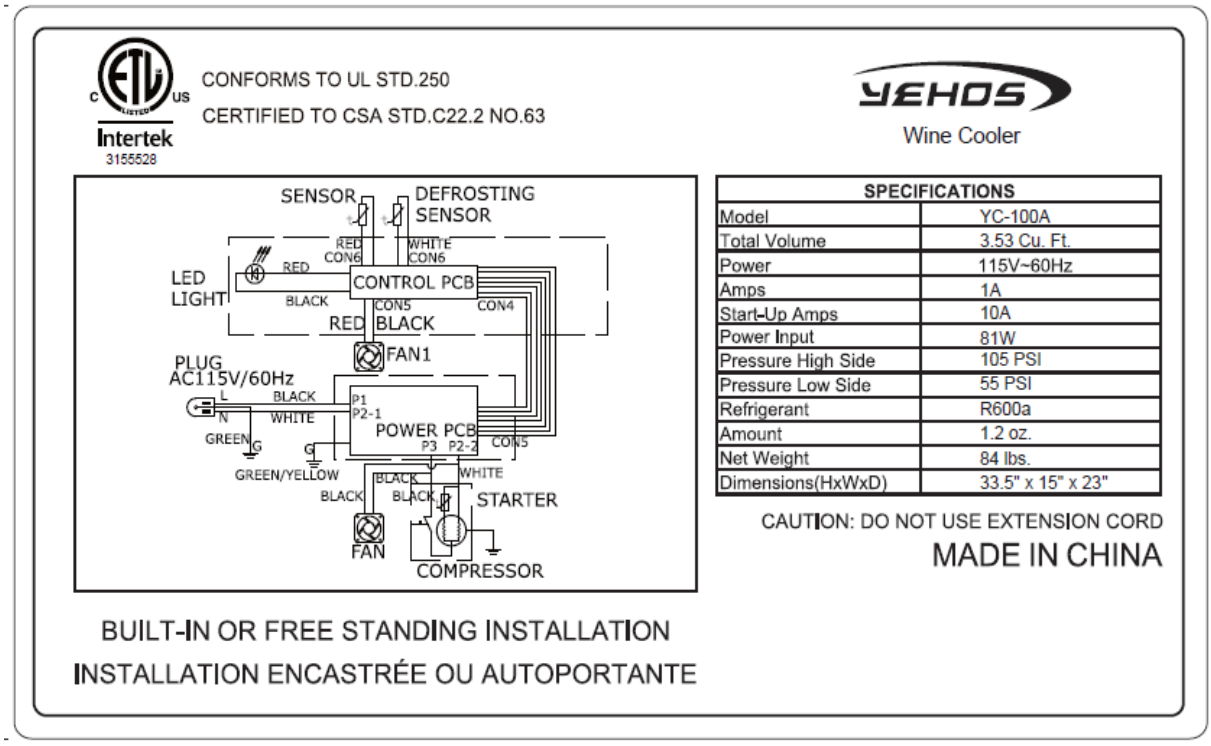
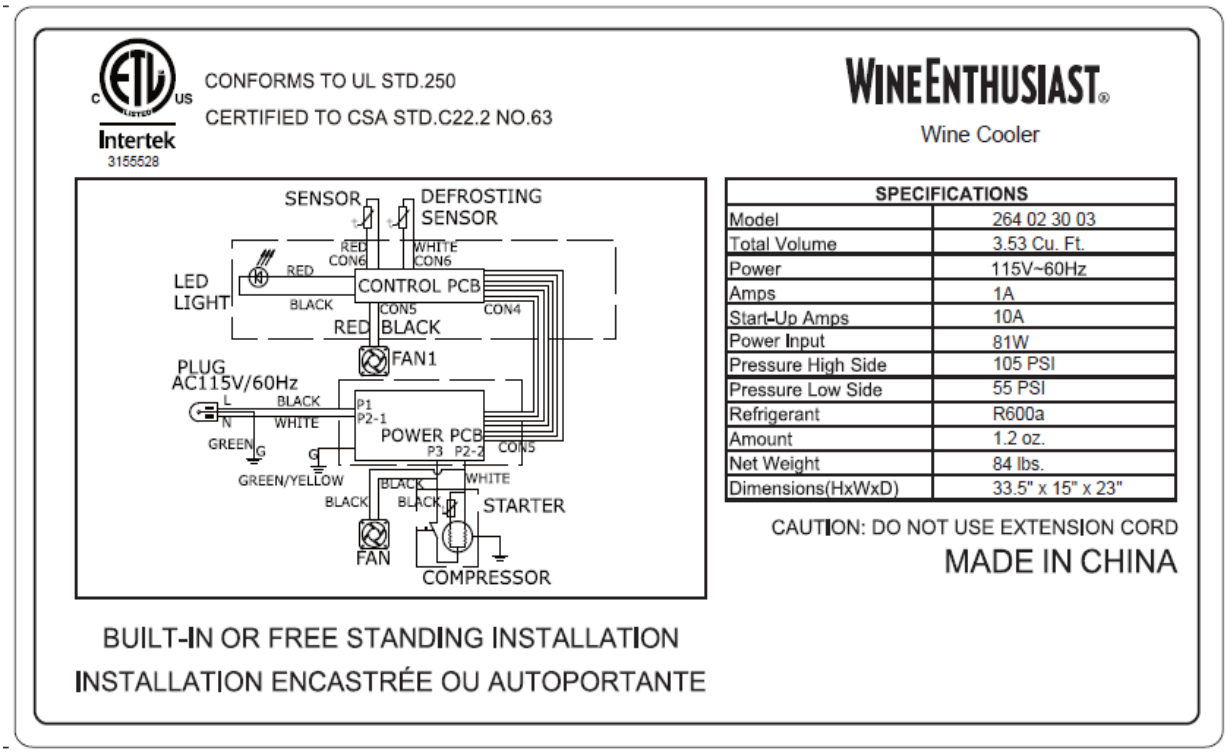
Refrigerating Appliance DOE Test Report

