

HEYUAN ARCOM MEDICAL DEVICES CO., LTD.

EU DECLARATION OF CONFORMITY

No.: DOC-AC9504

This declaration of conformity is issued under the sole responsibility of the manufacturer for the designated product described below. The object of the declaration described below is in conformity with the relevant Union Harmonization Legislation: Regulation (EU) 2016/425.

The notified body Universal (NB: 2163) performed the EU TYPE-EXAMINATION (MODULE B) and issued EU TYPE-EXAMINATION CERTIFICATE. The product subject to the conformity assessment procedure: CONFORMITY TO TYPE BASED ON INTERNAL PRODUCTION CONTROL PLUS SUPERVISED PRODUCT CHECKS AT RANDOM INTERVALS (MODULE C2) under surveillance of the notified body Universal (NB: 2163)

MANUFACTURER: Heyuan Arcom Medical Devices Co., Ltd. Yingke Avenue, Linjiang Industrial Park, Linjiang Town, Jiangdong New District, Heyuan City, Guangdong, China, 517475 Filtering Half Mask PRODUCT NAME: CLASSIFICATION: FFP2 NR MODEL: AC9504 HARMONIZED STANDARDS: EN149:2001+A1:2009 Respiratory Protective Device -Filtering Half Masks to Protect against particles -Requirements, Testing, Marking CERTIFICATE NUMBER: 2163-PPE-892 Universal Certification NOTIFIED BODY INFORMATION: UYGUNLUK DEĞERLENDİRME HİZMETLERİ VE TİC. A.S. (NB ID: 2163)

This declaration applies to all specimens manufactured identical to the model submitted for evaluation. Assessment of compliance of the product with the requirements relating to safety standards and legal requirements listed above was performed by manufacturer.

Other relevant legal requirements for product and manufacturing have to be observed.



Heyuan Arcom Medical Devices Co., Ltd.

General Manager: Yip Yu Pang

Signature:

Place & Date: Heyuan City 1st September 2020

Verify the validity with the QR code



NB 2163

EU TYPE EXAMINATION CERTIFICATE

Certificate No: 2163-PPE-892

Respiratory protective devices, filtering half masks to protect against particles manufactured by

Heyuan Arcom Medical Devices Co., Ltd.

Yingke Avenue, Linjiang Industrial Park, Linjiang Town, Jiangdong New District, Heyuan City, Guangdong, 517475, China

are tested and evaluated according to

EN 149:2001 + A1:2009 Respiratory Protective Devices -Filtering Half Masks to Protect Against Particles -Requirements, Testing, Marking

Based on the type examination conducted with the evaluation of test reports, technical file according to Personal Protective Equipment Regulation (EU) 2016/425 Annex 5, it is approved that the product meets the requirements of the regulation.

Product Definition

Brand Name: HEYUAN ARCOM Model: AC9504 Filtering half mask Classification: FFP2 NR

Here by the manufacturer is allowed to use notified body number (2163) and can fix CE mark, as shown below, on the Category III product models given above, with;

- Issuing an appropriate EU Declaration of Conformity according to Personal Protective Equipment Regulation (EU) 2016/425 Annex 9.
- Ongoing successful performance in fulfilment of the requirements set out in Personal Protective Equipment Regulation (EU) 2016/425 and harmonised standards, ensured by assessments based on Annex 7 (Module C2) or Annex 8 (Module D) of the regulation no later than 1 year from the beginning of serial production

This certificate is initially issued on 30/06/2020 and will be valid for 5 years, if there is no change in the relevant harmonised standard affecting the essential health and safety requirements.

CE 2163

Suat KACMAZ

UNIVERSAL CERTIFICATION
Director



TECHNICAL ASSESSMENT REPORT

REPORT DATE / NO: 30.06.2020 / 2163-KKD-892

Manufacturer: Heyuan Arcom Medical Devices Co., Ltd.

