

# 10.5 HP & 11HP Floating Pumps

## HEF 10.5BS Dolphin™ & HEF 11H Dolphin™

Take advantage of streams, ponds, swimming pools, and hard-to-reach sources of water. This lightweight pump is easily carried by two people through even the roughest terrain. Its clean compact design allows you to store it in most standard-size compartments.

### Engine

- ▶ HEF 10.5BS: Briggs & Stratton, 10.5 HP single cylinder, 4 cycle, 2 qt. fuel tank, recoil rope start
- ▶ HEF 11H: Honda GVX390, OHV engine  $\frac{3}{4}$  gallon fuel tank, recoil rope start

### Dimensions & Weight

- ▶ 838mm (33")L x 762 (30")W x 508(20")H
- ▶ HEF 10.5BS: 50 kg (110 lbs.)
- ▶ HEF 11H: 54 kg (120 lbs.)

### Applications

- ▶ Booster tank fill
- ▶ Transfer and supply

### Uses

- ▶ High volume
- ▶ Self priming

### Features

- ▶ Hard anodized aluminum alloy pump casing
- ▶ Bronze impeller
- ▶ 102mm (4") screened suction inlet
- ▶ 64mm (2½") NH discharge
- ▶ 11 HP: 2011 Carb Compliant

Works in as little as 152mm (6") of water



HEF 11H



### HEF 10.5BS Performance

1450 L/M (390 gpm) @ 1.4 bar (20 psi)  
 946 L/M (250 gpm) @ 2.8 bar (40 psi)  
 757 L/M (200 gpm) @ 3.1 bar (45 psi)  
 378 L/M (100 gpm) @ 4.1 bar (60 psi)

### HEF 11H Performance

1450 L/M (390 gpm) @ 1.4 bar (20 psi)  
 946 L/M (250 gpm) @ 3.2 bar (46 psi)  
 757 L/M (200 gpm) @ 3.4 bar (50 psi)  
 189 L/M (50 gpm) @ 4.4 bar (65 psi)

# 6.5 HP Portable Pump

## 2BE 6.5H HCG Pump (U.S. Coast Guard P6) NSN 4320-01-470-5515

### Engine

- ▶ Honda Model GX200: Air-cooled 4 stroke OHV, single cylinder, 6.5 HP, recoil rope start back-up

### Dimensions & Weight

- ▶ 457mm (18")L x 406mm (16")W x 482 (19")H
- ▶ 22 kg (49 lbs.)

### Applications

- ▶ Dewatering
- ▶ Light duty brush truck
- ▶ Transfer and supply

### Uses

- ▶ Medium pressure
- ▶ High volume
- ▶ Direct drive
- ▶ Engine mounted

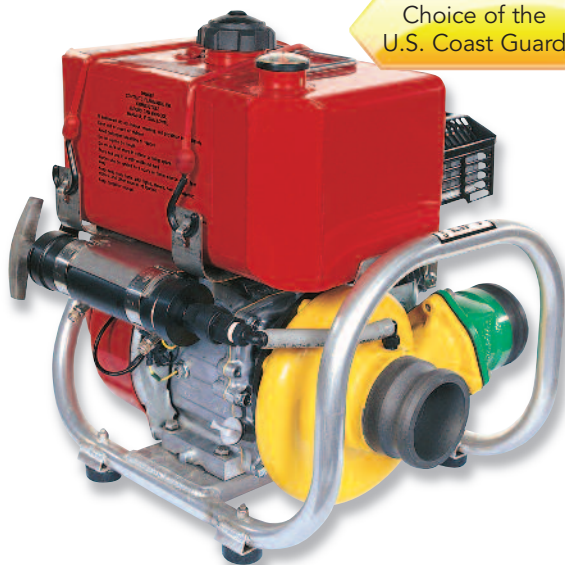
### Features

- ▶ Air cooled 4-stroke OHV
- ▶ Single-cylinder
- ▶ Horizontal shaft
- ▶ 6.5 HP (4.8kW 3600 rpm) max
- ▶ Torque 1.35kg-m/2,500 rpm
- ▶ Transistorized pointless ignition system
- ▶ Recoil starting system
- ▶ Fuel tank capacity 6 qt.
- ▶ Dual silent air cleaner
- ▶ 2011 Carb and EPA Compliant
- ▶ 76mm (3") cam lock suction
- ▶ 76mm (3") cam lock discharge

