

ROM SmartCombi PRO HP-Vac Combined unit



The SmartCombi PRO is the 'big brother' of our SmartCombi and is suitable for vehicles from 6 tonnes. The PRO version offers you, besides extra vacuum suction power and more flushing and cleaning capacity, many other extras and is available in both PTO or e-PTO. The unit has a maximum cleaning pressure of 200 bar and flushing capacity of 100 l/min. With a 3000-litre tank (or optional 4000-litre) the SmartCombi PRO is perfectly suited for the unblocking and cleaning of domestic connections and main sewers up to Ø600mm as well as draining of flooded cellars and grease traps.

User friendly extras

The SmartCombi PRO is furnished with many extras by default. For instance, the unit is fitted with a hydraulically driven high pressure reel that reaches far outside the vehicle so you have it locked in the right position in no time at all.

You can even place the reel perpendicularly to the vehicle. Having to turn the vehicle numerous times to get it in the ideal place is no longer necessary.

The hose guiding system makes reeling a piece of cake. In addition, the reel is fitted with a control panel that swivels along with the reel so all the buttons you need are always within reach. Nice and efficient.

The vacuum tank can be cleaned easily because of the rear tank door that opens sideways. Thanks to the slanted bottom, the sludge runs out easily and no residue remains.

Robust construction

The SmartCombi PRO is made to operate with satisfaction for years and years. The base frame for instance is galvanised both inside and out. The other frame and steel parts are either electro galvanised or have a durable industrial powder coating.

Safety

By default, the unit is supplied with all necessary safeties, such as over pressure and under pressure safety valves, emergency stop and a double ball valve (prevents over suctioning). Should you choose a version with a vacuum pump, then the combi is also fitted with automatic lubrication, a combined oil separator / silencer and a moisture separator, including second ball valve.

Vacuum system: 2 powerful choices

The vacuum system can be equipped with a conventional air-cooled vacuum pump (6,150 l/min) or an extra-powerful water ring vacuum pump (9600 l/min | 500 m³ per hour).

If you want maximum suction power, choose the environmentally-friendly water ring pump. This is more powerful, quieter and very easy to maintain. In addition, the water ring pump guarantees extra-long service life and high operational reliability (even under the heaviest operating conditions).

Choose your tank capacity

An additional benefit of the slanted bottom is that you can choose the partition of the tank yourself. The 3000-litre total can be partitioned in 2000/1000, 1800/1200 or 1600/1400 litres. Optionally, you can also choose for a larger 4000-litre tank.

Options? See next pages

More info, go to rombv.com

Technical information



Suitable for

Unblocking / cleaning of house connections and sewer system up to Ø600mm
Emptying of flooded cellars and grease traps

Drive

PTO or e-PTO (BEV)

High pressure pump

Speck P45 & P150/100, 3 plunger high pressure pump
Cleaning pressure up to max. 200 bar and a water capacity up to max. 100 l/min

High pressure reel

270° rotating hydraulically driven high pressure reel
Suitable for max. 120m 1/2" (ND13) or 90m 5/8" HP sewer jetting hose

Vacuum system

Either via conventional high pressure pump or water ring vacuum pump
Free air displacement of up to max. 9600 l/min | Max. vacuum -0.85 bar
Mounted on anti-vibration sub frame



Conservation

Tank entirely hot-dip galvanised both inside and out
Reel frame and control panel powder coated RAL 9006
Reels powder coated in high gloss RAL 7016 (Anthracite grey)
Complete unit painted in desired company colour (RAL)

Standard features include i.a.

270° rotating hydraulically driven HP reel with hose guiding system
80m. HP sewer jetting hose | Dry run protection | Bypass switch
Suction-ejector | Hour counter
Remote control | Long Life kit for vacuum pump
Design engine / pump compartment cover, lockable
Stainless steel discharge plate
Aluminium storage tray
Lockable tool storage box
4 suction hoses 3" of 2.4m. (ND80)
Drain pipe for discharging water
Spray gun | Nozzle rack
Various safety features
Complete unit sprayed in colour

Advantages

- Appropriate for chassis types from 6 tonnes, such as Iveco Daily 70C21, Isuzu NPR75 and Mitsubishi Fuso 7C18
- PTO or e-PTO (BEV)
- 270° rotating hydraulically driven HP reel with hose guiding system and control panel that swivels along
- Slanted bottom; fast unloading and cleaning of tank
- Integrated (fork lift) tubes; ideal for storage of hoses
- Automatically closing water filter with washable element