Report Number	181228103GZU-004
Test Laboratory Name / Address	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch Room 02, & 101/E201/E301/E401/E501/E601/E701/E801 of Room 01 1-8/F., No. 7-2. Caipin Road, Science City, GETDD, Guangzhou, Guangdong, China
Applicant Name / Address	ZHONGSHAN YEHOS ELECTRICAL APPLIANCE CO., LTD. No.9, Yuanlin Rd, Nantou Town, Zhongshan, China
Manufacturing Name / Address	Same as Applicant
Product	Cooler
Brand Name	YEHOS (for model YC-100A); AVANTI (for model WCF281E3SS); WINE ENTHUSIAST (for model 264 02 30 03);Colzer (for models CZW30SS1,CZB30SS1)
Description	The product covered by this report is a household, indoor use, cord connected cooler.
Model(s) (if applicable)	YC-100A; WCF281E3SS; 264 02 30 03;CZW30SS1;CZB30SS1
Model Similarity	All the models above are identical except for the brand name and/or model designation and/or temperature control position.
Ratings	115VAC, 60Hz, 1.4A, R600a/1.52Oz
Date of receipt of sample(s)	1/Jun/2019
Date of test	2/Jun/2019 - 13/Jun/2019
Test standard(s) or criteria(s)	10 C.F.R. §430.32(aa)(1) 10 C.F.R. Appendix A to Subpart B of Part 430 Uniform Test Method for Measuring the Energy Consumption of Refrigerators, Refrigerator-Freezers, and Miscellaneous Refrigeration Products
Conclusion	The product tested complies with the Energy Efficiency Standard of DOE, starting on October 28, 2019.
Original Date	13/Jun/2019
Revised	14/Jul/2020

Prepared by:	Approved by:
Signature on file	Signature on file
Felix Li	Jimmy Wang
Sr. Project Engineer	Sr. Project Engineer

Nameplate:


