



Modification Report

Report number: 701330/1 Project number: 702229 Date: April 27, 2020

Products: Outdoor use gas stove

Model No:

1-5128, 2-5128, 3-5128, 2-5128D, 3-5128D, 1-N5-H, 2-N5-H, 3-N5-H,
1-N5-H (110), 2-N5-H(110), 3-N5-H(110), 1-N5-M, 2-N5-MD, 3-N5-MD,
2-N5-1608, 3-N5-1608, 1-N5-1605XS-90, 2-N5-1605XS-90,
3-N5-1605XS-90, 1-N5-1605XS, 2-N5-1605XS, 3-N5-1605XS,
GC-87BX, D4-SY

Manufacturer:

Xunda Science & Technology Group Co. Ltd.

Manufacturer Address:

Xunda Science & Technology Park, Xunda Road, High-tech District,
Xiangtan, Hunan province, China

CONCLUSION

The above described appliances are evaluated with the requirements and test methods of EN484:2019 for Outdoor use gas stove with appliances categories I_{3B/P}(30), I₃₊(28-30/37), I_{3B/P}(37), I_{3B/P}(50) and to demonstrate compliance with the essential requirements of Gas Appliance Regulation (EU)2016/426.

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All tests mentioned in this report have been carried out at Kiwa Gastec (China) Ltd., unless otherwise stated. Test reports from Kiwa Gastec (China) Ltd. are issued within the IAS TL-657 accreditation. When stating conformity with a specified requirement, the decision rules applied procedure 2 "accuracy method" as stated in the IEC guide 115: 2007. This report may only be duplicated as a complete set without any modifications. The test results in this report are exclusively related to the samples offered and tested.

Version: KGGZ-LAB-F-103 version 2.0,

HISTORY SHEET

Date: 08 Nov, 2018 Author: Joe Zeng Report No.: 701330 Project No.: 701330	Description: Initial report for 22 models of outdoor use gas stove, 1-5128, 2-5128, 3-5128, 2-5128D, 3-5128D, 1-N5-H, 2-N5-H, 3-N5-H, 1-N5-H(110), 2-N5-H(110), 3-N5-H(110), 1-N5-M, 2-N5-MD, 3-N5-MD, 2-N5-1608, 3-N5-1608, 1-N5-1605XS-90, 2-N5-1605XS-90, 3-N5-1605XS-90, 1-N5-1605XS, 2-N5-1605XS, 3-N5-1605XS. They applied for CE GAR certification. Appliance categories: l _{3B/P(30)} , l _{3+(28-30/37)} , l _{3B/P(37)} , l _{3B/P(50)} .
Date: 27 Apr, 2020 Author: Gin Dai Report No.: 701330/1 Project No.: 702229	Description: 1, Transfer Xunda models GC-87BX and D4-SY in TUV report and certificate to Kiwa report. 2, Update models 1-5128, 2-5128, 3-5128, 2-5128D, 3-5128D, 1-N5-H, 2-N5-H, 3-N5-H, 1-N5-H (110), 2-N5-H(110), 3-N5-H(110), 1-N5-M, 2-N5-MD, 3-N5-MD, 2-N5-1608, 3-N5-1608, 1-N5-1605XS-90, 2-N5-1605XS-90, 3-N5-1605XS-90, 1-N5-1605XS, 2-N5-1605XS, 3-N5-1605XS, GC-87BX and D4-SY to the standard EN484:2019. 3, Add category l _{3B/P(37)} to models GC-87BX and D4-SY.

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DESCRIPTION OF THE PRODUCT

Name of Manufacturer	:	Xunda Science & Technology Group Co. Ltd.
Trade name	:	Xunda
Appliance type:	:	A (outdoor use only)
PIN:	:	1336CT002

Appliance description

24 types of outdoor table-top gas stoves, sharing either single valve type or double valve type. All the models have the same ignition method: Piezoelectric ceramic ignition, no FFD and lid design.

1-5128, 1-N5-M and 1-N5-H have one burner, 2-N5-MD and 2-N5-H have two burners. 3-N5-MD and 3-N5-H have three burners. The same rule for 1-N5-1605XS-90, 2-N5-1605XS-90, 3-N5-1605XS-90; 1-N5-H(110), 2-N5-H(110), 3-N5-H(110); etc.

1-N5-M, 2-N5-MD, 3-N5-MD, 2-N5-1608 and 3-N5-1608 have glass control panel. They used the same dimension of glass panel, control knob and the same material of round pan support and burner. But the burner structure, injector, gas valve and pan support shape are different. Gas valve for 2-N5-1608 and 3-N5-1608: Xunda FJZ-C00SZ6-108A, FJZ-C00DM6-108A; For 1-N5-M, 2-N5-MD and 3-N5-MD: Xunda FJZ-C30SZ6-106, FJZ-C15SZ6-107, FJZ-C15DM6-107.

1-N5-1605XS-90, 2-N5-1605XS-90 and 3-N5-1605XS-90 are stainless steel panel hotplates and have three types of burner in common: burner A, B and C. While 1-N5-1605XS, 2-N5-1605XS and 3-N5-1605XS are stainless steel panel hotplates and have two types of burner in common: burner A and B. pan support: round enameled steel. These six burners have the same control knob, gas valve, pan support, shape and material of control panel but different injector and burner structure. Gas valve used: Xunda CK-830D/0, CK-830SZ/0.

Model GC-87BX is gas stove for outdoor use. It is equipped a single ring burner, a double ring burner and a grill burner, and each burner is equipped with independent ignition device for categories I₃₊, I_{3B/P(30)}, I_{3B/P(37)}, I_{3B/P(50)} and nominal neat input is 3.4kW for sing ring burner, 4.1kW for double ring burner and 2.2kW for grill burner. The grill burner has two purposes. When it is used with the pan support, it can be used as the boiling water stove burner. When the grill burner is used with the bottom oven, it becomes the grill burner.

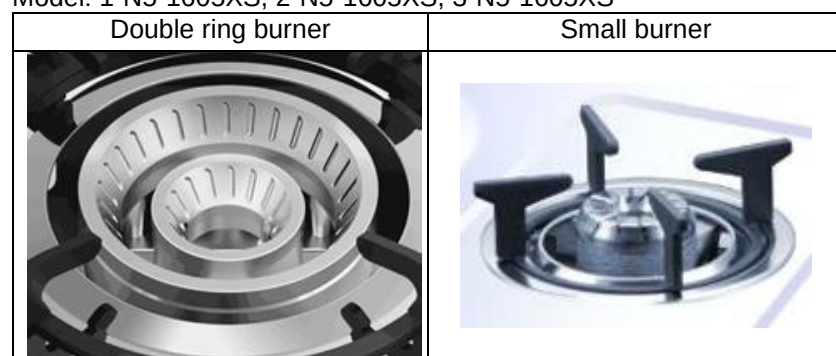
Model D4-SY is gas stove for outdoor use. It is equipped 4 burners: two same single ring burners, a double ring burner and a small burner, and each burner is equipped with independent ignition device for categories I₃₊, I_{3B/P(30)}, I_{3B/P(37)}, I_{3B/P(50)} and nominal heat input is 3.0kW for each single ring burner, 4.0kW for double ring burner and 1.3kW for small burner.

