

Test Report issued under the responsibility of:



TEST REPORT IEC 60335-2-89 Safety of household and similar electrical appliances Part 2: Particular requirements for commercial refrigerating appliances with an incorporated or remote refrigerant condensing unit or compressor	
Report Number.	210400541HZH-001
Date of issue	2021-04-28
Total number of pages	11 pages test report
Applicant's name	NINGBO HANMING TECHNOLOGY INC
Address	No.39 East Zhubei Road, MaZhu Town, YuYao City Zhejiang Province 315450, CHINA
Test specification:	
Standard	EN 60335-2-89:2010+ A1:2016+ A2:2017 EN 60335-1:2012+ A11:2014+ AC:2014+ A13:2017+ A1:2019+ A14:2019+ A2:2019 EN 62233:2008
Test procedure	UKCA
Non-standard test method	N/A
Test Report Form No.	IEC60335_2_89G
Test Report Form(s) Originator	IMQ S.p.A.
Master TRF	Dated 2015-06
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Test item description	Refrigeration cooler			
Trade Mark	/			
Manufacturer.....	NINGBO HANMING TECHNOLOGY INC			
Model/Type reference	BC-29, BC-29CE, SC-29, SC-29CE, BC-30, BC-30CE, SC-30, SC-30CE, BC-50, BC-50CE, SC-50, SC-50CE, BC-59, BC-59CE, SC-59, SC-59CE, BC-89, BC-89CE, SC-89, SC-89CE, BC-120, BC-120CE, SC-120, SC-120CE, BC-125, BC-125CE, SC-125, SC-125CE, BC-145, BC-145CE, SC-145, SC-145CE, BC-152, BC-152CE, SC-152, SC-152CE, BD-47, BD-47CE, SD-47, SD-47CE, BD-83, BD-83CE, SD-83, SD-83CE, BD-105, BD-105CE, SD-105, SD-105CE, BC-230, BC-230CE, SC-230, SC-230CE, BC-282, BC-282CE, SC-282, SC-282CE, BC-300, BC-300CE, SC-300, SC-300CE, BC-400, BC-400CE, SC-400, SC-400CE, BD-115, BD-115CE, SD-115, SD-115CE, CMS29, CMG29, CMS59, CMG59, CMS125, CMG125, CMS300, CMG300, CMS400, CMG400, PPR36 SD, PPR36, MF30L-CD, PPR66 SD, MF60L-CD, PPR66, PPR145 SD, PPR145, PPR300 SD, PPR300, PPR400 SD, MF400L-CD, PPR400, CMLFR145, PSPR145, MF140L-CD, PLUF105-40, CMLFZ115, PSPF115, PLUF115-20, CMLFZ47, CMWF29, CMWF59, CMWF125, CMWF300, CMWF400, CMN29, CMN59, CMN125, CMN300, CMN400, CMLFZN47, CMLFZN115, CMLFRN145, BC-56, SC-56, BC-56CE, SC-56CE, BC-58, SC-58, BC-58CE, SC-58CE, BC-60, SC-60, BC-60CE, SC-60CE, BC-320, SC-320, BC-320CE, SC-320CE, CMS320, CMG320, BC-480, SC-480, BC-480CE, SC-480CE, CMS500, CMG500			
Ratings	220-240V~, 50Hz, Class I, Climate class: 4, C ₅ H ₁₀			
	Model	Current (A)	Refrigerant	Volume (L)
	BC-29, BC-29CE, SC-29, SC-29CE, CMS29, CMG29, PPR36 SD, CMWF29, CMN29, PPR36	0,45	R600a/24g	36
	BC-30, BC-30CE, SC-30, SC-30CE, MF30L-CD	0,45	R600a/24g	30
	BC-50, BC-50CE, SC-50, SC-50CE,	0,55	R600a/26g	50
	BC-59, BC-59CE, SC-59, SC-59CE, CMS59, CMG59, CMWF59, CMN59, PPR66 SD, MF60L-CD, PPR66	0,45	R600a/30g	66
	BC-89, BC-89CE, SC-89, SC-89CE	0,55	R600a/32g	89
	BC-120, BC-120CE, SC-120, SC-120CE	0,8	R600a/56g	120

