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Commercial Information
The Art of Powerful Cleaning...

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Title: Airblast High Pressure Water Cleaning Unit

ABHP 150 Electric / Diesel Skid Mounted



Picture shows ABHP 150D diesel units, in a galvanised box frame with roof, 4 hoisting lugs and hose rack, executed with a "Judo" filter

Specification:

A horizontal, 3-plunger high pressure pump, type Kamat-K11032 equipped with:

- stainless steel stuffing glands
- stainless steel stuff boxes
- ceramic plungers, interchangeable for larger and smaller capacities without de-mounting the pump head
- oil temperature switch
- stainless steel pump head, suitable for 9 plunger sets up to 1500 bar
- high pressure gauge 0-1000 bar, filled with glycerine
- multiple discharge manifold
- a safety valve setting 515 bar + 15%
- manual operated constant adjustable pressure regulator

Capacity data:

Plunger size : Ø = 32 mm
Rate of flow : Q_{th} = 110 l/min
Max. operating pressure : P = 515 bar
Med./Max. temperature : W.T = water / 60 °C
Power consumption : N = 150 hp / 110 kW
Crank shaft : N₂ = 435 r.p.m.

The minimal required booster pressure for the high-pressure pump is 3 bar.

Suction line:

Suction line in stainless steel with Storz coupling automatic derating and suction stream stabilising pipes on both sides up the HP pump inlet channel.

The following conversion kits are available:

<u>Pump Type</u>	<u>Plunger mm</u>	<u>Flow L/min</u>	<u>Pressure Bar</u>
K11018	18 mm	34	1500
K11020	20 mm	42	1340
K11022	22 mm	51	1100
K11024	24 mm	62	920
K11026	26 mm	72	785
K11028	28 mm	84	675
K11030	30 mm	96	590
K11032	32 mm	110	515
K11036	36 mm	139	400

The pump is driven by means of an elastic coupling with guarding through:

An electric motor (ABHP 150 E):

Build size	:	= B 3
Type of enclosure	:	= IP 55
Insulation class	:	= F
Drive performance	:	= 110 kW
Number of revolutions	:	= 1500 r.p.m.
Frequency	:	= 50 HZ
Voltage	:	= 400 Volt

Steel motor switch case, includes:

- main switch
- star / delta switch
- thermal overload safety device
- hour counter
- on / off button
- emergency stop
- motor switch build-up and equipped with cables between E-motor and the switch

The unit is safeguarded with (fail safe):

- too high oil temperature of the high pressure pump
- low water booster pressure/ no water for the high pressure pump

The motor stops at disturbance.

A diesel engine (ABHP 150 D):

A Deutz 6 cyl. air-cooled diesel engine type Deutz BF6L913 CPerformance:120 kW at 2150 r.p.m.

Engine equipped with:

- electric starter system with batteries and cables
- exhaust system with silencer
- fuel system with fuel booster pump and tank

Control panel in steel case with:

- revolutions meter
- start/stop button
- hour counter
- emergency stop

Control panel build-up and equipped with cables between the motor pump and panel.

The unit is safeguarded with (fail safe):

- too high oil temperature of the high pressure pump
- low water booster pressure/ no water for the high pressure pump
- engine oil low pressure
- too high engine temperature

The motor stops at disturbance.

General:

All components mounted on a galvanised frame.

Standard set accessories:

- 2x 100 meter ½" high pressure hose (working pressure 665 bar) with couplings
- 2x High pressure guns SP560 (working pressure 560 bar) incl. lances 700 mm, nozzle adapter, nozzle with diameter 1,7 mm (gives a reaction force of ca. 25 kg), hose connection couplings.
- 1x English spare parts list and instruction manual
- 1x CE-certificate

Options:

Galvanised box frame

All components mounted on a galvanised box frame with roof and 4 hoisting lugs and hose rack.

Trailer: The unit is mounted on a trailer, suitable for transport

- on the yard only, equipped with:
- hard wood trailer deck
- triangle with towing eye
- locking device
- solid rubber tires

Semi-automatic Judo Filter



Booster Pump



Booster pump to ensure a minimum booster pressure driven by means of one V-belt, an automatic V-belt tension system and a V-belt guarding.

Noise isolation case (available on request, only for diesel driven execution).