

The most innovative respirator on the market

The Air Purifying Respirator (PAPR) is a major breakthrough in respirator design being technologically advanced, environmentally friendly and still the lowest cost of ownership on the market.

Cooler, cleaner and more Comfortable in all environments

Many of today's users of protective respirators are skilled workers forced to wear the equipment by directives and regulations. However, due to the limitations and discomfort caused by normal respirators, usage is often limited as the user would rather avoid the equipment. With the new respirator which is as close to invisible protection a user can get, the user will find it easy, comfortable and more convenient to wear the equipment.



TIKI respirator is powered by an internal battery or optionally an external battery available for those who need extra run time. It is also equipped with LED lights that will make it easier to work in dark areas.



Particle filter with highest particle standard (P3). Disposal of filter and mask is simple and fast. Filters are square to achieve maximum filter surface and longest filter lifetime.

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The external battery provides at least 6 hours working time and can be replaced during operation.



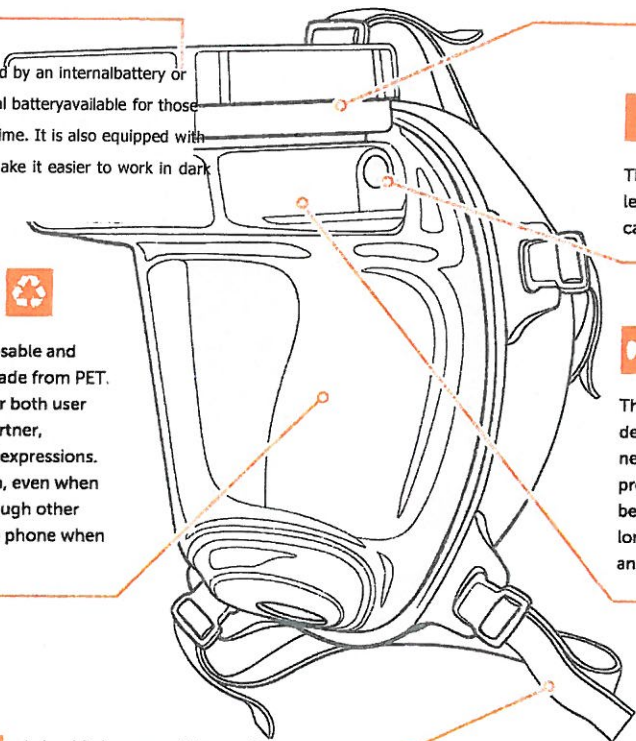
A light weight, disposable and economical mask made from PET. Excellent visibility for both user and conversation partner, conveying full facial expressions. Easy communication, even when communicating through other devices like a mobile phone when the mask is on.



The blower regulates the speed depending on the amount of air needed for keeping positive pressure inside the mask. The benefits include better comfort, longer battery life, longer filter life and lower fan volume.



A durable harness with a mesh design for ultimate comfort.



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Highest protection class

The complete unit is classified as an EN12942 TM3P mask which is the highest standard in Europe. The visor is impact tested according to EN 166 F for use in areas that require eye protection. The respirator will warn the user if there are any leaks in the mask or if it is being used outside of the safe parameters for the safe usage as it constantly measures the pressure inside the mask to make sure it stays POSITIVE.

Due to the positive pressure in the mask breathing becomes simpler and the user will find it simpler and safer to use our respirator.

Low Cost of Ownership

The respirator has been designed to be a low cost high safety mask. In some cases costing less than a tenth of comparable products on the market. Due to the breath responsive function of the I respirator the unit will only filter as much air as necessary for the user unlike other PAPR units on the market which use constant speed technology. One fan can be shared among many users as the mask and filter can be acquired separately, changing the fan unit takes less than 20 seconds.

Excellent communication

Unlike any other masks our respirator allows unimpeded visibility due to the construction and placing of parts on the mask. This benefits the user in two ways, firstly being able to look down when walking down stairs or working, secondly, other people can see the user's facial expressions. The line of sight is unrestricted as there are no external filters or hoses in the way. Verbal communication, even telephone calls are easily performed.

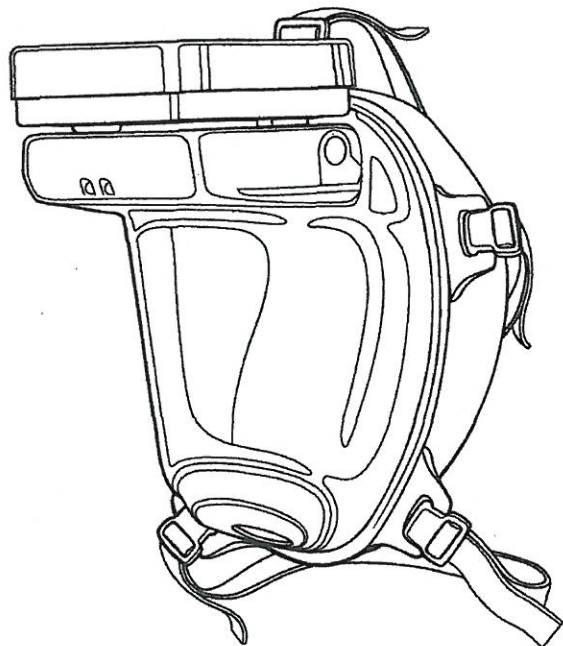
Simple and economical stockpiling and dispatch