Address: Yingke Avenue, Linjiang Industrial Park, Linjiang Town, Jiangdong New District, Heyuan City, Guangdong, 517475, China

This report is for the, given above, manufacturer prepared according to the test results obtained from Jiangsu Guojian Testing Technology Co., Ltd. accredited by CNAS (China National Accreditation Service), signatory to iLAC MRA, with number L-10118 for the product identified below, dated 20.06.2020 with Serial Id WSZ FHL F0749 based on EN 149: 2001 + A1: 2009 standard and the technical file dated 24 June 2020 Version 01 provided by the manufacturer. The sampling of the product is conducted under our supervision for testing from the manufacturing site of the cient.

The technical file of the manufacturer, and risk evaluation against the essential health safety requirements and the test report evaluated for their relation with Essential Requirements of Personel Protective Equipment Regulation and found to be appropriate.

This report is an annex and an integral part of the EU Type Examination Certificate issued to the manufacturer. The test results and issued certificate belongs only to the tested model. The technical report consists of a total of 6 pages.

Product Description: Particle Filtering Half Mask

Classification: FFP2 NR

Trademark: HEYUAN ARCOM Model: AC9504





UFR-383 12.12.2018 Rev.01



ESSENTIAL HEALTH and SAFETY REQUIREMENTS GIVEN IN EUROPEAN UNION REGULATION EU 2016/425 CORRESPONDING RISKS FOR THE PRODUCT

1.1. Design principles

1.1.1. Ergonomics

PPE must be so designed and manufactured that in the foreseeable conditions of use for which it is intended the user can perform the risk related activity normally whilst enjoying appropriate protection of the highest prossible level. The test results with human subjects did not report any problem with the ergonomics of the product.

1.1.2. Levels and classes of protection

1.1.2.1. Highest level of protection possible

The optimum level of protection to be taken into account in the design is that beyond which the constraints by the wearing of the PPE would prevent its effective use during the period of exposure to the risk or normal performance. The activity.

1.1.2.2. Classes of protection appropriate to different levels of risk

Where differing foreseeable conditions of use are such that several levels of the same risk can be distinguished, appropriate classes of protection must be taken into account in the design of the PPE.

1.2. Innocuousness of PPF

1.2.1. Absence of risks and other inherent nuisance factors

PPE must be so designed and manufactured as to preclude risks and other nuisance factors under fore seeable conditions of use. The manufacturer declares in his technical file that according to the results of risk analysis and the material properties they use in the manufacturing, the product has no hazardous content for health.

1.2.1.1. Suitable constituent materials

The materials of which the PPE is made, including any of their possible decomposition products, must not adversely affect the health or safety of users. The material selection is processed in the technical manufacturing process and documented.

1.2.1.2. Satisfactory surface condition of all PPE parts in contact with the user

Any part of the PPE that is in contact or is liable to come into contact with the user when the PPE is worn must be free of rough surfaces, sharp edges, sharp points and the like which could cause excessive irritation or injuries is evaluated and reported in the test report.

1.2.1.3. Maximum permessible user impediment

Any inpediment caused by PPE to movements to be made, postures to be adopted and sensory perception must be minimized; nor must PPE cause movements which endanger the user or other persons.

1.3 Comfort and effectiveness

1.3.1. Adaptation of PPE to user morphology

PPE must be designed and manufactured in such a way as to facilitate its correct positioning on the user and to remain in place for the foreseeable period of use, bearing in mind ambient factors, the actions to be carried out and the postures to be adopted. For this purpose, it must be possible to adopt the PPE to fit the morphology of the user by all appropriate means, such as adequate adjustment and attachment systems or the provision of an adequate range of sizes.

1.3.2. Lightness and design strength

PPE must be as light as possible without prejudicing design strength and efficiency.

