

BREATHING AIR SYSTEMS*



*VEILIGHEIDSTECHNIEK
NEDERLAND

SAFETY FIRST *

* For over 40 years, VTN Veiligheidstechniek Nederland (VTN SAFETY) has been producing, supplying and maintaining high-quality personal protective equipment that increases the personal safety of people in hazardous work situations and environments. We can rightly call ourselves a leading supplier for, among others, fire brigades, law enforcement, defense, but also for large (chemical) industries, industrial cleaning companies as well as storage and transshipment companies that deal with hazardous substances. As such, we do not only supply an entire range of specialist personal protective equipment, but we also maintain and repair all products supplied by us upon request. And we always do so according to one basic principle: Safety first!

* SERVICE

In addition to the production and supply of high-quality personal protective products, the quality of our service is also a spearhead within our organization. VTN Safety has various well-equipped service workshops, to be able to carry out repairs and maintenance work on products such as portable gas detectors and protective clothing, as well as (mobile) breathing air systems and Life Support Units.

Our mobile service department also performs preventive and corrective on-site maintenance on (mobile) breathing air systems as well as compressors, SCBA's, gastight suits and (portable) gas detection.



* TRAINING

In order to minimize the risks of incorrect use of personal protective equipment as a result of a lack of knowledge, VTN Safety offers various training courses in the use of products supplied or produced by us. We teach users to make optimal use of the equipment supplied, but also to carry out minor maintenance. These courses are provided in our high-tech training facility in Oss, The Netherlands, or if so desired, at any other location.

* PRODUCT RANGE

VTN Safety supplies an extensive product range of high-quality personal protective equipment. A range that includes portable and fixed gas detection by Honeywell, Blackline Safety and Oldham/ Teledyne, but also 3M respiratory protection, Ansell protective clothing as well as L&W high-pressure breathing air compressors.

Additionally, VTN Safety supplies a wide range of VTN-manufactured Breathing Air Systems. These products, which are produced at our facility in The Netherlands, all come with an official Lloyd's Register/TÜV CE marking and meet the latest SIR guidelines. On top of that, we press and certify a wide variety of customized breathing hoses in accordance with EN14593 and EN14594. This puts VTN Safety at the forefront when it comes to product development and our aim to achieve the customized solutions desired by our customers in close cooperation with them.



* CERTIFICATIONS

VTN Safety has been ISO 9001-certified for years. This quality standard is the basis on which we provide quality to our customers. We consider quality to mean meeting not only our own professional requirements and working within the applicable laws and regulations, but especially also meeting the requirements and expectations of our customers. Therefore, our quality system is not just aimed at assurance, but especially also at improvement.

* BREATHING AIR SYSTEMS

While performing maintenance and repair work on industrial installations, the use of a suitable self-contained breathing apparatus (SCBA) is often a key condition, especially when this work takes place in confined spaces.

VTN Safety has developed an extensive range of mobile breathing air systems. All mobile breathing air systems designed and manufactured by VTN come with an official CE-approval mark through Lloyd's Register and naturally comply with the SIR-guidelines and the Pressure Equipment Directive 2014/68/EU. It will not be a surprise that, based on their proven quality and user-friendliness, all of these VTN breathing air products have found their way to many well-known industrial (supply) companies and the associated specialist rental companies in the Netherlands and also abroad.



APOLLO
BREATHING AIR SYSTEM BY VTN

THE MODULAR BREATHING AIR TROLLEY

The APOLLO breathing air trolley, which comes with an official CE approval mark, is designed to be highly maneuverable without losing the required stability. The trolley is made entirely of stainless steel and has a lifting eye and forklift slots.

The APOLLO has two breathing air cylinders of 50 litres/300 bar each, making the total available volume of breathing air 30,000 litres. This allows for the simultaneous supply of external breathing air to two persons using a positive pressure breathing mask for about 6.5 hours. Furthermore, each APOLLO comes with two manually controlled stainless-steel reels, each with 50 meters of 3/8" breathing air hose. This breathing air hose naturally complies with EN 14593/EN 14594.