### Options

- ▶ Discharge hose
- ▶ Container and cover
- ▶ Adapters
- ▶ Suction hose with strainer
- ▶ Contact Darley for Coast Guard model specifications

Choice of the U.S. Coast Guard



### 2BE 6.5H Performance

1040 L/M (275 gpm) @ 0.8 bar (12 psi)  
 662 L/M (175 gpm) @ 1.9 bar (28 psi)  
 378 L/M (100 gpm) @ 3.1 bar (45 psi)

# 64 HP Portable Pump

## HE 64RP "HERCULES"

### Engine

- ▶ Rotax 582: Liquid-cooled, 64 HP, 2 cycle with oil injection, 12-volt electric starter, recoil rope start back-up, 6 gal. fuel tank, hose and adapter

### Dimensions & Weight

- ▶ 864mm (34")L x 762mm (30")W x 660mm (26")H
- ▶ 102 kg (225 lbs.)

### Applications

- ▶ Fire boat
- ▶ Booster tank fill
- ▶ Multiple hand lines
- ▶ Wildland/attack fire suppression

### Uses

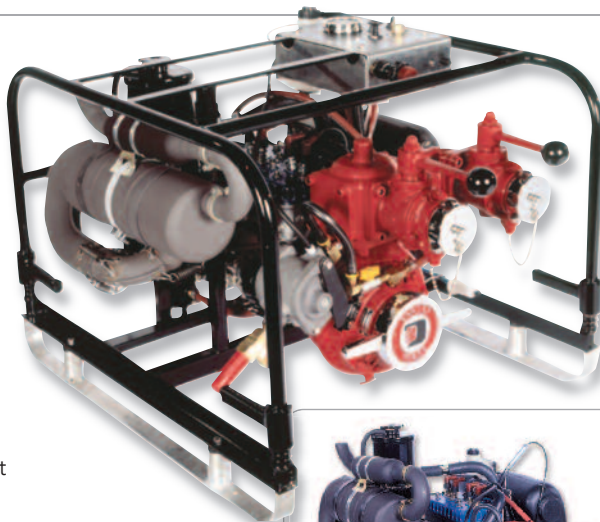
- ▶ Ultra high performance portable version

### Features

- ▶ 170W lighting and recharging coil
- ▶ Aluminum alloy casing
- ▶ Bronze impeller and seal ring
- ▶ Stainless steel impeller shaft
- ▶ Mechanical seal
- ▶ Belt driven rotary primer
- ▶ Heat exchanger with thermal protection circuit
- ▶ Wrap around frame with fold out handles
- ▶ Loss of prime shutdown
- ▶ Pressure governor
- ▶ Vernier throttle
- ▶ 102mm (4") NH suction with screen
- ▶ 2-1/4 turn self-locking 64mm (2 1/2") NH discharge ball valves with caps

### Options

- ▶ Gauge, battery, adapters and caps
- ▶ Wheels



Skid version also available

### HE 64RP Performance

- 2176 L/M (575 gpm) @ 6.9 bar (100 psi)
- 1211 L/M (320 gpm) @ 13.8 bar (200 psi)
- 625 L/M (165 gpm) @ 17.2 bar (250 psi)

# ZSE 2500, 3000, 3500 Engine Driven Pump

### Dimensions & Weight

- ▶ 610mm (24")L x 659mm (27")W x 660mm(31")H
- ▶ 274 kg (605 lbs.)

### Applications

- ▶ Industrial
- ▶ Chemical
- ▶ Aerial
- ▶ ARFF
- ▶ Fire boat

### Uses

- ▶ Single stage
- ▶ Centrifugal
- ▶ Single suction impeller
- ▶ Engine mounted

### Features

- ▶ Mechanical Seal
- ▶ 1610 or 1710 full round yokes
- ▶ Mega transmission
- ▶ Air shift
- ▶ Manual override
- ▶ 152mm (6") weld discharge
- ▶ 203mm (8") weld flange suction



