

# R.

NEW  
V1505-CR  
TURBO  
ENGINE



Max 450 mm



As from 530 kgs



600 litres

STAGE V

## HIGH PRESSURE CLEANING

# CITYJET

EXCEEDING ALL YOUR EXPECTATIONS IN  
DESIGN, PERFORMANCE, USER FRIENDLINESS  
AND RELIABILITY

The Rioned CityJet sets the standard in design, performance and reliability. It is the most compact machine in its class and thousands of users worldwide rely on their CityJet day-in day-out. The all new CityJet hosts a range of innovative new features to enhance the machine functionality while offering superior ergonomics.

The compact design and low weight maximizes the carrying capacity of the vehicle.

### MORE EFFECTIVE

The high pressure hose reel now pivots through 180 degrees for optimum working conditions in all circumstances. The new hose reel has been widened to accommodate up to 140 metres of 1/2" high pressure hose or 120 metres of 5/8" hose. And the new electric locking mechanism on the hose reel is a major improvement in user friendliness and safety.

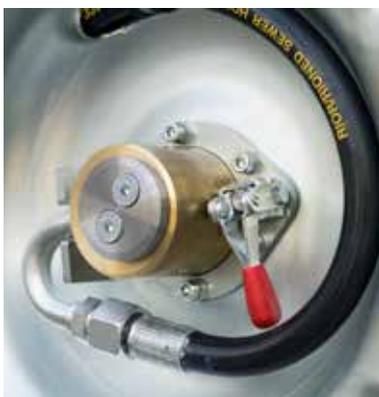
The RioFree freewheel system ensures that the hose reel can be coiled off without any friction of the hydraulics, this feature significantly reduces the effort required to operate the hose reel. The new high pressure jetting hose fitted to the CityJet is not only the lightest hose in its class. It also ensures minimum pressure loss thanks to the smooth inner surface and widened inner core. This also results in an increase of 12% effective working pressure at the nozzle.

### USER FRIENDLY

The CityJet fits most popular vehicles such as the Mercedes-Benz Vito, Volkswagen Crafter and Ford Transit. The modern, newly designed covers protect the user from rotating parts and reduce the noise levels of the machine to a minimum. The covers are easily removed for quick access to the engine and pump when servicing is required. With an easy fill fuel tank and special forklift lifting provision the new CityJet is extremely user friendly.

### DRIVES

The CityJet can be supplied with petrol or even an electric engine. A PTO (Power Take Off) version to mount in a Mercedes Benz Sprinter is also available. All systems host a range of innovative features to maximize performance and user friendliness. The CityJet Petrol e.g. has a patent pending system to cool the exhaust of the machine.



RioFree mechanical freewheel at the hose reel for coiling off without any resistance



Wide 180° pivoting hose reel for max. 140 metres of 1/2" hose



- 180° pivoting hose reel
- eControl+ control panel
- High performance
- Light-weight
- Large capacity hose reel for up to 140 metres hp hose
- Electric hose reel locking mechanism



TECHNICAL SPECIFICATIONS	
Operating range	Max 450 mm
Engine	Kubota petrol industrial WG972 (23 kW / 30 HP), Kubota petrol WG1605 (33,5 kW / 45 HP) or Kubota diesel common rail turbo V1505-CR T (33 kW / 44 HP)
Pump Rioned/Speck	Kubota petrol industrial WG972
	150 bar / 70 lpm      2200 psi / 15 gpm 200 bar / 60 lpm      3000 psi / 13 gpm
	Kubota petrol industrial WG1605
Pump protection	320 bar / 46 lpm      4600 psi / 10 gpm 250 bar / 60 lpm      3600 psi / 13 gpm 160 bar / 85 lpm      2400 psi / 19 gpm 270 bar / 54 lpm      4000 psi / 12 gpm 200 bar / 72 lpm      3000 psi / 16 gpm 150 bar / 100 lpm      2250 psi / 22 gpm
	Kubota diesel common rail turbo V1505-CR T
	320 bar / 46 lpm      4600 psi / 10 gpm 250 bar / 60 lpm      3600 psi / 13 gpm 160 bar / 85 lpm      2400 psi / 19 gpm 270 bar / 54 lpm      4000 psi / 12 gpm 200 bar / 72 lpm      3000 psi / 16 gpm 150 bar / 100 lpm      2250 psi / 22 gpm
Pressure regulator	Run dry protection with overrun possibility
Water tank	Type Speck with automatic bypass
Fuel tank	600 litres (2 x 300 litres)
Filling reel	30 litres
HP hose	50 metres NW 19
HP hose reel	Hydrant connection on the tank
Weight	Supply line with hydrant connection for fast filling of the water tank
Dimensions (LxWxH)	80 metres NW 13 (1/2") or NW 16 (dependent on configuration)
Nozzles	80 metres NW 13 (1/2") or NW 16 (dependent on configuration)
Accessories	HP hose reel
Color	Hydraulic drive with RioFree freewheel, 180° pivoting
OPTIONS	
Remote control	As from 530 kgs
RioPulse Pulsator	1335 x 1240 x 1195 mm
Anti-freeze tank	2 x 1/2" (1 open, 1 blind)
Extra water tanks	Spraygun and lance
Extra hose length	Blue hose reel, black frame
Ventury tank filling system	Remote control
2nd high pressure hose reel	RioMote 7 channel radio remote control (engine start/stop, gas regulation, pump on/off, emergency stop)
Electric water level control	RioPulse Pulsator
RioMeter hose counter	Pump adjustment to send water in pulses through the hose
Riomote hose reel operation	Anti-freeze tank
	30 litres anti-freeze tank mounted to protect HP circuit. Drain valve mounted on heat exchanger
	Extra water tanks
	2x 400 or 4x 300 litres water tanks instead of 2 x 300 litres
	Extra hose length
	Extra hose lengths available
	Ventury tank filling system
	Suction device to fill up the tank with water from natural sources
	2nd high pressure hose reel
	Filling reel converted to a second HP hose reel for work with small diameter hose
	Electric water level control
	Automatic system to open and close the filling line of your machine if the water has reached its minimum or maximum level in the tank
	RioMeter hose counter
	RioMeter hose length counter to display the length of the hose that is feeded in the drain
	Riomote hose reel operation
	Coiling on- and off via the radio remote control operation