Burner type:

Model: 1-N5-1605XS-90, 2-N5-1605XS-90, 3-N5-1605XS-90, 1-N5-H, 2-N5-H, 3-N5-H, 2-5128, 3-5128

Double ring burner	Single ring burner	Small burner
		

Model: 1-N5-1605XS, 2-N5-1605XS, 3-N5-1605XS



Model: 2-N5-1608, 3-N5-1608



Model: 3-N5-MD, 2-N5-MD, 3-5128D, 2-5128D



Model: 1-N5-M



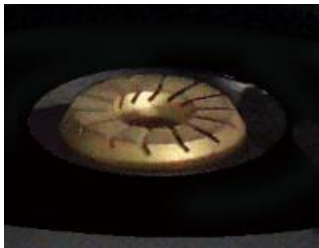
Model: 1-N5-H(110), 2-N5-H(110), 3-N5-H(110), 1-5128

Double ring burner-1	Double ring burner-2	Small burner
		

Model: GC-87BX

Double ring burner	Single ring burner	Grill burner
		

Model: D4-SY

Double ring burner	Single ring burner	Small burner
		

Approved for l3B/P(30), l3+(28-30/37), l3B/P(37), l3B/P(50).					
Group	mbar	Group	mbar	Group	mbar
B/P	28-30;37;50	3+	28-30/37		

Number of burners				
Model	Double ring burner	Single ring burner	Small burner	Grill burner
1-5128	1	NA	NA	NA
2-5128	1	1	NA	NA
3-5128	1	1	1	NA
2-5128D	2	NA	NA	NA
3-5128D	2	NA	1	NA
1-N5-H	1	NA	NA	NA
2-N5-H	1	1	NA	NA
3-N5-H	1	1	1	NA
1-N5-H (110)	1	NA	NA	NA
2-N5-H(110)	2	NA	NA	NA
3-N5-H(110)	2	NA	1	NA
1-N5-M	1	NA	NA	NA
2-N5-MD	2	NA	NA	NA
3-N5-MD	2	NA	1	NA
2-N5-1608	1	1	NA	NA
3-N5-1608	1	1	1	NA
1-N5-1605XS-90	1	NA	NA	NA
2-N5-1605XS-90	1	1	NA	NA
3-N5-1605XS-90	1	1	1	NA
1-N5-1605XS	1	NA	NA	NA
2-N5-1605XS	2	NA	NA	NA
3-N5-1605XS	2	NA	1	NA
GC-87BX	1	1	NA	1
D4-SY	1	2	1	NA

Note: For models 3-N5-MD, 2-N5-MD, 3-5128D, 2-5128D, 2-N5-H(110) and 3-N5-H(110), there are two types of double ring burner.

	Single burner heat input(kW): 1-N5-1605XS-90, 2-N5-1605XS-90, 3-N5-1605XS-90, 1-N5-H, 2-N5-H, 3-N5-H, 2-5128, 3-5128.		
Burner type	I _{3B/P(30)} , I _{3+(28-30/37)}	I _{3B/P(50)}	I _{3B/P(37)}
Double ring burner	4.0 kW	4.0 kW	4.5 kW
Single ring burner	3.5 kW	3.5 kW	3.8 kW
Small burner	0.65 kW	0.65 kW	0.75 kW
	Single burner heat input(kW) of model: 1-N5-1605XS, 2-N5-1605XS, 3-N5-1605XS.		
Burner type	I _{3B/P(30)} , I _{3+(28-30/37)}	I _{3B/P(50)}	I _{3B/P(37)}
Double ring burner	4.4 kW	4.4 kW	5.0 kW
Small burner	0.65 kW	0.65 kW	0.75 kW
	Single burner heat input(kW) of model: 2-N5-1608, 3-N5-1608.		
Burner type	I _{3B/P(30)} , I _{3+(28-30/37)}	I _{3B/P(50)}	I _{3B/P(37)}
Double ring burner	3.5 kW	3.5 kW	4.0 kW
Single ring burner	3.0 kW	3.0 kW	3.5 kW
Small burner	0.7 kW	0.7 kW	0.75 kW
	Single burner heat input(kW) of model: 3-N5-MD, 2-N5-MD, 3-5128D, 2-5128D		
Burner type	I _{3B/P(30)} , I _{3+(28-30/37)}	I _{3B/P(50)}	I _{3B/P(37)}
Double ring burner-1	4.5 kW	4.5 kW	5.0 kW
Double ring burner-2	4.0 kW	4.0 kW	4.5 kW
Small burner	0.65 kW	0.65 kW	0.75 kW
	Single burner heat input(kW) of model: 1-N5-M		
Burner type	I _{3B/P(30)} , I _{3+(28-30/37)}	I _{3B/P(50)}	I _{3B/P(37)}
Double ring burner	4.2 kW	4.2 kW	4.7 kW
	Single burner heat input(kW) of model: 1-N5-H(110), 2-N5-H(110), 3-N5-H(110), 1-5128		
Burner type	I _{3B/P(30)} , I _{3+(28-30/37)}	I _{3B/P(50)}	I _{3B/P(37)}
Double ring burner-1	4.5 kW	4.5 kW	5.0 kW
Double ring burner-2	4.0 kW	4.0 kW	4.5 kW
Small burner	0.65 kW	0.65 kW	0.75 kW
	Single burner heat input(kW) of model: GC-87BX		
Burner type	I _{3B/P(30)} , I _{3+(28-30/37)}	I _{3B/P(50)}	I _{3B/P(37)}
Double ring burner	4.1 kW	4.1 kW	4.5 kW
Single ring burner	3.4 kW	3.4 kW	4.0 kW
Grill burner	2.2 kW	2.2 kW	2.5 kW
	Single burner heat input(kW) of model: D4-SY		
Burner type	I _{3B/P(30)} , I _{3+(28-30/37)}	I _{3B/P(50)}	I _{3B/P(37)}
Double ring burner	4.0 kW	4.0 kW	4.5 kW
Single ring burner	3.0 kW	3.0 kW	3.5 kW
Small burner	1.3 kW	1.3 kW	1.4 kW

Model	Injector size (mm)		
	I _{3B} /P(30), I ₃₊ (28-30/37)	I _{3B} /P(50)	I _{3B} /P(37)
3-N5-1608	Double ring burner: 0.84mm & 0.40mm Single ring burner: 0.84mm Small burner: 0.40mm	Double ring burner: 0.73mm & 0.35mm Single ring burner: 0.73mm Small burner: 0.35mm	Double ring burner: 0.84mm & 0.40mm Single ring burner: 0.84mm Small burner: 0.40mm
2-N5-1608	Double ring burner: 0.84mm & 0.40mm Single ring burner: 0.84mm	Double ring burner: 0.73mm & 0.35mm Single ring burner: 0.73mm	Double ring burner: 0.84mm & 0.40mm Single ring burner: 0.84mm
1-N5-M	Double ring burner: 0.80mm & 0.64mm	Double ring burner: 0.70mm & 0.55mm	Double ring burner: 0.80mm & 0.64mm
1-N5-H	Double ring burner: 0.90mm & 0.40mm	Double ring burner: 0.75mm & 0.40mm	Double ring burner: 0.90mm & 0.40mm
2-N5-H 2-5128	Double ring burner: 0.90mm & 0.40mm Single ring burner: 0.90mm	Double ring burner: 0.75mm & 0.40mm Single ring burner: 0.78mm	Double ring burner: 0.90mm & 0.40mm Single ring burner: 0.90mm
3-N5-H 3-5128	Double ring burner: 0.90mm & 0.40mm Single ring burner: 0.90mm Small burner: 0.40mm	Double ring burner: 0.75mm & 0.40mm Single ring burner: 0.70mm Small burner: 0.35mm	Double ring burner: 0.90mm & 0.40mm Single ring burner: 0.90mm Small burner: 0.40mm
1-5128 1-N5-H(110)	Double ring burner-1: 0.94mm & 0.44mm	Double ring burner-1: 0.80mm & 0.40mm	Double ring burner-1: 0.94mm & 0.44mm
2-5128D 2-N5-MD 2-N5-H(110)	Double ring burner-1: 0.94mm & 0.44mm Double ring burner-2: 0.90mm & 0.40mm	Double ring burner-1: 0.82mm & 0.40mm Double ring burner-2: 0.78mm & 0.35mm	Double ring burner-1: 0.94mm & 0.44mm Double ring burner-2: 0.90mm & 0.40mm
3-5128D 3-N5-MD 3-N5-H(110)	Double ring burner-1: 0.94mm & 0.44mm Double ring burner-2: 0.90mm & 0.40mm Small burner: 0.40mm	Double ring burner-1: 0.82mm & 0.40mm Double ring burner-2: 0.78mm & 0.35mm Small burner: 0.35mm	Double ring burner-1: 0.94mm & 0.44mm Double ring burner-2: 0.90mm & 0.40mm Small burner: 0.40mm
1-N5-1605XS	Double ring burner: 0.85mm & 0.58mm	Double ring burner: 0.75mm & 0.50mm	Double ring burner: 0.85mm & 0.58mm
2-N5-1605XS	Double ring burner: 0.85mm & 0.58mm	Double ring burner: 0.75mm & 0.50mm	Double ring burner: 0.85mm & 0.58mm
3-N5-1605XS	Double ring burner: 0.85mm & 0.58mm Small burner: 0.40mm	Double ring burner: 0.75mm & 0.50mm Small burner: 0.35mm	Double ring burner: 0.85mm & 0.58mm Small burner: 0.40mm
1-N5-1605XS-90	Double ring burner: 0.90mm & 0.40mm	Double ring burner: 0.78 & 0.35	Double ring burner: 0.90 & 0.40
2-N5-1605XS-90	Double ring burner: 0.90mm & 0.40mm Single ring burner: 0.90mm	Double ring burner: 0.78mm & 0.35mm Single ring burner: 0.78mm	Double ring burner: 0.90mm & 0.40mm Single ring burner: 0.90mm
3-N5-1605XS-90	Double ring burner: 0.90mm & 0.40mm Single ring burner: 0.90mm Small burner: 0.40mm	Double ring burner: 0.78mm & 0.35mm Single ring burner: 0.78mm Small burner: 0.35mm	Double ring burner: 0.90mm & 0.40mm Single ring burner: 0.90mm Small burner: 0.40mm
GC-87BX	Double ring burner: 0.90mm & 0.40mm Single ring burner: 0.90mm	Double ring burner: 0.80mm & 0.35mm Single ring burner: 0.80mm	Double ring burner: 0.90mm & 0.40mm Single ring burner: 0.90mm