BC-125, BC-125CE, SC-125, SC-125CE, BC-145, BC-145CE, SC-145, SC-145CE, CMS125, CMG125, CMWF125, CMN125, PPR145 SD, PPR145	0,6	R600a/32g	150
BC-152, BC-152CE, SC-152, SC-152CE	0,8	R600a/56g	152
BD-47, BD-47CE, CMLFZ47, CMLFZN47	0,6	R600a/34g	47
SD-47, SD-47CE	0,8	R600a/34g	47
BD-83, BD-83CE	0,8	R600a/44g	83
SD-83, SD-83CE	1,1	R600a/44g	83
BD-105, BD-105CE, PLUF105-40	0,65	R600a/44g	105
SD-105, SD-105CE	1,0	R600a/44g	105
BC-230, BC-230CE, SC-230, SC-230CE	1,2	R600a/84g	230
BC-282, BC-282CE, SC-282, SC-282CE	1,3	R600a/84g	282
BC-300, BC-300CE, SC-300, SC-300CE, CMS300, CMG300, CMWF300, CMN300, PPR300 SD, PPR300	1,2	R600a/104g	300
BC-400, BC-400CE, SC-400, SC-400CE, CMS400, CMG400, PPR400 SD, MF400L-CD, PPR400, CMWF400, CMN400	1,3	R600a/108g	430
BD-115, BD-115CE, CMLFZ115, CMLFZN115, PSPF115, PLUF115-20	0,65	R600a/40g	115
SD-115, SD-115CE	1,0	R600a/40g	115
BC-56, SC-56, BC-56CE, SC-56CE	0,45	R600a/30g	56
BC-58, SC-58, BC-58CE, SC-58CE	0,45	R600a/30g	58
BC-60, SC-60, BC-60CE, SC-60CE	0,45	R600a/30g	60
BC-320, SC-320, BC- 320CE, SC-320CE, CMS320, CMG320	1,7	R290a/98g	320
BC-480, SC-480, BC- 480CE, SC-480CE, CMS500, CMG500	1,7	R290a/98g	480

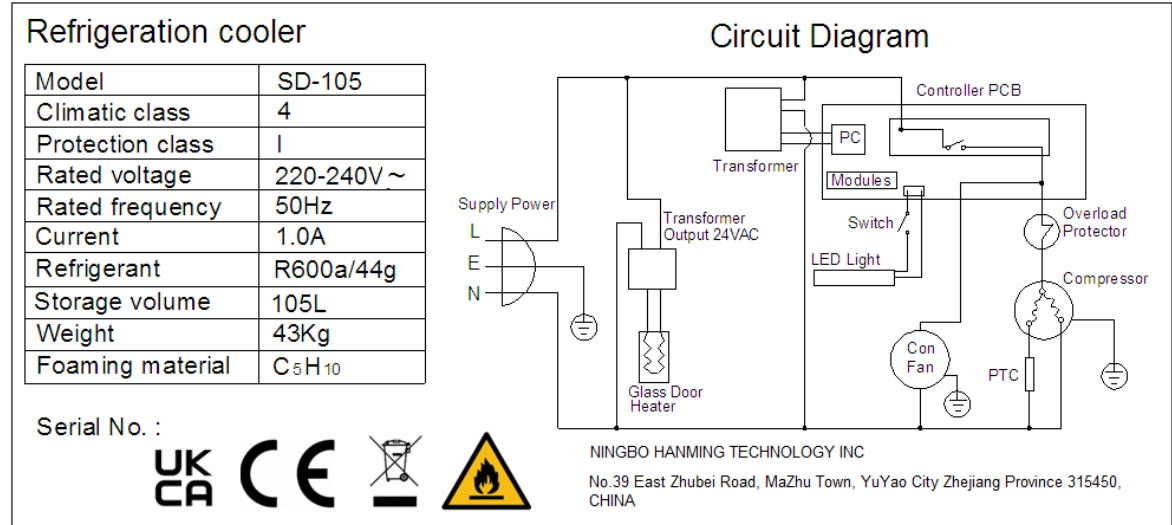
Testing procedure and testing location:		
<input checked="" type="checkbox"/>	Testing Laboratory:	Intertek Testing Services Zhejiang Ltd., Hangzhou Branch
Testing location/ address		16 No. 1 Ave., Xiasha Economic Development District, Hangzhou 310018, China
<input type="checkbox"/>	Associated CB Testing Laboratory:	N/A
Testing location/ address		N/A
Tested by (name + signature)		Kyrie Wang/ Engineer <i>Kyrie Wang</i>
Approved by (name + signature)		Allen Ding/ Reviewer
Testing procedure: CTF Stage 1:		
Testing location/ address		N/A
Tested by (name + signature)		N/A
Approved by (name + signature)		N/A
Testing procedure: CTF Stage 2:		
Testing location/ address		N/A
Tested by (name + signature)		N/A
Witnessed by (name + signature)		N/A
Approved by (name + signature)		N/A
Testing procedure: CTF Stage 3:		
Testing procedure: CTF Stage 4:		
Testing location/ address		N/A
Tested by (name + signature)		N/A
Witnessed by (name + signature)		N/A
Approved by (name + signature)		N/A
Supervised by (name + signature)		N/A