### ZSE 2500 NFPA Fire Pump Performance

- 9463 L/M (2500 gpm) @ 10.3 bar (150 psi)
- 9463 L/M (2500 gpm) @ 11.3 bar (165 psi)
- 6624 L/M (1750 gpm) @ 13.8 bar (200 psi)
- 4732 L/M (1250 gpm) @ 17.2 bar (250 psi)

Using 1 - 203mm (8") or 3 - 152mm (6") suction hose  
Rated at 2500 gpm for NFPA 1901 fire pump application

### ZSE 3000 NFPA Fire Pump Performance

- 11,356 L/M (3000 gpm) @ 11.3 bar (165 psi)
- 7949 L/M (2100 gpm) @ 13.8 bar (200 psi)
- 5678 L/M (1500 gpm) @ 17.2 bar (250 psi)

Using 2 - 203mm (8") or 4 - 152mm (6") suction hose  
Rated at 3000 gpm for NFPA 1901 fire pump application

### ZSE 3500 NFPA Industrial Rating Performance

- 13,248 L/M (3500 gpm) @ 6.8 bar (100 psi)
- 9274 L/M (2450 gpm) @ 10.3 bar (150 psi)
- 6624 L/M (1750 gpm) @ 13.8 bar (200 psi)

### ZSE International Rating Performance

- 10,000 L/M (2642 gpm) @ 15 bar (217 psi)

# 10 HP Diesel Portable Pump

**2BE10YDN (Navy P100)**  
**NSN 3H-4320-01-387-2869**

## Engine

- ▶ 2BE10YDNL100: 4 cycle, 10 HP, 1 cylinder, recoil rope start back-up, optional 12 volt electric start and alternator

## Dimensions & Weight

- ▶ 610mm (24")L x 610mm (24")W x 584mm (23")H
- ▶ 74 kg (163 lbs.)

## Applications

- ▶ Marine
- ▶ Dewatering
- ▶ Transfer and Supply

## Uses

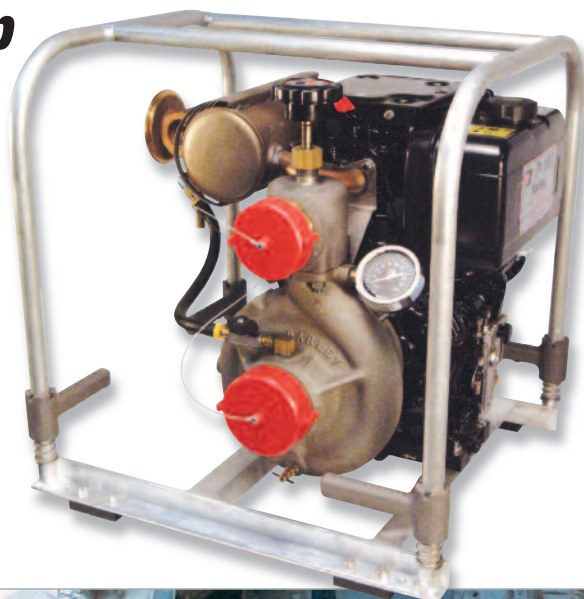
- ▶ Medium pressure
- ▶ High volume
- ▶ Engine mounted

## Features

- ▶ Anodized aluminum alloy casing
- ▶ Discharge head
- ▶ Engine adapter
- ▶ Bronze impeller and wear rings
- ▶ Stainless steel impeller shaft
- ▶ Shredded plastallic packing
- ▶ Discharge check valve
- ▶ Adjustable discharge valve
- ▶ Throttle
- ▶ Roll cage
- ▶ Exhaust primer
- ▶ 76mm (3") NPT suction
- ▶ 1-64mm(2 1/2") NPT or 2-38mm (1 1/2") NPT discharges

## Options

- ▶ Adapters & caps
- ▶ Electric start
- ▶ Mechanical seal



The Darley P100 was used during the USS Cole Disaster

## Choice of the US Navy

Darley has delivered more than 5000 pumps to the US Navy, US Coast Guard and more than 35 other Navies around the world.

## Navy P100 Upgrade Package

Includes standard features plus roll cage, pressure gauge, marinization package, adapters, caps with cable, 2 - 3m (10') x 51mm (2") exhaust hoses. Operates on diesel or jet fuel, features one-pull start, is self-priming to 6m (20') and passed rigorous navy lab testing.