	Grill burner: 0.73mm	Grill burner: 0.63mm	Grill burner: 0.73mm
D4-SY	Double ring burner: 0.84mm & 0.40mm Single ring burner: 0.84mm Small burner: 0.55mm	Double ring burner: 0.76mm & 0.35mm Single ring burner: 0.72mm Small burner: 0.50mm	Double ring burner: 0.84mm & 0.40mm Single ring burner: 0.84mm Small burner: 0.55mm

	kW(Hs)		
Model	I _{3B} /P(30), I ₃ +(28-30/37)	I _{3B} /P(50)	I _{3B} /P(37)
2-N5-1608	6.50 kW	6.50 kW	7.50 kW
3-N5-1608	7.20 kW	7.20 kW	8.25 kW
1-N5-H 1-N5-1605XS-90	4.00 kW	4.00 kW	4.50 kW
2-5128 2-N5-H 2-N5-1605XS-90	7.50 kW	7.50 kW	8.30 kW
3-5128 3-N5-H 3-N5-1605XS-90	8.15 kW	8.15 kW	9.05 kW
1-N5-1605XS	4.40 kW	4.40 kW	5.00 kW
2-N5-1605XS	8.80 kW	8.80 kW	10.00 kW
3-N5-1605XS	9.45 kW	9.45 kW	10.75 kW
1-N5-M	4.20 kW	4.20 kW	4.70 kW
1-5128 1-N5-H(110)	4.50 kW	4.50 kW	5.00 kW
2-5128D 2-N5-MD 2-N5-H(110)	8.50 kW	8.50 kW	9.50 kW
3-5128D 3-N5-MD 3-N5-H(110)	9.15 kW	9.15 kW	10.25 kW
GC-87BX	9.7 kW	9.7 kW	11.0 kW
D4-SY	11.3 kW	11.3 kW	12.9 kW

Model breakdown			
1- 1- 2- 3-	N5-H 5128 N5-M N5-H N5-1608 N5-1605XS	(110) 90 D	Example – 1 burner style N5-H stainless steel finish 1 burner 2 burners 3 burners Style 5128 Painted finish Style N5-M Glass finish Style N5-H Stainless steel finish Style N5, No.8 of 2016 Style N5, No.8 of 2016, burner size 105mm 110mm burner ring 90mm burner ring Two-ring burner located at both sides Item number Item number
GC-87BX D4-SY			

Model pictures	
1-N5-H	2-N5-H
	
3-N5-H	1-N5-H(110)
	
2-N5-H(110)	3-N5-H(110)
	
1-N5-M	2-N5-MD
	

3-N5-MD	1-5128
	
2-N5-1608	3-N5-1608
	
2-5128	3-5128
	
2-5128D	3-5128D
	

2-N5-1605XS-90	3-N5-1605XS-90
	
1-N5-1605XS-90	3-N5-1605XS
	
2-N5-1605XS	1-N5-1605XS
	
GC-87BX	D4-SY
	

Marketers:			
Name	Trade Name	City	Country
NA			

Available models and their cross reference:

NA

CRITICAL COMPONENTS LIST

Model	Type of component	Manufacturer	Type/model	Certificate/ Test report number
2-N5-1608 3-N5-1608	Gas valve	Xunda Science & Technology Group Co., Ltd	FJZ-C00SZ6-108A FJZ-C00DM6-108A	KIWA: 18GR0632/01
2-N5-MD 3-N5-MD			FJZ-C15SZ6-107 FJZ-C15DM6-107	
1-N5-H 2-N5-H 3-N5-H	Gas valve	Xunda Science & Technology Group Co., Ltd	CK-830D/0 CK-830SZ/0	TUV: MB 69260032 0001
2-5128D, 3-5128D, 2-5128, 3-5128, 1-5128				
1-N5-M	Gas valve	Xunda Science & Technology Group Co., Ltd	FJZ-C30SZ6-106	KIWA: 18GR0632/01
1-N5-H(110) 2-N5-H(110) 3-N5-H(110)	Gas valve	Xunda Science & Technology Group Co., Ltd	CK-830D/0 CK-830SZ/0	TUV: MB 69260032 0001
1-N5-1605XS 2-N5-1605XS 3-N5-1605XS	Gas valve	Xunda Science & Technology Group Co., Ltd		TUV: MB 69260032 0001
1-N5-1605XS-90 2-N5-1605XS-90 3-N5-1605XS-90	Gas valve	Xunda Science & Technology Group Co., Ltd		TUV: MB 69260032 0001
GC-87BX	Gas valve	Xunda Science & Technology Group Co., Ltd	CK-830D/0 CK-830SZ/0	TUV: MB 69260032 0001
D4-SY	Gas valve	Xunda Science & Technology Group Co., Ltd	JZ4-D4SY-13	TUV: MB 69260032 0001

MOTIVATION TEST PLAN

The modification can be divided into two parts:

First part: Transfer Xunda models in TUV report and certificate to Kiwa report.

Details are shown in below tables:

Appliance category: I ₃ +(28-30/37), I _{3B/P} (30), I _{3B/P} (37), I _{3B/P} (50)	
Standard: EN484:1997	
Transfer models from TUV report and certificate.	Model number
TUV Report: 28221864 001	GC-87BX, D4-SY
TUV certificate: MB 69247040 0001	

Second part: Update models 1-5128, 2-5128, 3-5128, 2-5128D, 3-5128D, 1-N5-H, 2-N5-H, 3-N5-H, 1-N5-H (110), 2-N5-H(110), 3-N5-H(110), 1-N5-M, 2-N5-MD, 3-N5-MD, 2-N5-1608, 3-N5-1608, 1-N5-1605XS-90, 2-N5-1605XS-90, 3-N5-1605XS-90, 1-N5-1605XS, 2-N5-1605XS, 3-N5-1605XS, GC-87BX and D4-SY to the standard EN484:2019.

