IVROU®

SELF-PRIMING FILTER RESPIRATOR

EN149:2001+A1:2009 FFP2

IRYS-01

CONTENTS

Guangzhou Carrot Mall Network Technologies Co.,Ltd.

Room 1406, No.4 Zhudian Road (Nansha street), Nansha District, Guangzhou, Guangdong Province , China

EC Declaration of Conformity

We, Guangzhou Carrot Mall Network Technologies Co.,Ltd., located at Room 1406, No.4 Zhudian Road (Nansha street), Nansha District, Guangzhou,Guangdong Province , China, being the manufacturer, hereby declare that the PPE unit described hereafter as

IVROU SELF-PRIMING FILTER
RESPIRATOR
IRYS-01

is in conformity with the provisions of Personal Protective Equipment Regulation (EU) 2016/425 and the harmonized European Standard Number EN149:2001+A1:2009

and is in conformity with provisions of § 221 p. 1) and 2) of the Regulation of the Minister of Energy of Poland form November 23rd, 2016. on detailed requirements for running underground mining plants.

Signed by Chen Xiao Ying

General Manager

Guangzhou Carrot Mall Network Technologies Co.,Ltd.
Address: Room 1406, No.4 Zhudian Road (Nansha street), Nansha District, Guangzhou, Guangdong Province, China

Date: 2020/12/05

EU Type Examination Certificate

This is to certify that:

Unimama B.V.
Sloterweg 315
Badhoevedorp
1171 VC
The Netherlands

Holds Certificate Number: CE 729819

In respect of:

Model IRYS-01 Particulate Respirator.
To technical specification Annex II (EHSR) of the PPE Regulation (EU) 2016/425.
PPE for use by healthcare professionals as per Commission recommendation 2020/403.

on the basis that BSI carried out the relevant Type Examination procedures under the requirements with the Regulation (EU) 2016/425 of the European Parliament and Council relating to Personal Protective Equipment Regulation (PPE) Annex V (Module B) and meets the relevant health and safety requirements specified in Annex II

For and on behalf of BSI, a Notified Body for the above Regulation (Notified Body Number 2797):

Drs. Dave Hagenaars, Managing Director

Previous Notified Body: BSI 0086

First Issued: 2020-07-08

Effective Date: 2020-07-08

Latest Issue: 2020-07-08

Expiry Date: 2021-07-08

PRODUCTS RvA C 646

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EU Type Examination Certificate

No. CE 729819

Product Specification

Product Name:	Ivrou Self Priming Filter Respirator
Product Type:	Particulate filtering half masks for use by Healthcare professionals.
Model:	**IRYS-01**
Classification:	FFP2 NR un-valved.
Technical Specification:	Technical specification to satisfy Annex II of the PPE Regulation (EU) 2016/425.
Product Description:	The respirator is non-reusable, secured to the face of the user by a pair of elasticated ear straps, and has no exhalation valve. The respirator is FFP2 class, vertical fold flat type. The product is manufactured at Guangzhou Carrot Mall Network Technologies Co., Ltd - Room 1406, No.4 Zhudian Road (Nansha Street), Nansha District, Guangzhou, Guangdong Province, China. The respirator listed on this certificate is for use by healthcare workers, first responders and other personnel involved in the efforts to contain the COVID-19 virus and avoid its further spread. The product covered by this certificate is not approved for industrial applications and the certificate is only valid as long as EU Commission recommendation sheet 2020/403 remains applicable.
Product Assessments:	BSI's PPE for Healthcare Professionals 2020/403 – RPE Technical Specification.

First Issued: 2020-07-08
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Effective Date: 2020-07-08
Expiry Date: 2021-07-08

EU Type Examination Certificate

No. CE 729819

Certificate Administration Details

Technical File Reference: Technical files for model IRYS-01

Certificate Amendment Record:

Issue date	Comments	BSI Review No.
July 2020	First issue.	2797:20:3218334

Certificate validity

The Certificate holder is responsible for ensuring that the Notified Body is advised of changes to any aspect of the overall process utilised in the manufacture of the product, failure to do so could invalidate the Certificate in respect of product manufactured following the introduction of such changes.

The validity of the Certificate for the products is also dependent on the maintenance of the EU Conformity to Type based on Internal Production Control plus supervised product checks at random intervals, Annex VII (Module C2) as referenced on BSI issued Certificate CE 729821.