The respirator is constructed so that nearly 400 masks can be stored in one cubic meter, allowing for space saving stockpiling and cheaper transports. Batteries are of low discharge and will have up to 80% charge left after 5 years storage requiring minimum stockpile maintenance.

Respirators should set you free. Not tie you down.

What makes the respirator unique is the extremely lightweight and ergonomic design. The smart blower unit makes it easier and more pleasant to work in harsh environments and offers the quality and functionality that you can expect from an efficient and easy to use respirator.

The unit always measures mask pressure to maintain positive pressure and warning the user when there is negative pressure in the mask. This warning function will alarm the user if there is a risk of being exposed to unfiltered air.



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A couple of example the uses are:

Doctors and medical work Easy

to use.

Communication; the people you are talking to can see your facial expressions which is reassuring to patients, and they can hear you speak clearly.

Light and unrestrictive use.

Everything is contained in one product that can be mounted in seconds on someone's face should there be an emergency or if carrying the mask is required in specific areas only.

The mask will warn you if it is leaking.



**"No need for
extensive
sterilization"**

No need for extensive sterilization, the mask and filter can be disposed of quickly and economically.

For emergency storage the masks can be stacked taking a minimum of space, up to 400 masks can be stored in one (1) cubic meter.

hospital scenario

If there is an epidemic outbreak a hospital traditionally issues single use breath protection that has to be exchanged every time it has been removed (breaks, lunch, etc). This means a single user will use approx. 5 masks per shift. These masks stop only rudimentary heavy particles and have a very low safety factor of about 20-40 and often require additional eye protection.

This form of protection also constrains breathing and the patients don't feel comfortable when unable to see the faces of doctors or nursing staff.

With this mask the user has the highest protection, a safety class of 2000, is less constraining due to the easier breathing and offers higher visibility so the patients feel safer as they can both see and hear despite the mask.

In a hospital environment our mask is by far easier to use than any other mask on the market, and with its high comfort level the user will want to use it! The mask is very quick to mount and the sizes available fit most size faces. Once used, the mask and filter can be disposed of economically or, depending on the contamination level, be used again.

There is no need to spend time and money on cleaning the masks, they are cleverly made to be disposable. The masks will function when switched off, unlike 'hoods' that are normally used within hospitals and that offer no protection when switched off.



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Building and demolition

- Physical work is easy and trouble free as the mask regulates how much air you get depending on how heavily you breathe.
- No need for eye protection as it's a full face mask.
- No fogging or excessive sweating as the mask constantly pumps through an adequate amount of air.
- The mask is easily exchanged, once dirty or damaged.
- If sufficient volumes are ordered the masks can be branded with company logo for advertising purposes.

A common scenario is a worker that handles insulation materials on a building site. He normally uses disposable masks that cause fatigue and concentration difficulties. Depending on how physical the work is it limits the working time before a break is necessary. One case study that our engineers witnessed was a building site where the workers could work for approximately 30 minute intervals before they needed a break. The workers were then given our masks and it increased their quality of work immediately. Due to the vastly increased visibility and the fact that they had more energy inhaling the clean air under pressure, they could work approximately 3 hours without a break. This is an efficiency increase of approximately 600 %, the payback for using the mask was instantaneous.

Carpenters, plumbers and other sole traders

- The mask is very economical and yet meets the highest safety requirements.
- Can be quickly mounted and easily worn, making it comfortable to use.
- There is an optional car charger.

The carpenters of aforesaid building site found it uncomfortable wearing traditional respiratory protection equipment together with eye protection due to sweat and fog reducing the effectiveness of their work. Once given our mask they had no problem wearing it whenever they felt it necessary, often forgetting they were wearing it after only a few minutes. This increased efficiency and reduced work related injuries as they were always feeling empowered and knowing they were always protected.

Law enforcement or military defence

- Physical work is simple due to the self-regulating positive pressure.
- Excellent communication through high visibility of facial expressions and voice.
- Does not need to be re-used if in a dangerous environment, the mask and filter can be disposed of and the fan unit put in a new mask.
- Excellent storage lifetime, due to the Li-Po battery
- Can be ordered in different colours to suit market (minimum order quantity).
- In an emergency up to 400 masks (without fan or filter) can fit in one (1) cubic meter for easy transportation or airdrops.