

 **sapin**



# HIGH PRESSURE KITS FOR ATV VEICHLES AND SLIP ON UNITS

## HIGH PRESSURE KITS FOR ATV VEICHLES AND SLIP ON UNITS

### LOW INOX



**TANK 360 - 440 - 600 liters**

### T



**TANK 450 - 600 liters**

### PE - HD



**TANK 280 - 500 liters**

#### MOTOR PUMP:

GASOLINE OR DIESEL 54 l/min@40 bar

GASOLINE OR DIESEL 76 l/min@50 bar

GASOLINE 100 l/min@50 bar

DAHU - GASOLINE 390 l/min - 29 bar (REFERRED TO THE END OF THE CURVE)

FREEDOM 2 - GASOLINE OR DIESEL 760 l/min - 8,5 bar (REFERRED TO THE END OF THE CURVE)

42 l/min@100 bar\* suitable only for model T and PE HD

## SLIP ON UNITS

### FAST INOX



**TANK 1000 - 1500 - (2000 - 2500) liters**

### FAST VTR



**TANK 600 - 1000 - 1500 - (2000) liters**

#### MOTOR PUMP:

GASOLINE OR DIESEL 76 l/min@50 bar

GASOLINE 100 l/min@50 bar

DAHU - GASOLINE 390 l/min - 29 bar (REFERRED TO THE END OF THE CURVE)

FREEDOM 2 - GASOLINE OR DIESEL 760 l/min - 8,5 bar (REFERRED TO THE END OF THE CURVE)

42 l/min@100 bar

# PORTABLE SELF PRIMING & CENTRIFUGAL PUMPS

## PORTABLE SELF PRIMING CENTRIFUGAL PUMPS

### KVA PUMP



MAX FLOW 1800 l/min  
MAX HEAD 30 m  
GASOLINE 10 HP

### KPA PUMP



MAX FLOW 800 l/min  
MAX HEAD 75 m  
GASOLINE 14 HP  
DIESEL 10,9 HP

### IP PUMP



BRONZE CONSTRUCTION  
MAX FLOW 2000 l/min  
MAX HEAD 30 m  
GASOLINE 14 HP  
DIESEL 10,9 HP

### TRASH PUMP



MAX FLOW 2700 l/min  
MAX HEAD 30 m  
GASOLINE 14 HP

## HIGH FLOW SELF PRIMING PUMPS FOR TRAILER



ON DEMAND  
FLOW FROM 2500 UP TO 15000 l/min  
SELF SUPPORTING FUEL RESERVOIR TANK + TRAILER

## PORTABLE CENTRIFUGAL PUMPS

### FREEDOM AND KVG PUMP



FREEDOM II MAX FLOW 760 l/min  
HEAD MAX 85 m  
DIESEL 10,9 HP  
GASOLINE 14 HP

FREEDOM III MAX FLOW 1.000 l/min  
MAX HEAD 85 m  
GASOLINE 14 HP

KVG MAX FLOW 1.800/2500 l/min  
MAX HEAD 45 m - 55 m  
GASOLINE 14 HP

### DAHU PUMP



HIGH PRESSURE 4 STAGE  
CENTRIFUGAL PUMP

GASOLINE 23 HP  
390 l/min – 29 bar  
(REFERRED TO THE END OF  
THE CURVE)

## PRESS CONTROL SYSTEM

### FIRE HOSE TESTING PUMP



230V 1,5 HP  
25 l/min  
25 bar  
4 OUTLET

# FAST 1500 INOX

The frame is made of painted steel and it includes tubular longitudinal beams and cross members to stiffen the structure. The frame is designed to insert horizontally removable stabilizers.



**DOWNLOADING:** The downloading is guaranteed by lifting eyebolts for hoisting with a crane or overhead winch.

**OPTIONAL:** Horizontally removable servo rudders/ support feet only for the empty equipment  
**WATER TANK:** in relation to the available space and the drivability of the vehicle, containing the height of the center of gravity as much as possible even when the vehicle is loaded.

The tank is made of STAINLESS STEEL 304 sheet 2/3 mm thickness.

