

vft black line pumps



Black Hawk

BH2-13
BH3-13
BH4-13

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Motor pumps

BH2-13

Up to 14.5 bar and 523 l/min.

BH3-13

Up to 23.9 bar and 345 l/min.

BH4-13

Up to 25.8 bar and 380 l/min.

The **BH -13 Motor pumps** are part of the vft Black Hawk portable motor pump line. Equipped with an efficient and reliable **Honda GX390 13 HP*** air-cooled engine, the **vft Speed Increaser** and the centrifugal pump **VFT_2SP** with 2 stages, **VFT_3SP** with 3 stages or **VFT_4SP** with 4 stages, compatible with foam and easily interchangeable, they offer excellent working capacity at high pressures and a large flow rate.

They have a quick coupling system for the pump that will allow you to replace it in case of failure in the shortest possible time. These pumps are also used in the **BH-10, BH-18, BH-21, BH-23 and BP** motor pumps, allowing for better spare parts inventory management.

- > Components made of high-quality aluminum and stainless steel.
- > Spare parts available through customer.service@vallfirest.com.
- > With the best value for money.
- > 2-year warranty.

Applications

- Direct attack on fire.
- Self-protection maneuvers with sprinklers.
- Tandem pumping for long distances.
- Parallel pumping for high flow volume.
- Installation in firefighting units and vehicles.
- Equipping self-protection kits.

Characteristics

- Manual recoil start and electric start (if an additional battery kit is installed).
- Maintenance-free increaser. Made of cast aluminum and high-quality components.
- VFT pump easily interchangeable thanks to a quick-release clamp.
- Selectable transport base: tubular structure (for greater maneuverability), or base for vehicle mounting.
- Integrated fuel tank.
- Manual priming pump and pressure gauge included.
- Non-return valve for discharge included.



Certified standards

2006/42/EC

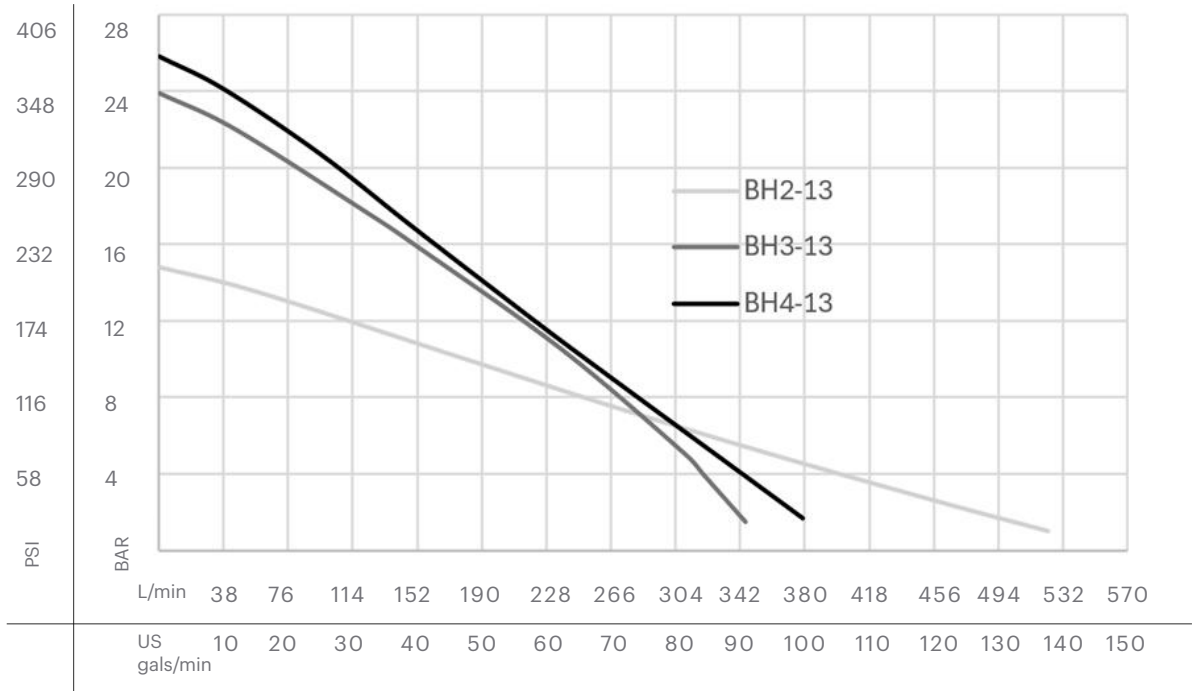
UNE EN-14466:2006+A1 2009



Engine with EPA, CARB and EU Stage V emission certification.

