



Technical Specification

Bucher Municipal SuperFlex 412

TANK

Volume	12 m ³ water and/or sludge. Approved for 1,0 bar positive pressure and 87% vacuum respectively, according to EU directive no. 97/23/EEC. (PED)
Movable partition	<p>The tank is equipped with a movable partition, which can be locked in three pre-set positions. The partition divides the tank into two compartments of flexible size.</p> <p>The locking bolts fixing the partition in the pre-set positions are pneumatically operated.</p> <p>The partition is moved pneumatically by pressure created by the compressor.</p> <p>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.</p>
End cover	A fully automatic end cover hydraulically operated.
Manhole	One manhole placed in the partition.
Ball valves	One 6" top suction valve pneumatically operated and one 6" bottom suction valve pneumatically operated. Inside the tank, the top suction valve is fitted with a vertical pipe, which takes the incoming sludge to the top of the tank. Both valves are equipped with Camlock couplings.
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>
Drainage pipe	The unit is equipped with a drainage pipe for draining of excess water from the sludge compartment.

HIGH-PRESSURE UNIT

Type	Urac KD 718 G.
Capacity	333 litres per minute at 170 bar Control of pressure and flow from the control panel.
Hose reels	One hydraulically operated hose reel with 180 m 1" thermoplastic jetting hose, hydraulic swivel. One hydraulically operated hose reel with 50 m ¾" and 60 m ½" thermoplastic jetting hose, hydraulic swivel.
Protection of pump	A water filter mounted on the suction side of the pump protects the pump. The pump is automatically switched off when the amount of water in the tank is reduced to a minimum level. The operator may, however, use the remaining 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	The water filling pipe is mounted on the left side of the tank and equipped with a ball valve – free fall.

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. 6" piping.

Cassette system

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 cassette hose is 6". The suction hose fits inside the cassette and will form a u-curve when it is pulled out of the cassette or drawn back into it. 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 and the suction hose to be easily positioned above the manholes in the sewer system. After passing the reel, the hose is mounted in a double telescopic arm.

The 6" suction hose may be lowered 8-10 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 hose is fitted with a 6" Camlock coupling.

The cassette has a hydraulic hose arm which allows 2000 mm extension and 1600 mm lift.

Compressor

CVS RSL 400

Capacity

6.000 litres/min, 1.0 bar over pressure.

2" piping for emptying and moving partition. 2" coupling for air injection. Air injection nozzle and 20m 2" injection hose.

TRANSMISSION**PTO**

Semi-hydraulic transmission. The unit is driven via power take-off. From the PTO power is transferred to the countershaft via a cardan drive. The V-belt pulley is placed on the countershaft powering the high-pressure pump. The oil pump is placed at the end of the countershaft powering auxiliary functions.

Engine PTO with hydraulic pump.

Auxiliary hydraulics For powering of suction cassette, end cover, hose reels, etc.

Cooling system The hydraulic system is fitted with an extra cooling system which ensures continuous operation in tropical conditions.

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 front/rear tank, feed pipe for the high-pressure pump, jetting valve, bottom drainage for the front compartment, partition, water filling and cassette shut-off valve, locking pins and 2 pcs. Of suction valves.

Remote Control 12 function Scanreco remote control

LIGHTS AND REFLECTORS

Work lamps 5 pcs. work lamp, LED

Beacon lights 4 pcs. beacon lights.

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

CABINETS AND SHELVES

Cabinets Two double cabinets made of aluminium, placed at the rear end, left-hand side. The rear most cabinet is fitted with hand wash facility with hot water tap and dispenser for paper towels and soap.

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 tool shelf in front of the cabinets on the left-hand side. Aluminium shelves and cabinets are made of aluminium.
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CHASSIS

Type	Scania R400 LB 8X4 chassis with medium day cab CR16 to be delivered by J. Hvidtved Larsen, see specification below.
Mudguard	Mudguards on all axles made of plastic, original Scania.
Cyclist protection bar	One cyclist protection bar on each side made of aluminium.
Grilles	In front of rear lights.

FINISH

Undercarriage	Colour: Scania sub grey 95
Cabin	Colour: Ivory white
Tank	Colour: Ivory white
Cabinets and shelves	Cabinets and shelves are anodised.
Sign plates	One aluminium sign plate on each side of the tank and one at the back of the tank. Anodised and painted.
Text and striping	Possible text and striping to be agreed and invoiced separately.

ACCESSORIES

Bench vice	Bench vice mounted above the ¾" jetting hose reel.
Suction pipe	6" cassette suction pipe included.
Nozzles	One ½" and 5/4" mixed ENZ nozzle set 430972A for clean water

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The current Bucher international locations.