Filling inlet on the top with couplings to fill the tank from a hydrant or pressurized external water source (UNI, STORZ, SYM or other standard available)

## MODELS

CAPACITY	DIMENSIONS (L-W-H)	WEIGHT	MODEL
1000	on demand	on demand	1000FASTXX
1500	2500x1460x1160 mm	approx 1960 kg	1500FASTXX

## TECHNICAL SPECIFICATIONS

MODEL	1500FAST76/40D	1500FAST76/50B	1500FAST104/50B
<b>FLOW RATE l/min (GPM)</b>	76 (20,1)	76 (20,1)	104 (27,5)
<b>PRESSURE</b>	40 bar (580 PSI)	50 bar (725 PSI)	
<b>BRAND</b>	LOMBARDINI	VANGUARD	VANGUARD
<b>TYPE</b>	KD 440	25V	3564
<b>FUEL</b>	Diesel	Gasoline	Gasoline
<b>POWER</b>	10,9	14	18
<b>DISPLACEMENT (cc)</b>	441	408	570
<b>STARTING SYSTEM</b>	Electric and manual start-up		
<b>STANDARD EQUIPMENT</b>	Pressure regulation: manual type from 0 to 40/50 bar capable of bypassing excess liquid and allowing the line pressure to be kept constant. With separation diaphragm for better adjustment sensitivity and glycerine-bathed pressure gauge; One command for each hose reel; One free water delivery equipped with quick coupling; Filter complete with cartridge; Suction selector valve for suction from external source (Threaded suction inlet with blank cap and chain UNI standard others connection STORZ, BS, DSP/SYM on request) or from the tank. Other Filling inlet on the top.		
<b>HOSE REEL</b>	Two manual hose reels, made of die-cast aluminium by cataphoresis, complete with supports equipped with manual anti-unroll lock. Max operating pressure 100 bar.		
<b>HOSE</b>	High pressure hoses made of 50 meters of flex pipe 1/2" (internal 12,8, external 20,2, 160 bar)		
<b>BRANCHPIPE</b>	2 pcs MITRA SUPER LONG RANGE branchpipe with open/close position, full and spray jet		

# FAST 1500 VTR



The main frame is made of painted steel, including metal structure with tubular and beam, to strengthen the structure. There is the predisposition to insert parking jack, removable horizontally.

UNLOADING: through lifting eye suitable for lifting with crane or roof winch.

WATER TANK: capacity of 1.500

Parallelepiped shape, designed to optimise both the capacity, related to the available space, and the vehicle drivability, working on keeping the barycentre height even with full load.

The tank is made of glass reinforced fiber.

## MODELS

CAPACITY	DIMENSIONS (L-W-H)	WEIGHT	MODEL
600	on demand	on demand	600VTRXX
1000	2180x1760x760 mm	approx 1350 kg	1000VTRXX
1500	2180x1760x1015 mm	approx 1850kg	1500VTRXX
2000	2180x1760x1320 mm	approx 2450 kg	2000VTRXX

## TECHNICAL SPECIFICATIONS

MODEL	1500VTR76/40D	1500VTR76/50B	1500VTR104/50B
FLOW RATE l/min (GPM)	76 (20,1)	76 (20,1)	104 (27,5)
PRESSURE	40 bar (580 PSI)	50 bar (725 PSI)	
BRAND	LOMBARDINI	VANGUARD	VANGUARD
TYPE	KD 440	25V	3564
FUEL	Diesel	Gasoline	Gasoline
POWER	10,9	14	18
DISPLACEMENT (cc)	441	408	570
STARTING SYSTEM	Electric and manual start-up		
STANDARD EQUIPMENT	Pressure regulation: manual type from 0 to 40/50 Bar capable of bypassing excess liquid and allowing the line pressure to be kept constant. With separation diaphragm for better adjustment sensitivity and glycerine-bathed pressure gauge; One command for each hose reel; One free water delivery equipped with quick coupling; Filter complete with cartridge; Suction selector valve for suction from external source or from the tank; Threaded suction inlet with blank cap and chain (UNI standard others connection STORZ, BS, DSP/SYM on request).		
HOSE REEL	Two manual hose reels, made of die-cast aluminium by cathoresis, complete with supports equipped with manual anti-unroll lock. Max operating pressure 100 bar.		
HOSE	High pressure hoses made of 50 meters of flex pipe 1/2" (internal 12,8, external 20,2, 160 bar)		
BRANCHPIPE	2 pcs MITRA SUPER LONG RANGE branchpipe with open/close position, full and spray jet		

# LOW INOX 440



Model LOW INOX has an horizontal stainless steel tank with an optimized design that provides a low center of gravity under the skid unit for greater vehicle stability even when is empty. The shape can be adjusted to the dimensions of the loading area to optimize the available space. Is made of 2 mm AISI-304 stainless steel with internal breakwaters to prevent water from moving to the side to ensure vehicle stability. On the upper part there are spaces for fixing both the motor pump unit and one or two reels. Due to the forklift space on the bottom is easy to load/unload. Inspection cover to inspect the tank and to fill it of water. Water level indicator. Drain valve to empty the tank. Pump return connection to fill the tank by suctioning water from a non-pressurized external water source.

