

**Wet Separator**  
**Type R07, NA 35, NA 250**  
Secure devices  
Secure functions



# Wet separators – the special solution

- Wet separators (NA) are a type of technical equipment (machines and apparatus) used to separate dust from raw gases.
- The material to be vacuumed is sucked into the wet separator through a suction connection.
- In the liquid container / wet separator, air and dust are swirled around together with the liquid, causing the dust to bind to the liquid and sink to the bottom in the form of sediment.
- Suitable for extracting dusts from explosives, sticky or explosive dusts, propellant powder residues, explosive materials, and titanium, aluminium or magnesium dusts.
- Residual dust particles are then separated on dust class H filter cartridges (optional).
- Depending on the type and quantity of material to be vacuumed, Ruwac industrial vacuum cleaners are available with three different wet separators – **R07, NA 35 and NA 250**.

## Principle of wet separation



# Principle of liquid-based separation

Intake of reactive particles



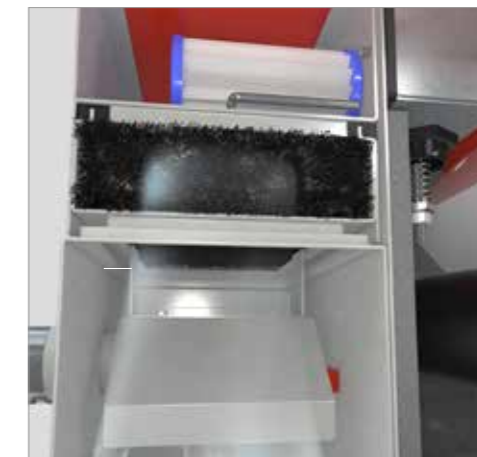
Liquid binds the particles



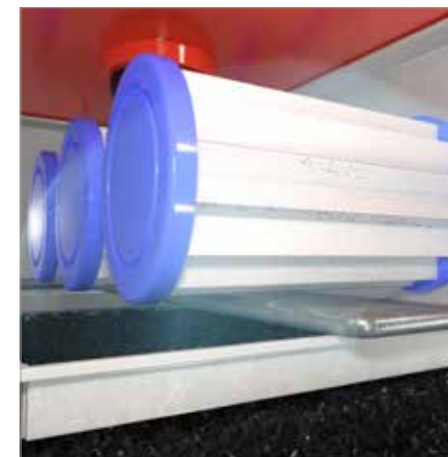
Liquid separated



Additional liquid separation cycle