The differences between EN484:1997 and EN484:2019 are listed in below table:

The following main technical changes have been made compared to EN 484:1997:

- inconsistencies raised by the European Commission against gas appliance Regulation have been addressed;
- differences on test pressures between French and English versions have been addressed;
- the scope has been specified to indicate that regulators are not covered by this standard;
- the wording “hotplate” (not adapted for appliances covered by EN 484) has been replaced by “stove”;
- the definition 3.9 “auxiliary equipment” has been replaced by “fitting” in the sense of the gas appliance Directive;
- compliance to EN 1106 or EN 126 for the taps has been added;
- paragraphs 7.2.X regarding to the type of examination (visual and/or mechanical) have been reworded;
- a 300 mm diameter pan and the corresponding sampling of product of combustion has been added.

According to the changes, for combustion test, 220mm diameter pan and 300mm diameter pan were used to do the combustion test according to the standard EN484:2019.

The valves of side burner have been evaluated to show compliance to EN1106:2010 and have the GAR certificate.

For model D4-SY, change the small burner injector size for category I_{3B/P(50)} from 0.35mm to 0.50mm.

Add category I_{3B/P(37)} to model GC-87BX and D4-SY.

For model GC-87BX, update the valve model to CK-830D/0 and CK-830SZ/0.

For model D4-SY, updated the valve model to JZ4-D4SY-13.

Test representative model	Covered models
3-5128D	2-5128D
3-N5-H	1-N5-H, 2-N5-H
3-5128	2-5128
3-N5-1605XS-90	2-N5-1605XS-90, 1-N5-1605XS-90
3-N5-H(110)	1-N5-H(110), 2-N5-H(110)
1-5128	/

3-N5-MD	2-N5-M
3-N5-1608	2-N5-1608
1-N5-M	/
3-N5-1605XS	1-N5-1605XS, 2-N5-1605XS
GC-87BX	/
D4-SY	/

Test plan: Due to the mentioned above, part tests (leakage test, heat input test and combustion test) were done to model 3-5128D, 3-N5-H, 3-5128, 3-N5-1605XS-90, 3-N5-H(110), 1-5128, 3-N5-MD, 3-N5-1608, 1-N5-M, 3-N5-1605XS, GC-87BX and D4-SY according to the standard EN484:2019.

For model GC-87BX and D4-SY, because of the adding of category I3B/P(37), full test was done to model GC-87BX and D4-SY according to the standard EN484:2019.

Testing was performed at the laboratory of Xunda Science & Technology Group Co. Ltd by Kiwa China qualified engineer Gin Dai.

The test results of the witness/reference tests performed by Kiwa are not part of this Kiwa ISO/IEC 17025 report and only used for verifying to show compliance to the essential requirements of the Gas Appliance Regulation (EU) 2016/426.

Based on the product information, the test plan is not subject to any other special interpretations or modifications.

FINDINGS OF EXAMINATION

Findings of examination to Essential Requirements (Annex 1) Gas Appliance Regulation (EU)2016/426

Key to findings:	YES = YES	NA = Not Applicable	NT = Not Tested	NO = NO	Example:	YES-NA-NT-NO
1	GENERAL CONDITIONS					
1.1	Appliances shall be so designed and constructed as to operate safely and present no danger to persons, domestic animals or property, when normally used. Fittings shall be so designed and constructed as to fulfil correctly their intended purpose when incorporated into an appliance or assembled to constitute an appliance.					YES-NA-NT-NO
1.2	The manufacturer is under an obligation to analyse the risks in order to identify those which apply to his appliance or fitting. He shall then design and construct it taking into account its risk assessment.					YES-NA-NT-NO
1.3	In selecting the most appropriate solutions, the manufacturer shall apply the principles set out below, in the following order: (a) eliminate or reduce risks as far as possible (inherently safe design and construction); (b) take the necessary protection measures in relation to risks that cannot be eliminated; (c) inform users of the residual risks due to any shortcomings of the protection measures adopted and indicate whether any particular precautions are required.					YES-NA-NT-NO YES-NA-NT-NO YES-NA-NT-NO
1.4	When designing and constructing the appliance, and when drafting the instructions, the manufacturer shall envisage not only the intended use of the appliance, but also the reasonably foreseeable uses.					YES-NA-NT-NO
1.5	All appliances shall: (a) be accompanied by instructions for installation intended for the installer; (b) be accompanied by instructions for use and servicing, intended for the user; (c) bear appropriate warning notices, which shall also appear on the packaging.					YES-NA-NT-NO YES-NA-NT-NO YES-NA-NT-NO
1.6.1	The instructions for installation intended for the installer shall contain all the instructions for installation, adjustment and servicing required to ensure that those operations are correctly performed so that the appliance may be used safely. The instructions for installation intended for the installer shall include also information on the technical specifications of the interface between the appliance and its installation environment allowing its correct connection to the gas supply network, the supply of auxiliary energy, the combustion air supply and the flue gas evacuation system.					YES-NA-NT-NO YES-NA-NT-NO
1.6.2	The instructions for use and servicing intended for the user shall contain all the information required for safe use and in particular shall draw the user's attention to any restrictions on use. The manufacturers shall note in the instructions where additional care is needed or where it would be advisable that any of the above work be carried out by a professional. This shall be without prejudice to national requirements to that effect. The manufacturer of the appliance shall include in the instructions accompanying the appliance all necessary information for adjustment, operation and maintenance of the fittings as part of the finished appliance, as appropriate.					YES-NA-NT-NO YES-NA-NT-NO YES-NA-NT-NO
1.6.3	The warning notices on the appliance and its packaging shall clearly state the type of gas to be used, the gas supply pressure, the appliance category and any restrictions on use, in particular the restriction whereby the appliance shall be installed only in areas where there is sufficient ventilation so as to ensure that the risks presented by it are minimised.					YES-NA-NT-NO
1.7	The instructions for incorporation of the fitting into an appliance or its assembly in order to constitute an appliance and for its adjustment, operation and maintenance shall be provided with the fittings concerned as part of the EU declaration of conformity.					YES-NA-NT-NO

2	MATERIALS	
	Materials for appliances or fittings shall be appropriate for their intended purpose and shall withstand the mechanical, chemical and thermal conditions to which they will foreseeably be subjected.	YES-NA-NT-NO
3	DESIGN AND CONSTRUCTION	
	The obligations arising for appliances from the essential requirements set out in this point apply also to fittings, as far as relevant.	YES-NA-NT-NO
3.1	General	
3.1.1.	Appliances shall be so designed and constructed that, when normally used, no instability, distortion, breakage or wear likely to impair their safety may occur.	YES-NA-NT-NO
3.1.2	Condensation produced at the start-up and/or during use shall not affect the safety of appliances.	YES-NA-NT-NO
3.1.3	Appliances shall be so designed and constructed as to minimise the risk of explosion in the event of a fire of external origin.	YES-NA-NT-NO
3.1.4	Appliances shall be so designed and constructed that water and inappropriate air penetration into the gas circuit does not occur.	YES-NA-NT-NO
3.1.5	In the event of a normal fluctuation of auxiliary energy, appliances shall continue to operate safely.	YES-NA-NT-NO
3.1.6	Abnormal fluctuation or failure of auxiliary energy or its restoration shall not lead to an unsafe situation.	YES-NA-NT-NO
3.1.7	Appliances shall be so designed and constructed as to obviate any gas-related risks due to hazards of electrical origin. As far as relevant, the results of the conformity assessment in relation to the safety requirements of Directive 2014/53/EU of the European Parliament and of the Council ⁽¹⁾ or the safety objectives of Directive 2014/35/EU of the European Parliament and of the Council ⁽²⁾ shall be taken into account.	YES-NA-NT-NO
3.1.8	Appliances shall be so designed and constructed as to obviate any gas-related risks due to hazards originating from electromagnetic phenomena. As far as relevant, the results of the conformity assessment in relation to the electromagnetic compatibility requirements of Directive 2014/53/EU or Directive 2014/30/EU of the European Parliament and of the Council ⁽³⁾ shall be taken into account.	YES-NA-NT-NO
3.1.9	All pressurised parts of an appliance shall withstand the mechanical and thermal stresses to which they are subjected without any deformation affecting safety.	YES-NA-NT-NO
3.1.10	Appliances shall be so designed and constructed that failure of a safety, controlling or regulating device may not lead to an unsafe situation.	YES-NA-NT-NO