## MODELS

CAPACITY	DIMENSIONS (L-W-H)	WEIGHT	MODEL
360	1050x1000x1040 mm	-100 kg	360LOWXX
440	1300x1000x1040 mm	See below table	440LOWXX
600	1430x1000x1060 mm	+216 kg	600LOWXX

## TECHNICAL SPECIFICATIONS

MODEL	440LOW54/40B	440LOW54/40H	440LOW76/40D	440LOW76/50B	440LOW104/50B
<b>FLOW RATE l/min (GPM)</b>	54 (14,3)	54 (14,3)	76 (20,1)	76 (20,1)	104 (27,5)
<b>PRESSURE</b>	40 bar (580 PSI)			50 bar (725 PSI)	
<b>BRAND</b>	VANGUARD	HAILIN	LOMBARDINI	VANGUARD	VANGUARD
<b>TYPE</b>	19L/19V	HL 186	KD 440	25V	3564
<b>FUEL</b>	Gasoline	Diesel	Diesel	Gasoline	Gasoline
<b>POWER</b>	10	9,6	10,9	14	18
<b>DISPLACEMENT (cc)</b>	305	418	441	408	570
<b>STARTING SYSTEM</b>	Electric and manual start-up				
<b>STANDARD EQUIPMENT</b>	Pressure regulation: manual type from 0 to 40/50 Bar capable of bypassing excess liquid and allowing the line pressure to be kept constant. With separation diaphragm for better adjustment sensitivity and glycerine-bathed pressure gauge; One command for each hose reel; One free water delivery equipped with quick coupling; Filter complete with cartridge; Suction selector valve for suction from external source (inlet with blank cap and chain UNI standard others connection STORZ, BS, DSP/SYM on request) or from the tank.				
<b>HOSE REEL</b>	One manual hose reels, made of die-cast aluminium by cataphoresis, complete with supports equipped with manual anti-unroll lock. Max operating pressure 100 bar.				
<b>HOSE</b>	50 meters of hose with metal braid of 3/8"; internal diameter of 9,5; external diameter of 17,1, operating pressure of 180 bar		50 meters of high pressure hose 1/2"; inner diameter of 12,8 and external diameter of 20,2; operating pressure of 160 bar.		
<b>BRANCHPIPE</b>	1 pc MITRA branchpipe with open/close position, full and spray jet				
<b>WEIGHT</b>	636 kg	645 kg	670 kg	655 kg	670 kg



The T-shaped tank, with a water capacity of 400, is made of AISI 304 stainless steel sheets and equipped with ribs to stiffen the structure. On the upper part there are spaces for fixing one or two reels.

The motor pump unit is installed on a special frame near a space created close to the tank. The equipment is aimed to optimize the capacity in relation to the available space, improving the stability of the vehicle while maintaining a centre of gravity low.

## MODELS

CAPACITY	DIMENSIONS (L-W-H)	WEIGHT	MODEL
450	1300x1000x1100 mm	See below table	450TWXX
600	1500x1000x1100 mm	+210 kg	600TWXX