First Issued: 2020-07-08
Latest Issue: 2020-07-08

Effective Date: 2020-07-08
Expiry Date: 2021-07-08

Conformity to Type based on Internal Production Control plus supervised product checks at random intervals

This is to certify that:

Unimama B.V.
Sloterweg 315
Badhoevedorp
1171 VC
The Netherlands

Holds Certificate Number: CE 729821

In respect of:

For the manufacture of particulate respirators to technical specification to satisfy Annex II of the PPE Regulation (EU) 2016/425.

on the basis that BSI carried out the supervised production checks at random intervals under the requirements with the Regulation (EU) 2016/425 of the European Parliament and Council relating to Personal Protective Equipment Regulation (PPE) Annex VII (Module C2)

For and on behalf of BSI, a Notified Body for the above Regulation (Notified Body Number 2797):

Drs. Dave Hagenaars, Managing Director

Previous Notified Body: BSI 0086

First Issued: 2020-07-08

Effective Date: 2020-07-08

Latest Issue: 2020-07-08

Expiry Date: 2021-07-08

PRODUCTS RvA C 646

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Conformity to Type based on Internal Production Control plus supervised product checks at random intervals

No. CE 729821

Product manufactured by:

Guangzhou Carrot Mall Network Technologies Co., Ltd
Room 1406, No.4 Zhudian Road (Nansha Street),
Nansha District,
Guangzhou,
Guangdong Province,
China

Product details

The respiratory protective device covered by the scope of this Module C2 Certificate and the Technical Specification to which the product is manufactured are as follows:

Product type:	Particulate filtering half masks for use by Healthcare professionals.
Model and classifications:	IRYS-01 FFP2 NR
Technical Specification:	Technical specification to satisfy Annex II of the PPE Regulation (EU) 2016/425. BSI's PPE for Healthcare Professionals 2020/403 – RPE Technical Specification.

First Issued: 2020-07-08
Latest Issue: 2020-07-08

Effective Date: 2020-07-08
Expiry Date: 2021-07-08

Conformity to Type based on Internal Production Control plus supervised product checks at random intervals

No. CE 729821

Certificate Administration Details:

Certificate Amendment Record and BSI internal Review relating to this Certificate

Issue date	Comments	BSI Review No.
July 2020	First issue.	2797:20:3218335

Certificate validity

The Certificate holder is responsible for ensuring that the Notified Body is advised of changes to any aspects of the overall quality system utilized in the manufacture of the products, failure to do so could invalidate the Certificate in respect of product manufactured after the introduction of such changes.

First Issued: 2020-07-08
Latest Issue: 2020-07-08

Effective Date: 2020-07-08
Expiry Date: 2021-07-08

Test Report 3218331.

Unimama B.V.

Introduction.

This report has been prepared by Paul Waller and relates to the activity detailed below:

Job/Registration Details		Client Details
Job number:	**3218331**	Unimama B.V.
Job type:	Testing Samples Submitted	Sloterweg 315
Start Date:	15/05/2020	Badhoevedorp
Test type:	Type	1171 VC
Sample ID:	10190064	The Netherlands
Registration:	**CE 729819**	
Scheme:	Positive pressure RPE	
Protocol:	PP123	
Scheme Manager:	Nathan Shipley	

The report has been approved for issue by T Wicksey – Senior Test Engineer

Approved For Issue	
	Issue Date: 29 May 2020

Objectives.

This is an independent test evaluation to only certain clauses or sub-clauses of the agreed specification in accordance with the following test programme:

BSI COVID-19 filtering face piece technical specification, for COVID-19 masks for use by healthcare workers

Product Scope.

COVID-19 masks for use by healthcare workers

Report Summary.

The samples were received on 7 May 2020 and the testing was started on 15 May 2020.

The samples submitted complied with the requirements of the test work conducted.

Test Samples.

Sample ID	ER Number	Description
1 to 19	10190064	Model: IRYS-01

Description of Test Samples.

Sample Description
COVID-19 masks for use by healthcare workers: Model: IRYS-01

Test Requirements.

