

HNE VARIO CARBON



THE ULTRALIGHT WAY OF FIREFIGHTING

VERSATILE – LIGHT – POWERFUL

The VARIO Carbon is a portable high-performance fire-fighting system that can be used in multiple areas.

FIRST ATTACK

When a fire breaks out, you can be on-site in no time with the **VARIO Carbon** – fast and mobile. The perfect system to contain and put out incipient fires.

AFTER FIRES

When the flames are under control and only glow nests are left, you can prevent smoke and reignition of the fire with the spray function. The large-surface water mist soaks and cools down the burning material.

CARFIRES

When a carfire happens you can begin fighting the fire right away! You can start extinguishing with the **VARIO Carbon** before the big fire trucks are even ready.

With the high amount of extinguishing agent the carfire can often be put out before any big vehicle even arrives at the scene.



THE ULTRALIGHT WAY OF FIREFIGHTING

EXTREMELY MOBILE - IN EVERY SITUATION

- only 20 kg (VARIO 9) when filled
- better movement for the carrier
- with optional backpack for even higher mobility

LIGHT BODY, HIGH PERFORMANCE

- constant working pressure of 38 bar (!)
- throwing distances of up to 21 m
- stainless CFRP vessel for maximum lifespan

FLEXIBLE, VERSATILE, EFFECTIVE

- variable uses with the three modes: HiPRESS, HiCAFS and Spray
- steplessly controllable jet
- available as a 9-litre or 13-litre device



PERFECT FOAM FOR EVERY SITUATION

HiPRESS – fluid heavy foam

The powerful jet of the HiPRESS mode has a very high pressure and thereby an enormous throwing range. The rather fluid foam enters the surfaces and gaps of the burning material and soaks it, thereby reducing the surface tension to a minimum.

HiCAFS – dry adhesive foam

The HiCAFS mode creates a dry adhesive foam by enriching the foam with compressed air. The foam adheres to walls and even ceilings very well. The HiCAFS foam separates the burning material from oxygen and thereby prevents smoke and reignition.

SPRAY – area effect

By turning the swivel gun's head you switch to spray mode. The spray mode covers a larger area, consumes less extinguishing agent and is ideal for preventive soaking and for extinguishing small after fires and glow nests.



Follow us

   @hnettechnologie

COMPONENTS

COMPRESSED AIR BOTTLE
2 litres, 300 bar; CFRP

CARRY HANDLE
Hinged

CARBON VESSEL
Extinguishing medium tank made of carbon fiber reinforced polymer. Enhanced lifetime and safety; lower weight compared to aluminium or steel vessels

BOTTLE HOLDER
Optionally available with a second bottle holder; e.g. for attaching a compressed air breathing bottle

MODE SWITCH
Rotary switch on the backside, for fast changing between HiPRESS and HiCAFS mode

SWIVEL GUN
For switching between normal jet mode and spray mode quickly with just a turn of the swivel head



CARBON VESSEL

Pressure vessels made of CFRP (carbon fiber reinforced polymer) are much lighter than metal vessels – while offering the same amount of pressure resistance!

Our firefighting systems show high performance at a small weight. In spite of its 13 litres of volume the **VARIO 13 Carbon** weighs only 25 kg when filled and ready to use!

With 20 kg the **VARIO 9 Carbon** is even lighter than that!

Besides their high stability carbon vessels – unlike traditional materials – also have the advantage of resisting corrosion!

Pressure Vessels made of CFRP are

- unbeatably lightweight
- easy to process
- extremely elastic
- more durable
- corrosion resistant



First Prototype of the
VARIO 9 Carbon (2015)



Final Version of the
VARIO 13 Carbon (2019)

TECHNICAL SPECIFICATIONS

TECHNICAL SPECS	VARIO 9 Carbon	VARIO 13 Carbon
Filling Volume	9 Litres	13 Litres
Propellant	Air, 300 bar/ 2 l	Air, 300 bar/ 2 l
Working Pressure	38 bar, constantly	38 bar, constantly
Throwing Range (water)	up to 21 m	up to 21 m
Duration HiPRESS	app. 18 s / Spray: 46 s	app. 26 s / Spray: 66 s
Duration HiCAFS	app. 30 s / Spray: 56 s	app. 42 s / Spray: 80 s
Flow Rate HiPRESS	app. 30 l/min	app. 30 l/min
Flow Rate HiCAFS	app. 18 l/min	app. 18 l/min
Performance	55 A + 13 A; 233 B; 25 F**	2 x 55A; IV B; 25 F**
Range of Temperature*	-25°C to 60°C	-25°C 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	180 mm	210 mm
Certification	SQ 62/17	SQ 289/16

* with frost-proof foam agent

*** incl. swivel gun, compressed air bottle and handle; no backpack



VARIO 13 Carbon – full setup with backpack and swivel gun

Fire Types



+



**** Class F only with pure water in spray-mode!**

PORTABLE
Firefighting Systems
from 9 to 13 litres



INTEGRATED
Modular, Variable
Fire Protection System

MOTORIZED
Water, Foam and
CAFS Units



HiGUARD SERIES
For Police &
Task Forces