## TECHNICAL SPECIFICATIONS

MODEL	450T54/40B	450T54/40H	450T76/40D	450T76/50B	450T104/50B
<b>FLOW RATE l/min (GPM)</b>	54 (14,3)	54 (14,3)	76 (20,1)	76 (20,1)	104 (27,5)
<b>PRESSURE</b>	40 bar (580 PSI)		50 bar (725 PSI)		
<b>BRAND</b>	VANGUARD	HAILIN	LOMBARDINI	VANGUARD	VANGUARD
<b>TYPE</b>	19L/19V	HL 186	KD 440	25V	3564
<b>FUEL</b>	Gasoline	Diesel	Diesel	Gasoline	Gasoline
<b>POWER</b>	10	9,6	10,9	14	18
<b>DISPLACEMENT (cc)</b>	305	418	441	408	570
<b>STARTING SYSTEM</b>	Electric and manual start-up				
<b>STANDARD EQUIPMENT</b>	Pressure regulation: manual type from 0 to 40/50 bar capable of bypassing excess liquid and allowing the line pressure to be kept constant. With separation diaphragm for better adjustment sensitivity and glycerine-bathed pressure gauge; One command for each hose reel; One free water delivery equipped with quick coupling; Filter complete with cartridge; Suction selector valve for suction from external source (inlet with blank cap and chain UNI standard others connection STORZ, BS, DSP/SYM on request) or from the tank.				
<b>HOSE REEL</b>	One manual hose reels, made of die-cast aluminium by cataphoresis, complete with supports equipped with manual anti-unroll lock. Max operating pressure 100 bar.				
<b>HOSE</b>	50 meters of hose with metal braid of 3/8"; internal diameter of 9,5; external diameter of 17,1, operating pressure of 180 bar		50 meters of hose with metal braid of 1/2" internal diameter of 12,8; external diameter of 20,2; operating pressure of 160 bar		
<b>BRANCHPIPE</b>	1 pc MITRA branchpipe with open/close position, full and spray jet				
<b>WEIGHT</b>	636 kg	645 kg	672kg	655 kg	665 kg

# MODULE PE HD



The frame is sturdy and made of tubular and pressent steel sheets. The frame is equipped with eyebolts for lifting a crane or roof winch, to ensure unloading and stowage. Parallelepiped tank, with a water capacity of 500 liters (on request it can also be calibrated to 450). Made of sturdy highdensity PE-HD plastic material with ribs to stiffen the structure. Equipment suitable for installation on small vehicles, pick-ups and ATVs. The unloading is guaranteed by the provision of 4 hooks for lifting by crane or roof winch.

## MODELS

CAPACITY	DIMENSIONS (L-W-H)	WEIGHT	MODEL
280	1250x880x1000 mm	-220 kg	280PEXX
500	1330x1045x1100 mm	See below table	500PEXX

## TECHNICAL SPECIFICATIONS

MODEL	500PE54/40B	500PE54/40D	500PE76/40D	500PE76/50B	500PE104/50B
<b>FLOW RATE l/min (GPM)</b>	54 (14,3)	54 (14,3)	76 (20,1)	76 (20,1)	104 (27,5)
<b>PRESSURE</b>	40 Bar (580 PSI)			50 Bar (725 PSI)	
<b>BRAND</b>	VANGUARD	HAILIN	LOMBARDINI	VANGUARD	VANGUARD
<b>TYPE</b>	19L/19V	HL 186	KD 440	25V	3564
<b>FUEL</b>	Gasoline	Diesel	Diesel	Gasoline	Gasoline
<b>POWER</b>	10	9,6	10,9	14	18
<b>DISPLACEMENT (cc)</b>	305	418	441	408	570
<b>STARTING SYSTEM</b>	Electric and manual start-up				
<b>STANDARD EQUIPMENT</b>	Pressure regulation: manual type from 0 to 40/50 Bar capable of bypassing excess liquid and allowing the line pressure to be kept constant. With separation diaphragm for better adjustment sensitivity and glycerine-bathed pressure gauge; One command for each hose reel; One free water delivery equipped with quick coupling; Filter complete with cartridge; Suction selector valve for suction from external source (inlet with blank cap and chain UNI standard others connection STORZ, BS, DSP/SYM on request) or from the tank.				
<b>HOSE REEL</b>	One manual hose reels, made of die-cast aluminium by cataphoresis, complete with supports equipped with manual anti-unroll lock. Max operating pressure 100 bar.				
<b>HOSE</b>	50 meters of high pressure hose with metal braid of 3/8", internal diameter of 9.5; external diameter of 17.1, operating pressure 180 bar.		50 meters of high pressure hose 1/2" internal diameter of 12.8; external diameter of 20.2, operating pressure 160 bar.		
<b>NOZZLE</b>	MITRA branchpipe with open/close position, full and spray jet				
<b>WEIGHT</b>	670 kg	680 kg	705 kg	690 kg	700 kg

## A



### HOSES CHANGE OF LENGHT

Increase up to 100 meters hose 3/8" or 80 meters high pressure hose DN 1/2"

## B



### SECOND HOSE REEL

- Complete with 50 meters hose 3/8" or 1/2"
- Complete with 100 meters hose 3/8"
- Complete with 80 meters hose 1/2"

