HNE VPS

MODULAR FIRE PROTECTION

MAXIMUM FLEXIBILITY FOR ANY FIELD OF USE

The Vario Protection System VPS is a modular firefighting system for various fields of use – customisable for your specific needs!

The ***VPS*** consists of modules, such as vessels for the extinguishing agent, air pressure cylinders, triggering sensors and extinguishing nozzels. These can be varied, depending on the field of use, so your system is perfectly customized to your needs and potential fire sources.

The ***VPS*** is useful in different fields and can be installed in various types of buildings, machines and vehicles.

Some examples are

ENGINE TEST BEDS	CONSTRUCTION	WORKSHOPS
AUTOMOBILES	FREIGHT TRAFFIC	AVIATION

CUSTOMISABLE SYSTEM

VARIABLE – FOR EVERY FIELD OF USE

· freely customisable for various applications
· can be installed in vehicles, production halls, workshops, etc.
· depending on configuration the number of nozzles and extinguishing agent tanks can be varied as well as the extinguishing agent

COMPACT AND POWERFUL

· fits small spaces with its compact design
· up to 40 bar working pressure
· well-fit for areas that are difficult to access or unattended technical systems of all kinds

EASILY REFILLABLE AND ECONOMICAL

· containers are refillable without special tools
· ideal for regular system tests
· high economical value through long lifetime and easy maintenance

INDIVIDUAL POWER SUPPLY

· internal or external
· 12V or 24V
· option for version with thermomechanical trigger instead of an electronic one

THE IDEAL OPTION FOR EVERY SITUATION

Overview of options and variants

POWER SUPPLY
· internal/external
· autarkic, redundant
· 12V or 24V
· automatic charging

EXTINGUISHING AGENT TANK
· 9 to 100 litres
· aluminium, coated
· steel, coated
· CFRP, ultralight

EXTINGUISHING AGENT
· water
· foam
· metal extinguishing agent
· other chemicals

JET TYPE
· focused
· spray
· sprinkler
· mixed forms

TRIGGERING
· sensors (smoke/gas/etc.)
· manual triggering
· remote controlled

PROPELLANT
· compressed air
· 300 bar bottles
· external supply

WORKING PRESSURE
· 22 bar (usually)
· 8 to 40 bar (variable)

Optionally the VPS can be equipped with a hose reel and jet gun, enabling manual firefighting.

METAL INDUSTRY

In metal working usual water-based extinguishing agents cannot be used.
In those cases the ***VPS*** can be filled with our water-free extinguishing agent ***Cold Metal***.

This special liquid has enormous cooling qualities and stops combustion by extracting the heat.
It reliably prevents reignition and extinguishes surrounding fires.

Therefore the Vario Protection System is well fit for use in the steel and metal industry.

MILITARY VEHICLES

To keep mobility and functionality up, especially the engine and the tires need effective protection from fire. The heating of the vehicle shell after impact of incendiary material poses another lethal threat to occupants and danger to technology.

The modular ***VPS*** consists of separate pressure lines to different areas of the vehicle. You can activate them by the push of a button: single ones, groups or all of them.

Automatic triggering by sensors is also possible. The high capacity of the extinguishing agent tanks allows for multiple or long-time activation.

- active fire protection for the whole vehicle body
- high capacity for multiple activation
- individually selectable nozzle groups
- simple installation and retrofitting
- redundant power supply
- quick and cheap refilling

POWER PLANTS

Fires in solar and wind plants are best fought at key positions in the moment of breakout. Since not all danger zones can be occupied by staff, an automated extinguishing system is favourable.
The ***VPS*** can secure these danger zones reliably with low expense and little cost.

All the system's parameters such as extinguishing agent, capacity, sensor technology and triggering are designed especially for the given circumstances at the place of installation.

After the first installation the system can always be adjusted, extended or enhanced.

AVIATION & SEAFARING

Engine rooms of ships and airplanes are often regarded as sources of danger because of overheating or technical malfunctions.

The ***VPS*** can also be installed in those small spaces and be triggered at the ignition of a fire by smoke or fire sensors and stop the flames before they can spread.

Moreover the nozzles can be triggered and activated separately. Thereby you can prevent parts of the engine room that are not endangered or very sensitive to extinguishing agent to be covered in it.

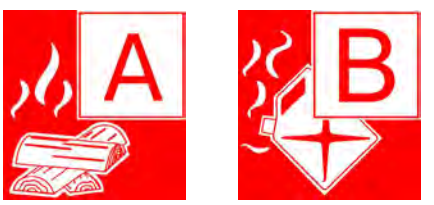
TECHNICAL SPECIFICATIONS

TECHNICAL DETAILS	*VPS*
Filling Volume	9 to 100 litres
Propellant	Compressed Air, 300 bar
Working Pressure	8 to 40 bar
Range of Temperature	-25°C to 60°C
Distance to Electricity	min. 2 m / max. 1000 V

Optional VPS Control Panel

Since the ***VPS*** offers varying fields of use and configurations most of the technical specifications are varying, too.

Possible Fire Types (depending on configuration)



By default, the ***VPS*** is filled with foam extinguishing agent, making it ideal for class A and class B fires.

Depending on the potential burning material the vessels can be filled with alternative extinguishing agents. Thereby other fire types can be stopped as well.

We will gladly help to find the perfect configuration for your needs!

HNE TECHNOLOGIE AG

PORTABLE
Firefighting Systems
9 to 13 litres

INTEGRATED
Modular, Variable
Firefighting Systems

MOTORIZED
Water-, Foam- and
CAFS-Units

LIGHT SERIES
Special Systems
3 to 8 litres

HNE Technologie AG www.hne.ag info@hne.ag