For the more demanding user, the APOLLO can also be fitted with a matching control panel that comes with two 0-10 bar reducer valves and a high- and low-pressure manometer, as well as a mechanical residual pressure signal by means of a whistle. Aside from that, the APOLLO can also be fitted with of a fixed, high-pressure refilling connector and a lockable, stainless-steel storage box.



APOLLO JR
BREATHING AIR SYSTEM BY VTN

THE SUPER COMPACT BREATHING AIR TROLLEY

The APOLLO JR. is a super compact breathing air trolley and as such the little brother of the APOLLO shown on the next page,

This robust, virtually maintenance-free breathing air trolley, with its small size and weight, is highly versatile, especially for short-term use of breathing air during a job. This includes site maintenance in production environments or (cleaning) work in enclosed spaces such as tanks, cellars, etc. In short, in places where the use of self-contained breathing air is necessary.

In contrast to many other breathing air trolleys, the APOLLO JR. is suitable for the use of SCBA cylinders of various diameters and the SCBA cylinders of the Apollo Jr. are secured by means of cylinder straps (instead of chains for example).

The standard control panel of the APOLLO JR. can optionally be fitted with your own corporate identity.



HIGHLIGHTS APOLLO JR:

- Frame made of stainless steel
- Suitable for 2 cylinders of 6, 6.8 or 9 litres (maximum working pressure: 200/300 bar).
- Maximum capacity compressed air: 5,400 litres (2 cylinders of 9 litres/300 bar)
- Dimensions (HxWxD): 1061 x 587 x 465 mm (excluding cylinders)
- Weight: 50 kg (excluding cylinders)
- Length of breathing air hose on reel: 25 meters 3/8" hose
- Type of breathing air hose: NBR rubber (EN 14593/EN 14594/2018)
- Control panel with, among others, high and medium pressure gauges and air release valve
- Extra connection for 2nd air line on control panel
- Air supply (l/min): >600
- High pressure alarm (whistle): 55 - 60 bar / Medium pressure alarm: < 4 - 5 bar

APOLLO HIGHLIGHTS

- Stainless steel frame, powder coating optional
- Fitted with lifting eye
- Fitted with forklift slots
- Solid-core wheels, rear wheels with brakes
- 2 x 50 l/300 bar breathing air cylinders
- Comes with two stainless-steel hose reels, each with 50 meter 3/8" breathing air hose
- Includes steel coated grounding reel with clamp
- CE approved by TÜV/Lloyd's Register
- Optional extras include control panel, fixed refilling connector and/or stainless-steel storage box
- SIR category B2





TITAN

BREATHING AIR SYSTEM BY VTN



TITAN XL

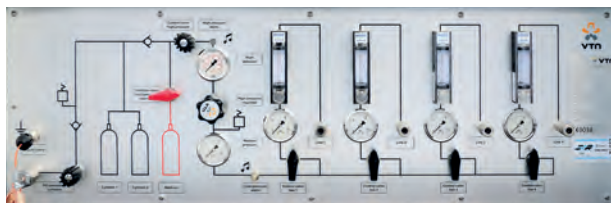
BREATHING AIR SYSTEM BY VTN



TITAN XXL

BREATHING AIR SYSTEM BY VTN

THE COMPACT BREATHING AIR UNIT THAT SUPPLIES AN UNPRECEDENTED AMOUNT OF BREATHING AIR



The TITAN is a compact, easily controlled breathing air unit with an unprecedented volume of breathing air in a compact trailer. By means of two 140 liter/300 bar breathing air cylinders with a total amount of 84,000 litres of breathing air this breathing air system considerably more air available compared to the traditionally used 50 liter breathing air cylinders. Optional it is possible to install a 6L or 50L/ 300 bar backup cylinder. Ideal for use during rapid deployments and in situations where large breathing air systems with compressors can or may not be used, but where a long-term supply of breathing air is necessary.



For the real big user, a Titan XXL is also available with 6 pieces of 140 litres/ 300 bar SCBA cylinders, with a total quantity of 252,000 litres of SCBA. Naturally, this Titan XXL can also be equipped with an optional back-up supply.