3.1.11	If an appliance is equipped with safety and controlling devices, the functioning of the safety devices shall not be overruled by that of the controlling devices.	YES-NA-NT-NO
3.1.12	All parts of appliances which are set or adjusted at the stage of manufacture and which should not be manipulated by the user or the installer shall be appropriately protected.	YES-NA-NT-NO
3.1.13	Levers and other controlling and setting devices shall be clearly marked and give appropriate instructions so as to prevent any error in operation/use. Their design shall be such as to preclude accidental operation.	YES-NA-NT-NO
3.2	Unburned gas release	
3.2.1	Appliances shall be so designed and constructed that the gas leakage rate is not dangerous.	YES-NA-NT-NO
3.2.2	Appliances shall be so designed and constructed that gas release at any state of operation is limited in order to avoid a dangerous accumulation of unburned gas in the appliance.	YES-NA-NT-NO
3.2.3	Appliances intended to be used in indoor spaces and rooms shall be so designed and constructed as to prevent the release of unburned gas in all situations which could lead to a dangerous accumulation of unburned gas in such spaces and rooms.	YES-NA-NT-NO
3.2.4	Appliances designed and constructed to burn gas containing carbon monoxide or other toxic components shall not present a danger to the health of persons and domestic animals exposed.	YES-NA-NT-NO
3.3	Ignition	
	Appliances shall be so designed and constructed that, when normally used, ignition and re-ignition is smooth and cross-lighting is assured.	YES-NA-NT-NO
3.4	Combustion	
3.4.1	Appliances shall be so designed and constructed that, when normally used, the combustion process is stable and combustion products do not contain unacceptable concentrations of substances harmful to health.	YES-NA-NT-NO
3.4.2	Appliances shall be so designed and constructed that, when normally used, there will be no accidental release of combustion products.	YES-NA-NT-NO
3.4.3	Appliances connected to a flue for the dispersal of combustion products shall be so designed and constructed that in abnormal draught conditions there is no release of combustion products in a dangerous quantity into the indoor spaces or rooms concerned.	YES-NA-NT-NO
3.4.4	Appliances shall be so designed and constructed that, when normally used, they do not cause a concentration of carbon monoxide or other substances harmful to health, such as they would be likely to present a danger to the health of persons and domestic animals exposed.	YES-NA-NT-NO
3.5	Rational use of energy	
	Appliances shall be so designed and constructed as to ensure rational use of energy, reflecting the state of the art and taking into account safety aspects.	YES-NA-NT-NO
3.6	Temperature	
3.6.1	Parts of appliances which are intended to be installed or placed in close proximity to surfaces shall not reach temperatures which present a danger.	YES-NA-NT-NO
3.6.2	The surface temperature of parts of appliances intended to be handled during normal use shall not present a danger to the user.	YES-NA-NT-NO
3.6.3	The surface temperatures of external parts of appliances, with the exception of surfaces or parts which are associated with the transmission of heat, shall not under operating conditions present a danger to the health and safety of persons exposed and in particular to children and elderly people, for whom an appropriate reaction time shall be taken into account.	YES-NA-NT-NO
3.7	Contact with food and water intended for human consumption	
	Without prejudice to Regulations (EC) No 1935/2004 ⁽¹⁾ and (EU) No 305/2011 ⁽²⁾ of the European Parliament and of the Council, materials and parts used in the construction of an appliance which may come into contact with food or water intended for human consumption as defined in Article 2 of Council Directive 98/83/EC ⁽³⁾ , shall not impair quality of the food or water.	YES-NA-NT-NO

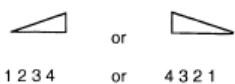
Findings of examination to EN 484: 2019 Specification for dedicated liquefied petroleum gas appliances - Independent stoves, including those incorporating a grill for outdoor use

Key to Test Sheets:	YES = YES	NA = Not Applicable	NT = Not Tested	NO = NO	Example:	YES-NA-NT-NO
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Clause	Description	Complies?
5	Constructional characteristics	
5.1	Operating with different gases The appliance shall operate under normal supply conditions specified in the instructions, without requiring any intervention on the internal gas circuit or the adjusters of the appliance. Adjusters shall be locked and sealed by the manufacturer.	YES-NA-NT-NO YES-NA-NT-NO
5.2	Materials The quality and thickness of materials used in the construction of an appliance shall be such that the constructional and performance characteristics are not altered in use. At the end of the tests of this standard the appliance and its components shall not present any alteration caused by mechanical, chemical and thermal effects. Metal parts shall be effectively protected against corrosion. Elastomeric material shall comply with EN 549:1994 class A2 minimum. The accessible parts during use or service of the appliance, the outer profile and the parts of the appliance with which the flexible hose may be in contact shall be free of sharp corners or edges. Materials containing asbestos shall not be used.	YES-NA-NT-NO YES-NA-NT-NO YES-NA-NT-NO YES-NA-NT-NO YES-NA-NT-NO
5.3	Ease of cleaning and maintenance All the parts of the appliance requiring frequent cleaning by the user (for example: cooking device) shall be easily accessible without having to use a tool for dismantling. It shall be possible to put these parts back correctly and without difficulty by following the instructions. Sharp corners and edges which could give rise to injury, for example during the cleaning of appliance, shall be avoided. It shall not be possible for the gas container, the connection tube and the parts of the gas circuit to be soiled by the spillage of cooking juices. Spillage from vessels shall not impair the operation of the burners on which they are placed and these shall be accessible for cleaning. Grills shall be designed in such a way that cooking juices are collected in an area provided for this purpose. Any part of the appliance installed or adjusted at the factory and which does not need to be manipulated by the user shall be protected in appropriate fashion. To this end paint may be used provided that it withstands the heat to which it is exposed during the normal operation of the appliance.	YES-NA-NT-NO YES-NA-NT-NO YES-NA-NT-NO YES-NA-NT-NO YES-NA-NT-NO YES-NA-NT-NO
5.4	Manipulation of grills	
5.4.1	Griddles For movable plate, the plate handle, if any, shall allow manipulation of the plate without accidental detachment. Flexing of the handle is allowed if its function is maintained.	YES-NA-NT-NO
5.4.2	Radiant grills When the grill pan is fitted with a handle, it shall be designed in such a way that when it is held to carry the grill pan or to pour out the liquid content, it shall not come loose under the conditions given in 7.2.4.2. Flexing of the handle is allowed if its function is maintained.	YES-NA-NT-NO