Specifications	BH2-13	BH3-13	BH4-13
Motor	Honda GX390	=	=
Centrifugal pump	2-stage VFT	3-stage VFT	4-stage VFT
Fuel tank	6.1 L	=	=
Weight	58.5 kg (dry)	59.5 kg (dry)	60.5 kg (dry)
Maximum pressure	14.5 bar	23.9 bar	25.8 bar
Maximum flow	523 L/min	345 L/min	380 L/min
Dimensions	L: 83 cm. I W: 50 cm. I H: 47 cm.	=	=

1. BH-13 Performance



Performance data	BH2-13	BH3-13	BH4-13
Maximum flow	523 L/min	345 L/min	380L/min
Maximum pressure	14.5 bar	23.9 bar	25.8 bar
Max. Meters of water	148 mH2O	244 mH2O	263 mH2O

Pressure		Flow	
[Bar]	[PSI]	[L/Min]	[U.S. GPM]
BH4-13			
24	349.5	38	10
14	200	194	51.3
3.5	50	342	90
BH3-13			
17.5	253.8	125	33
10.5	152.3	237	62.6
4	58	320	84.5
BH2-13			
13.5	195.8	58	15.3
10	145	180	47.5
2.5	36.3	460.15	121.5

2. Centrifugal pump with 2, 3 or 4 stages (VFT_2SP, VFT_3SP, VFT_4SP)



VFT_3SP



VFT_4SP



2-stage centrifugal pump for the BH2-13, 3-stage for the BH3-13, and 4-stage for the BH4-13. The pump body and impellers are made of aluminum with anti-corrosive treatment. The shaft and other components are made of stainless steel. It incorporates a high-quality, maintenance-free mechanical seal.

- Pump compatible with foam concentrate.
- Compatible with the motor pump models **BH-10, BH-18, BH-21, BH-23, BP.**

VFT2SP/VFT3SP/VFT4SP Specifications

Suction	2" NPSH
Discharge	1.5" NPSH
Al. treatment	Hard anodized > 400HV
Paint	Raptor protective coating, Black

3. HONDA GX390 Engine



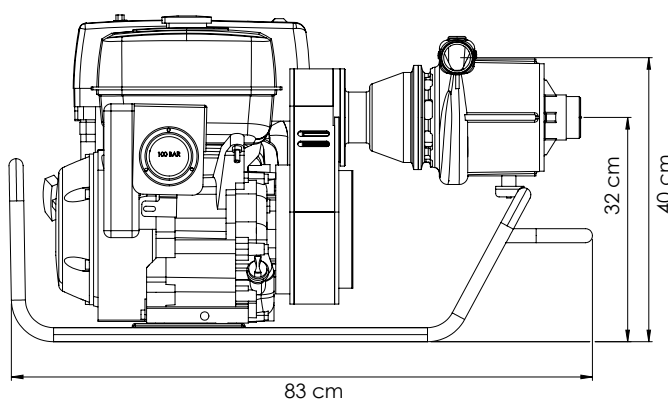
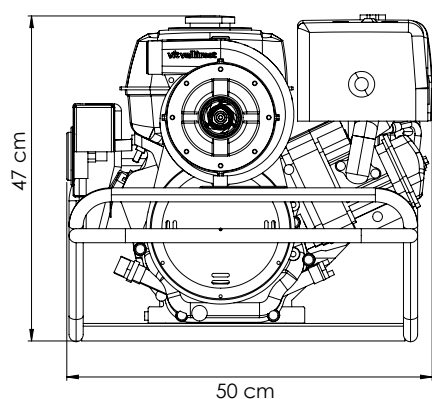
Engine specifications

Motor	4-stroke gasoline
Bore x Stroke	88 X 64 mm
Displacement	389 cm ³
Compression ratio	8.2 : 1
Net power	11.7 HP at 3600 rpm
Maximum torque	26.5 Nm at 2500 rpm
Starting	Manual starter with start by recoil rope and electric.
Tank capacity	6.1 L
Oil capacity	1.1 L
Dimensions (L x W x H.)	406 x 460 x 448 mm
Dry weight	31,7 kg

* The net engine power is 11.7 HP at 3600 rpm. Mass production of engines may cause this value to vary.

4. Dimensions

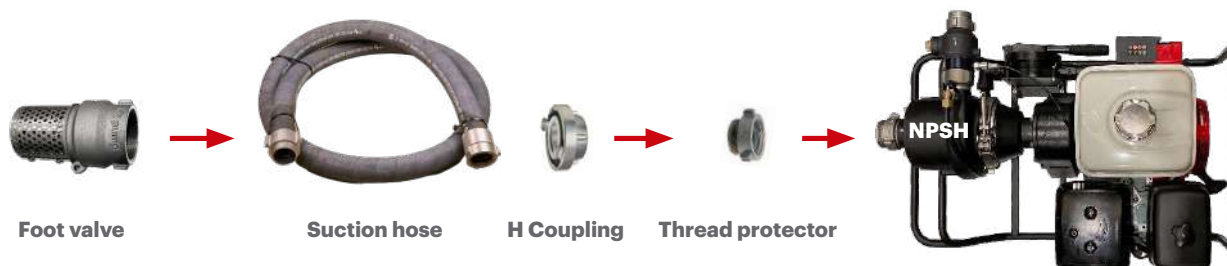
Length: 83 cm. | Width: 50 cm. | Height: 47 cm.



