


<b>Prüfbericht-Nr.:</b> <i>Test report No.:</i>	<b>50350266 008</b>	<b>Auftrags-Nr.:</b> <i>Order No.:</i>	170134822	Seite 1 von 11 Page 1 of 11	
<b>Kunden-Referenz-Nr.:</b> <i>Client Reference No.:</i>	2058356	<b>Auftragsdatum:</b> <i>Order date:</i>	04.03.2020		
<b>Auftraggeber</b> <i>Client:</i>	Guangzhou Boasi Appliance Co., Ltd. No. 5, Luo Gang Industrial Zone Xin Shi Road, Xin Shi Town Guangzhou, Guangdong 510430, P. R. China				
<b>Prüfgegenstand</b> <i>Test item:</i>	<b>Commercial beverage cooler</b>				
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type No.:</i>	LG-360X				
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	Test on energy consumption				
<b>Prüfgrundlage:</b> <i>Test specification:</i>	EN 16902:2016 COMMISSION REGULATION (EU) 2019/2024 COMMISSION DELEGATED REGULATION (EU) 2019/2018				
<b>Wareneingangsdatum:</b> <i>Date of receipt:</i>	26.04.2020				
<b>Prüfmuster-Nr.:</b> <i>Test sample No.:</i>	170134822-8				
<b>Prüfzeitraum:</b> <i>Testing period:</i>	26.04.2020-18.05.2020				
<b>Ort der Prüfung:</b> <i>Place of testing:</i>	Guangzhou Boasi Appliance Co., Ltd.				
<b>Prüflaboratorium</b> <i>Testing laboratory:</i>	TÜV Rheinland Guangdong Ltd.				
<b>Prüfergebnis*:</b> <i>Test result*:</i>	Pass				
<b>geprüft/ tested by:</b>	<b>kontrolliert/ reviewed by:</b>				
05.06.2020	Edward Zheng / PE	<i>Edward Zheng</i>	05.06.2020	Stone Shi / TC	
<b>Datum</b> <i>Date</i>	<b>Name/Stellung</b> <i>Name/Position</i>	<b>Unterschrift</b> <i>Signature</i>	<b>Datum</b> <i>Date</i>	<b>Name/Stellung</b> <i>Name/Position</i>	<b>Unterschrift</b> <i>Signature</i>
<b>Sonstiges / Other:</b>					
N/A					
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <i>Condition of the test item at delivery:</i>			Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
<p>*Legende: 1 = sehr gut      2 = gut      3 = befriedigend      4 = ausreichend      5 = mangelhaft  P(ass) = entspricht o.g. Prüfgrundlage(n)    F(ail) = entspricht nicht o.g. Prüfgrundlage(n)    N/A = nicht anwendbar    N/T = nicht getestet</p> <p>Legend: 1 = very good      2 = good      3 = satisfactory      4 = sufficient      5 = poor  P(ass) = passed a.m. test specification(s)    F(ail) = failed a.m. test specification(s)    N/A = not applicable    N/T = not tested</p>					
<p><b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b>  <i>This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p>					

v04

**General product information and characteristics:**

Model	LG-360X
Manufacturer	Guangzhou Boasii Appliance Co., Ltd. No. 5, Luo Gang Industrial Zone Xin Shi Road, Xin Shi Town Guangzhou, Guangdong 5104'30, P. R. China.
Factory	Same as manufacturer
Commercial beverage cooler family	BCVTn (Vertical, Closed transparent door, EMD no)
Number of glass doors	1 doors for one compartment
Voltage and frequency	220-240V, 50Hz
Lamp power	7W + 3W (With switch)
Gross volume	347L
Test room climate class	CC3
Refrigerant	R600a/ 80g
Internal fittings	Shelves
M-can temperature class	K2
Compressor type	Single speed
The method of temperature control	Mechanical thermostat
Overall external dimensions at installation	620mm(W) x 620mm(D) x 1950mm(H)
Overall external dimensions in service	620mm(W) x 640mm(D) x 1950mm(H)
Footprint	0.38m <sup>2</sup>

**Summary of testing:**

1. The appliance was tested according to COMMISSION REGULATION (EU) 2019/2024, COMMISSION DELEGATED REGULATION (EU) 2019/2018 and EN 16902:2016.
2. The tests were performed on the model LG-360X at voltage 230V, 50Hz.
3. Energy consumption test test was conducted at 25.0°C and 60%Rh.
4. The bottom space inside the appliance is designed to store package beverage without shelves.

**Summary of test result:**

Daily energy consumption	1.984 kWh/d
Total gross volume	354 L
Test EEI	42.4%
Test energy efficiency classes	D

**Place of testing:**

Guangzhou Boasii Appliance Co., Ltd.

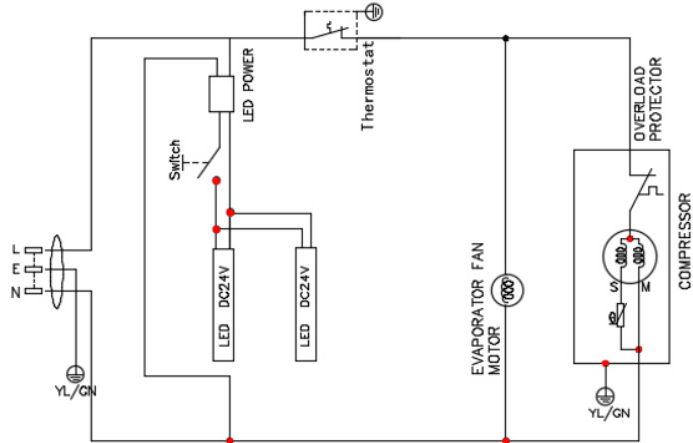
No. 5, Luo Gang Industrial Zone Xin Shi Road, Xin Shi Town Guangzhou, Guangdong 510430, P. R. China.