## C



### LAY FLAT HOSE SYSTEM

Hose reel, lay flat hose DN 25 40 bar working pressure model JET AIB or YAGOM EXCEL (up to 4 pcs) and EN 15182 selectable 19-150 l/min. PN 40 brachnpipe

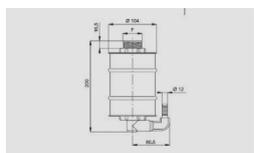
## D



### FOAM KIT SYSTEM

Control panel with mixer and By-Pass. In-line mixing system with mixing % adjustment from 0.1 to 8. System installed for reel feeding. Suction tube length 1.5 m and aluminum suction tube. Optional a 5 or 20 liter tank support.

## E



### HYDRO EJECTOR

Ejector pump for drainage use is an accessory that combined with the kit allows the rapid suction of large volumes of water, thanks to the out-put water flow of the pump (e.g. of use: emptying of cellars, filling of the tank)

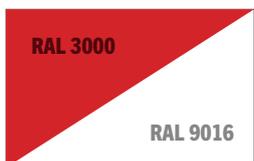
## F



### SUCTION KIT

Suction kit to take water from an external source. It is made of 38/45 mm hose Lenght 6 meters complete with coupling (UNI, STORZ, SYM, etc) and a suction strainer.

## G



### PAINTING

Other colors on request

## H



### WORK LIGHT

## I



### SECOND DELIVERY KIT

Standard coupling STORZ D, STORZ 38, BCN 25 or UNI25 for a second free flow outlet to connect lay flat hoses

# TRASH PUMP



The self priming pump “Trash” is designed to comply to the hardest and heavy duty applications especially for emergency when there is dirty sewage and muddy water with the presence of solids and sand. The open-blade impeller ensures a superior priming ability voiding the need of a foot valve installation. The high thickness of the pump body and of the impeller blades, allow the handling of more abrasive fluids and large passage of solids.

Main features:

- Mechanical seal in high resistance hard metal.
- Large-size inspection hatches to facilitate cleaning and inspection.
- Rapid self-priming up to 8 meters in vertical position.
- Due to the construction's materials (anticorodal aluminum) it is also suitable for use with seawater and highly resistant to abrasion.

## TECHNICAL SPECIFICATIONS

<b>MODEL</b>	TRASH
<b>TYPE</b>	Self-priming centrifugal with open impeller
<b>ENGINE BRAND</b>	LOMBARDINI - KOHLER
<b>POWER (HP)</b>	14
<b>DISPLACEMENT (cc)</b>	429
<b>CYLINDERS</b>	1
<b>STARTING SYSTEM</b>	Electric and manual start-up (independent battery on request or external starter)
<b>FUEL TANK CAPACITY</b>	7 liters
<b>FUEL</b>	Gasoline
<b>MATERIAL</b>	Anicorodal aluminum body; Volute and impeller in tempered aluminum; Mechanical seal Silicon carbide and VITON; shaft C40 steel; Nitrile elastomers
<b>MAX ASPIRATION</b>	8 m
<b>MAXIMUM FLOW Q MAX (l/min - m<sup>3</sup>/h)</b>	2700 (l/min) 160 (m <sup>3</sup> /h)
<b>FREE SOLIDS PASSAGE MAX SIZE (mm)</b>	50X30 mm
<b>TOURS (RPM)</b>	3000
<b>IMPELLER Ø</b>	148 mm
<b>H MAX (m)</b>	24 m
<b>INLET / OUTLET</b>	4" BSP male thread - 4" BSP male thread
<b>DIMENSIONS (L-W-H)</b>	930x660x550 mm
<b>WEIGHT</b>	96 kg (without battery)



Dahu Pump is a model for fixed or portable installations, projected to meet customer's needs for firefighting and others different types of fire's emergency: wildfires, civil, industrial.

The main features of the pump is its high head performance and the construction materials (aluminum bronze body and impellers/stainless steel shaft) that make it suitable to be used also with sea water.

The portable version of the pump is installed on a robust painted steel frame, equipped with specific anti-vibration supports, that includes transport and lifting points. It can be also used on mobile units, installed on vehicles and fire trucks, trailers, pump group monitors and more.