Testing in accordance with BSI COVID-19 filtering face piece technical specification
Technical testing specification for COVID-19 masks for use by healthcare workers

EN 149:2001+A1:2009 Performance requirement	EN 149:2001+A1:2009 Test method clause	Requirement	Assessment
7.7 Practical performance The particle filtering half mask shall undergo practical performance tests under realistic conditions. These general tests serve the purpose of checking the equipment for imperfections that cannot be determined by the tests described elsewhere in this standard. Where practical performance tests show the apparatus has imperfections related to wearer's acceptance, the test house shall provide full details of those parts of the practical performance tests which revealed these imperfections. *2 test subjects, masks tested 'As received'*	Testing shall be done in accordance with 8.4.	During the tests the particle filtering half mask shall be subjectively assessed by the wearer and after the test, comments on the following shall be recorded: a) head harness comfort; b) security of fastenings; c) field of vision; d) any other comments reported by the wearer on request.	Pass
7.9 Leakage **7.9.1 Total inward leakage** *5 test subjects, masks tested 'As received'*	Testing shall be done in accordance with 8.5.	All samples must achieve All individual exercise results tests shall be not greater than 11 % (for FFP2) and, in addition, all arithmetic means for the total inward leakage shall be not greater than 8 % (for FFP2)	Pass
7.9 Leakage **7.9.2 Penetration of filter material** *3 test samples masks tested 'As received', for NaCl (Sodium Chloride) and PO (Paraffin oil), 3min test*	Testing shall be done in accordance with 8.11	6% for both PO and NaCl	Pass
7.12 Carbon dioxide content of the inhalation air *3 test samples, masks tested 'As received'*	Testing shall be done in accordance with 8.7.	The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1,0 % (by volume).	Pass
7.16 Breathing resistance *3 test samples, masks tested 'As received'*	Testing shall be done in accordance with 8.9	The breathing resistances shall meet the requirements of; 30l/min – 0.7mbar (inhale) 95l/min – 2.4mbar (inhale) 160l/min – 3.0mbar (exhale)	Pass
Appendix A - Test Panel Data			
Product Photographs			

Glossary of Terms.

Pass: Complies. Tested by BSI engineers at BSI laboratories
Pass 1: Complies. Witnessed by BSI engineers in manufacturers laboratory.
Pass 2: Complies. Tests carried out by third party lab; results accepted by BSI.
Pass*: Report resulted in uncertainty and states that Compliance is more probable than non-compliance.
Fail: Non-compliance. Product does not meet the requirements of this clause.
Fail*: Report resulted in uncertainty and states that Non-compliance is more probable than compliance.
N/T: Not Tested
N/A: Not Applicable
AR: As Received
TC: Temperature Conditioned
SW: Simulated Wear
FT: Flow Tested
MS: Mechanical strength
MMDF: Manufactures Minimum Design Flow
MMDC: Manufactures Minimum Design Condition

Conditions of Issue.

This Test Report is issued subject to the conditions stated in current issue of 'BSI Terms of Service'. The results contained herein apply only to the particular sample(s) tested and to the specific tests carried out, as detailed in this Test Report. The issuing of this Test Report does not indicate any measure of Approval, Certification, Supervision, Control or Surveillance by BSI of any product. No extract, abridgement or abstraction from a Test Report may be published or used to advertise a product without the written consent of BSI, who reserve the absolute right to agree or reject all or any of the details of any items or publicity for which consent may be sought.

Should you wish to speak with BSI in relation to this report, please contact Customer Services on +44 (0)8450 80 9000.

BSI
Kitemark House
Maylands Avenue
Hemel Hempstead
Hertfordshire
HP2 4SQ

UKAS TESTING
0135

Opinions and Interpretations expressed herein are outside the scope of our UKAS accreditation.
Unless otherwise stated, any results not obtained from testing in a BSI laboratory are outside the scope of our UKAS accreditation.

Test Results.

Testing in accordance with BSI COVID-19 filtering face piece technical specification

BS EN 149:2001 +A1:2009 Technical testing specification for COVID-19 masks for use by healthcare workers

CLAUSE	REQUIREMENTS	ASSESSMENT
7.7	**Practical performance** The particle filtering half mask shall undergo practical performance tests under realistic conditions. These general tests serve the purpose of checking the equipment for imperfections that cannot be determined by the tests described elsewhere in this standard. Where practical performance tests show the apparatus has imperfections related to wearer's acceptance, the test house shall provide full details of those parts of the practical performance tests which revealed these imperfections. Test in accordance with clause 8.4 of the standard. ***Testing in accordance with BSI COVID-19 filtering face piece technical specification, for masks for use by healthcare workers*** *During the tests the particle filtering half mask shall be subjectively assessed by the wearer and after the test, comments on the following shall be recorded:* *a) head harness comfort; b) security of fastenings; c) field of vision; d) any other comments reported by the wearer on request.*	Pass

Table A: Practical performance

Test candidate	Sample	Comments				Assessment
		Head harness comfort	Security of fastenings	Field of vision	Any other comments	
JB2	1 AR	OK	OK	Good	Air leak towards eyes on exhale	Pass
JS3	2 AR	Quite tight	OK	OK	None	Pass

7.9 Leakage

7.9.1 Total inward leakage

The laboratory tests shall indicate that the particle filtering half mask can be used by the wearer to protect with high probability against the potential hazard to be expected.