Apart from the specific additional requirements which they must satisfy in order to provide adequate protection against the risks in question (see 3). PPE must be capable of withstanding the effects of ambient phenomena inherent under the foreseeable conditions of use

1.4. Information supplied by the manufacturer

The notes that must be drawn up by the former and supplied when PPE is placed on the market must contain all relevant information on:

- a) In addition to the name and addressof the manufacturer and/or his authorized representative established in the Community
- Storage, use, cleaning, maintenance, servicing and disinfection, cleaning, maintenance or disinfection protection recommended by manufacturers must have no adverse effect on PPE or users when applied in accordance with the relevant instructions;
- Performance as recorded during technical tests to check the levels or classes of protection provided by the PPE in guestion;
- d) Suitable PPE accessories and the characteristics of appropriate spare parts;
- e) The classes of protection appropriate to different levels of risk and the corresponding limits of use;
- f) The obsolescence deadlinear period of obsolescence of PPEor certain of its components:
- g) The type of packaging suitable for transport;
- h) The significance of any markings(see 2.12)
- Where appropriate the references of the Directives applied inaccordance with Article5(6) (b);
- j) The name, address and identification number of the notified body involved in the design stage of the PPE

These notes, which must be precise and comprehensible, must be provided at least in the official language(s) of the member state of destination





2. ADDITIONAL REQUIREMENTS COMMON TO SEVERAL CLASSES OR TYPES OF PPE

2.1. PPE incorporating adjustment systems

If PPE incorporates adjustment systems, the latter must be designed and manufactured so that, after adjustment, they do not become undone unintentionally in the foreseeable conditions of use.

2.3. PPE for the face, eyes and respiratory system

Any restriction of the user's face, eyes, field of vision or respiratory system by the PPE shall be minimised.

The screens for those types of PPE must have a degree of optical neutrality that is compatible with the degree of precision and the duration of the activities of the user.

If necessary, such PPE must be treated or provided with means to prevent misting-up.

Models of PPE intended for users requiring sight correction must be compatible with the wearing of spectacles or contact lenses.

2.4. PPE subject to ageing

If it is known that the design performance of new PPE may be significantly affected by ageing, the month and year of manufacture and/or, if possible, the month and year of obsolescence must be indelibly and unambiguously marked on each item of PPE placed on the market and on its packaging. If the manufacturer is unable to give an undertaking with regard to the useful life of the PPE, his instructions must provide all the information recessary to enable the purchaser or user to establish a reasonable obsolescence month and year, taking into account the quality level of the model and the effective conditions of storage, use, cleaning, servicing and maintenance.

Where appreciable and rapid deterioration in PPE performance is likely to be caused by ageing resulting from the periodic use of a cleaning process recommended by the manufacturer, the latter must, if possible, affix a marking to each item of PPE placed on the market indicating the maximum number of cleaning operations that may be carried out before the equipment needs to be inspected or discarded. Where such a marking is not affixed, the manufacturer must give that information in his instructions. The product is for single use and tested with simulated wearing conditioning.

2.6. PPE for use in potentially explosive atmospheres

PPE intended for use in potentially explosive atmospheres must be designed and manufactured in such a way that it cannot be the source of an electric, electrostatic or impact-induced are or spark likely to cause an explosive mixture to ignite.

2.8. PPE for intervention in very dangerous situations

The instructions supplied by the manufacturer with PPE for intervention in very dangerous situations must include, in particular, data intended for competent, trained persons who are qualified to interpret them and ensure their application by the user.

The instructions must also describe the procedure to be adopted in order to verify that PPE is correctly adjusted and functional when worn by the user. Where PPE incorporates an alarm which is activated in the absence of the level of protection normally provided, the alarm must be designed and placed so that it can be perceived by the user in the foreseeable conditions of use.

2.9. PPE incorporating components which can be adjusted or removed by the user

Where PPE incorporates components which can be attached, adjusted or removed by the user for replacement purposes, such components must be designed and manufactured so that they can be easily attached, adjusted and removed without tools.

2.12. PPE bearing one or more identification or recognition marks directly or indirectly relating to health and safety

The identification or recognition marks directly or indirectly relating to health and safety affixed to these types or classes of must preferably take the form of harmonized pictograms or ideograms and must remain perfectly legible throughout the foresceableuseful life of the PPE. In addition, these marks must be complete, precise and comprehensible so as to prevent any misinterpretation; in particular, where such marks incorporate words or sentences, the latter must appear in the official language(s) of the Member State where the equipment is to be used.

If PPE (or a PPE component) is too small to allow all or part of the necessary marking to be affixed, the relevant information must be mentioned on the packing and in the manufacturer's notes.