<p>5.5</p>	<p>Strength</p> <p>The construction of an appliance shall be such that, during normal condition use:</p> <ul style="list-style-type: none"> - any displacement of parts; - any distortion; - any deterioration <p>The materials used, the construction and the assembly of the body of the appliance shall be such that the application of a load on the grid of the appliance under the test conditions described in 7.2.5 shall not cause any fracture or any permanent distortion greater than 1 mm at any point in the components of the appliance.</p>	<p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p>
<p>5.6</p>	<p>Assembly</p> <p>The appliances gas circuit assembly from the supplying pipe connection(s) to any injector shall be factory assembled (i.e no intervention of the user needed). This requirement shall not apply if a quick self-closing connection is used for an auxiliary burner.</p> <p>All components which require assembly by the user shall be designed in such a way that their incorrect mounting is not possible if the instructions are followed.</p>	<p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p>
<p>5.7</p>	<p>Stability</p>	
<p>5.7.1</p>	<p>Stability of the appliance on a horizontal plane</p> <p>The appliance being placed on a horizontal surface, the tests described in 7.2.7.2 shall be carried out without:</p> <ul style="list-style-type: none"> - the appliance falling over; - any of its component parts becoming loose or moving in such a way that its operation is impaired; - lids falling accidentally from their raised position. <p>If the appliance is fitted with a foldable support, it shall be possible to lock it in the position of use (for example: stop, locking device).</p>	<p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p>
<p>5.7.2</p>	<p>Stability of the appliance placed on a slope</p> <p>Under the test conditions of 7.2.7.3, the appliance when placed on a slope of 10 ° from the horizontal shall not fall over and the lid shall not fall accidentally.</p> <p>None of the gas containers indicated in the instructions shall fall during this test, whatever its gas content, when placed as recommended in the instructions.</p>	<p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p>
<p>5.7.3</p>	<p>Vessel stability</p> <p>There shall be an adequate points of support for vessels to rest level in a stable fashion on the supports of each open burners.</p> <p>When tested according to 7.2.7.4 the vessel shall remain stable, and the appliance shall not fall over.</p>	<p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p>
<p>5.8</p>	<p>Construction of the gas circuit assembly</p> <p>Holes for screws, pins, etc. intended for the assembly of components shall not open into the space reserved for the gas ways leading to the injector.</p> <p>The soundness of parts and assemblies connected to the gas circuit shall be assured by means of metal-to-metal joints or joints with seals for example, flat-faced joints, O-rings), i.e. excluding the use of any product which ensures soundness in the threads.</p> <p>For parts that do not require dismantling during normal maintenance, for example taps, injectors, the use of appropriate thread sealing compounds is permitted.</p>	<p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p>

	<p>Soft solder shall not be used to ensure the soundness of the gas circuit. However, it is permitted for internal connections within the gas circuit when they do not involve soundness.</p> <p>Rubber based materials shall comply with EN 549:1994 class A2 minimum and LPG resistant.</p> <p>Removable components or the threaded parts of the pipework which may be dismantled during normal maintenance shall remain sound after five disconnections and re-connections in accordance with the instructions, if necessary after changing a gasket if mentioned in the instructions.</p>	<p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p>
5.9	<p>Connections</p> <p>Connections shall be easily accessible, it shall be possible to connect the appliance easily and safely following the indications given in the instructions.</p> <p>The entire gas supply circuit shall be at the pressure delivered by the regulator.</p> <p>Depending on the various national situations (see annex A), the end of the supply pipework shall be fitted either with:</p> <ul style="list-style-type: none"> - a nozzle allowing the connection of flexible tubing; the nozzle may be fixed or removable; - a thread in accordance with EN ISO 228-1:2003 or EN 10226-1:2004 or EN 10226-2:2005. <p>During normal conditions of use, connections shall not come loose unintentionally.</p> <p>Flexible tubing of the length recommended by the manufacturer and connected in accordance with the instructions, shall not come into contact with a part of the appliance whose temperature is higher than that specified in 6.5 b).</p> <p>The end of the gas inlet connection shall be positioned to allow the free movement of a flexible hose connection.</p> <p>In the case of connections where pressure-tight joints are not made on the threads according to EN ISO 228-1:2003, the extremity of the gas inlet connection shall have a flat annular surface of at least 2,5 mm wide in the case of threads of nominal size 1/2", 3/8" and 5/8" and of at least 2,2 mm wide in the case of a thread of nominal size 1/4" in order to allow the interposition of a sealing washer.</p> <p>Moreover, when the extremity of the gas inlet connection has a thread of nominal size 1/2", it shall be possible to insert a gauge of 12,3 mm diameter to a depth of at least 4 mm.</p>	<p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p>
5.10	<p>Locking of wheels and castors</p> <p>If the appliance has wheels and/or castors to enable it to be moved, means shall be provided to prevent accidental movement of the appliance during normal use.</p> <p>This requirement is deemed to be satisfied if:</p> <ul style="list-style-type: none"> — at least one of the wheels or castors is fitted with a brake or a blocking system, or — at least one of the support point of the appliance is not made of a wheel or a castor. 	<p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p>
5.11	<p>Taps</p> <p>Each burner shall be controlled by a tap allowing the opening, the adjustment and closing of its supply.</p> <p>For appliances incorporating only one burner, intended to be used at full rate only an alternative for opening and closing can be reached either with the gas cylinder valve or the regulator valve. It shall only be possible to supply gas to the burner by deliberate operation.</p> <p>Taps shall comply with EN 1106:2010 or with EN 126:2012 if they are multifunction type.</p> <p>Taps shall be placed in such a way that their strength, operation, manipulation and accessibility undergo no damage from the actions to which they are subjected in normal use. They shall be protected against external clogging. Moreover, after testing in accordance with this standard, their operation shall not be impaired.</p> <p>Taps shall be mounted in such a way that no accidental movement relative to the gas supply circuit is possible.</p> <p>When it is necessary to dismantle certain parts of a tap for maintenance, this shall be possible.</p>	<p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p>

5.12	Control handles	
5.12.1	Construction <p>It shall be obvious which burner is controlled by each control handle. They shall be so arranged relative to one another that the movement of one handle does not cause inadvertent movement of an adjacent one.</p> <p>Control handles with different markings shall not be interchangeable on a single appliance.</p> <p>Control handles shall be so designed that they can neither be fitted in the wrong position nor move by themselves. The shape of a handle shall be such that its manipulation is easy.</p> <p>If control handles operate by turning, the dosing direction shall be clockwise.</p> <p>The manipulation of tap handles shall not cause inadvertent movement of the appliance.</p>	YES-NA-NT-NO YES-NA-NT-NO YES-NA-NT-NO YES-NA-NT-NO YES-NA-NT-NO
5.12.2	Marking	
5.12.2.1	Taps with marked positions <p>The closed, open and, if applicable, reduced rate positions shall be marked in a visible, legible and durable fashion.</p> <p>The closed position of the tap shall be marked by a full disc or circle at least 3 mm in diameter. It shall be the same for all the taps on a single appliance.</p> <p>The identification of the closed position of each tap shall not give rise to any possibility of confusion with the identification of an open position.</p> <p>The other positions shall be identified unambiguously, preferably using the following symbols:</p> <ul style="list-style-type: none"> - full rate positions: a large flame - reduced rate positions: a small flame - rate range - Triangle or -scale <div style="text-align: center;">  </div> <p>If the instructions indicate a specific position for ignition, this shall be clearly marked on the appliance.</p> <p>Additional markings are permitted provided that they do not create confusion for the appliance's user.</p>	YES-NA-NT-NO YES-NA-NT-NO YES-NA-NT-NO YES-NA-NT-NO YES-NA-NT-NO YES-NA-NT-NO
5.12.2.2	Taps with variable positions <p>For taps with variable positions, the dosing direction shall be marked by an arrow whose tip points to a full disc or circle at least 3 mm in diameter. For example:</p> <div style="text-align: center;">  </div> <p>The marking shall be visible, legible and durable.</p> <p>Additional markings are permitted provided that they do not create confusion for the appliance's user.</p>	YES-NA-NT-NO YES-NA-NT-NO YES-NA-NT-NO
5.13	Injectors <p>Injectors shall be accessible, shall not be detachable and shall be of the calibrated type.</p> <p>All injectors shall carry an indelible means allowing their identification from the instructions and preventing any confusion. If the injector is integral with the tap (or another part), The assembly shall carry a means of identification.</p>	YES-NA-NT-NO YES-NA-NT-NO