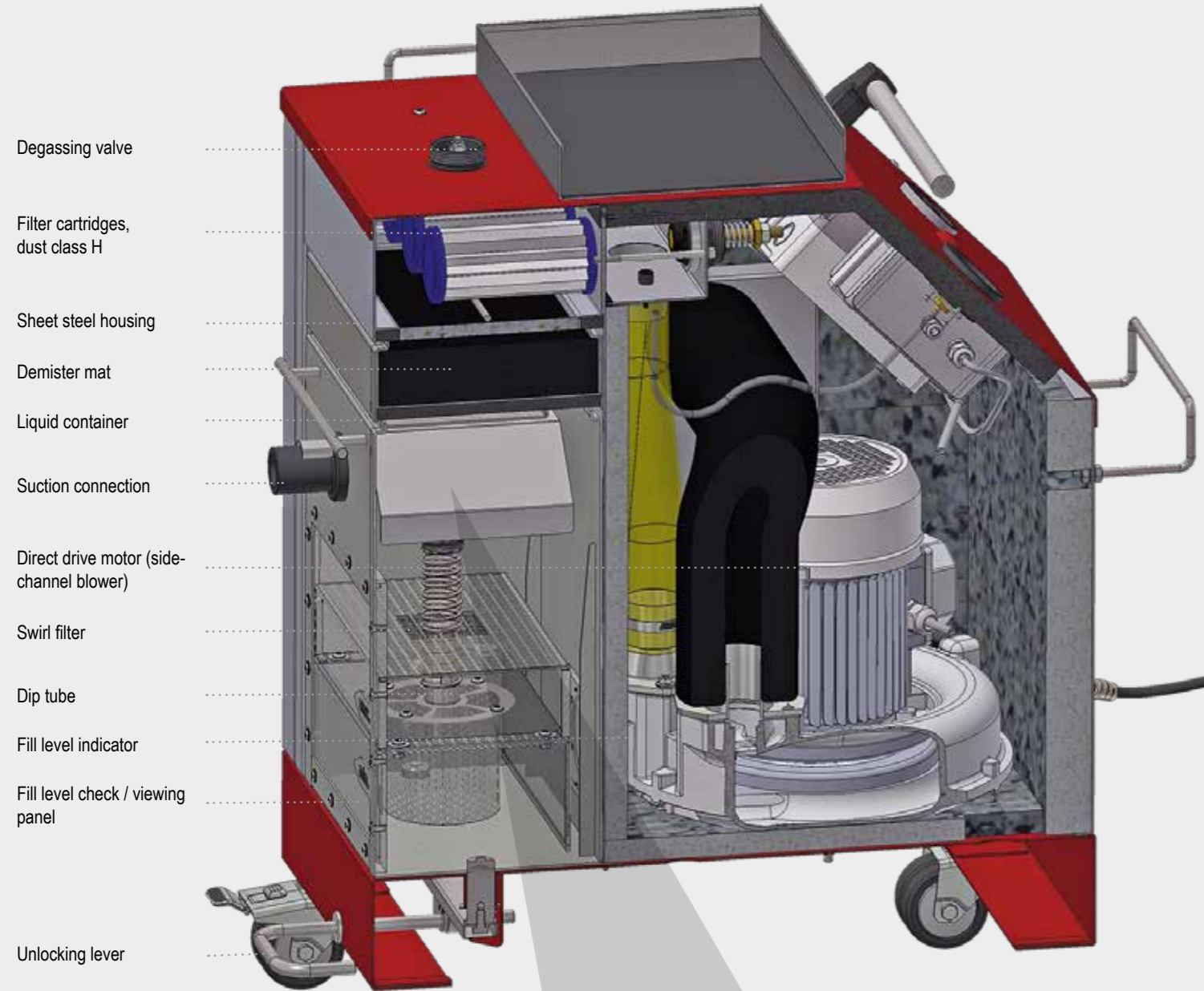
Residual particles are filtered out



Further course of airflow

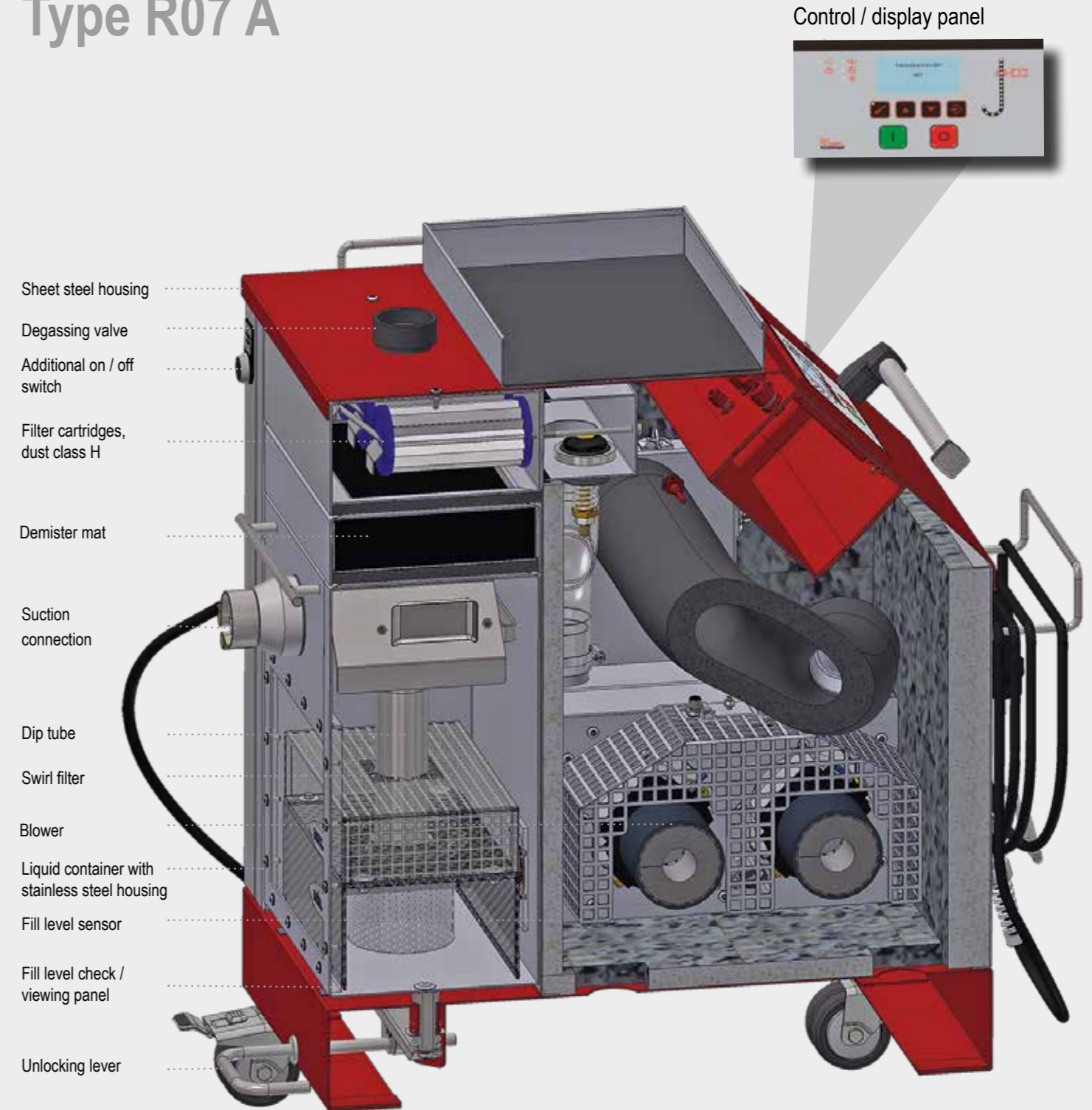


# Wet Separator Type R07 S



Safety thanks to hose locking system

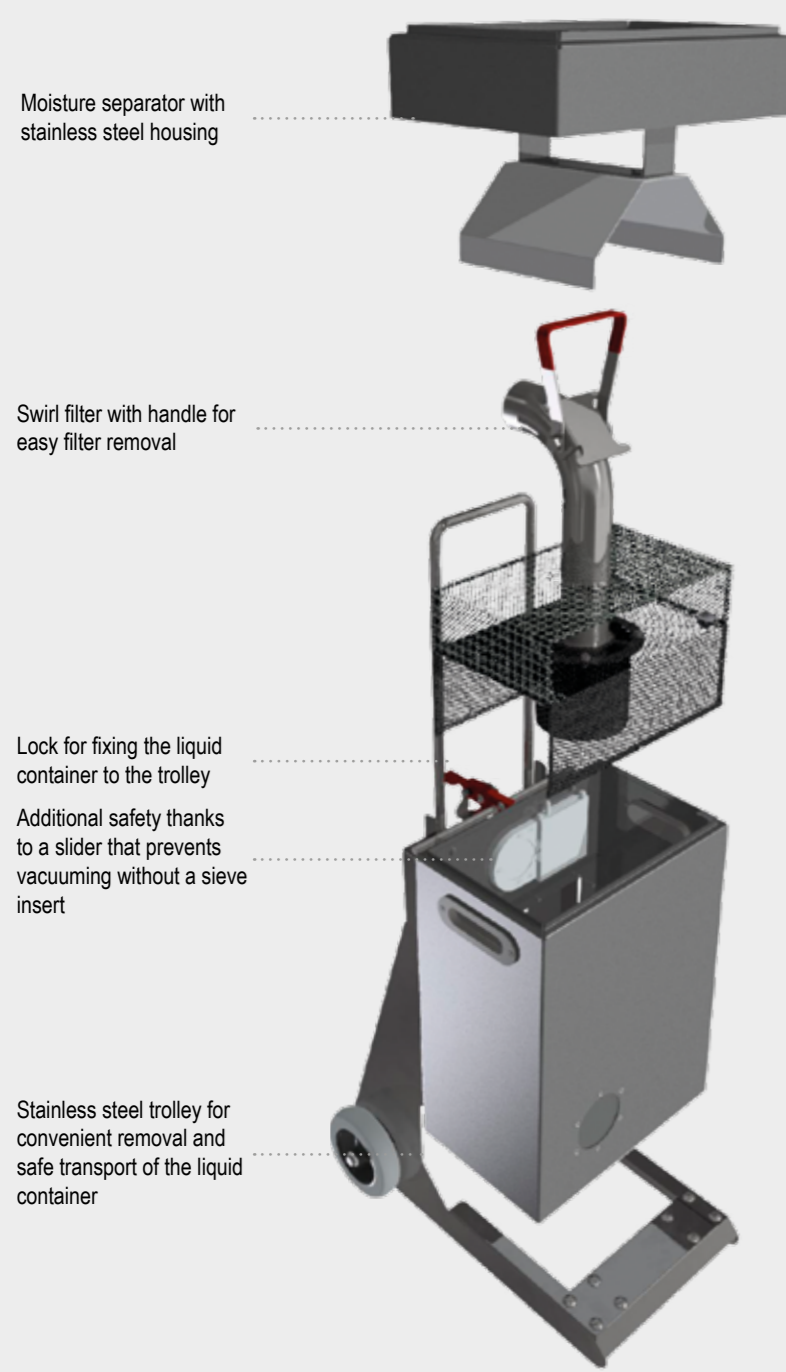
# Wet Separator Type R07 A



▶ View film

# The Special Solution Type R07

## Structure of the liquid container with trolley



Moisture separator with stainless steel housing

Swirl filter with handle for easy filter removal

Lock for fixing the liquid container to the trolley

Additional safety thanks to a slider that prevents vacuuming without a sieve insert