## 2BE10YDN Performance

946 L/M (250 gpm) @ 1.4 bar (25 psi)  
 681 L/M (180 gpm) @ 4.1 bar (60 psi)  
 359 L/M (95 gpm) @ 6.2 bar (90 psi)

# 1 1/2AG PTO Pump

## Dimensions & Weight

- ▶ 305mm (12")L x 229mm (9")W x 305mm (12")H
- ▶ 18.2 kg (40 lbs.)

## Applications

- ▶ Mini pumper
- ▶ Tanker
- ▶ Wildland/attack fire

## Uses

- ▶ Single stage
- ▶ Centrifugal
- ▶ PTO driven
- ▶ Gear driven

## Features

- ▶ Aluminum alloy casing
- ▶ Aluminum alloy gear case
- ▶ Bronze impeller and wear rings
- ▶ Heat treated alloy steel helical gears
- ▶ Ball bearing construction
- ▶ Stainless steel impeller shaft
- ▶ Mechanical seal
- ▶ 51mm (2") NPT suction
- ▶ 51mm (2") NPT flange on discharge

## 1 1/2AG Performance

568 L/M (150 gpm) @ 5.5 bar (80 psi)  
 379 L/M (100 gpm) @ 13.8 bar (200 psi)  
 132 L/M (35 gpm) @ 20.7 bar (300 psi)



# HM 250, 350, 500 PTO Pump

The HM pump has been a top seller for Darley and throughout the industry for many years due to its compact design, capacity, durability and simplicity in maintenance. The HM is an ideal pump for tanker applications, brush trucks and mini pumpers, and provides excellent pump and roll performance. The compact design also allows it to fit into tight spots in retrofits of existing apparatus. The HM pump is available in three different assembly levels, from the pump only to a fully manifolded offering to meet all needs.

## Applications

- ▶ Mini pumper
- ▶ Tanker
- ▶ Wildland/attack fire

## Uses

- ▶ Single stage
- ▶ Centrifugal

## Features

- ▶ Vertically split, cast iron, bronze fitted pump casing
- ▶ Impeller seal ring opposed design to eliminate end thrust
- ▶ Splined impeller (not keyed) for longer life
- ▶ Oversized, deep groove radial type bearings for longer life
- ▶ 10 tooth splined shaft for durability
- ▶ Helical cut gears

### ASSEMBLY #1

Single stage, centrifugal pump, gearbox assembly, 64mm (2½") NPT discharge, 76mm (3") NPT suction (HM250/350), 102mm (4") NPT suction (HM500)

### DIMENSIONS

HM250/HM350: 381mm (15")L x 279mm (11")W x 457mm (18")H, 58 kg (127 lbs.)

HM500: 406mm (16")L x 279mm (11")W x 457mm (18")H, 64 kg (140 lbs.)

### ASSEMBLY #2

Single stage, centrifugal pump, gearbox assembly, suction elbow, discharge head with check valve, 2 - 64mm (2½") NPT discharge, 3 - 76mm (3") suction (HM250/350), 3 - 102mm (4") victaulic suction (HM500)

### DIMENSIONS

HM250/HM350: 635mm (25")L x 356mm (14")W x 787mm (31")H, 68 kg (150 lbs.)

HM500: 686mm (27")L x 406mm (16")W x 864mm (34")H, 91 kg (200 lbs.)

### ASSEMBLY #3

Single stage, centrifugal pump, gearbox assembly, suction elbow, discharge head with check valve, complete manifolds, discharge valves, adapters and caps, 2 - 64mm (2½") NH ¼ turn ball valves, 2 - 76mm (3") NH suction adapters and caps (HM250/350), 2 - 102mm (4") NH suction adapters and caps (HM500)

### DIMENSIONS

HM250/HM350: 635mm (25")L x Body Width x 788mm (31")H, 148 kg (325 lbs.)

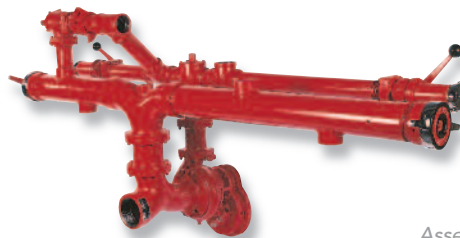
HM500: 686mm (27")L x Body Width x 864mm (34")H, 193 kg (425 lbs.)



