

VARIO
CARBON

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ULTRALIGHT

THE **ULTRALIGHT** WAY OF FIRE FIGHTING

Time for the next step in the evolution of foam extinguishers ! Easier handling, less weight to carry, but yet more options and life-saving capability than ever before. Thanks to CFRP pressure vessels, consistent lightweight construction and optimized high-pressure technology, the HNE Carbon series achieves previously unattained performance.

HiPRESS • HiCAFS • SPRAY

Every well known function of our portable extinguishers is implemented in the new Carbon series. All typical performance features are even exceeded. The extra wide jet range allows accurate fire fighting from safe distances. The foam generation was once more improved by higher operating pressure and is switchable from wet/liquid to adhering consistency. This greatly expands the possibilities of tactical adaptation to any fire situation.



+



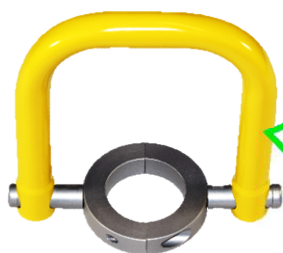
if equipped with swivel jet gun

- less than 20 kg in filled condition*
- more tactical scope of action
- constant working pressure
- superior performance
- 9 or 13 liters capacity
- up to 21 m jet range
- improved agility

* VARIO 9 Carbon



OPTIONAL EQUIPMENT



Carry handle
foldable,
mounting
parts included



Swivel jet gun:
with spray mode for
area effect. Perfect
against small fires or
to prevent re-ignition,
smoldering and smoke
development

**Additional
bottle holder:**
suitable for
breathing air
cylinders up
to 2 liters



Carrying frame
adjustable straps,
quick release buckles.
Assembly parts included.
Weight app. 1.4 kg



...and higher pressure

The outstanding performance of the VARIO Carbon is achieved by a key feature that distinguishes it from all other conventional foam extinguishers:

Our specialized air/liquid mixing technology with its very high working pressure of **38 bar** allows fire ratings that previously seemed unthinkable. The VARIOCARBON outperforms the highest possible approval ratings for portable extinguishers:

VARIO
CARBON

55 + 13 A
233 B

VARIO
CARBON

2 x 55 A
IV B

conformation of rating outside of normative conditions (EN 1866-1, EN 3-7)

Higher velocity of jetted foam means increased jet range. This offers more safety distance if needed and the foam is less sensitive to wind. Also, more of it reaches the burning material before evaporation. The higher kinetic energy boosts the fire extinction additionally.

Pressure
vessels
made of

CFRP...

...are predestined for fire extinguishers with superior weight-performance ratio. At the same compressive strength, CFRP-vessels are many times lighter than ones of metal. We use this advantage to make...

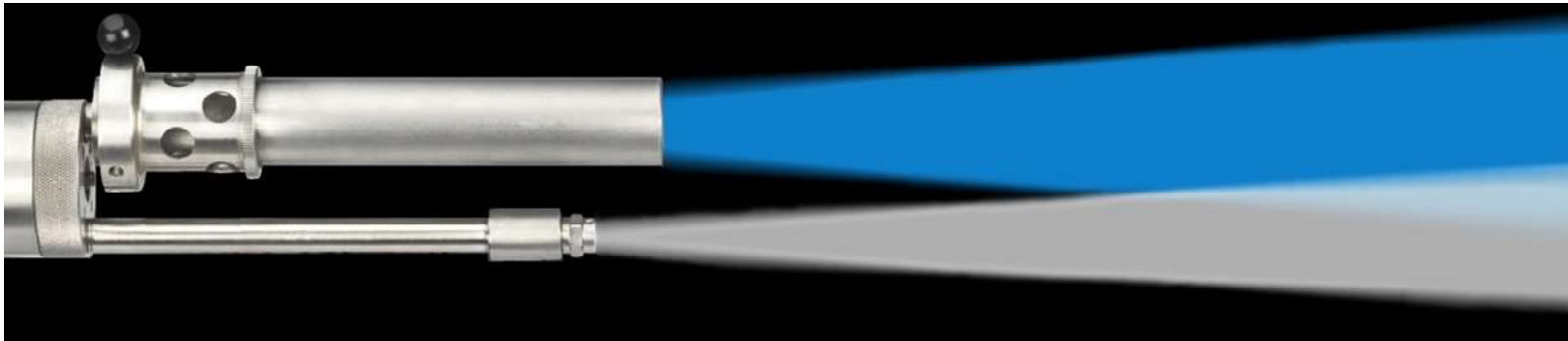
...significantly lighter extinguishers in the conventional performance class.