Article number	0302032	0302037	0302052	0302057
Version	ROM SmartCombi PRO V-200/72 PTO Comfort	SmartCombi PRO LR-200/72 PTO Comfort	ROM SmartCombi PRO V-150/100 PTO Comfort	SmartCombi PRO LR-150/100 PTO Comfort
Starting system	-			
Engine	PTO - "Emission compliant" (optional: e-PTO drive via electric vehicle)			
High pressure pump	Speck P45/72		Speck P150/100	
Vacuum system	Vacuum pump, 6150 l/min (0.75 Bar)	Liquid ring vacuum pump, Samson TM600 9600 l/min	Vacuum pump, 6150 l/min (0.75 Bar)	Liquid ring vacuum pump, Samson TM600 9600 l/min
Water tank capacity	2000/1000 or 1800/1200 or 1600/1400 liter (sludge- / clean water)			
Empty weight (excl. options)	Approx. 1450kg			
Dimensions (l x w x h)	Body length (recommended length load floor) 3.45m // Length overall max. 3.75m // Width = 1.600mm / Height = 1.650mm			
HP reel drive	270° rotatable hydraulically driven, mounted on swivel frame			
HP sewer jetting hose	80 m 1/2" (ND13)		80m 5/8" (ND16)	
Water filling hose reel	Optional: water filling hose reel incl. 50 m 3/4" water hose (ND 20)			
Vacuum hose	3" ND75 x 3,2m (2 x)			
Remote control	Remote control Professional-Remote ("In- & Outdoor"), 8 buttons			

Want to know more about the advantages of the liquid ring and vacuum pump versions? Please consult the technical specifications or contact us.



WORK EMISSION-FREE WITH LESS NOISE

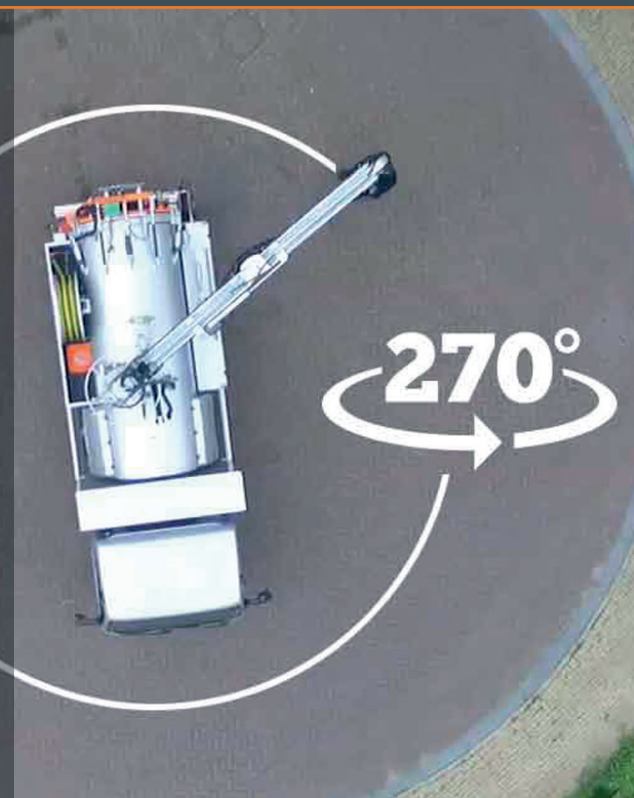
**CHOOSE E-PTO DRIVE
(MOUNTING ON ELECTRIC VEHICLE)**



ROM SmartCombi PRO - Suction arm with jet-vac remote

ROM SUCTION ARM WITH JET-VAC REMOTE

- Compact sewer combi with advanced suction arm on vacuum tank
- For emptying gullies, septic tanks and grease traps
- Thanks to the compact vehicle and the automatically foldable suction arm, even the most difficult places, such as narrow streets and shopping centers, are accessible
- With the swiveling arm that can be rotated through 270°, you can work effortlessly on the front and rear of the vehicle
- Swiveling and lifting hydraulically controlled
- Easy to operate with the supplied ROM JetVac remote control including 2 joysticks to control all required functions
- Incl. 4" vacuum hose and 3" aluminum suction pipe with high pressure nozzle
- The suction tube is stowed and stored in the tool bin