The total inward leakage consists of three components: face seal leakage, exhalation valve leakage (if exhalation valve fitted) and filter penetration.

Test in accordance with clause 8.5 of the standard. Pass

Testing in accordance with BSI COVID-19 filtering face piece technical specification, for masks for use by healthcare workers

5 test subjects, masks tested 'As received'. All individual exercise results tests shall be not greater than 11 % (for FFP2) and, in addition, all arithmetic means for the total inward leakage shall be not greater than 8 % (for FFP2).

Table B: Clause 7.9.1 - Total inward leakage

Test candidate	Sample	Pre test condition	Inward Leakage (%)						Assessment
			A	B	C	D	E		
			Walking	Walking with head side to side	Walking with head up & down	Walking and talking	Walking	Average	
CB1	3	AR	2.76	3.46	3.29	3.28	3.38	3.23	Pass
GR1	4	AR	3.62	4.58	2.98	3.67	2.42	3.45	Pass
BH2	5	AR	0.53	0.77	0.62	0.66	0.99	0.71	Pass
JA1	6	AR	2.79	2.76	2.31	2.33	2.87	2.61	Pass
JB1	7	AR	1.34	1.96	0.74	1.40	2.57	1.60	Pass

Test Results. (Continued)

CLAUSE	REQUIREMENTS	ASSESSMENT
7.9.2	Penetration of filter material ***Testing in accordance with BSI COVID-19 filtering face piece technical specification, for masks for use by healthcare workers*** *3 test samples masks tested 'As received', for NaCl (Sodium Chloride) and PO (Paraffin oil), 3 min test. Testing shall be done in accordance with 8.11. 6% limit for both PO and NaCl*	Pass

Table C: Clause 8.11 - Sodium Chloride penetration test

Sample number	Pre-test condition	Flow through filter (l/min)	Penetration (%)	
			Limit	Actual
8	AR	95	< 6	0.434
9	AR			0.376
10	AR			0.641

Table D: Clause 8.11 - Paraffin oil penetration test

Sample number	Pre-test condition	Flow through filter (l/min)	Penetration (%)	
			Limit	Actual
11	AR	95	< 6	2.768
12	AR			1.556
13	AR			1.854

7.12 Carbon dioxide content of inhalation air — Pass

The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1.0% (by volume).

Test in accordance with clause 8.7 of the standard.

Table E: Clause 8.7 - Carbon Dioxide content of the inhalation air

Sample	Pre-test condition	Dead space CO_2 (%)	
		Limit	Measured
14	AR	< 1.0	0.40
15	AR		0.44
16	AR		0.42

Test Results. (Continued)

CLAUSE	REQUIREMENTS	ASSESSMENT
7.16	**Breathing resistance** ***Testing in accordance with BSI COVID-19 filtering face piece technical specification, for masks for use by healthcare workers*** *3 test samples masks tested 'As received'. Test in accordance with clause 8.9 of the standard.* *The breathing resistances shall meet the requirements of FFP2;* *30l/min – 0.7mbar (inhale), 95l/min – 2.4mbar (inhale), 160l/min – 3.0mbar (exhale)*	Pass

Table F: Clause 8.9 – Breathing resistance. Inhalation resistance at a continuous flow

Sample	Pre-test condition	Continuous flow (l/min)	Inhalation resistance (mbar)	
			Limit	Measured
17	AR	30	< 0.7	0.47
18	AR			0.40
19	AR			0.40
17	AR	95	< 2.4	1.51
18	AR			1.31
19	AR			1.28

Table G: Clause 8.9 – Breathing resistance. Exhalation resistance at a continuous flow, measured in five orientations with the worst case reported

Sample	Pre-test condition	Continuous flow (l/min)	Exhalation resistance (mbar)	
			Limit	Measured
17	AR	160	< 3.0	2.36
18	AR			2.10
19	AR			2.10