List of Attachments (including a total number of pages in each attachment): None.	
Summary of testing: From the result of our inspection and tests on the submitted samples, we conclude that they comply with the requirements of the standards.	
Tests performed (name of test and test clause): Refer to 160600647HZH-001 with its amendment A1, A2, A3 and A4.	Testing location: Intertek Testing Services Zhejiang Ltd., Hangzhou Branch 16 No. 1 Ave., Xiasa Economic Development District, Hangzhou 310018, China
Summary of compliance with National Differences: The national difference of EU and UK has been checked	

Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

(Representative)



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

C₅H₁₀
Insulation Blowing Gas



Warning: Risk of fire / flammable materials

Test item particulars..... :	
Classification of installation and use..... : Stationary, commercial and indoor use	
Supply Connection : Type Y	
Possible test case verdicts:	
- test case does not apply to the test object: N/A	
- test object does meet the requirement: P (Pass)	
- test object does not meet the requirement: F (Fail)	
Testing:	
Date of receipt of test item.....: N/A	
Date (s) of performance of tests: N/A	
General remarks:	
<p>"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report.</p> <p>This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program</p> <p>Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.</p> <p>Throughout this report a <input checked="" type="checkbox"/> comma / <input type="checkbox"/> point is used as the decimal separator.</p>	
Manufacturer's Declaration per sub-clause 4.2.5 of IEC 60335-1:	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided.....:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not applicable
When differences exist; they shall be identified in the General product information section.	
Name and address of factory (ies): NINGBO HANMING TECHNOLOGY INC No.39 East Zhubei Road, Mazhu Town, Yuyao City Zhejiang Province 315450, China	

General product information:

The products covered by this report are refrigeration coolers for commercial and indoor use.

BD, BC series are with solid doors and SC, SD series are with glass doors.

SD-47, SD-47CE, SD-83, SD-83CE, SD-105, SD-105CE, SD-115, SD-115CE are with door heater and transformer for door heater;

All models except SD-115, SD-115CE, BD-115, BD-115CE employ LED;

Differences in component refer to table 24.1.

CMS29 is the same with BC-29 except model name.

CMG29 is the same with SC-29 except model name.

CMS59 is the same with BC-59 except model name.

CMG59 is the same with SC-59 except model name.

CMS125 is the same with BC-125 except model name.

CMG125 is the same with SC-125 except model name.

CMS300 is the same with BC-300 except model name.

CMG300 is the same with SC-300 except model name.

