

MODULAR FIREPAK 600

Lay-out



Description

MODULAR FIREPAK 600 fire water pumping unit in a protection frame, consisting of a diesel engine close-coupled to a fire water pump by means of a flexible coupling. The skid is designed with an integrated fuel tank inside the base frame with a capacity suitable for 6 hours running at 100% duty performance. Both the diesel engine and pump are mounted on the base frame by means of rubber anti vibration dampers. The unit is designed with an outer protective cage to form one complete strong and stiff unit structure. On top of the Firepak a manually operated fire water monitor is mounted with a throw distance of 100 meters.

The diesel engine is cooled by the water derived from the fire water pump. This cooling water is later injected in the exhaust gas manifold.

The Firepak 600 is easily handled by lifting lugs on top the unit and fork lift openings in the base frame.

Application

The **MODULAR FIREPAK 600** unit is designed for on- / offshore purposes and marine applications.

Dimensions

Gross weight:	± 2.800 kg (incl. fuel)
Length:	± 2.000 mm
Width:	± 1.200 mm
Height:	± 2.600 mm (incl. monitor)
Capacity fuel tank:	± 480 ltr
Fuel consumption:	± 40 ltr/hr (at full load)

Diesel engine

Make:	Volvo Penta	Type:	TD 120
Power:	256 kW	Speed:	1.800 rpm
Bore:	130 mm	Stroke:	150 mm
Turbo:	Single, shielded	Rotation:	CCW
Speed control:	Mechanical governor	Cooling:	(Sea) water cooled heat exchanger

Fire water pump

Make, design:	Nijhuis, end suction	Type:	NCD1-150.520
Capacity:	600 m ³ /hr	Discharge head:	100 mwc
Power required at duty point:	± 240 kW (s/w 1.025 kg/m ³)	Pump efficiency:	70 %
NPSH _i :	4.2 mlc	Suction Height	Max. 4.5 / 5 meter
Shaft speed:	1.800 rpm		
Pump house material:	Ductile cast iron	Impeller material:	Aluminium bronze

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Pump shaft material	Stainless steel	Gland sealing:	Lip seal or soft packing
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Connections

Suction connection:	3x suction hose 6" incl. foot valves
Exhaust:	2x wet exhaust hose 6"

Monitor

Capacity:	600 m ³ /hr
Throw distance (elevation 30°):	>100 meters
Control:	Manually operated
Monitor materials:	Light alloy / stainless steel

Optional

Marine class "witness on performance" certificate

NOTE: Non-binding data sheet; Hydrodiesel reserves the right to select components of equal quality and performance.