CONFORMS TO UL STD.250
CERTIFIED TO CSA STD.C22.2 NO.63
Intertek
3155528
YEHOS
Wine Cooler
SENSOR
DEFROSTING SENSOR
RED CON6
WHITE CON6
LED LIGHT
RED
CONTROL PCB
BLACK
CON5
CON4
RED
BLACK
FAN1
PLUG AC115V/60Hz
L
N
BLACK
WHITE
GREEN
G
P1
P2-1
POWER PCB
P3
P2-2
CON5
GREEN/YELLOW
BLACK
WHITE
BLACK
BLACK
STARTER
FAN
COMPRESSOR
SPECIFICATIONS
Model YC-100A
Total Volume 3.53 Cu. Ft.
Power 115V~60Hz
Amps 1A
Start-Up Amps 10A
Power Input 81W
Pressure High Side 105 PSI
Pressure Low Side 55 PSI
Refrigerant R600a
Amount 1.2 oz.
Net Weight 84 lbs.
Dimensions(HxWxD) 33.5" x 15" x 23"
CAUTION: DO NOT USE EXTENSION CORD
MADE IN CHINA
BUILT-IN OR FREE STANDING INSTALLATION
INSTALLATION ENCASTRÉE OU AUTOPORTANTE


CONFORMS TO UL STD.250
CERTIFIED TO CSA STD.C22.2 NO.63
Intertek
3155528
WINE ENTHUSIAST
Wine Cooler
SENSOR
DEFROSTING SENSOR
RED CON6
WHITE CON6
LED LIGHT
RED
CONTROL PCB
BLACK
CON5
CON4
RED
BLACK
FAN1
PLUG AC115V/60Hz
L
N
BLACK
WHITE
GREEN
G
P1
P2-1
POWER PCB
P3
P2-2
CON5
GREEN/YELLOW
BLACK
WHITE
BLACK
BLACK
STARTER
FAN
COMPRESSOR
SPECIFICATIONS
Model 264 02 30 03
Total Volume 3.53 Cu. Ft.
Power 115V~60Hz
Amps 1A
Start-Up Amps 10A
Power Input 81W
Pressure High Side 105 PSI
Pressure Low Side 55 PSI
Refrigerant R600a
Amount 1.2 oz.
Net Weight 84 lbs.
Dimensions(HxWxD) 33.5" x 15" x 23"
CAUTION: DO NOT USE EXTENSION CORD
MADE IN CHINA
BUILT-IN OR FREE STANDING INSTALLATION
INSTALLATION ENCASTRÉE OU AUTOPORTANTE

Product Information:

Model of Unit Under Tested	YC-100A
Product Condition	Prototype
Serial No.	NA
Category	3
Product Type	Freestanding compact cooler
Refrigerant	R600a
Charge of refrigerant (Oz)	1.52
Refrigerating type	Compression-type
Condenser type	Fan forced
Condenser location	Bottom
Power Supply	Single Phase
Built-in appliances	No
Overall dimensions (mm)	Width: 380 Depth: 580 Height: 850
Defrosting type	Automatic defrost

Critical Components:

Name	Manufacturer/trademark	Type/model	Technical data
Compressor	HUAGUANG	EY40U6L	115V~, 60Hz, 1PH, R600a

Measurement conditions:

a) General

Test voltage (V):			115
Test Frequency (Hz):			60
Air velocity Range (m/s):	0.04	–	0.16

b) Ambient Temperatures of Energy Consumption Test:

Dry Bulb Range (°C):	32.2±0.6

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
Block E, No.7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou Science City, GETDD, Guangzhou, China

Volume Measurement:

Compartment type	Description	Width (mm)	Depth (mm)	Heigh (mm)	Number	Volume (L)	Volume (Cu.ft)
Cooler compartment	Part 1	306	438	680	1	91.14	3.219
	Part 2	120	120	25	-1	-0.36	-0.013
	Part 3	10	410	20	-10	-0.82	-0.029
	Part 4	10	300	20	-2	-0.12	-0.004
	Part 5	306	105	170	-1	-5.46	-0.193
	Part 6	320	12	680	1	2.61	0.092
					Total:	87.0	3.07

Compartment	Volume (L)	Volume (Cu.ft)
Cooler compartment	87.0	3.07
Total volume	87	3.1
Total adjusted volume	87.0	3.07

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
Block E, No.7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou Science City, GETDD, Guangzhou, China

Energy Consumption Test:

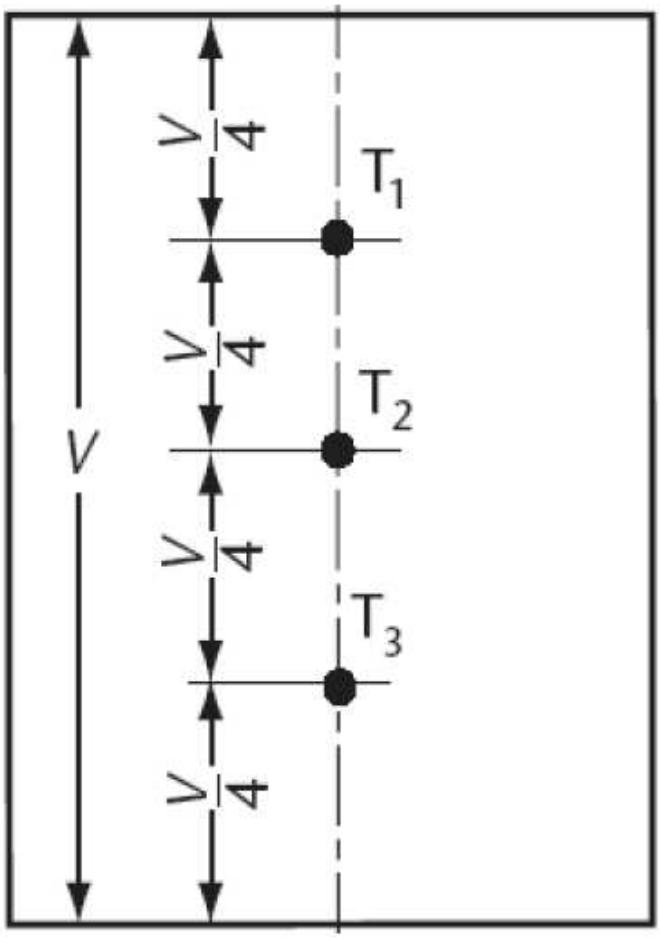
Sample No.	Sample 1	Sample 2	/
Location of thermostat setting of the first test	**Medium**	**Medium**	/
The average temperature in cooler compartment, °F	51.8	54.3	/
Energy expended during the first test period, kWh	0.310	0.306	/
Length of time of the first test period, min	773	762	/
Test cycle energy expended during the first test cycle during, kWh/d	0.318	0.318	/
Location of thermostat setting of the second test	**Warmest**	**Warmest**	/
The average temperature in cooler compartment, °F	62.5	65.0	/
Energy expended during the second test period, kWh	0.206	0.200	/
Length of time of the second test period, min	783	775	/
Test cycle energy expended during the second test cycle, kWh/d	0.208	0.204	/
The average per-cycle energy consumption, kWh/d (TC =55°F)	0.285	0.311	/
Annual Energy Consumption, kW·h/y	104.03	113.52	/

Test Result Summary:

Sampling size	2
Mean of sample	108.78
Sample standard deviation	6.710
UCL/1.1	126.13
The decided Annual Energy Consumption, kWh/Year	126.13
The decided Daily Energy Consumption, kWh/d	0.346
The rated energy consumption, kWh/Year	/
Maximum energy consumption limit, kWh/Year	180
Verdict	Pass

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
Block E, No.7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou Science City, GETDD, Guangzhou, China

Temperature measurement in cooler compartment:



Photos:

Photo 1 - Front view

Photo 2 - Back view

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
Block E, No.7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou Science City, GETDD, Guangzhou, China

Photo 3 - Front view with open door

Photo 4 - Label of compressor

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
Block E, No.7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou Science City, GETDD, Guangzhou, China

Revision Summary

Date/ Proj # Site ID	Project Handler/ Reviewer	Item	Description of Change
14-Jul-2020	Richard Zhang	Page 1	Updated applicant address
200710001GZU	Taylor Cai		Added models CZW30SS1;CZB30SS1 with brand name Colzer
			Updated Test standard(s) or criteria(s) and conclusion.

--THE END--

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
Block E, No.7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou Science City, GETDD, Guangzhou, China