## TECHNICAL SPECIFICATIONS

<b>MODEL</b>	DAHU
<b>FUEL</b>	Gasoline
<b>ENGINE BRAND</b>	VANGUARD
<b>POWER (HP)</b>	23
<b>DISPLACEMENT (cc)</b>	627
<b>CYLINDERS</b>	2
<b>STARTING SYSTEM</b>	Electric and manual start-up (independent battery on request or external starter)
<b>FUEL TANK CAPACITY</b>	NA (l) Optional with integrated tanks available upon specific request
<b>PUMP TYPE</b>	4-stage centrifugal pump
<b>MATERIAL</b>	Aluminum bronze body and impellers, shaft and others components made of S.S.316
<b>MAX PRESSURE</b>	30 bar
<b>MAXIMUM FLOW</b>	420 l/min
<b>OPERATIONAL DATA</b>	10 bar@370 l/min 21 bar@265 l/min 28 bar@130 l/min
<b>TOURS (RPM)</b>	3600
<b>DIAMETER OF SUCTION - INLET</b>	2"
<b>DIAMETER DISCHARGE - OUTLET</b>	1 1/2"
<b>DIMENSIONS (L-W-H)</b>	850x500x470 mm
<b>WEIGHT</b>	81kg (without battery, fuel tank, and other accessories)

# FREEDOM PUMP



The Freedom Pump is projected to meet customer's needs during firefighting's operations of different types: wildfires, urban, industrial, airport, etc.

The main features of the Freedom Pump is its low weight and the compact dimensions. It can be easily transported by two people. The pump is installed on a painted steel chassis that include specific antivibration supports with carrying's handles, hooks for crane or roof winch lifting. It can be used on mobile's units, installed on vehicles and tankers. The pump can also be installed on trailers to supply small monitors. Electric and manual start-up (independent battery on request or external starter).

## TECHNICAL SPECIFICATIONS

FUEL	FREEDOM II 3/7	FREEDOM III 4/7
MATERIAL	Pump body; housing; cast iron; impeller: bronze; mechanical seal: graphite/ceramic	
DISPLACEMENT (cc) - POWER HP - FUEL	408 - 14 - Gasoline	
MAXIMUM HEAD (m)	85	
MAXIMUM FLOW (l/min)	760 (l/min) 46,2 (m3/h)	1.000 (l/min) 60 (m3/h)
WEIGHT AND DIMENSIONS (L-W-H)	69 kg - 550x780x535 mm	on demand
OPERATION DATA	680 l/min @ 4 bar 400 l/min @ 6,5 bar 160 l/min @ 8 bar	900 l/min @ 4,5 bar 520 l/min @ 6,5 bar 240 l/min @ 8 bar
DIAMETER OF SUCTION - INLET	2"	3"
DIAMETER OF DISCHARGE - OUTLET	2"	3"

# PRESS CONTROL SYSTEM PUMP



The press control system is an electric pump unit to test fire hoses with Four-Outlet that is designed to test fire hose up to 3" in diameter safely.

This heavy-duty fire hose tester has an electric-powered hydrostatic test pump providing 25 l/min up to 25 bar (factory regulated at 16 bar). Four independently controlled outlet ball valves 1" BSP that can be fitted with UNI, STORZ, DSP, BS or others couplings on request. Equipped with free flow and control unit with by-pass.

## TECHNICAL SPECIFICATIONS

MODEL	25 - 25PC - bar
WORKING PRESSURE bar (PSI)	16 (232)
FLOW l/min (GPM)	25 (6,5)
MAX PRESSURE bar (PSI)	25 (362)
ELETRIC CONNECTION	220/240 volt 50 Hz
POWER (HP)	1,5
IP GRADE PROTECTION	54
DIMENSIONS (L-W-H)	550x670x535 mm (wheels excluded)
DIAMETER OF DISCHARGE	48 kg

# KPA PUMP



**MODEL STD**

<b>DIMENSIONS (L-W-H)</b>	550x755x550 mm
<b>WEIGHT</b>	61 kg

Portable self-priming pump with closed impeller reliable, robust, compact, light and powerful. The pump body is built with reinforced aluminum. This model is used both in the fire-fighting sector, small marinas, autoprotection of cottage and for draining. Capable of operating with clear water or dirty water with small sand grains. Available in two models STD with foldable handle tubular transport chassis or model S with wheeled transport chassis and lay flat hose reel.

Electric and manual start-up (independent battery on request or external starter).