Max 350 mm



As from 500 kgs



600 litres



## HIGH PRESSURE CLEANING

# CITYJET PTO

## POWERED BY MB SPRINTER

### DRIVE

The CityJet PTO (Power Take-Off) is driven by the engine of the vehicle in which it is placed. A sophisticated hydraulic system reduces the power of the vehicle-driven shaft to allow the high-pressure pump to do its job, so there is no longer any need for a separate combustion engine or other motor. Installed in a new van, this drive meets all legal environmental requirements.

### VEHICLES

A CityJet PTO can be built into a Mercedes Benz Sprinter (3.5 or 5 tonnes) that is equipped with the Mercedes PTO factory options. The drivetrain of this van includes a transfer case that provides direct power.

### EQUIPMENT

The CityJet PTO is equipped with Riomote control and eControl+ operating panel. The machine is supplied as standard with two 300-litre water tanks, a 180° pivoting reel with mechanical freewheel, 80-metre MaxFlow HP hoses and a filling reel with 50 metres of NW19 hose.

### BENEFITS

A CityJet with PTO drive in a EURO-6 van meets all environmental regulations. The total weight is lower than that of a machine with a combustion engine. The noise level is lower than that of a machine with a combustion engine, which is a great advantage when working at night, for example.





- Designed for MB Sprinter
- Low maintenance
- Low noise



#### TECHNICAL SPECIFICATIONS

Operating range	Up to 350 mm diameter
Drive	Driven by vehicle engine
Pump Rioned/ Speck	Various capacities, depending on the power available from the vehicle
Pump protection	Dry-running protection with bypass
Pressure regulator	Type Speck with automatic bypass function
Water tank	600 litres (2x 300 litres)
Filling reel	50 metres NW19
Permanently attached filling hose	Permanently attached filling hose with hydrant connection for quick filling of the tank
HP hose	80 metres NW 13 (1/2") or 80 metres NW 16
HP reel	180° swivelling, hydraulic and equipped with RioFree freewheel
Weight	As from 500 kgs
Dimensions	1335 x 1240 x 1195 mm
Nozzles	2x 1/2" (1 open, 1 blind)
Accessories	Spray gun with lance
Accessories	Spray gun with lance
Color	Blue/black

#### OPTIONS

Remote control	RioMote 7 channel radio remote control (engine start/stop, gas regulation, pump on/off, emergency stop)
RioPulse Pulsator	Pump adjustment to send water in pulses through the hose
Anti-freeze tank	30 litres anti-freeze tank mounted to protect HP circuit. Drain valve mounted on heat exchanger
Extra water tanks	4 x 300 litres water tanks instead of 2 x 300 litres
Extra hose lengths	Extra hose lengths available
Ventury tank filling system	Suction device to fill up the tank with water from natural sources
2nd high pressure hose reel	Filling reel converted to a second HP hose reel for work with small diameter hose
Electric water level control	Automatic system to open and close the filling line of your machine if the water has reached its minimum or maximum level in the tank
RioMeter hose counter	RioMeter hose length counter to display the length of the hose that is feeded in the drain
Riomote hose reel operation	Coiling on- and off via the radio remote control

# R.



Max 350 mm



As from 690 kgs



600 litres



## HIGH PRESSURE CLEANING

# eCITYJET

## THE FUTURE OF SEWER CLEANING BEGINS TODAY

Take a look at the world's first fully electric high pressure sewer cleaning machine for pipes with a diameter of up to 350 mm. The eCityJet has all the features of the conventional CityJet and meets all current and future environmental standards.

