

# **vft** **black line** **pumps**



**Black Hawk**  
BH4-23

# Black Hawk BH4-23

## Up to 28,8 bar and 397 l/min

The BH4-23 is part of the Black Hawk line of portable vft fire pumps, powered by 23 hp Briggs and Stratton Vanguard "V twin" air cooled engine with over-speed protection that combined with a VFT\_INCREASER and VFT\_4SP pump offers an excellent power to weight ratio, low noise level and a easy starting.

This powerful combination is capable of delivering very high pressures and has the ability to perform long hose runs without lose of performance.

- > High-quality components and spare parts availability
- > Best Quality/Price ratio.
- > 2 years warranty.



### Applications

- Direct attack with hose laying.
- Self-protection maneuvers with sprinklers.
- Tandem pumping of motor pumps over long distances.

### Features

- Electric start (battery optional) with manual recoil backup.
- Compact and resistant, with easy portability.
- Constructed in high quality materials, ensuring a long lasting use.
- Interchangeable VFT\_4SP pump coupled with V-Clamp stainless steel quick release system (compatible with foam).
- Maintenance-free speed increaser. Made of cast aluminum and high quality components.
- Choice of hand carrying tube frame (with gripping points for easy transport) or channel base frame for vehicle mount.
- Optional integral fuel tank.
- Hand priming pump and pressure gauge included.
- Non-return discharge valve included

### Specifications

|                  |                                                  |
|------------------|--------------------------------------------------|
| Motor            | Briggs and Stratton Vanguard 23HP                |
| Centrifugal Pump | VFT 4 stage                                      |
| Weight           | 68.5 kg (dry)                                    |
| Maximum Pressure | 28.8 bar                                         |
| Maximum Flow     | 397 l/min                                        |
| Sizes            | Length: 83 cm.   Wide: 49.5 cm.   Height: 48 cm. |

1. Engine BRIGGS AND STRATTON 23HP VANGUARD



| Motor Specifications      |                                                            |
|---------------------------|------------------------------------------------------------|
| Motor                     | 4 strokes gasoline                                         |
| Bore x Stroke             | 75,5 X 70 mm                                               |
| Displacement              | 627 cm <sup>3</sup>                                        |
| Compression ratio         | 8.4 : 1                                                    |
| Power                     | 23HP                                                       |
| Nº Cylinders              | 2                                                          |
| Starter                   | Manual starter with manual recoil rope and electric start. |
| Oil sensor                | Yes                                                        |
| Engine oil capacity       | 1,7 L                                                      |
| Dimensions (l. x w. x h.) | 318 mm x 407 mm x 449 mm                                   |
| Dry weight                | 35 kg                                                      |

2. Centrifugal 4 stage Pump (VFT4SP)

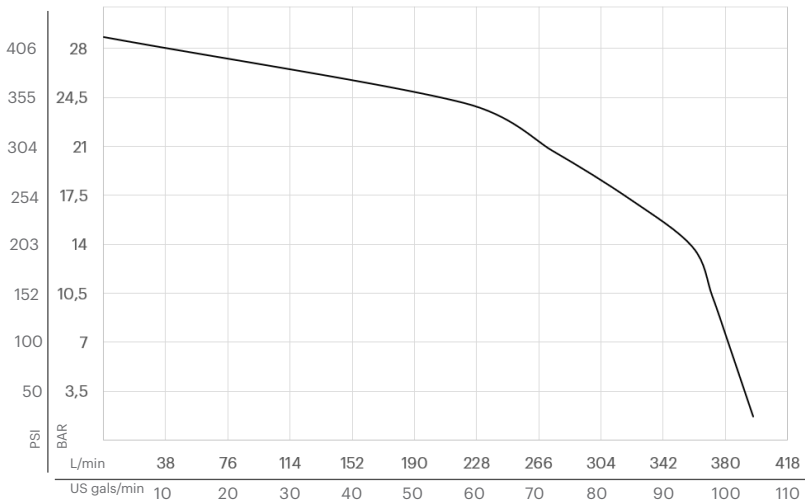


The VFT4SP is a compact, efficient and reliable 4-stage centrifugal pump. The pump body and impellers are made of aluminum with anti-corrosion treatment. The shaft and other components are made of stainless steel. Incorporates a high quality mechanical seal specifically designed.