...enormously more powerful devices in the previous weight class.

- unbeatable lightweight
- extreme elasticity
- easy to process
- more durable
- free of corrosion



OFFERS YOU THE **PERFECT** FOAM FOR ANY SITUATION
HiPRESS • **HiCAFS** • **SPRAY**



HiPRESS - fluid foam

The combination of constant operating pressure of **34 bar/550 psi** and our optimized air mixing technology generates a compact jet of homogeneous wet-foam. The far reaching jetting range with its high kinetic energy lead to increased extinguishing effects, while the fluid foam consistency penetrates immediately into smallest interstices of burning objects.

HiCAFS - adherent foam

Our well known and reliable HiCAFS function generates a far reaching stream of sticky air foam with long lasting stability. It is jetted with the same power as HiPRESS and sticks at vertical surfaces and even overhead. The bottom layer penetrates into surfaces immediately after impact and reliably prevents the smoke development and reigniting.

Spray - area effect

If equipped with a swivel jet gun, the system offers a spraying function with area effect and considerably reduced consumption of the extinguishing media. It is activated by a simple turn of the jet tubes, and predestined for preventive wetting or the extinction of small flames and smoldering glow nests.



VARIO CARBON with 9 or 13 liters

Highly compact and weight-optimized foam extinguisher for professional use. Available as standing version or with carrying frame. Foldable handle, CFRP air cylinder with 2 liter/300 bar, pressure reducer with safety valve and gauge. Jet gun with adjustable air admixture, safety catch, variable actuation and 1.5 m hose.

Specification	VARIO 9	VARIO 13
filling volume	9 liters	13 liters
propellant	air, 300 bar/2.0 l	air, 300 bar/2.0 l
working pressure	38 bar / 550 psi	38 bar / 550 psi
jet range (water)	up to 21 m	up to 21 m
duration HiPRESS	app. 18 seconds	app. 26 seconds
duration HiCAFS	app. 30 seconds	app. 42 seconds
flow rate HiPRESS	app. 0.5 l per second	app. 0.5 l per second
flow rate HiCAFS	app. 0.3 l per second	app. 0.3 l per second
performance **	55 + 13 A, 233 B	2 x 55 A, IV B
range of temperature*	-25 to 60° C	-25 to 60° C
distance to electricity	min. 2 m/max. 1000 V	min. 2 m/max. 1000 V
weight (empty)	app. 10.8 kg	app. 12.5 kg
weight (filled)	app. 19.8 kg	app. 25.5 kg
height	670 mm	670 mm
diameter of vessel	180 mm	210 mm
certification	SQ 62/17	SQ 289/16