3. ADDITIONAL REQUIREMENTS SPECIFIC TO PARTICULAR RISKS

3.10.1. Respiratory protection

PPE intended for the protection of the respiratory system must make it possible to supply the user with breathable air when exposed to a polluted atmosphere and/or an atmosphere having an inadequate oxygen concentration.

The breathable air supplied to the user by PPE must be obtained by appropriate means, for example after filtration of the polluted air through PPE or by supply from an external unpolluted source.

The constituent materials and other components of those types of PPE must be chosen or designed and incorporated so as to ensure appropriate user respiratory hygiene for the period of wear concerned under the foreseeable conditions of use.

The leak-tightness of the facepiece and the pressure drop on inspiration and, in the case of the filtering devices, purification capacity must keep contaminant penetration from a polluted atmosphere low enough not to be prejudicial to the health or hygiene of the user.

The PPE must bear details of the specific characteristics of the equipment which, in conjunction with the instructions, enable a trained and qualified user to employ the PPE correctly.

In the case of filtering equipment, the manufacturer's instructions must also indicate the time limit for the storage of new filters kept in their original packaging.

DAL CERTIFICATION OF THE PARTY

UFR-383 12.12.2018 Rev.01



Technical Assessment of EN 149: 2001 + A1: 2009 Standard and other Standards it refers to, Clauses Corresponding to the (EU) 2016/425 Directive

			(me) thimats Direc	uve							
	C	onforming to EN	149:2001 + A1:2009	Standard Rea	ulrements	THE YEAR OF THE PARTY AND ADDRESS OF THE PARTY					
Article 5	Classification: : Particle Filtering Half Mask The mask subject to evaluation based on the test results and technical file provided by the numufacturer is classified as: Filtering Efficiency and maximum Total Inward Leakage. Classified as FFP2 Mask is classified for single shift use. NR										
Aenicle 1,4	Packing: Particle filtering half masks are packaged to protect them from contamination before use and with cardboard boxes to preve mechanical damage. The packaging design and the product is considered to withstand the foresceable conditions of use based on the visi inspection results given in the test report. Material: Materials used in particle filtering half masks, according to the simulated wearing treatment and temperature conditioning results. It										
enicke .s	failure of the facepit misance for the wea	nds handling and we see or straps, any m rer. The manufacture	ar over the period for which to asterial from the filter media	se particle filter released by the	ing half mank in designed air flow through the G	operature conditioning results; it to be used, it suffered mechanilter has not constitute a hazard a not have an adverse affect to:					
	Based on the test re- reported during the p	isers. sults, the masks did ractical performance	not collapse when subject to tests by human subjects.	simulated wear	ring and temarature con-	ditioning. No mustance aduation					
itiale ,6	Cleaning and Disinfection: Particle filtering half mask is not designed to be as re-usable. No eleming or disinfection process manufacturer.										
Amele 7.1	Practical Performance: The test report indicates that the human subjects did not face any difficulty in performing the excercises while they were weared by the sam masks, in walking test or work simulation tests. The weaters did not report any failure by means of head humans straps earliogs comit accuratly of fastenings and field of vision. Also no imperfactions reported during total inward tests about the comfort, field of vision and fastenings.										
	Asi	Assessed Elements		Negative	Requirements in accordance with EN						
			2 2 2	0 0 0	149/2001 + A1:2009 and Result Positive results are obtained from the test subjects No imperfections						
micto s	Fixish of Parts; Part burrs.	icle filtering half ma	isles, which are likely to com	e into contact w	rith the user, do not have	e sharp edges a do not cont.					
rsicile 9,1	Temperature condition for each excersize are it was reported that. At least 8 out of the 14	kage text is conduct precises defined in the ning and as received available in the text of exercise measures of individual's arithm	se standard. The samples use I. The face dimensions of the	f in the test are subjects are als all to 11%, the v o 8%, the value	subjected to the condition reported. The measure slues varies between 4.2 % against between 4.9 % a	nd 3,7 %,					
40	Penetration of filter material: Sodium Chloride Testing										
	Condition				rements in accordance w N 149:2001 + A1:2009	Result					
	(AR.) (AR.)	Sample	0.1 0.2 0.1		FFP1 ≤ 20 %	Filtering half masks fulfill th					
wele 9.2	(S.W.) (S.W.) (S.W.) (M.S.T.C.) (M.S.T.C.)		0.1 0.1 0.3 0.3		FFP2 ≤ 6 % FFP3 ≤ 1 %	requirements of the standars EN EN 149-2001 + A1-2005 given in 7.9.2 in range of the FFP1, FFP2, FFP3 classes					
	(M.S. T.C.) Conditioning : (M.S.)	Mechanical Strengt	0.2	-	100	95 L/min = 1.6 dim ³ sec ³					
	(T.C.)	Temperature Condit	ioning			- seem of the late					