5.14	<p>Ignition devices</p> <p>Where an ignition device exists, it shall ensure rapid and safe ignition.</p> <p>The components of the ignition device shall be designed to avoid damage and accidental displacement from their correct position during transport or use. The relative positions of the ignition device and the burner shall be sufficiently well defined to ensure correct operation of the assembly.</p> <p>When the burner ignition device does not ensure the ignition of all the burners, the relative position of the control handles of burners and of the igniter shall not give rise to any confusion.</p>	<p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p>
5.15	<p>Flame supervision devices</p> <p>When flame supervision devices are fitted, they shall comply with EN 125:2010+A1:2015 and they shall be designed in such a way that, in the case of a failure of any of the components indispensable to their performance, the supply of the gas to the burner controlled by the device and any pilot is cut off automatically and can only be restored by manual intervention. They shall be so mounted as to ensure satisfactory performance.</p> <p>The sensing element of a flame supervision device shall control only a single burner, except in the case where the element controls the entire supply to the appliance.</p> <p>The appliance shall not incorporate any device that allows the flame supervision device to be permanently overridden. During the ignition period, a brief passage of unlit gas is permitted under the conditions given in 6.3.</p> <p>If burners (including griddles) are not fitted with a flame supervision device, the appliance shall be designed and built in such a way as to allow the discharge of unburned gas which might accumulate under the burner (openings, gaps between the base of the appliance and its support, ...). If a radiant grill is not fitted with a flame supervision safety device its enclosure shall be permanently open at least on one side.</p>	<p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p>
5.16	<p>Burners</p> <p>Burners shall be designed in such a way that they cannot move inadvertently in use or during the movement of the appliance.</p> <p>It shall be easy to clean the parts of a burner which require cleaning: the parts concerned shall be either accessible without dismantling, or easily dismantled.</p> <p>The relative position of flash tubes and the burners with which they are intended to function shall be fixed.</p> <p>It shall not be possible for components associated with burners (pan supports, grill, etc.) to move unintentionally.</p> <p>It shall not be possible to reassemble removable burner parts incorrectly when following the information given in the instructions, they shall not be interchangeable unless of identical design.</p>	<p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p>
5.17	<p>Appliance incorporating a gas container</p>	
5.17.1	<p>If the appliance has a compartment to receive a refillable gas container, this compartment shall be designed in such a way that</p> <ul style="list-style-type: none"> a) effective ventilation is provided by openings in its base and upper section, the total area of the openings in the upper section being 1/100 of the base area of the compartment and that of the openings at the base being 1/50 of the base area of the compartment; b) the support of the container (or containers) has sufficient mechanical strength to resist deformation under the load of a full container (or containers); c) the gas container (or containers) can be easily inserted in, or removed from, the appliance; d) the gas container valve is readily accessible and remains easy to manipulate when the gas container is in place; e) when the appliance may be connected by a flexible tube, this shall not come into contact with sharp edges, when fitted in accordance with the indications in the instructions. <p>If the appliance is fitted with a support or fixing device for the gas container, the container shall be firmly fixed on the support or device and the requirements of 5.17.1 b), c), d) and e) shall be met.</p>	<p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p>

5.18	Durability of markings The durability of markings is considered satisfactory if, at the end of the tests in this standard, markings are still visible and legible after the test described in 7.3.10.	YES-NA-NT-NO
5.19	Auxiliary energy When the appliance is designed to operate on auxiliary energy via a connection to the electrical mains supply, it shall be built in such a way that no dangerous situation arises - in case of normal variation in the auxiliary energy (- 15 %; + 10 %): the appliance shall continue to operate in a safe fashion; - in case of abnormal variations in the auxiliary energy (beyond the range - 15 %; + 10 %): the appliance shall either continue operating in a safe fashion or shut down; - if failure of auxiliary energy causes the appliance to shut down; its restoration shall not create any danger. The electrical equipment of the appliance shall comply with the relevant requirements of EN 60335-2-102:2016. For appliances fitted with automatic control devices these shall comply with EN 161:2011+A3:2013, EN 298:2012.	YES-NA-NT-NO YES-NA-NT-NO YES-NA-NT-NO YES-NA-NT-NO YES-NA-NT-NO
5.20	Resistance to liquid spillage Under the conditions defined in 6.10, neither burners nor pilots shall be extinguished, unless this is caused by the action of a flame supervision device.	YES-NA-NT-NO
6.1	Soundness Under the test conditions defined in 7.3.1, the leakage shall not exceed 0,07 l/h (dry air, 20 °C, 1013,25 mbar).	YES-NA-NT-NO
6.2	Verification of the nominal heat input Under the test conditions defined in 7.3.2 (see also annex B), each of the burners, supplied separately, shall be capable of giving the nominal heat input stated by the manufacturer, however a tolerance of +/- 8 % between the heat input obtained and the nominal heat input is permitted. The tolerance is increased to +/- 10 % for burners fitted with injectors whose diameter is less than or equal to 0,5 mm.	YES-NA-NT-NO
6.3	Flame supervision devices Under the test conditions defined in 7.3.3, the ignition delay time shall not exceed 20 s and the extinction delay time shall not exceed 90 s.	YES-NA-NT-NO
6.4	Safety of operation	
6.4.1	Ignition, cross-lighting Under the test conditions defined in 7.3.4.1, ignition and cross-lighting of burners shall occur smoothly within 5 s of the burner tap being placed in the full rate position or, if applicable, in the ignition position. It shall be possible to light the burners with an external means (for example: a match) in an easy and safe fashion, even when an ignition device exists. It shall be possible to the user to check the ignition of burners.	YES-NA-NT-NO YES-NA-NT-NO YES-NA-NT-NO
6.4.2	Flame stability Under the conditions defined in 7.3.4.2, after ignition in accordance with 6.4.1, flames shall be stable and quiet. A slight tendency to flame lift is permitted at the time of ignition, but flames shall be stable 60 s after ignition.	YES-NA-NT-NO
6.4.3	Resistance to draught Under the test conditions defined in 7.3.4.3, burners shall neither - be extinguished, unless fitted with a flame supervision device; - nor permanently light back under the action of a 3 m/s wind.	YES-NA-NT-NO

6 4.4	Resistance to overheating After the overheating test defined in 7.3.4.4 burners shall show no deterioration likely to impair their operation.	YES-NA-NT-NO
6 4.5	Soundness of burner parts When a burner, having a body made up of several parts, operates under the test conditions in 7.3.4.5, there shall be no leakage of any flammable quantity of air/gas mixture at the joints of the assembly.	YES-NA-NT-NO
6.5	Temperatures Under the test conditions defined in 7.3.5, the temperatures shall not exceed the following limits: a) Front and side panels The rise in temperature above the ambient temperature measured on accessible, surfaces of the front and side panels of the appliance, as defined in 7.3.5.3, shall not exceed the following limits: 1) metal and painted metal: 60 K; 2) enamelled metal: 65 K; 3) glass and porcelain: 80 K; 4) plastics or wood: 100 K. b) Surfaces in contact with the flexible tube The temperatures of the appliance surface likely to come in contact with the flexible tube, when installed and connected in accordance with the instructions, shall not exceed the ambient temperature by more than 70 K. c) Connections If the end of the gas inlet is fitted with a nozzle complying with the national situations indicated in annex A, this nozzle shall be positioned in such a way that the temperature of the nozzle does not exceed the ambient temperature by more than 30 K. d) Fittings The temperature of the fittings the failure of which may affect the safety of operation shall not exceed the maximum temperature stated in the instruction of the fitting. e) Control handles and parts intended to be touched The rise in temperature above the ambient temperature of parts intended to be touched in normal use, only measured in the gripping areas, shall not exceed the following limits: - metal and painted metal: 35 K; - glass and porcelain: 45 K; - plastics or wood: 60 K. f) Support The surface temperature of the appliance support shall not exceed the ambient temperature by more than 70 K. If the temperature of the support exceeds 50 K, the manufacturer shall specify the conditions of use of the appliance, in particular he shall specify the type of surface protection to be used. g) Wall of LPG cylinder compartment (if any) The temperature rise above ambient temperature of the LPG cylinder compartment walls shall not exceed 45 K at any point that is likely to come in contact with the gas cylinder.	YES-NA-NT-NO YES-NA-NT-NO YES-NA-NT-NO YES-NA-NT-NO YES-NA-NT-NO YES-NA-NT-NO YES-NA-NT-NO YES-NA-NT-NO YES-NA-NT-NO YES-NA-NT-NO YES-NA-NT-NO YES-NA-NT-NO

