

Product: Flexline 306

Bucher Municipal is pleased to offer you the following quotation for the supply and delivery of one (1) Flexline 306 mounted on the Hino FM2632 6x4 Chassis.



Technical Specifications

TANK

Volume

Approx. 6 m³.
Approved for 0.5 bar positive pressure and 90% vacuum respectively, according to EU directive no. 2014/68/EU article 4, paragraph 3.

Movable partition

The tank is equipped with a movable partition, which can be locked in two pre-set positions. The partition divides the tank into two compartments of flexible size.
The locking bolts (one set) fixing the partition in the pre-set position is manually operated.
The partition is moved pneumatically by pressure/vacuum created by the compressor.
An air-pressurised gasket is fitted in the partition to ensure that the sludge is kept separate from the water. The pressure in the gasket is controlled from the control panel.

End cover	A fully automatic end cover hydraulically operated.
Manhole	One manhole placed on top of the tank.
Ball valves	<p>One 4" top suction valve pneumatically operated and one 4" bottom suction valve manually operated.</p> <p>Inside the tank, the top suction valve is fitted with a vertical pipe, which takes the incoming sludge to the top of the tank.</p> <p>Both valves are equipped with couplings for suction hoses, including blinds.</p>
Sloped tray	Light material and water is emptied through the bottom valve by pressurising the sludge compartment. Heavy material is emptied through the open end cover by means of the partition pushing out the material onto the sloped tray.
Tank level indicators	<p>A sludge level indicator with pointer. The pointer is connected to a float ball placed in the end of the sludge compartment.</p> <p>A water level indicator made of a transparent hose. A red ball in the hose indicates the water level.</p> <p>Electronic measurement of jetting water level in the front tank, with indicator lamps in the control panels.</p>
Dewatering	Sludge dewatering coarse filter on top suction.
Bottom emptying	2" bottom pneumatic empty valve with pipe led to terrain under the vehicle.
HIGH-PRESSURE UNIT	
Type	Urac P3-15
Capacity	<p>207 l/min at 160 bar</p> <p>Control of pressure and flow from the control panel.</p>
Hose reels	One hydraulically operated hose reel with 150 m 3/4" thermoplastic jetting hose and hydraulic swivel.
NDD pump type	Udor CKC 17/28
Capacity	<p>17 l/min @ 280 bar</p> <p>Control of pressure and flow from the control panel</p>
NDD hose reel	One manual 25 m 3/8" hose reel with spring retraction
Protection of pump	<p>A water filter mounted on the suction side of the pump protects the pump.</p> <p>The pump is automatically switched off when the amount of water in the tank is reduced to a min. level. The operator may, however, use the remaining</p>

water by manually activating the switch on the control panel. The running hours of the high-pressure pump is registered on an hour counter on the control panel.

Water filling

Water filling is mounted on the left side of the tank and equipped with a ball valve. The pipe is fitted with free fall air gap.

VACUUM UNIT**Type**

CVS Vacustar WR 3100
Liquid ring pump, with intercooler.

Capacity

Max capacity 51.667 l/m ≈1825 cfm at free flow
Max 87 % vacuum.

Protection of compressor

A filter unit in the pipe system protects the compressor. Two mechanical float valves, one placed in the top of the end cover and one placed inside the secondary shut off., prevent the sludge from entering the pump in case of the tank being full.

Piping

5" The piping for the vacuum pump is fitted with a 4-way valve that makes it possible to switch from vacuum to pressure.

Cassette system for 6" suction hose

A system for easy operation and positioning of the suction hose.
The cassette is mounted on top of the tank in the full length of it. The suction hose fits inside the cassette and forms a u-curve when drawn back for storage. Limit switches ensure the correct operation of the hose.
The hose is pulled and drawn by means of a hydraulically operated roller system mounted as an integrated part of the cassette.
At one end of the cassette, the hose is connected to the top of the sludge tank through a socket and the pneumatically operated cassette suction valve.
At the other end of the cassette, the hose guided by rollers continues over the large jetting hose reel. This allows both the jetting hose reel and the suction hose to be easily positioned above the manholes in the sewer system.
The suction hose may be lowered 3-4 m below surface. The end of the suction hose is fitted with a coupling that allows different equipment such as hose extensions, nozzles, etc. to be connected to the suction hose.
The cassette has a hydraulic boom which allows 2000 mm extension and 1600 mm lift.