Stainless steel trolley for convenient removal and safe transport of the liquid container

## Control / display panel



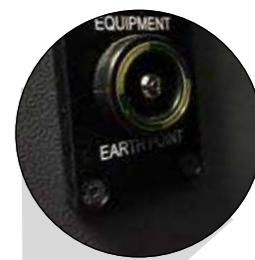
- Differential pressure indicator
- Vacuum indicator
- Fill level monitor
- Blower hour counter
- Language selection: German, English, Spanish, French
- Allows fault analysis - visual and/or acoustic

## UL certification



# Safety-relevant special features of R07

Potential equalisation with mechanical monitoring with ...



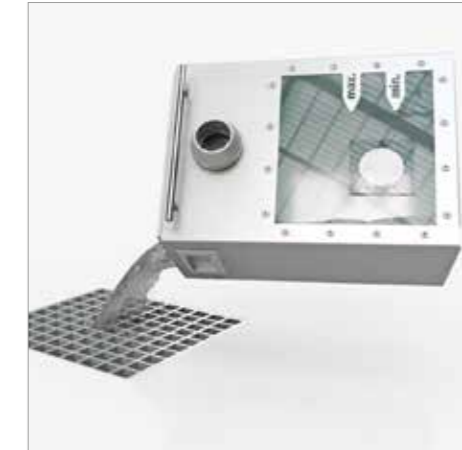
... potential equalisation plug for connection to customer's own devices

