

Vacuum tankers AKN-16 KAMAZ-65111

от **0 р**



Варианты комплектации

AKN-16

- **pump KO-505 (310 m³/h, Russia),**
- solid cistern,
- one vacuum filler pipe,
- operating mini-platform for filler pipe maintenance,
- cistern fixation with molded sheeting,
- KAMAZ-65111 (engine 300 h. p., gearbox ZF9, no sleeping berth, spare wheel bracket on a rear overhang)

цена по
запросу

AKN-16 M	<ul style="list-style-type: none"> • pump KO-505 (310 m³/h, Russia), • cistern with a back access cover (DN-500), • one vacuum filler pipe, • operating mini-platform for filler pipe maintenance, • cistern fixation with molded sheeting, • KAMAZ-65111 (engine 300 h. p., gearbox ZF9, no sleeping berth, spare wheel bracket on a rear overhang) 	цена по запросу
AKN-16 OD	<ul style="list-style-type: none"> • pump KO-505 (310 m³/h, Russia), • cistern with a full-size mechanically opened back end, • vacuum and additional filler pipes, • full-size operational platform for filler pipe maintenance, • belt fixation of cistern or fixation with molded sheeting, • heating of the footvalve with an IC-engine exhaust system, • plastic cases for fire extinguishers, • KAMAZ-65111 (engine 300 h. p., gearbox ZF9, sleeping berth, spare wheel bracket on a rear overhang) 	цена по запросу
AKN-16 ODM	<ul style="list-style-type: none"> • pump KO-505 (310 m³/h, Russia), • cistern with a full-size mechanically opened back end, • vacuum and additional filler pipes, • full-size operational platform for filler pipe maintenance, • belt fixation of cistern or fixation with molded sheeting, • heating of the footvalve with an IC-engine exhaust system, • plastic cases for fire extinguishers, • instrument boxes on the back-end of cistern, • 4 types of workplace illumination around the vehicle, • KAMAZ-65111 (engine 300 h. p., gearbox ZF9, sleeping berth, spare wheel bracket on a rear overhang) 	цена по запросу

AKN-16	<ul style="list-style-type: none"> • pump HBP-8/5 (480 m³/h, Russia), • solid cistern, • one vacuum filler pipe, • operating mini-platform for filler pipe maintenance, • cistern fixation with molded sheeting, • KAMAZ-65111 (engine 300 h. p., gearbox ZF9, no sleeping berth, spare wheel bracket on a rear overhang) 	цена по запросу
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AKN-16	<ul style="list-style-type: none"> • pump BK-6M2 (240 m³/h, explosion-proof, Russia), • solid cistern, • one vacuum filler pipe, • operating mini-platform for filler pipe maintenance, • cistern fixation with molded sheeting, • KAMAZ-65111 (engine 300 h. p., gearbox ZF9, no sleeping berth, spare wheel bracket on a rear overhang) 	цена по запросу
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AKN-16 ODM

- **pump BK-6M2 (210 m³/h, explosion-proof, Russia),**
- cistern with a full-size mechanically opened back end,
- vacuum and additional filler pipes,
- full-size operational platform for filler pipe maintenance,
- belt fixation of cistern or fixation with molded sheeting,
- heating of the footvalve with an IC-engine exhaust system,
- plastic cases for fire extinguishers,
- instrument boxes on the back-end of cistern,
- 4 types of workplace illumination around the vehicle,
- KAMAZ-65111 (engine 300 h. p., gearbox ZF9, sleeping berth, spare wheel bracket on a rear overhang)

цена по
запросу

AKN-16

- **pump PNR-122 (730 m³/h, explosion-proof, Russia),**
- solid cistern,
- one vacuum filler pipe,
- operating mini-platform for filler pipe maintenance,
- cistern fixation with molded sheeting,
- KAMAZ-65111 (engine 300 h. p., gearbox ZF9, no sleeping berth, spare wheel bracket on a rear overhang)

цена по
запросу

AKN-16 M

- **pump PNR-122 (730 m³/h, explosion-proof, Russia),**
- cistern with a back access cover (DN-500),
- one vacuum filler pipe,
- operating mini-platform for filler pipe maintenance,
- cistern fixation with molded sheeting,
- KAMAZ-65111 (engine 300 h. p., gearbox ZF9, no sleeping berth, spare wheel bracket on a rear overhang)