Assembly #1



Assembly #2



Assembly #3

### HM 250 Performance

946 L/M (250 gpm) @ 10.3 bar (150 psi)

662 L/M (175 gpm) @ 13.8 bar (200 psi)

473 L/M (125 gpm) @ 17.2 bar (250 psi)

### HM 350 Performance

1325 L/M (350 gpm) @ 10.3 bar (150 psi)

927 L/M (245 gpm) @ 13.8 bar (200 psi)

662 L/M (175 gpm) @ 17.2 bar (250 psi)

### HM 500 Performance

1892 L/M (500 gpm) @ 10.3 bar (150 psi)

1324 L/M (350 gpm) @ 13.8 bar (200 psi)

946 L/M (250 gpm) @ 17.2 bar (250 psi)

## KSP 500, 750, 1000 PTO Pump



Assembly #1

### Dimensions & Weight

- ▶ 457mm (18")L  
x 356mm (14")W  
x 559mm (22")H
- ▶ 98 kg (215 lbs.)

### Applications

- ▶ Pumper
- ▶ Pumper tanker
- ▶ Tanker
- ▶ Wildland/attack fire

### Uses

- ▶ Single stage
- ▶ Centrifugal
- ▶ PTO driven
- ▶ 2 Gear Gearcase

### Features

- ▶ 102mm (4") NPT discharge
- ▶ 127mm (5") or 152mm (6") NPT, weld flange
- ▶ Rotation: engine or opposite engine
- ▶ 1410 lock on yoke
- ▶ Mounting angles

### Options

- ▶ 3 gear transmission

### KSP 500 Performance

1893 L/M (500 gpm) @ 10.3 bar (150 psi)  
1325 L/M (350 gpm) @ 13.8 bar (200 psi)  
946 L/M (250 gpm) @ 17.2 bar (250 psi)

### KSP 750 Performance

2839 L/M (750 gpm) @ 10.3 bar (150 psi)  
1987 L/M (525 gpm) @ 13.8 bar (200 psi)  
1419 L/M (375 gpm) @ 17.2 bar (250 psi)

### KSP 1000 Performance

3785 L/M (1000 gpm) @ 10.3 bar (150 psi)  
2646 L/M (700 gpm) @ 13.8 bar (200 psi)  
1893 L/M (500 gpm) @ 17.2 bar (250 psi)

## PSP 1000, 1250, 1500 PTO Pump

Darley's PSP pump changed the world of pumpers by providing a PTO pump that meets the flow rating used in 85% of pumpers in the U.S. market in a more compact, less expensive and safer offering. Providing ratings from 1000-1500 GPM needed for major fires, the PSP is now our highest selling pump in this size range. It is available with 2 or 3 gear transmission and allows for the addition of a high pressure booster pump or CAFS.



Assembly #1

UL Ratings to 1500 with the Allison EVS transmission

### Dimensions & Weight

- ▶ 457mm (18")L  
x 457mm (18")W  
x 584mm (23")H
- ▶ 157 kg (345 lbs.)

### Applications

- ▶ Aerial
- ▶ Crash fire rescue
- ▶ Industrial
- ▶ Pumper
- ▶ Pumper tanker
- ▶ Rescue pumper
- ▶ Tanker

### Uses

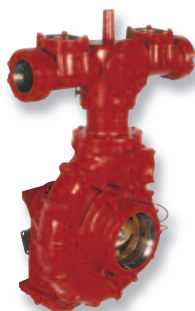
- ▶ Single stage
- ▶ Centrifugal
- ▶ PTO driven

### Features

- ▶ 102mm (4") NPT discharge
- ▶ 127mm (5") or 152mm (6") NPT, weld flange
- ▶ Vertically split, cast iron, bronze fitted pump casing
- ▶ Rotation: engine or opposite engine
- ▶ Mechanical seal
- ▶ Oversized, deep groove radial type bearings for longer life

### Optional Configurations

- ▶ Discharge manifold
- ▶ Sweep suction T with 2 - 152mm (6") inlets
- ▶ Available as 2-gear or 3-gear transmission