### ZERO EMISSION

The fully electric CityJet uses state-of-the-art technology, and features a strong electric motor powered by an extremely efficient battery pack. This means the machine produces zero emission, which makes the eCityJet ideally suited for use in city centres where strict emission requirements apply and in areas that are completely or partially enclosed. The eCityJet has all the features of a conventional diesel-driven machine and is hardly heavier. The empty machine weighs approximately 690 kg. The machine is also barely larger than a diesel-powered CityJet, making it suitable for most vans (such as a Mercedes Vito or Sprinter or a Ford Transit).

### PERFORMANCE

The performance of the eCityJet is in no way inferior to that of diesel-driven machines. The machine is ideally suited for unblocking pipes up to 350 mm. With fully charged batteries, and an average working day, you can work with the eCityJet a full day without charging in between jobs.

### BATTERY PACK

The eCityJet is equipped with six 5 kWh batteries. The batteries are charged using regular mains power from an ordinary wall socket. The charging time for six batteries is approximately eight hours. You can even top up the charge during the day for longer flushing.

### COMPLETE

The eCityJet is supplied with eControl+ operating panel. Winding in and out is done electrically. No hydraulic fluid is used, which reduces environmental impact. The machine is supplied as standard with two 300-litre water tanks, a 135° pivoting reel with mechanical freewheel, 80-metre MaxFlow HP hoses and a filling reel with 50 metres of NW19 hose.



Dutch company Van der Velden has tested the eCityJet:  
"We have extensively tested the electric CityJet in the centre of Amsterdam and were able to work with the machine for two days without having to recharge the batteries in between."



- Zero emission
- Ideal for work in ultra-low emission zones and indoor use
- Powered by an extremely efficient battery pack

#### CLEAN & GREEN SOLUTION

With the eCityJet you are ready for the future. In the coming years there will be more and more emphasis on limiting NO<sub>x</sub>, particulate and CO<sub>2</sub> emissions. The eCityJet already gives you a considerable advantage when it comes to customers who prefer to work in an environmentally friendly way. An additional advantage is that the machine is also considerably quieter than one with a diesel engine, which is an important factor when working at night, for example. The machines are easy to maintain, which in the long run will certainly result in considerable savings. Making the switch now will allow you to stand out in the market.



#### TECHNICAL SPECIFICATIONS

Operating range	Up to 350 mm diameter	
Motor	Electric motor	
Battery pack	30 kWh battery pack	
Pump Rioned/Speck	160 bar / 75 lpm 200 bar / 60 lpm 300 bar / 37 lpm	2400 psi / 17 gpm 3000 psi / 13 gpm 4350 psi / 9 gpm
Pump protection	Run dry protection with overrun possibility	
Pressure regulation	Type Speck with automatic bypass function	
Water tank	600 litres (2x 300 litres)	
Filling reel	50 metres NW19	
Permanently attached filling hose	Permanent attached filling hose with hydrant connection for quick filling of the tank	
HP hose	80 metres NW 13 (1/2") or NW 16 (5/8") hose	
HP reel	180° swiveling, electrically controlled and equipped with RioFree freewheel	
Weight	690 kgs	
Dimensions (lwxhxh)	1615 x 1240 x 1195 mm	
Accessories	Spray gun with lance	
Nozzles	2x 1/2" (1 open, 1 blind)	
Color	Blue/black	

#### OPTIONS

Remote control	RioMote 7 channel radio remote control (engine start/stop, gas regulation, pump on/off, emergency stop)
RioPulse Pulsator	Pump adjustment to send water in pulses through the hose
Anti-freeze tank	30 litres anti-freeze tank mounted to protect HP circuit. Drain valve mounted on heat exchanger
Extra hose length	Extra hose lengths available
Ventury tank filling system	Suction device to fill up the tank with water from natural sources
2nd high pressure hose reel	Filling reel converted to a second HP hose reel for work with small diameter hose
Electric water level control	Automatic system to open and close the filling line of your machine if the water has reached its minimum or maximum level in the tank
RioMeter hose counter	RioMeter hose length counter to display the length of the hose that is feeded in the drain
Riomote hose reel operation	Coiling on- and off via the radio remote control