ROM SmartCombi PRO - Water ring vacuum pump

Do you need extra suction power? Choose our ROM SmartCombi PRO with a powerful water ring vacuum pump. This pump has a suction capacity of no less than 9,600 litres per minute (500 m³ per hour). And that's not all... You will get additional benefits. This advanced water ring pump is environmentally-friendly, quieter and very easy to maintain. In addition, the water ring pump guarantees extra-long service life and high operational reliability (even under the heaviest operating conditions). And, of course, you can also suck and spray at the same time with this vacuum pump.

How does it work?

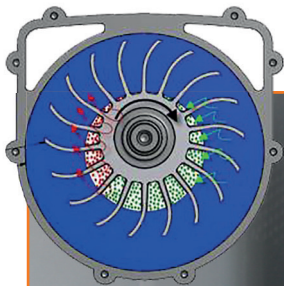
A water ring pump works with water (1) that forms a ring through the rotor with blades (2) against the stator (3) a ring forms due to the centrifugal force. Cells are created between the rotor, the rotor blades and the water ring. The cells change continuously in size because the rotor does not sit in the centre of the pump housing. This creates a system that can be used as a vacuum pump.

Environmentally-friendly & economical

A water ring pump does not use oil lubrication. Unlike a conventional oil-lubricated vacuum pump, the water ring pump does not produce polluting oil mist emissions. This is good for the environment and good for the wallet. In addition to costly oil consumption, you save on maintenance costs. You can also work faster thanks to the large suction power, which also saves you labour costs. In short, a healthier working environment and lower operating costs are within reach.

Advantages of a water ring pump

- Work faster thanks to increased suction volume
- Suck and spray at the same time
- Long service life and high operational reliability (even under the toughest operating conditions)
- Prevents wear
- Less maintenance
- Saves operating costs
- Low noise level
- Durable and economical
- Environmentally friendly: works without oil lubrication, which prevents emissions of oil mist
- Explosion-proof
- Easy operation



WATER RING VACUUMPUMP FOR EXTRA SUCTION POWER



OPTIONS ROM SMARTCOMBI PRO

04790110



Remote Control

- **04790110** Surcharge Hydraulic radio remote control HeavyDuty-Remote ("In- & Outdoor"), 10 buttons with pressure on/off, (vacuum on/off), infinite speed control, information display, external antenna, removable rechargeable battery, emergency stop and battery charger for transmitter instead of radio remote control Professional-Remote, 8 buttons

0458020



ROM Suction arm + JetVac remote

- ROM Suction arm with 8 meter reach around the vehicle (270°), incl. 4" hose and 3" aluminum suction pipe with high pressure nozzle. Swivelling and lifting hydraulically controlled and operated via ROM JetVac remote control (included). Equipped with, among others, carrying strap, information display, removable rechargeable battery with charging station and 2 analogue joysticks for operating functions, such as pressure on / off, vacuum on / off, stepless speed control and emergency stop.

0458101



Automatic opening and closing

- Automatic opening and closing of rear cover with 4 actuated locks and 2 open/close actuators.

048301



Spray boom with nozzles

- High pressure spray boom with nozzles to empty the sludge tank, placed inside the rear cover of the vacuum tank, connected to the HP circuit with selector valve.

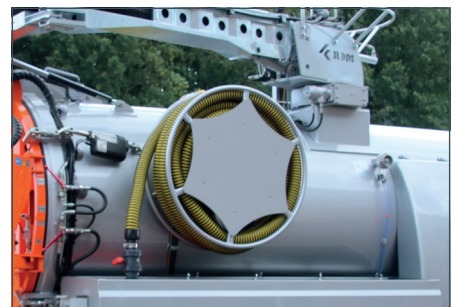
04689991



Extra large sludge- / clean water tank

- Extra large sludge- / clean water tank SmartCombi PRO 2700l./1300l. 4000 litres total.