* with frost-proof foam agent

** conformation of rating outside of normative conditions (EN 1866-1, EN 3-7)



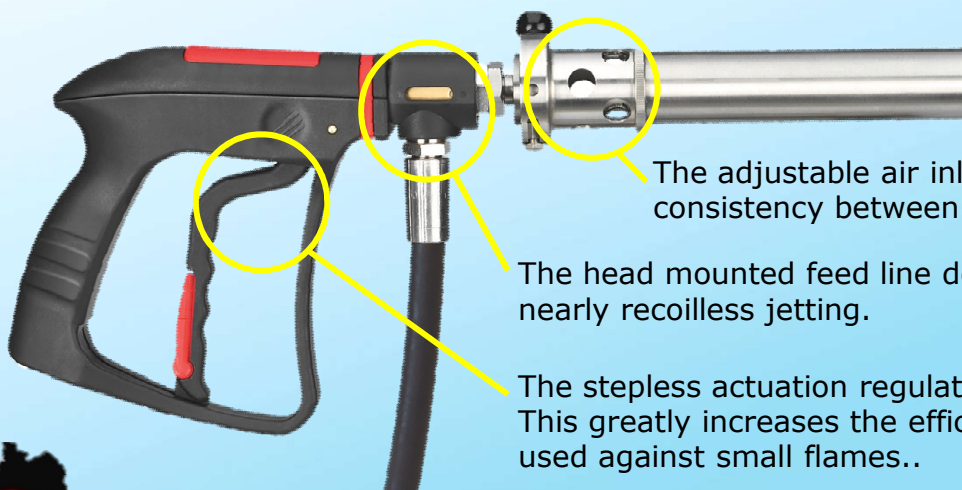
Image: VARIO 9 fully equipped with...

- carry handle
- additional bottle holder
- adjustable carrying frame
- swivel jet gun with spray tube

VARIO 13 similar !

Get the situation under control...

with the recoilless variable jet gun as basic equipment:



jet range over 20 m...



The adjustable air inlets allow varying the foam consistency between flowable and stiff.

The head mounted feed line deflects the flow by 90° for nearly recoilless jetting.

The stepless actuation regulates range and throughput. This greatly increases the efficiency and duration when used against small flames..

HNE - facts and advantages

applications



high performance foam-extinguisher for professional use:

- equipment of fire fighting vehicles
- against all kind of initial fires
- predestined for car fires
- ...and localized object fires
- against burning solids, fluids and even fat (with swivel gun)



performance



more than 20 m jet range, 38 Bar constant working pressure.

The VARIO 9 exceeds the highest possible rating of portable devices:

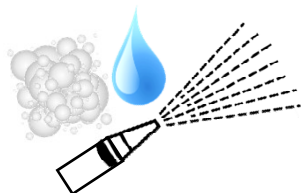
55 + 13 A / 233 B

The VARIO 13 performs close to mobile devices:

2 x 55 A / IV B

conformation of rating outside of normative conditions (EN 1866-1, EN 3-7)

versatility



more tactical possibilities than other extinguishers:

- flowable wet foam
- adherent CAFS-foam
- quick adaption to changing fire situations
- optional spray mode with area effect (swivel gun)
- stepless actuation of the jet gun, variable flow rate

weight



the most lightweight foam extinguisher in its class:

- outstanding weight / performance ratio
- CFRP pressure vessels, consistent lightweight design
- < 20 kg in filled condition (VARIO 9)
- optional ergonomic carrying frame
- better agility, less fatigue

economy



cost-effective and environmentally friendly:

- optimized foam generation, highest efficiency
- less collateral damage and cleaning costs
- suitable for biodegradable and fluor-free foam agents
- unlimited possibility for harmless user training with water
- premium quality, virtually unlimited durability

maintenance



user-friendly and low-maintenance :

- inspection and repair by own personnel
- maintenance limited to visual inspection and annual service
- few components, uncomplicated technology
- HNE offers user trainings and technical seminars
- all replacement parts available for at least 10 years



TESTIMONIALS

As an innovative leader in fire fighting equipment, HNE Technologie AG supplies fire brigades around the world since 1995. Some of our well known customers are:

- Ziegler Fire fighting vehicles
- Myanmar Fire Services Department
- SCDF Singapore Civil Defense Forces
- K+S KALI Mining Germany



SAVING & PROTECTING



MOTORIZED
water & foam
throwers



PORTABLE
extinguishers
4 to 13 liters

MOBILE
extinguishers
50 liters



INTEGRATED
fire suppression
systems

WORLDWIDE

THANK YOU FOR YOUR INTEREST - WE ARE LOOKING FORWARD TO YOU