5. Components required for operation

WATER SUCTION

A suction hose and a foot valve with check valve are required to help keep the pump primed and prevent debris from entering.



OPERATION

The coupling wrench is required to tighten and loosen the thread protectors/adapters. It is necessary to manually prime the pump before operating.



Coupling wrench

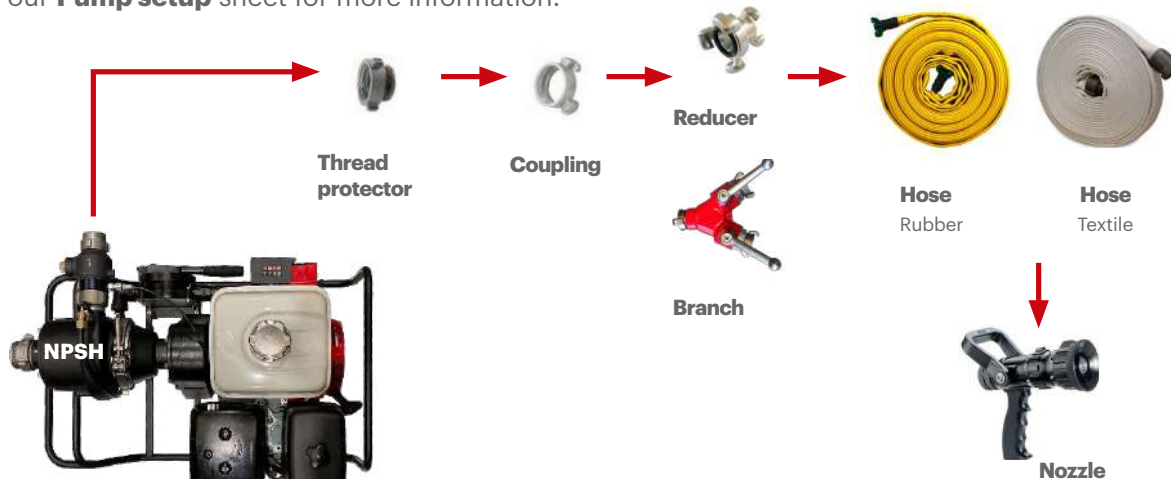


Manual primer
(* included)

WATER DISCHARGE

For discharge, choose the couplings according to the type of hose and the layout configuration: direct attack or series or parallel connection of several pump units.

* See our **Pump setup** sheet for more information.



6. List of components

Threaded protectors

They are always necessary to protect the original threads of the pump and to adapt the NPSH thread to any other type of thread, allowing the connection of other couplings.

DVD3107-00001	NPSH-NPSH 1-1/2"
DVD3107-00002	NPSH-BSP 1-1/2"
DVD3107-00003	NPSH-NH 1-1/2"
DVD3108-00001	NPSH-NPSH 2"
DVD3108-00002	NPSH-BSP 2"
DVD3108-00003	NPSH-NH 2"



Wrench for VFT couplings

It allows you to tighten and loosen the thread protectors safely.

DVD3112-00001



VFT foot valve

The foot valve with a check system filters the water and allows priming of the suction circuit and the pump.

DVD3105-00004	NPSH 2"
DVD3105-00005	BSP 2"
DVD3105-00006	NH 2"



Suction hose Altra Fortex

Lightweight and durable suction hose made of spun polyester.

DVD3102-00061	2" NPSH // L=3m
DVD3102-00063	2" NH // L=3m



Suction hose

High-pressure reinforced rubber suction hose.

- DVD3102-00011** 2" NPSH // L=3m
- DVD3102-00012** 2" BSP // L=3m
- DVD3102-00013** 2" NH // L=3m
- DVD3102-00014** 2" Storz 52-C // L=3m



7. Optional accessories

VIPER Attack forestry nozzles

Premium nozzle where you can select the flow and spray type. They are lightweight, compact, and include the patented Rylstatic system.

- DED5421-00000** VIPER Attack 550 forestry nozzle - BCN 25 coupling
- DED5421-00003** VIPER Attack 550 forestry nozzle - BSP thread
- DED5427-00000** VIPER Attack 1562 forestry nozzle - BCN 45 coupling



VFT pump repair kit

Includes various tools specifically designed for the maintenance and repair of VFT_4SP, VFT_3SP, and VFT_2SP pumps.

- DVD3115-AAAOA** 2, 3, and 4 stage VFT pump repair kit



Hose clamp

Tool that allows you to quickly cut off the water flow to perform operations such as, for example, changing the nozzle or adding and removing hoses during direct attack.

- DED5800-00000** FC-2540 hose clamp
- DED5801-00000** Textile hose clamp



VFT anti-spill base for motor pumps

Foldable base made of durable and waterproof canvas. It serves as protection for the motor pump on rough terrain and prevents spills of contaminants such as oil and fuel onto the ground.

- DVD3114-00001** VFT anti-spill base for motor pumps



*Please check our price list to see all available references according to threads, coupling types, hose diameters, and other accessories. If you have any questions, please contact your sales agent or directly at customer.service@vallfirest.com.