Especially for transportation on public roads, the TITAN has a steel protective frame, which ensures that the breathing air cylinders are safely secured in the aluminum trailer. This is also the reason why the trailer has a brake system.

The control panel with engraved diagrams and text shows all the relevant information and is easy to operate. All valves, manometers and flowmeters are installed in this control panel made of anodized aluminum. Naturally, the TITAN also carries the CE mark and complies with SIR-guidelines (category B2/B3).



TITAN HIGHLIGHTS

- Aluminum trailer with brakes, maximum load capacity of 1,350 kg (TITAN and TITAN XL)
- Electrolytically galvanized steel protective frame for two breathing air cylinders of 140 litres/300 bar
- Adjustable 0-14 bar reducer valve
- Includes mechanical residual pressure detector with a whistle
- Air supply > 200 litres/minute per airline
- CE approved by TÜV/Lloyd's Register
- Optional extras include back-up breathing air system, residual pressure detector with air horn, four-line control panel, storage compartments made of aluminum diamond plate and a spare wheel
- Panel may be implemented for 2, 3, 4 users or dual-lined
- SIR category B2/B3



BREATHING AIR UNIT

The ARGO breathing air unit which comes with an official CE approval mark and is fully compliant with SIR-guidelines, is designed to be highly maneuverable without losing the stability required.

The unit is made entirely of stainless steel and has four approved lifting eyes. The wheels are made of solid-core rubber, which makes flat tires a thing of the past.

The ARGO has two breathing air cylinders of 50 litres 350 bar each, making the total available volume of breathing air 30,000 litres. This allows for the supply of external breathing air to two persons simultaneously for about 6.5 hours when using a positive pressure breathing mask. Furthermore, each ARGO comes with two manually controlled stainless-steel reels, each with 50 meters of 3/8" breathing air hose. This breathing air hose naturally complies with EN 14593/ EN



14594. The ARGO is fitted with an integral stainless steel control panel as standard, that comes with two 0-10 bar reducer valves and a high- and low-pressure manometer, as well as a mechanical residual pressure signal by means of a whistle.

ARGO HIGHLIGHTS

- Stainless steel frame
- Fitted with 4 approved lifting eyes
- Solid core rubber wheels
- 2 x 50 l/350 bar breathing air cylinders
- Includes steel coated grounding reel with clamp (SIR 2017 requirement)
- Comes with CE marking provided by TÜV/Lloyd's Register
- Optional extras include control panel, fixed refilling connector and/or steel storage box
- SIR category B2



JUPITER HIGHLIGHTS

- Trailer with brakes, provided with industrial rolling shutters and a maximum load capacity of 2,700 kg
- Filtration by means of breathing air filter unit in accordance with EN 12021
- Comes with 4 reels with 50 meter replaceable 3/8" breathing air hoses
- Fixed high-pressure refilling connection
- Includes steel coated steel grounding reel with clamp
- Air supply > 300 litres/minute per air line
- CE approved by TÜV/Lloyd's Register
- Optional extras include external fuel connector, a second accessory battery, communications system and double breathing air lines
- SIR category B1 and B2/ B3



THE COMPLETE BREATHING AIR COMBO-UNIT WHEN EASY OPERATION AND OPTIMUM SAFETY MUST BE GUARANTEED FOR UP TO SIX USERS

The JUPITER breathing air system is designed to guarantee maximum safety for up to six simultaneous breathing air users by means of a primary and a secondary breathing air system. The primary breathing air system is supplied by a reliable low pressure compressor in combination with a breathing air filter unit. The latter ensures that optimum air quality in accordance with EN 12021 is guaranteed. For the secondary breathing air system, the so-called back-up system, two 50 liter/350 bar breathing air cylinders are used. Both breathing air systems operate fully independently from each other.

The aluminum control panel specially designed for the JUPITER with engraved diagrams and text makes it very easy to use for the operator, plus it provides clear, relevant information at a glance. All valves, manometers and flowmeters are installed in this control panel made of anodized aluminum.