6.6	<p>Overheating of the gas container</p> <p>Under the test conditions defined in 7.3.6, the rise in vapour pressure inside the container relative to that measured at the start of the test, after one hour of operation at full rate, at normal pressure and during the 30 min following the extinction of the appliance, shall not exceed the values given in table 1.</p> <p>Table 1 — Values for vapour pressure rise inside the container</p> <table data-bbox="576 443 1137 656"> <tr> <th rowspan="2">Ambient temperature °C</th><th colspan="2">Maximum permitted pressure rise bar</th></tr> <tr> <th>G30</th><th>G31</th></tr> <tr> <td>15</td><td>0,40</td><td>1,00</td></tr> <tr> <td>20</td><td>0,45</td><td>1,10</td></tr> <tr> <td>25</td><td>0,50</td><td>1,20</td></tr> </table>	Ambient temperature °C	Maximum permitted pressure rise bar		G30	G31	15	0,40	1,00	20	0,45	1,10	25	0,50	1,20	YES-NA-NT-NO
Ambient temperature °C	Maximum permitted pressure rise bar															
	G30	G31														
15	0,40	1,00														
20	0,45	1,10														
25	0,50	1,20														
6.7	<p>Combustion</p> <p>For each of the burners operating separately, under the test conditions defined in 7.3.7.1, the quantity of CO in the air and water vapour free products of combustion shall not exceed 0,15 %.</p> <p>When the hot-plate burners are operated simultaneously, under the test conditions defined in 7.3.7.2, the quantity of CO in the air and water vapour free products of combustion shall not exceed 0,20 %.</p>	YES-NA-NT-NO YES-NA-NT-NO														
6.8	Sooting															
	At the end of all the tests of this standard, no deposit of soot likely to impair safe operation shall be observed.	YES-NA-NT-NO														
6.9	Rational use of energy: Performance of the burners															
6.9.1	<p>Open burners</p> <p>For hot-plate burners having a nominal heat input above 1,16 kW the efficiency obtained under the test conditions defined in 7.3.9.1 shall not be less than 50 %.</p>	YES-NA-NT-NO														
6.9.2	<p>Covered burners</p> <p>For hot-plate burners having a nominal heat input above 1,16 kW the efficiency obtained under the test conditions defined in 7.3.9.2 shall not be less than</p> <ul style="list-style-type: none"> - 25 % (from the cold condition); - 35 % (from the hot condition). 	YES-NA-NT-NO YES-NA-NT-NO														
6.10	<p>Resistance to liquid spillage</p> <p>Burners are operated, with taps fully open with the reference gas at the normal test pressure for the appliance.</p> <p>They are used to bring to and keep boiling vessel according to Table 8, not covered by a lid, filled with water to a height of 10 mm from the top. The test continues until there is no spillage. The requirement of 5.20 shall be met. Partial extinction of the burners is permitted provided that there is automatic reignition.</p>	YES-NA-NT-NO YES-NA-NT-NO														

8	Marking	
8.1	<p>Appliance marking</p> <p>All appliances shall carry, in a visible, legible to the user and durable fashion, in indelible characters at least the following information. The information shall be given in the official language(s) of the country or countries in which the appliance is to be sold.</p> <ul style="list-style-type: none"> - the name of the manufacturer or his identifying symbol; <p><i>NOTE Decision No 768/2008/EC gives the following definition of the manufacturer: 'manufacturer' shall mean any natural or legal person who manufactures a product or has a product designed or manufactured, and markets that product under his name or trademark</i></p> <ul style="list-style-type: none"> - postal address of the manufacturer. If not possible, on the packaging or in a document accompanying the appliance; - the appliance name; - the total nominal heat input of all the burners expressed in kilowatts based on the gross calorific value; - the type of gases which may be used and the corresponding supply pressures; - the appliances category; - the type of electrical supply used, if applicable. <p>In addition, the data plate or any other support shall give me following warnings:</p> <ol style="list-style-type: none"> use outdoors only.; read the instructions before using the appliance. <p>These statements shall be visible, legible to the user during me operation of the appliance and durable.</p>	<p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p>
8.2	<p>Packaging marking</p> <p>The packaging of the appliance shall carry the following information in a visible and legible fashion, in the official language(s) of the country or countries in which the appliance is to be sold:</p> <ul style="list-style-type: none"> - the type and pressure of the commercial gases which may be used; - the appliance category, - the instruction to only use the appliance outdoors; - the necessity of reading the instructions before use. 	<p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p>
8.3	<p>Instructions for assembly, use and maintenance</p> <p>Instructions for use and maintenance shall be supplied with the appliance. All the information shall be given in the official language(s) of the country or countries in which me appliance is to be sold.</p> <p>The instructions shall repeat the information required by 8.1. In addition they shall specify:</p> <ol style="list-style-type: none"> the manufacturers address. ((for manufacturer definition see note of 8.1); The conditions of assembly and dismantling and of storage of the functional section of the appliance, in particular: <ul style="list-style-type: none"> - the precautions to be taken when stoning the appliance; - the precautions to be taken in the taken of blockage of the venturi or venturis; - assembly diagrams, if applicable; - the marking of injectors. 	<p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p> <p>YES-NA-NT-NO</p>

	a)	The conditions of connection to the gas container, in particular	YES-NA-NT-NO
		- the type(s) of container(s) to be used and their position(s);	YES-NA-NT-NO
		- the type of regulator to be used;	YES-NA-NT-NO
		- the type of flexible tube connecting the appliance to the gas container and the length recommended which shall not exceed 1,50 m;	YES-NA-NT-NO
		- the routing of the flexible tube and the use of guides;	YES-NA-NT-NO
		- the necessity of changing the flexible tube when the national conditions require it.	YES-NA-NT-NO
	b)	The conditions of installation, in particular	YES-NA-NT-NO
		- the position of the connection flexible tube so as to ensure that it is not subjected to twisting;	YES-NA-NT-NO
		- a warning such as an instruction "this appliance must be kept away from flammable materials".;	YES-NA-NT-NO
		- the necessity of not obstructing the ventilation openings of the container	YES-NA-NT-NO
		- the precautions to be taken when changing the gas container which shall be canted out away from any source of ignition,;	YES-NA-NT-NO
		- the type of protection for the surface to be used when the support temperature exceeds 50 K.	YES-NA-NT-NO
	c)	The conditions of use, in particular	YES-NA-NT-NO
		- the usual cleaning and maintenance as well as the frequency of such tasks;	YES-NA-NT-NO
		- the procedure in the event of gas leak (fuming off the gas supply);	YES-NA-NT-NO
		- the minimum and maximum sizes of cooking vessels to be used;	YES-NA-NT-NO
		- the commendation of the use of protective gloves when handling particularly hot	YES-NA-NT-NO
		- a note advising that parts sealed by the manufacturer or his agent must not be manipulated by the user.	YES-NA-NT-NO
	d)	In addition, the instructions shall contain the following warnings:	YES-NA-NT-NO
		"Only to be used outdoors"	YES-NA-NT-NO
		"Read the instructions before using the appliance"	YES-NA-NT-NO
		"Do not move the appliance during use"	YES-NA-NT-NO
		"Turn off the gas supply at the gas container after use"	YES-NA-NT-NO
		"Any modification of the appliance may be dangerous"	YES-NA-NT-NO
		For appliances using other sources of energy, the instructions shall contain the instructions specified by the corresponding standards.	YES-NA-NT-NO

FURTHER INFORMATION

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----End of Report----