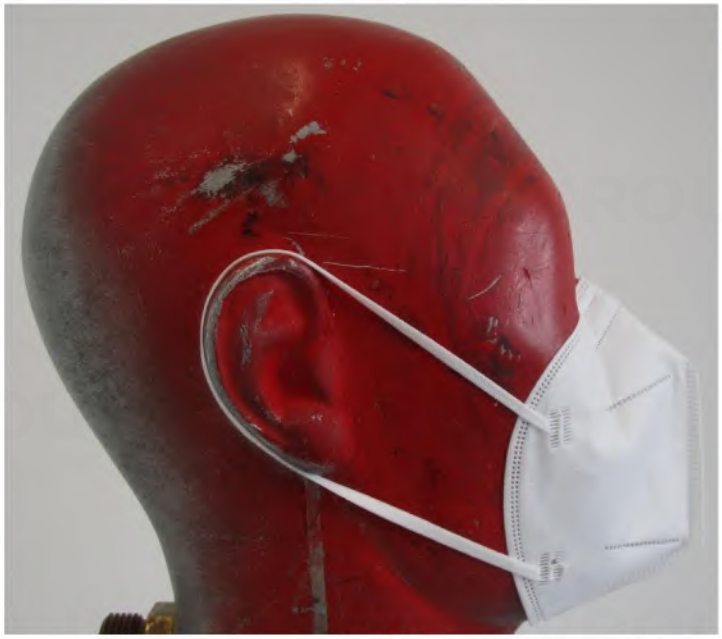
Appendix A. – Test Panel Data

Test Candidate	Facial Dimensions (mm)					Sex
	Length of face	Width of face	Face depth	Width of mouth	Head Circumference	
JB2	111	135	118	52	550	Male
JS3	126	134	124	49	600	Male
GR1	124	145	126	49	590	Male
CB1	117	147	130	57	566	Male
BH2	124	148	120	51	595	Male
JA1	117	134	129	49	565	Male
JB1	114	144	108	59	574	Male

Note: All candidates were clean shaven

Product photographs.

Front view



Side View

Inside View

End of Report

Certificate of Management System Certification

This is to certify the quality management system of

GUANGZHOU CARROT MALL NETWORK TECHNOLOGIES CO., LTD

Unified Social Credit Code:9144011507212212XQ

REGISTRATION ADDRESS: ROOM 1406, NO. 4, ZHUDIAN ROAD (NANSHA STREET), NANSHA DISTRICT, GUANGZHOU CITY
MANAGEMENT/PRODUCTION ADDRESS: ROOM 203, BUILDING 5, NO. 3, LIUXIN ROAD, NANSHA DISTRICT, GUANGZHOU CITY, GUANGDONG PROVINCE

Is in conformity with

ISO 9001:2015

This certificate covers the following area

MANUFACTURING AND SALES OF GENERAL LABOR PROTECTION APPLIANCES (MASKS)

Initial Certification Date: JUN.02,2020 **Issue Date: From JUN.02,2020**

Validity Period: From JUN.02,2020 To JUN.01,2023

Certificate No.: U919120Q30715R0S **legal representative: *Pang Ying***

MEMBER OF MULTILATERAL RECOGNITION ARRANGEMENT IAF

UKAS MANAGEMENT SYSTEMS
9191

BEIJING DALUHANGXING QUALITY CERTIFICATION CENTER CO., LTD. 1101080624650

Certified client shall receive at least one surveillance audit every year within the validity period, the certificate shall only be valid when used in conjunction with the Notice Letter of Annual Surveillance Certification Decision. Note: The management system certification audit report and surveillance conclusion notice can obtain from the HXQC Certified Clients Relationship Management System (website: vip.hxqc.cn)
Information on this certificate could be verified on the official website of Certification and Accreditation Administration of the People's Republic of China (www.cnca.gov.cn) and www.hxqc.cn

Beijing Daluhangxing Quality Certification Center Co., Ltd.

PRODUCTS INFORMATION

Product name:IVROU SELF-PRIMING FILTER RESPIRATOR

Model:IRYS-01

1 PCS/BAG, 50 BAGS/BOX, 12 BOXES/CARTON

MEASURE OF CARTON: 55.5*26.5*28 CM

GROSS WEIGHT: 5.5 KG

MEASURE OF BOX: 18*12.5*13.25cm

PRODUCTS INFORMATION

Product name:IVROU SELF-PRIMING FILTER RESPIRATOR

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