Continuous measurement of liquid by fill level sensor



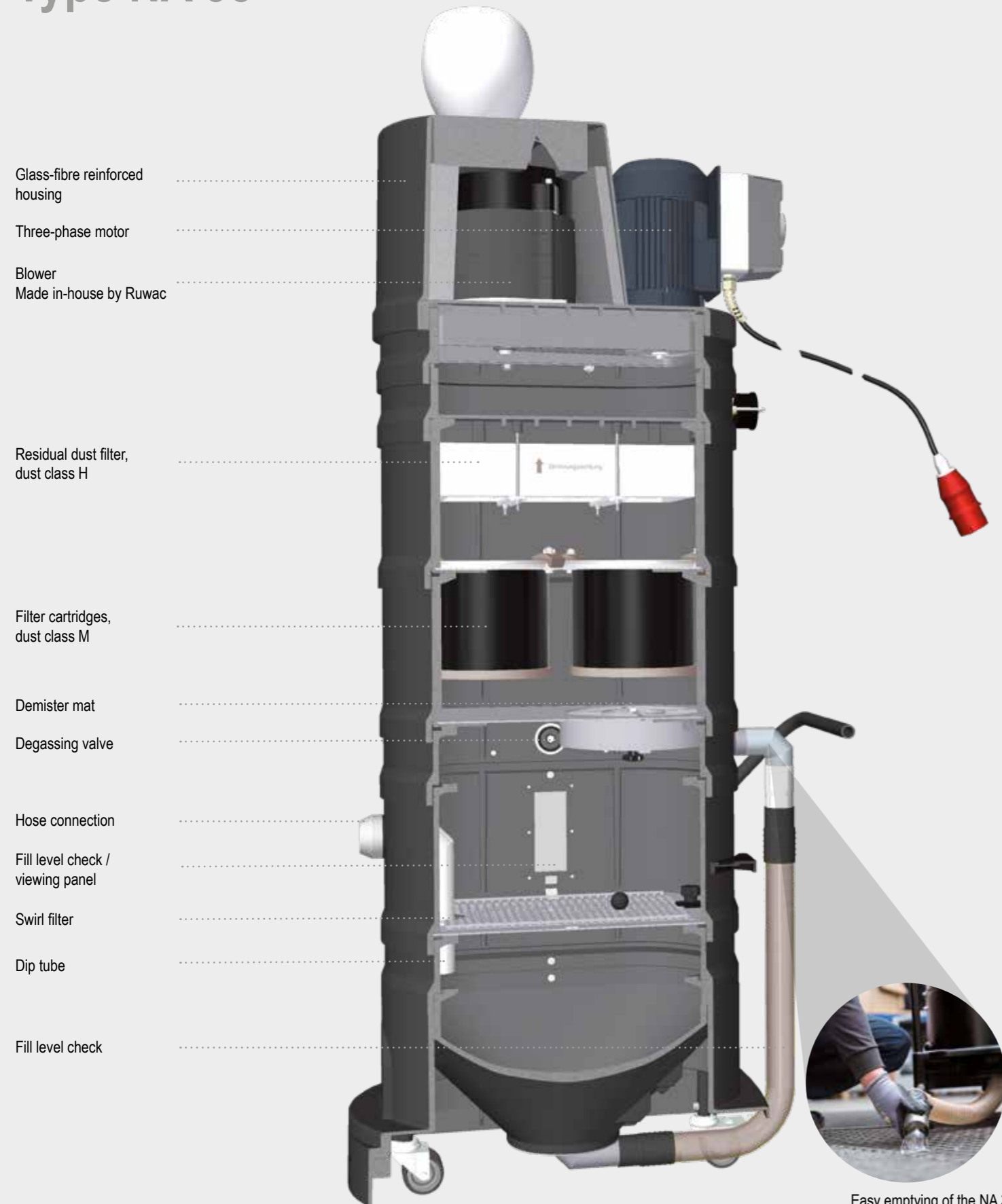
Safety flap prevents vacuuming without liquid container