TRANSMISSION**PTO**

The unit is driven via one or more PTO from engine and gearbox.

Jetting pump

Hydraulic driven.

Vacuum pump

Hydraulic driven.

CONTROL

PLC

The unit is equipped with a BUS-based PLC

Control panels

The complete operation of the sewer cleaning tanker (vacuum pump, high-pressure pump, position of partition, etc.) is carried out from the control panels. One control panel is mounted at the back of the tanker and one on the side.

The control panels are made of stainless steel and equipped with covers.

All buttons are equipped with English texts.

Pneumatics

Reverser for pressure/vacuum, front/rear tank, bottom drainage for the front compartment, partition, water filling, top suction and suction valve on cassette.

Radio

Scanreco radio with remote control

LIGHTS AND REFLEXES

Work lamps

5 pcs. work lamp, LED.

Flash lights

2 pcs. LED flash lights mounted rear.

Flash bar

LED flash bar mounted on cabin roof.

Sidelights

6 pcs. sidelights with built-in reflectors, LED.

Reflectors

Reflector bar and reflectors rear. Reflectors according to ADR conspicuity marking.

CABINETS AND SHELVES

Cabinets

One double cabinet made of aluminium, placed at the rear end left-hand side. Fitted with hand wash facility with tempered water tap and dispenser for paper towels and soap.

One tool cabinet placed at the rear end left-hand side.

Shelves

One hose shelf with rails placed on the right-hand side.

One hose shelf with rails placed on the left-hand side.

One tool shelf with bottom drainage placed on the right-hand side and one on the left-hand side.

Material

All cabinets and shelves are made of aluminium.

Cone holder

Placed near the bumper, right hand side.

CHASSIS

Type

HINO 6X4 supplied by Bucher Municipal Pty Ltd.

Mudguard	Original mudguards from chassis supplier. (Part of chassis supply)
Cyclist protection bar	One cyclist protection bar on each side. (Part of chassis supply)
Battery circuit breaker	Battery circuit breaker button in the dashboard. (Part of chassis supply)
Grilles	The tail lights are equipped with grilles for protection.
Exhaust	The exhaust pipe is led to the top. (Part of chassis supply)

ACCESSORIES

Nozzles	One ¾" Nozzle set 1001540
Vice	Detachable vice with fixation rear
Hose	1,5m 3" hose with coupling for filterunit cleaning. Blow out air hose with couplings for jetting system draining.
Reductions	1 pcs Camlock reduction 6" male to 4" female.
Cover hooks	1 set of cover hooks
Suction pipe	6" cassette suction pipe included.
Safety support	1 pcs end cover safety support.
NDD jetting gun	Hand gun with 2 m lance and Roto-jet nozzle

CONNECTIONS

Air	½" pneumatic quick coupling
Transport reel hose	NA
Cassette suction hose	6" Camlock male coupling
Top suction	4" Camlock male coupling with blind
Bottom suction	4" Camlock male coupling with blind
Transfer/recycling pump	NA
Water drain front compartment	NA
Water filling	2" Camlock coupling
Vacuum pump exhaust	NA

FINISH

Undercarriage, chassis	Colour: Grey (Part of chassis supply)
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Undercarriage, components

Colour: Anthracite grey RAL 7016

Cabin

Colour: Ivory white (Part of chassis supply)

Tank

Colour: Ivory white

Cabinets and shelves

Colour: Ivory white with roller shutter doors in anodised aluminium

Sign plates

Aluminium sign plate each side of the tank and one at the back.

Text and striping

Possible text and striping will be invoiced separately.

APPROVALS

General

JHL vehicles are CE-marked
JHL vehicles are furnished with product liability insurance.