065402



Reel for suction hose

- Manually operated reel for suction hose in colour RAL 9006 White aluminium, mounted to sewage tank, incl. 18m. Hi-Vac vacuum hose 2", suction pipe with ball valve

OTHER OPTIONS

Item no. Description

- 0468900** ROM SmartCombi (PRO) - Version adapted to right-hand-drive instead of left-hand-drive (adjustment options; suction hose reel and / or Fixed hydrant filling connection)
- 0468966** Capacity ratio sludge- / clean water SmartCombi PRO 2000l/1000l.
- 0468988** Capacity ratio sludge- / clean water SmartCombi PRO 1800l/1200l.
- 0468999** Capacity ratio sludge- / clean water SmartCombi PRO 1600l/1400l.
- 04679600** Mounting on BEV chassis Renault / Volvo in Barneveld, including necessary mounting brackets, sidelights and wheel covers. (See ROM chassis list. Other vehicles not possible) (SmartCombi PRO)
- 04794** Unwinding of HP hose reel via remote control (only in combination with hydraulically driven HP reel and 8 or 10 button remote control)
- 0479500** Reeling of high-pressure hose reel via remote control up to a safe distance of 5 metres from the machine (only in combination with option 04794)
- 04243** Working light (LED)
- 0425** Rotating beacon 360° (LED) on pole.
- 04023** Manually operated water filling hose reel with 50m. 3/4" filling hose (ND20). (SmartCombi PRO)
- 042301** Manually operated second HP reel with 3-way valve/unloader combined system. Excluding HP hose. (SmartCombi (PRO))
- 0423050** Second HP stainless steel / ABS reel, self-retracting, incl. 20m 3/8" HP hose
- 0484** Pulsation system, manually operated. For a lower water consumption and the hose advances further in the pipe and passes through bends easier
- 042320** 40m. 3/8" HP steelply hose (max. 300 bar) with 3/8" coupling for nozzle
- 04233** 40m. 3/8" HP steelply hose, incl. quick-release valve on the hose and quick-release turnbuckle for the spray lance.
- 04850** 100m. instead of 80m. 1/2" HP sewer jetting hose "Commercial"
- 04851** 120m. instead of 80m. 1/2" HP sewer jetting hose "Commercial"
- 048511** 90m. instead of 80m. 5/8" HP sewer jetting hose. (EcoFit/ROM 900/SmartCombi PRO/EcoNomic) (not in combination with art. 04372)
- 0551015** Frost protection system via air compressor; presses water out of the high pressure circuit (for frost free transport and storage) (not for SmartTrailer)
- 04531** Linking system for the vacuum water tank onto the fresh water system, consisting of a connection hose with extra fitted T-piece including valve and coupling.
- 045262** Roller shutter box, sprayed, on SmartCombi (PRO), equipped with 2 aluminium shutters (measuring 20 cm narrower than outer size), 1 horizontal shelf and rubber mat on bottom plate. Width ranging from 500 mm. up to 750 mm. depending on available space on vehicle.
- 045264** Roller shutter box, sprayed, on SmartCombi (PRO), equipped with 2 aluminium shutters (measuring 20 cm narrower than outer size), 1 horizontal shelf and rubber mat on bottom plate. Width ranging from 800 mm. up to 1000 mm. depending on available space on vehicle.
- 06542** Hydraulic drive system for vacuum hose reel (hydraulic reeling and unreeling)
- 065430** Operating Hydraulic reeling of vacuum reel via remote control (only possible in combination with option 06542)
- 04644** Heavy-Duty vacuum pump, model Jurop PNR83, 8200 l/min (instead of standard vacuum pump)
- 00165** RDW vehicle approval test (Only NL) > 3500kg.
- 001652** Individual vehicle approval by RDW in Barneveld, NL. Note: Please provide the necessary COC (EC Certificate of Conformity) document with vehicle.
- 001692** TÜV vehicle approval test. Note: Please provide the necessary COC (EC Certificate of Conformity) document with vehicle. (SmartCombi-line)
- 001655** Homologation (Only Belgium) < 3500kg. Note: Please provide the necessary COC (EC Certificate of Conformity) document with vehicle.
- 00166** Homologation (Only Belgium) > 3500kg. Note: Please provide the necessary COC (EC Certificate of Conformity) document with vehicle.
- 00740** ENZ 1/2" nozzle case ROM Anniversary Edition with Grenade, Pointed nozzle, Rotojet KBR, Tool Case
- 0070** Nozzle case ROM JetToolcase (Hose ND13 & ND16 with 1/2" connection).
- 00710** Nozzle case ROM JetToolcase+ (Hose ND13 & ND16 with 1/2" connection).