Assembly #2



Silicon Carbide Mechanical Seal

### PSP 1000 Performance

3785 L/M (1000 gpm) @ 10.3 bar (150 psi)  
2646 L/M (700 gpm) @ 13.8 bar (200 psi)  
1893 L/M (500 gpm) @ 17.2 bar (250 psi)

### PSP 1250 Performance

4731 L/M (1250 gpm) @ 10.3 bar (150 psi)  
3312 L/M (875 gpm) @ 13.8 bar (200 psi)  
2365 L/M (625 gpm) @ 17.2 bar (250 psi)

### PSP 1500 Performance

5678 L/M (1500 gpm) @ 10.3 bar (150 psi)  
3974 L/M (1050 gpm) @ 13.8 bar (200 psi)  
2839 L/M (750 gpm) @ 17.2 bar (250 psi)

# PSM 1000, 1250, 1500 Midship Pump

The compact design means a lighter weight and smaller pump compartment, thus making more valuable space available on the truck. Darley did not cut corners in the design of this highly efficient pump with flows in excess of 1800 gpm from draft, and features the same durable MagnaTrans™ gearbox as our popular LDM pump. The PSM will provide years of reliable service, but in the event the pump does need service, the design allows for the quick access to the pump. The optional discharge check valve (pictured in assembly #2) allows for fast priming. The PS Series pump has been the choice of thousands of departments around the world – confidence you can count on.

## Dimensions & Weight

- ▶ 838mm (33")L x 483mm (19")W x 787mm (31")H
- ▶ 300 kg (660 lbs.)

## Applications

- ▶ Aerial
- ▶ Pumper
- ▶ Pumper tanker
- ▶ Rescue pumper
- ▶ Tanker

## Uses

- ▶ Single stage
- ▶ Centrifugal
- ▶ Single suction impeller
- ▶ Midship mounted

## Features

- ▶ 127mm (5") NPT or weld discharge
- ▶ 152mm (6") NPT or weld flange suction
- ▶ 1610 or 1710 full round yokes standard
- ▶ Air shift

## Options

- ▶ Electric over air shift
- ▶ Mechanical seal
- ▶ Discharge manifold and suction tee (Pictured)
- ▶ Available with complete manifold and fully manifolded pump - Assembly #3
- ▶ Available as a PSMH high pressure pump

## MECHANICAL SEAL

Made with silicon carbide stationary face which is extremely hard and heat dissipative resisting wear and dry running damage. Optional injection packing available.

## MAGNATRANS™ GEARBOX

19,230 ft. lb. rating helical cut gears for smooth, quiet operation. AutoCool™ means no freezing problems. Chamfered sliding clutch for positive engagements.

### PSM 1000 Performance

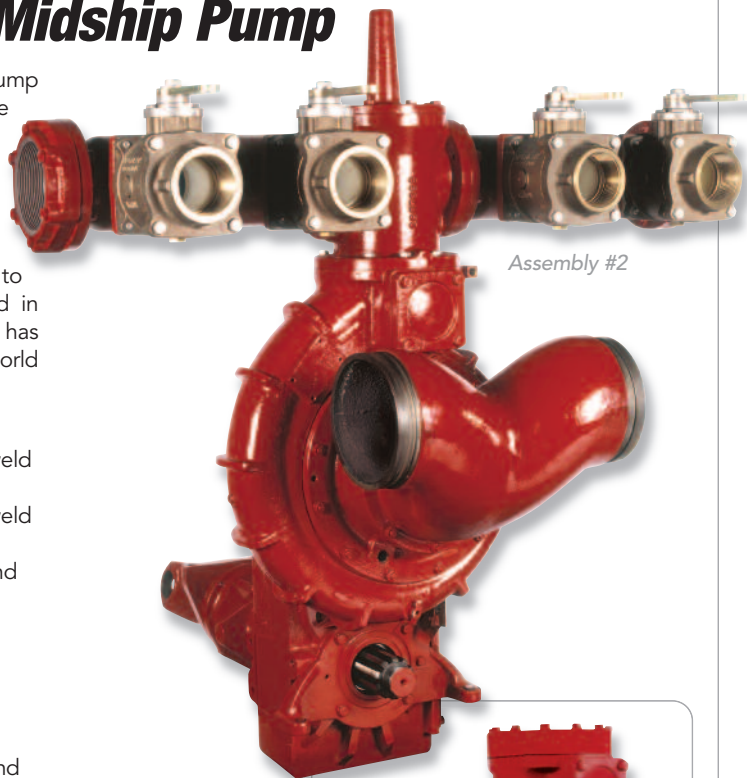
- 3785 L/M (1000 gpm) @ 10.3 bar (150 psi)
- 2646 L/M (700 gpm) @ 13.8 bar (200 psi)
- 1893 L/M (500 gpm) @ 17.2 bar (250 psi)