\*Pump compatible with foam.

| VFT4SP Specifications |           |
|-----------------------|-----------|
| Suction               | 2" NPSH   |
| Impulsion             | 1,5" NPSH |

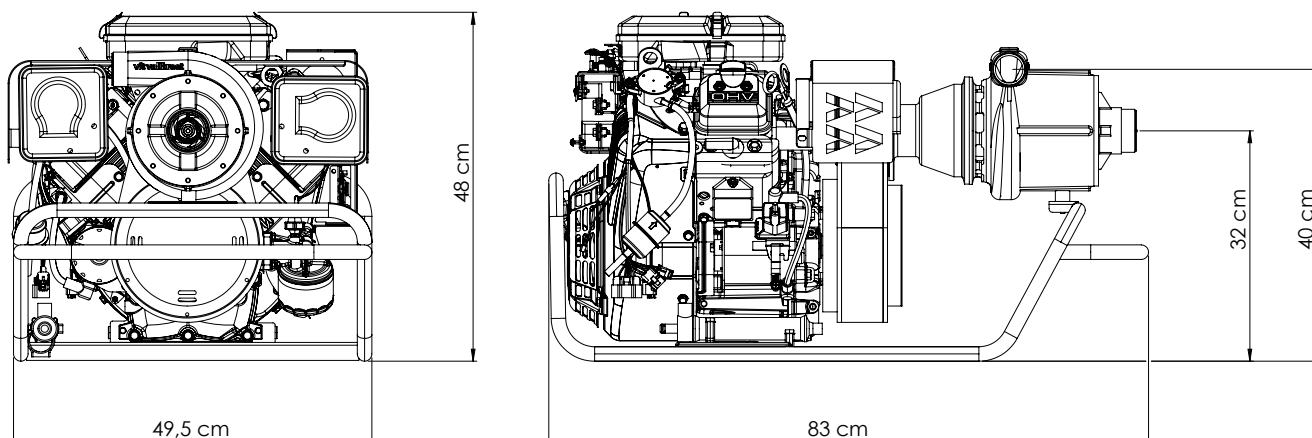
3. BH4-23 Performance



| Max. Performance |       |          |            |
|------------------|-------|----------|------------|
| Max. Flow        |       | 397 l/m  |            |
| Max. Pressure    |       | 28.8 bar |            |
| Max. Water Gauge |       | 294 mH2O |            |
| Pressure         |       | Flow     |            |
| [Bar]            | [PSI] | [L/Min]  | [U.S. GPM] |
| 24.1             | 349.5 | 220      | 58         |
| 13.8             | 200   | 360      | 95         |
| 3.5              | 50    | 394      | 104        |

## 4. Technical drawings

Length: 83 cm. | Wide: 49,5 cm. | Height: 48 cm.



## 5. Optional Accesories

### Foot Valve VFT NH 2"

**DVD3105-00001**



### Thread protector NPSH-NPSH 2"

**DVD3108-00001**



### Thread protector NPSH-NPSH 1-1/2"

**DVD3107-00001**

### Suction Hose 1-1/2" NH

with Foot Valve L=3m

**DVD3050-00003**

### Suction Hose 1-1/2" Storz 52-C

with Foot Valve L=3m

**DVD3050-00004**



**Primer check valve H 1-1/2" NPSH – M 1-1/2"**

**DVD3113-00001**



**Fuel Tank 12L**

**DED6001-00001**

**Fuel Tank 25L**

**DED6001-00002**



**LíneFuel Line 1/4" for tank  
(Mercury female - 1/4" NPT)**

**DVD3116-AAAOA**