Easy removal of the liquid container



Simple disposal of liquid

# Wet Separator Type NA 35



- Glass-fibre reinforced housing
- Three-phase motor
- Blower  
Made in-house by Ruwac
- Residual dust filter,  
dust class H
- Filter cartridges,  
dust class M
- Demister mat
- Degassing valve
- Hose connection
- Fill level check /  
viewing panel
- Swirl filter
- Dip tube
- Fill level check



Easy emptying of the NA 35

## Proven glass-fibre reinforced housing

- Ruwac medium-sized wet separators
- Proven glass-fibre reinforced housing
  - Flexible thanks to modular design
- Applications include pyrotechnics and more
- Available with and without drive
- Different base frames

**NA 35 Type WSP**  
in the area of  
academic research



**NA 35 Type WSP**  
in aluminium processing



**NA 35 Type R01**  
in automotive supplier  
production



**NA 35 Type WSP and  
NA 35 Type R01**  
without drive



# Wet Separator Type NA 250

Degassing valve

Sheet steel housing  
Residual dust filter cartridge, dust class M / H  
Demister mat  
Suction connection  
Dip tube  
Fill level check / viewing panel  
Swirl filter  
Ball valve



Easy cleaning of the NA



▶ View film

# Powerful, but handy

- The largest Ruwac wet separators
  - Without own drive
- Additional filter for residual dust with dust class M / H possible
- Extremely easy emptying and cleaning
- Made of sheet steel or V2A
- 75 litre capacity

**NA 250**  
Stainless steel  
without residual dust  
filter for use in aluminium  
processing



**NA 250**  
Sheet steel  
without residual dust  
filter with suction unit  
for use in plastics processing



**NA 250**  
Sheet steel  
with residual dust filter for  
use in automotive supplier  
production



**NA 250**  
Sheet steel  
without residual dust filter  
for use in plasma cutting



# Technical data

	R07 S	R07 A	NA 35	NA 250 (without drive)
Housing	Sheet steel	Sheet steel	GFR	Sheet steel/stainless steel
Motor power (kW)	1.1	2.6 / 2.89	2.2	–
Voltage (V)	230	230 / 240	400	–
Frequency (Hz)	50	50 / 60	50	–
Protection class (IP)	65	5x	55 / 65	–
Vacuum (mbar)	-165	-160	-206	–
Vacuum, short-term (mbar)	-235	-210	-206	–
Air flow rate (m <sup>3</sup> /h) (measured with 3 m hose)	130	220	270	–
Sound pressure level (dB(A)) (DIN EN ISO 3744)	60	68	70	–
Filter cartridge, dust class M (m <sup>2</sup> )	3 x 0.1	3 x 0.1	2 x 1.7	10
Filter cartridge, dust class H (m <sup>2</sup> )	3 x 0.1	3 x 0.1	3.2	10
Height (mm)	761	761	1,490	1,320
Height (mm) (without filter cartridge)	-	-	-	1,060
Width (mm)	482	482	540	584
Length (mm) (without filter cartridge)	714	819	-	1,417
Length (mm)	–	–	840	984
Capacity of the liquid container (litres)	7	7	35	75
Liquid container material	Stainless steel	Stainless steel	GFR	–
Water consumption (litres/h)	0.26	0.6	1.3	–
Suction connection (mm)	30		50	50



**Ruwac**  
**Industriesauger GmbH**  
 Westhoyeler Str. 25  
 D-49328 Melle

0 52 26 - 98 30-0  
 www.ruwac.de  
 ruwac@ruwac.de

Ruwac wet separators are available in explosion-proof versions in accordance with ATEX 2014/34/EU.



certification



DIN EN 60335-2-69,  
Annex CC



ATEX 2014/34/EU



DIN EN 60335-2-69,  
Annex AA