CMS400 is the same with BC-400 except model name.

CMG400 is the same with SC-400 except model name.

CMWF29 and CMN29 are the same with BC-29 except model name.

PPR36 SD is the same with BC-29CE except model name.

PPR36 is the same with SC-29CE except model name.

MF30L-CD is the same with BC-30CE except model name.

CMLFZ47 and CMLFZN47 are the same with BD-47 except model name.

CMWF59 and CMN59 are the same with BC-59 except model name.

PPR66 SD and MF60L-CD are the same with BC-59CE except model name.

PPR66 is the same with SC-59CE except model name.

PLUF105-40 is the same with BD-105CE except model name.

CMLFZ115 and CMLFZN115 are the same with BD-115 except model name.

PSPF115 and PLUF115-20 are the same with BD-115CE except model name.

CMWF125 and CMN125 are the same with BC-125 except model name.

PPR145 SD is the same with BC-125CE except model name.

PPR145 is the same with SC-125CE except model name.

CMLFR145 and CMLFRN145 are the same with BC-145 except model name.

PSPR145 and MF140L-CD are the same with BC-145CE except model name.

CMWF300 and CMN300 are the same with BC-300 except model name.

PPR300 SD is the same with BC-300CE except model name.

PPR300 is the same with SC-300CE except model name.

PPR400 SD and MF400L-CD are the same with BC-400CE except model name.

PPR400 is the same with SC-400CE except model name.

CMWF400 and CMN400 are the same with BC-400 except model name.

BC-56, BC-56CE, BC-58, BC-58CE is similar with BC-59 except for volume.

SC-56, SC-56CE, SC-58, SC-58CE is similar with SC-59 except for volume.

BC-60, BC-60CE is similar with BC-59 except bottom shape.

SC-60, SC-60CE is similar with SC-59 except bottom shape.

BC-320 and BC-320CE is similar with BC-480 and BC-480CE except for volume.

SC-320 and SC-320CE is similar with SC-480 and SC-480CE except for volume.

CMS500 is similar with BC-480 except for model name, so is CMG500 and SC-480, CMS320 and BC-320, CMG320 and SC-320.

Summary:

This test report should be read together with test report 160600647HZH-001 dated on 2016-12-22, with amendment 1, dated on 2018-3-28, amendment 2, dated on 2019-9-20, amendment 3, dated on 2020-11-1 and amendment 4, dated on 2021-04-28 to include the following additions:

- 1.National difference for UK were checked.

After review, all tests have been covered by test report 160600647HZH-001 with its amendment A1, A2, A3 and A4.

IEC 60335-2-89			
Clause	Requirement + Test	Result - Remark	Verdict
ZA	ANNEX ZA (NORMATIVE) SPECIAL NATIONAL CONDITIONS		
	Ireland and United Kingdom		
25.8	In the table, the lines for 10 A and 16 A are replaced by:		
	> 10 and ≤ 13 1,25 (1,0) ^b	<10	N/A
	> 13 and ≤ 16 1,5 (1,0) ^b		N/A
ZB	ANNEX ZB (INFORMATIVE) A-DEVIATIONS		
	United Kingdom		
25.1 and 25.25	These regulations apply to all plugs for domestic use at a voltage of not less than 200 V and in general allow only plugs to BS 1363 to be fitted to domestic appliances.		P
	It also allows plugs to BS 4573 and EN 50075 to be fitted to shavers and toothbrushes		N/A

IEC 60335-2-89			
Clause	Requirement + Test	Result - Remark	Verdict

24.1	TABLE: Critical components information					P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity1)	
Power plug for United Kingdom*	Yuyao Anlian Electronics Science & Technology Co. Ltd.	AL-82 AL-82A	250V~	BS 1363-1	ASTA*/1037	
*: the rating of BS fuse-links shall be employed according to the table 2 of BS 1363-1:2016+A1:2018						
Supplementary information:						
1) Provided evidence ensures the agreed level of compliance. See OD-2039.						