**MODEL S**

<b>DIMENSIONS (L-W-H)</b>	1050x770x770 mm
<b>WEIGHT</b>	69 kg

## TECHNICAL SPECIFICATIONS

<b>FUEL</b>	Gasoline
<b>ENGINE</b>	VANGUARD - 14 HP
<b>DISPLACEMENT (cc)</b>	408
<b>NUMBER OF BLADES - IMPELLER DIAMETER (mm)</b>	8 blades - 190 mm
<b>PASSAGE OF SOLIDS (Ø mm)</b>	6,1
<b>MAXIMUM HEAD (m)</b>	75
<b>MAXIMUM FLOW (l/min)</b>	800
<b>OPERATION DATA</b>	500 l/min @ 4 bar 200 l/min @ 6 bar 80 l/min @ 7 bar
<b>DIAMETER OF SUCTION AND DISCHARGE</b>	INLET: 3"; OUTLET: 2" 1/2; 2x1" 1/2

# KVA PUMP



Main features reliable, robust, compact, light and powerful. Motor pumps built with reinforced aluminium pump body. Stretcher support frame/skid, equipped with 4 foldable handles with anti-vibration knob, hook for lifting by crane or roof winch. These models are mostly used for draining in construction sites, agricultural areas or rental applications. Suitable for applications with clear, dirty water or sandy particles. The impeller blades have a large opening to allow the passage of water containing particles and solid objects without obstructing the passage. The impeller blades are deep with a large spiral discharge opening to allow solid suspension debris to pass through, without clogging the pump or damaging its components, ensuring remarkable durability even in the most extreme conditions. Reliability is guaranteed by the power ratio chosen between motor and pump, which guarantees maximum pump performance with minimum motor effort. Electric and manual start-up (independent battery on request or external starter).

## TECHNICAL SPECIFICATIONS

<b>FUEL</b>	Gasoline
<b>ENGINE</b>	Vanguard - 10 HP
<b>DISPLACEMENT (cc)</b>	305
<b>NUMBER OF BALDES - IMPELLER DIAMETER (mm)</b>	3 blades - 125 mm
<b>PASSAGE OF SOLIDS (Ø mm)</b>	10
<b>MAXIMUM HEAD (m)</b>	30
<b>MAXIMUM FLOW (l/min)</b>	1600
<b>DIMENSIONS (L-W-H)</b>	550x755x550 mm
<b>DIAMETER OF SUCTION AND DISCHARGE</b>	INLET: 4"; OUTLET: 4"

# SAPIN IS EVEN MUCH MORE

SAPIN is the **only manufacturer of fire hoses in Italy** and in the years it has expanded the products range with branchpipes, fittings, hydrant, hose reels and much more. The continuous commitment to the development of new products, the attention to the growing expansion of the rules of the laws, both in Italy and in Europe, are a further guarantee of the quality of the products.

## HOSES



**HOSES FOR FIRE BRIGADES AND OTHERS APPLICATIONS**



## BRANCHPIPES



**RANGE OF ROTATING, LEVER AND PROFESSIONAL BRANCHPIPES**



## FITTINGS



**A WIDE RANGE OF FITTINGS FOR EVERY APPLICATIONS**



## HYDRANT



**WALL HYDRANTS, HOSE REELS AND HYDRANTS FOR EVERY TYPE OF APPLICATION**



## FOAM



**EXTINGUISHING FOAM SYSTEMS: MIXERS, BRANCHPIPES, CABINETS AND TROLLEYS**



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**NAVAL EQUIPMENT FOR EVERY NEED: BRANCHPIPES, HOSES AND VALVES MED CERTIFIED**



# ABOUT US



SAPIN has been established in 1971 and is **the largest Italian manufacturer of fire hoses and one of the leading producers in Europe**. The plant is provided with circular weaving looms, a rubber and plastic lining, coating department and a fitting mounting area. With our most modern manufacturing plant we produce hoses from 19 up to 300 mm in various constructions and patterns. The hoses are both lay-flat or semi-rigid, with bursting pressures up to 150 bar.

The long experience in fire-fighting field and the active participation in European and Italian technical committees enable us to provide innovative solutions which are engineered, manufactured and assembled in our specific department, developing new products, not forgetting the optimization of production processes for a better quality and more competitive prices.



Since 2021 we have increased our range of production through the acquisition of VAS, a fire-fighting, civil defence and hydrogeological solutions and equipment manufacturer that allows us to be a solid partner to solve customer needs. The strength of the division is to design and to develop prototypes and unique and customized products, created on the needs and requests of the customer.

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