UFR-383 12.12.2018 Rev.01



(S.W.) Simulated westing treatment



	1770 CONTRACTOR	omer manerias	: Paratfin Oil Tes	one of								
	Condition		No. of Paraffin Oil Test Sample 95 L/min max (*)		1771			Result				
	4	(A.R.)		0.5								
	The same of	(A.R.)		0.6								
	-10-1	(A.R.)		0.7		FFP1 ≤ 20 %		half mosks fulfill the				
nute		(S.W.)		0.7		1000000		sents of the standard				
92		(S.W.)	0.00	0.6		FFP2 5 6 %		49:2001 + A1:2009				
0.1		(S.W.)	100	0.6				7.9.2 in range of the				
		(S.T.C.)		2.9		FFP3 ≤ 1.%		FFP2 classes.				
	(N	(M.S. T.C.)		3.2				700				
		LS. T.C.)	-	3.1								
	Conditioning : (M.S.) Machanical Strength (F.C.) Temperature Conditioning (A.R.) As Received, original (S.W.) Simulated wearing treatment											
nefer 0	Compatibility w adverse effect on	ith sking In Pe health was not	setical Performance reported.	e report, the like	ikood of mask s	naterials in contact with the	skin caus	ng irritation or other				
	Flammability:		ine telled live			- PLD		-6				
Arrische	Condition	Condition No. of Sample				Requirements in accordance with E 149 2001 + A1:2009		N Zesuls				
	(A.R.)	-	0.1 s			Filtering half mask		Passed				
	(A.R.)	- 1	()	0.15	163	shall not burn or not		* assets				
I.	(T.C.)	(T.C.)		0.1 s		continue to burn for		Filtering half masks falfil requirements of the				
	(T.C.)	(TC)		0.1 s		more than 5 s after						
	4			MARK.	removal from the flame standard							
	Conditioning : (A,R.) As Received, original											
tencle 112	(T.C.) Temperature Conditioning											
	Carbon divide content of the inhalation air:											
	Cendition	No. of Sample	COr content of th		An average CO ₂ content o the inhalation air	Requirements in accordance with EN 149/2001 + A1/2009		Remir				
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	(A.R.)		0.6935			COs content of the inhal						
	(A.R.)	*	0,6945		0.69 [%]	shall not exceed an average of 1,0% by volume		Filtering half mas fulfil requirements the standard				
	Conditioning: (/	R.) As Recei	ved, original		1		1.20					
ide 3	Head horness: In results of these to	Practical Period indicates the	ormance and TIL i at the ear loops / he	est reports no ad- end harmens are ca	erse effects have public of holding	e been reported for donning g the mask firmly encough	and rone	ove of the mask also				
icle I	Pield of vision; le	Practical Perf	binnance report, no	adverse effects	were reported for	r the field of vision available	lity when	the mask is weared.				
cle	Exhalation Value	this The model	I under impection)	luner no emboor								
	and the same	p. Jr. a rate surples	mark maperina (THE PERSON NAMED IN								
nicle	Breathing Resistance: Inhalation											
	The overall evaluation in the figures gathered for 9 different samples 3 as received, 3 with temperature conditioning and 3 simulated wears treatment conditioned complies with the limits given in the standard for FFP1, FFP2 and FFP3 classes. This is valid for inhalation results for Limin, 95 Limin and exhalation at 160 Limin. The measurement details for each single mask tested are available in the test report.											
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