Furthermore, the JUPITER breathing air combo-unit has various pressure sensors and a gas detection system to continuously measure the quality of the air entering the compressor. If the pressures are incorrect or polluted air is detected by the gas detection system, the system will automatically switch to the back-up system and trigger an alarm signal. The entire breathing air system of the JUPITER is CE approved and complies with SIR-guidelines (categories B1/B2/B3).





LIFE SUPPORT UNIT

BREATHING AIR SYSTEM BY VTN

VULCAN
BREATHING AIR SYSTEM BY VTN



ELECTRIC ZERO-EMISSION BREATHING AIR COMBI UNIT

The VULCAN electric combi breathing air unit is a multifunctional, completely zero- emission unit.

The VULCAN is multifunctional. It supplies air by using either the electric compressor or the high-pressure back-up cylinders. It is possible to work with Freeflow suits or welding helmets as the unit supplies approximately 300 litres/minute per air line.

Naturally, working with overpressure face masks is also absolutely not a problem.

Besides the basic version of the VULCAN, there is also the option to add a digital control panel that clearly displays all the information and stores the information of each individual user. For example, name, operating time, air consumption and alarms. But there is more. The VULCAN can be monitored remotely with the aid of a smartphone, tablet or computer, which makes managing and servicing of the VULCAN from a distance extremely easy.

Life support units are designed for use in extremely dangerous circumstances where users are obliged to work, for instance, in inert confined spaces (Inert Entry) for catalyst work.

We can deliver a client-specific solution for you that is built onto a truck or another type of vehicle, as desired. For example, a BE trailer, container or delivery vehicle.

The unit is built in our own workshop and fitted with a primary and secondary breathing air facility in which the incoming breathing air is monitored in accordance with NEN EN 12021.

The custom-designed control panel consists of manually controlled high-quality valves and manometers and a completely digital dashboard in which the operator can add the names of the users to the session times.

The digital dashboard includes the personal flow meters that trigger alarms to warn the operator if aberrations are detected in the system.

All important parameters are stored digitally and can be used to make reports and analyses.

In addition, all optional accessories such as ATEX camera systems, communication systems, gas detection and temperature sensors are completely integrated into a single, uncluttered control panel.

VULCAN HIGHLIGHTS

- Electric Combi Breathing Air Unit, 4-line including HP back-up system (2x 80 litres/300 bar)
- Yield electric air compressor approximately 300 litres/minute per line
- Nominal load electric compressor 32 A 11KW 380V 3ph 50 Hz
- Air quality in accordance with EN 12021
- In compliance with the SIR Categories A1, A2, B1, B2, B3
- 4x spring-driven self-retracting stainless-steel hose reels, each with a 25-metre breathing air hose 3/8"
- Options are among others: gas detection at the compressor air inlet, continuous breathing air monitoring of the outgoing air in accordance with EN 12021, a digital control panel with data logging and extra back-up cylinders

HIGHLIGHTS LIFE SUPPORT UNIT

- Executed with 4 air lines/users (optional up to 6 air lines)
- Umbilical fitted with 1x main air line, 1x back-up air line and 1x communication line.
- Umbilical 100 metres per line on reel
- Complies with NEN-EN 12021 & SIR C
- In compliance with PED and with CE mark (Lloyds)
- Digital monitoring including complete data logging
- Control panel equipped with a communication system for 4 or 6 users.
- Control panel fitted with separate panel for gas detection display.





*VEILIGHEIDSTECHNIEK
NEDERLAND

GAS DETECTION
PROTECTIVE CLOTHING
THERMAL IMAGING CAMERAS
DIVING SUITS
FIRE-FIGHTING MATERIALS
WORKSHOP EQUIPMENT
BREATHING AIR SYSTEMS
DECONTAMINATION
TRAINING COURSES

VTN SAFETY

IJZERWEG 67, 5342 LX OSS
P.O. BOX 169, 5340 AD OSS
THE NETHERLANDS

T +31 (0)412 69 55 55
F +31 (0)412 62 50 75
E INFO@VTN-SAFETY.COM

WWW.VTN-SAFETY.COM