Copy of marking plate:

# COMMERCIAL BEVERAGE COOLER

MODEL	LG-360X
GROSS VOLUME	347L
RATED VOLTAGE RANGE	220-240V~
RATED FREQUENCY	50Hz
ENERGY CONSUMPTION	2.0kWh/24h
RATED CURRENT	1.30A
INSULATION BLOWING GAS	C-pentane
REFRIGERANT (CHARGE)	R600a/80g
TEST ROOM CLIMATE CLASS	CC3
TYPE OF PREVENTING FROM ELECTRIC SHOCK	I
NET WEIGHT	75kg
LAMP POWER	MAX LED 7W+3W
M-CAN TEMPERATURE CLASS	K2
INTERNAL FITTINGS	SHELVES
EN16902:2016	

## ELECTRIC CIRCUIT DIAGRAM



Guangzhou Boasi Appliance Co., Ltd.

No.5,Lou guang Industrial Zone Xinshi Road Xinshi Town Guangzhou,Guangdong 510430 P.R.C.China



**Detailed test results:**

**1. Energy consumption measurements:**

Measured ambient temperature (°C)	24.0
Measured ambient humidity (%Rh)	60.4
Temperature control settings	5.0
EMD mode	Without
Total test can number	301
Highest temperature of warmest M-cans $\theta_{ah}$ (°C)	5.3
Lowest temperature of coldest M-cans $\theta_b$ (°C)	-0.3
Average mean temperature $\theta_m$ (°C)	2.3
Energy consumption of 12h with lamp switch on (kWh/12h)	1.125
Energy consumption of 12h with lamp switch off (kWh/12h)	0.859
Compressor overall switching on/off frequency (min / min)	586 / 854
Compressor relative running time	40.69%
Daily energy consumption	1.984

**2. Gross volume test:**

Item	Rated	Measured	limit: $\geq 100\%$
Total gross volume	347L	354L	102.0%

**3. Calculation of Energy Efficiency Index**

Gross volume (L)	347
Average compartment temperature $T$ (°C)	2.5
Climate class factor CC	1.10
Equivalent volume of the compartments $Y$ (L) $Y = \text{GrossVolume} \times ((25 - T) / 20) \times CC$	429.41
Modelling parameters M	2.1
Modelling parameters N	0.006
Temperature coefficient C	1.00
Correction factor P	1.00
Standard annual energy consumption $SAE$ (kWh/a) $SAE = 365 \times P \times (M + N \times Y) \times C$	1706.91
Annual energy consumption $AE$ (kWh/a)	724.16
EEI (Shall not more than 100% according to Table 1 of ANNEX II of COMMISSION REGULATION (EU) 2019/2024)	42.4%
Energy efficiency class according to Table 1 of ANNEX II of COMMISSION DELEGATED REGULATION (EU) 2019/2018	D ( $35\% \leq EEI < 50\%$ )

**Attachment 1: Load plan**

Top shelf:

M17						M19
M18						M20

2<sup>nd</sup> shelf:

M13						M15
M14						M16

3<sup>rd</sup> shelf:


M9						M11
M10						M12


4<sup>th</sup> shelf:


M5						M7
M6						M8

Bottom shelf:

M1						M3
M2						M4

 : double layers

 : single layer

 : M-can on the top layer

**Attachment 2: Photos**



Picture 1



Picture 2



Picture 3



Picture 4





Picture 5



Picture 6

**Attachment 3: Product information sheet**

**Supplier's name or trade mark:** Guangzhou Boasi Appliance Co., Ltd.

**Supplier's address:** No. 5, Luo Gang Industrial Zone Xin Shi Road, Xin Shi Town Guangzhou, Guangdong 510430, P. R. China

**Model identifier:** LG-360X

**Use:** Display and sale

**Type of refrigerating appliance with a direct sales function: Beverage coolers**

Cabinet family code, according to the harmonised standards or other reliable, accurate and reproducible methods in accordance with Annex IV. BCVTn

**Product specific parameters****1. Beverage coolers**

Gross volume (dm <sup>3</sup> or L)	Ambient conditions for which the appliance is suitable (according to Table 6)	
	Warmest temperature (°C)	Relative humidity (%)
347	40.6	75

**General product parameters:**

Parameter	Value	Parameter	Value
Annual energy consumption (kWh/a)	730,00	Recommended temperature(s) for optimised food storage (°C) (These settings shall not contradict the temperature conditions set out in Annex IV, Table 4, 5 or 6, as applicable)	-1 - +6
EEl	42,8%	Energy efficiency class	D

**Attachment 4: Product specifications****General product specifications:**

Parameter	Value	Parameter	Value
Annual energy consumption (kWh/a)	730,00	Standard annual energy consumption (kWh/a)	1706,91
Daily energy consumption (kWh/24h)	2,000	Ambient conditions	Set 1
M	2,1	N	0,006
Temperature coefficient (C)	1,00	Y	429,41
P	1,00		
Climate class factor (CC)	1,10	Target temperature ( $T_c$ ) (°C)	2,5

--End of report--