### PSM 1250 Performance

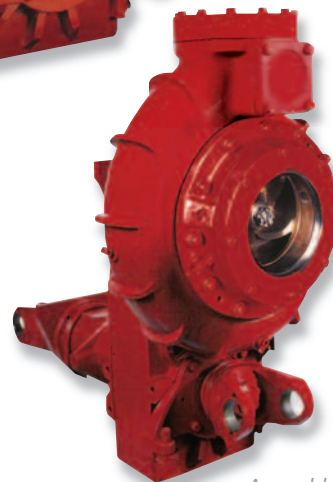
- 4731 L/M (1250 gpm) @ 10.3 bar (150 psi)
- 3312 L/M (875 gpm) @ 13.8 bar (200 psi)
- 2365 L/M (625 gpm) @ 17.2 bar (250 psi)

### PSM 1500 Performance

- 5678 L/M (1500 gpm) @ 10.3 bar (150 psi)
- 3974 L/M (1050 gpm) @ 13.8 bar (200 psi)
- 2839 L/M (750 gpm) @ 17.2 bar (250 psi)



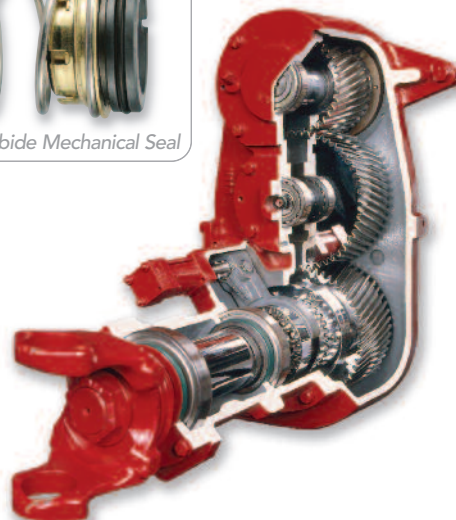
Assembly #2



Assembly #1



Silicon Carbide Mechanical Seal



MagnaTrans™ Gearbox

# UHP-HV® Gas

Ultra High Pressure - High Volume



The UHP-HV® (Ultra High Pressure-High Volume) module offers the best of both worlds for the wildland-urban interface. Darley has combined our versatile direct-drive 2BE pump and the CAT 7CP high pressure piston pump to meet all your firefighting needs in one compact package. Main pump can be used for water transfer or for 38mm (1½") hose for structural attacks while the belt driven CAT can produce low flow high pressure flows in excess of 1300 psi with optional foam through the 13mm (½") HP hose.

## Engine

- ▶ Vanguard: 23 HP, 2BE direct drive pump

## Dimensions & Weight

- ▶ 1168mm (46")W x 622 (24.5")H x 813mm (32")D
- ▶ 258 kg (569 lbs.)

## Uses

- ▶ Single stage, centrifugal main pump
- ▶ Single stage, piston high pressure pump

## Features

- ▶ CAT 7CP high pressure piston pump with foam injection
- ▶ High pressure pump belt drive system
- ▶ High volume Darley 2BE pump
- ▶ Keyed impeller and shaft
- ▶ Oversized bearing for longer life
- ▶ Exhaust primer
- ▶ Powder coated aluminum frame
- ▶ Electric rewind Hannay Reel with 61m (200') of 13mm (½") hose, full capture leads
- ▶ All stainless plumbing
- ▶ Dual Strike Gun with holster (6m (20') effective discharge)
- ▶ High pressure nozzle plus foam capability assist in wildfire mop-up and hot-spot turnover