цена по
запросу

AKN-16 OD

- **pump PNR-122 (730 m³/h, explosion-proof, Russia),**
- cistern with a full-size mechanically opened back end,
- vacuum and additional filler pipes,
- full-size operational platform for filler pipe maintenance,
- belt fixation of cistern or fixation with molded sheeting,
- heating of the footvalve with an IC-engine exhaust system,
- plastic cases for fire extinguishers,
- KAMAZ-65111 (engine 300 h. p., gearbox ZF9, sleeping berth, spare wheel bracket on a rear overhang)

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- **pump PNR-122 (730 m³/h, explosion-proof, Russia),**
- cistern with a full-size mechanically opened back end,
- vacuum and additional filler pipes,
- full-size operational platform for filler pipe maintenance,
- belt fixation of cistern or fixation with molded sheeting,
- heating of the footvalve with an IC-engine exhaust system,
- plastic cases for fire extinguishers,
- instrument boxes on the back-end of cistern,
- 4 types of workplace illumination around the vehicle,
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цена по
запросу

Полные характеристики

Tanker specification

Capacity, cubic meter	16
Cross-section form	circle
The number of sections	1
Bottom opening	mechanical/not (depends on configuration)
Steel grade	09G2S (09Г2С) (low-allow steel with a minimum thickness of 4 mm)
Side framing	eternal frame
Tanker and chassis fixation	Belt fixation ("fixed type") or Technological support ("main support")

Installed pumps specification

Characteristic	KO-505	PNR-122	PVT-200	PVT-400	BK-6M2	BP-8/3
Delivery volume, m³/h	310	740	1200	1500	240	480
Continuous work time, h	1					
Pump efficiency, %	80-90	92	92	92		
Rotating speed, rpm	1150	1300	3000-4500	3000-4500	1500	26
Self-suction lift, m	4					
Peak underpressure	0,085 MPa	92%	0,0037 MPa	0,0037 MPa	0,0039 MPa	
Peak pressure, bar	0,6	2	2	2	1,5	2,93
Pump power, kW	9	19	38	38	22	22
Peak heating, °C	80	150	90	90	-	-
Mass, kg	125	177	160	240	530	170

Tanker vacuum equipment

Pump drive	PTO-driven / additional engine dependent PTO / hydraulic drive / drive shaft
Delivery-suction hoses	2 pcs., DN 75 mm, length 6 meters
Cases for hoses packaging	Metal cases at both sides of tanker; length 4 m; width 0,48 m
Vacuum unit protecting components	The first shutdown valve in a filler pipe, the second shutdown valve in a receiver, vacuum valve (-0,8 kg/cm ²), pressure relief valve (0,4 kg/cm ²), max level sensor MS DUG11-N-10 with chassis engine cut-off.

KAMAZ-65111 chassis specification

Model	
Auxiliary equipment	Power take off (PTO), Towing hitch (depending on specification)
Brakers	
Brake lining width, mm	140
Dimensions: drum Ø, mm	400
Drive	pneumatic
Cab	
Configuration	day-cab

Type	high or low roof, over the engine (depends on truck configuration)
Characteristic of gvw vehicle	
Climbing angle, no less, %	18 (10°)
Maximum speed, no less, km/h	80
Outer turning radius between walls, m.	11,3
Clutch	
Actuation	hydraulic, with pneumatic booster
Type	diaphragm, single-disk, mod. ZF&SACHS MF 430
Electrical equipment	
Batteries, V/A hour	2x12/190
Generator, V/W	28/3000
Voltage, V	24
Engine	
Cylinder arrangement and number	V-shaped, 8
Cylinder Ø and piston stroke, mm	120/130
Degree of compression	17,9
Engine displacement, L	11,76
Fuel feed system	Common Rail
Maximum net horsepower, kW (h. p.)	206 (280)
at crankshaft rotation speed, rpm	1900
Maximum net torque, Nm (kgfm)	1177 (120)
at crankshaft rotation speed, rpm	1300
Model	740.662-280
Type	turbocharged diesel, with aftercooling
Final drive	
Ratio	4,98 or 5,43 (depending on specification)
Transfer case	
Control	pneumatic
Type	mechanical, two-speed with interlocking differential
Fuel system	
Fuel tank capacity, L	210 or 210+210 or 210+350 (depending on specification)
Transmission	
Control	mechanical, remote control