## Applications

- ▶ Wildland
- ▶ Water transfer
- ▶ Structural attack

## Individual Flows

### UHP

30 L/M (8 gpm) @ 82.7 bar (1200 psi)

### 2BE23V

1040 L/M (275 gpm) @ 3.8 bar (55 psi)

662 L/M (175 gpm) @ 6.9 bar (100 psi)

170 L/M (45 gpm) @ 9.7 bar (140 psi)

## Simultaneous Flows

### UHP-HV®

11 L/M (3 gpm) @ 41.4 bar (600 psi)

13 L/M (3.5 gpm) @ 53.8 bar (780 psi)

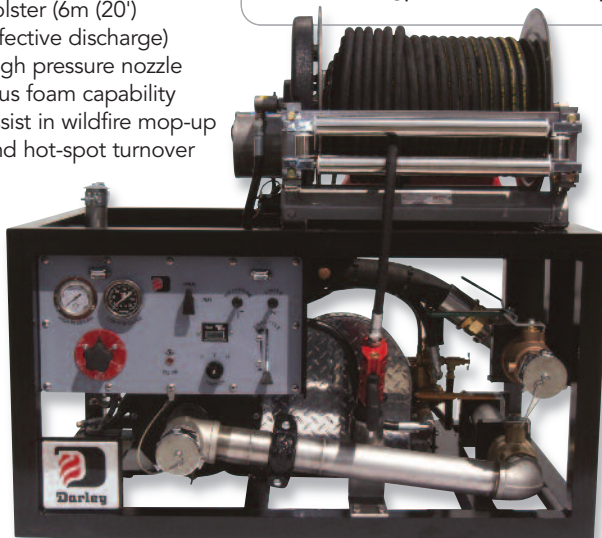
15 L/M (4 gpm) @ 72.4 bar (1050 psi)

### 2BE23V

946 L/M (250 gpm) @ 3.1 bar (45 psi)

606 L/M (160 gpm) @ 5.5 bar (80 psi)

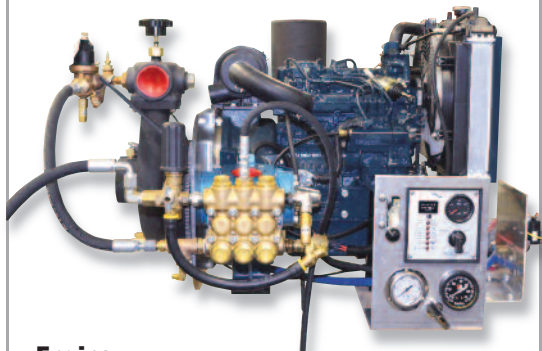
114 L/M (30 gpm) @ 8.6 bar (125 psi)



The UHP-HV® utilizes our patented ODiN® drive system driving our 2BE high volume pump and a high pressure CAT piston pump.

# UHP-HV® Diesel

Ultra High Pressure - High Volume



## Engine

- ▶ Kubota D902: 24 HP diesel engine @ 3600 rpm



## Dimensions & Weight

- ▶ 889mm (35")L x 1041mm (41")W x 668mm (26.3")H
- ▶ 200 kg (441 lbs.)

## Specifications

- ▶ Darley 2BE direct drive pump
- ▶ 76mm (3") intake with BSP threading
- ▶ 38mm (1½") discharge with BSP threading
- ▶ Keyed impeller and shaft
- ▶ High pressure pump belt drive system
- ▶ Bronze impeller and seal rings
- ▶ Oversized bearing for longer life
- ▶ CAT 7CP high pressure piston pump

## Applications

- ▶ Wildland
- ▶ Structural firefighting
- ▶ Water transfer
- ▶ Vehicle fires
- ▶ Mop up

## Features

- ▶ Weight savings
- ▶ Cost savings
- ▶ Extended water life
- ▶ Multi-purpose pumping
- ▶ Space savings
- ▶ Easy operation
- ▶ Foam capabilities



UHP-HV® diesel in frame

## High Volume

1125 L/M (300 gpm) @ 2 bar (30 psi)

750 L/M (200 gpm) @ 7 bar (100 psi)

375 L/M (100 gpm) @ 9 bar (130 psi)

## High Pressure

30 L/M (8 gpm) @ 82.7 bar (1200 psi)