Gear ratios	мод. ZF 9S1310: 1-9,48; 2-6,58; 3-4,68; 4-3,48; 5-2,62; 6-1,89; 7-1,35; 8-1,00; 9-0,75; 3X-8,97 мод. KAMAZ-154: 1-7,82-6,38; 2-4,03-3,29; 3-2,50-2,04; 4-1,53-1,25; 5-1,000-0,815; 3X-7,38-6,02
Number of gears	9
Weight characteristics and loads	
Chassis curb weight, kg	8625/*8275/**8925 (depending on specification)
Front axle load, kg	4475/*4275/**4565
Rear axle load, kg	4150/*4000/**4360
Gross combination weight, kg	38200
Gross trailer weight, kg	13000
Gross vehicle weight, kg	25200
Rear trailer bogie load, kg	19000
Front axle load, kg	6200
Permissible mass of superstructure with load, kg	16575/*16925/**16275 (depending on specification)
Wheels and tyres	
Rim size	7,5-20 or 8,25-22,5 (7,5-22,5) (depending on specification)
Tyre size	11.00 R20 or 11.00 R22,5 (depending on specification)
Tyre type	pneumatic, tube or tubeless-type (depends on truck configuration)
Wheel type	disk wheels

Подробное описание

Vacuum truck (AKN-16) based on KAMAZ-65111 chassis is used for oil and petroleum gathering, gas-condensate, non-aggressive process liquids gathering, and their transportation for recycling.

Tankers AKN-16 may be performed for all climate zones, a sleeping berth is optional.

Tanker component parts:

- cistern (circle cross-section, steel grade 09G2S),
- vacuum pump (KO-505, PNR-122, PVT-200, PVT-400, BK-6M2, HBP-8/5 or BP-8/3),
- electrical equipment,
- fire-fighting equipment (extinguishers, sand boxes),
- measurement equipment (vacuum manometer).

Vacuum truck specifications

Tanker AKN-16 is a cistern installed on “KAMAZ” chassis.

Cistern – is a welded construction of two bottoms and drum shell.

An operating platform with a non-slip perforated flooring is available on the tanker. A ladder is also pre- installed for comfortable lifting.

In the foot of the back bottom there is a flanged pipe with a filler flap. On a flap there is a butterfly valve, which makes the pipe opened or closed when turning. All connections are tight due to hermetical seals. The hose is attached to the filler flap with a coupling nut. The hose includes a delivery-suction hose DN 100mm, a coupling nut for connection with a filler, and a gasket.

Compressor is designed for creating vacuum during the filling and creating pressure during the discharge. A vacuum truck unit includes: vacuum pump, grease filter, moisture separator, pipe system with ball valves.

The pump drives from the chassis engine through the drive shaft.

The tanker is installed on a frame mounted support which combines with chassis. The supports are attached to a metal cradle structure which is fixed on a mainframe with U-bolts. Under the supports in cradles there are metal ribs which protect from crushing. Under a frame support there are ribbon springs.

Electrical wiring is layed through metal hoses, all connections are encapsulated, equipment is performed in explosion-proof configuration.

The tanker is provided with a warning sign “Flammable”. On a back side there is a ground circuit. 200 mm of it must contact the road surface.

Performance

- Belt fixation of cistern.
- Discharge hatch on the bottom, diameter up to 500 mm.
- Additional filler pipe.
- Heating of the footvalve with an IC-engine exhaust system.
- 4 types of workplace illumination around the vehicle.
- Instrument boxes on the back-end of cistern.

Possible modifications for hazardous materials transportation:

- orange color tanker with a sign “flammable”,
- changing the location of muffler,
- arc-control device,
- shielded wiring,
- grounding reel,
- ground circuit,
- fuel tank protection,
- back-side protector,
- orange warning lights – 2 pcs,
- fire extinguishers – 2 pcs,

- sand boxes,
- felt box,
- light-reflecting marking,
- attachment for a class of hazard information sign.

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