

Acc. DIN EN 12109 a vacuum system consists of three major components:

The Vacuum Station

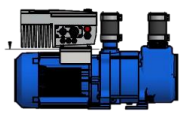
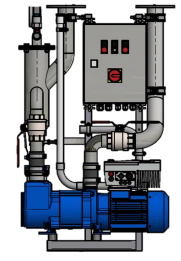

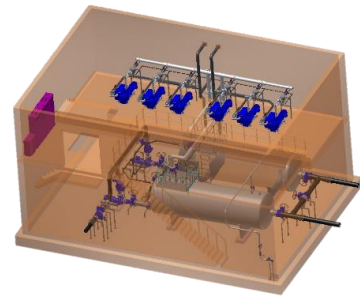


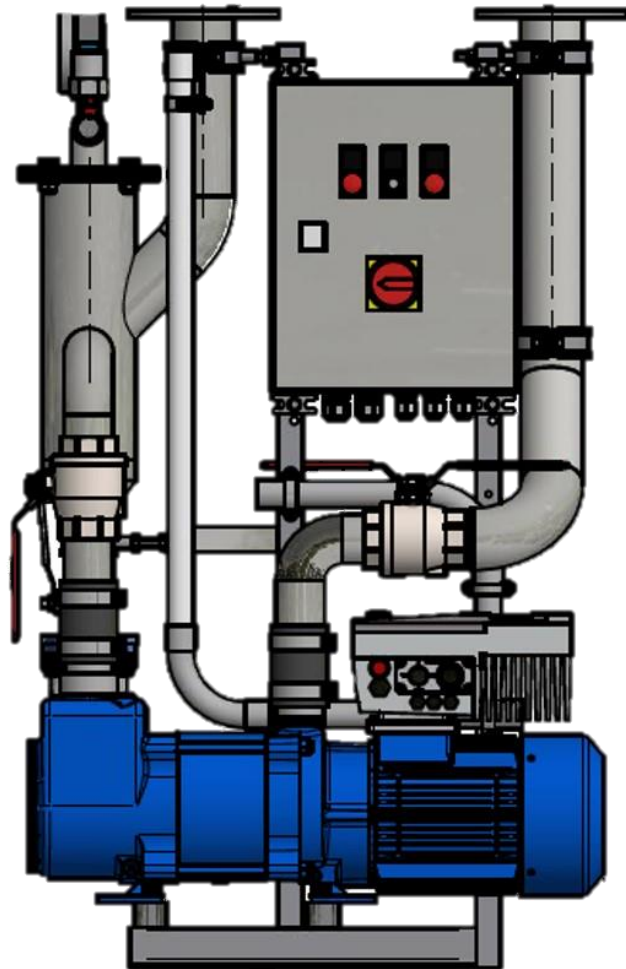
The Vacuum pipe network



The Vacuum Evacuation Units



Pump Stations		Tank Stations	
Single Pump Stations	Double Pump Stations	Compact Vacuum Stations	Individual Vacuum Stations
Comp Type 15 FU	Comp Type 30 FU	Comp Type 70	5 m ³
Comp Type 25 FU	Comp Type 40	Comp Type 85	10 m ³
Comp Type 70 FU	Comp Type 50 FU	Comp Type 140	20 m ³
	Comp Type 130 FU	Comp Type 360	...
			



ROEDIGER COMPACT STATION TYPE 30/50/130

Characteristics:

- Double pump configuration
- Screw pumps
- No collection tank
- Frequency switch with CPU
- All exiting and incoming pipes interruptable via ball valves
- Only one electrical supply point for the whole system
- No ventilation pipe required



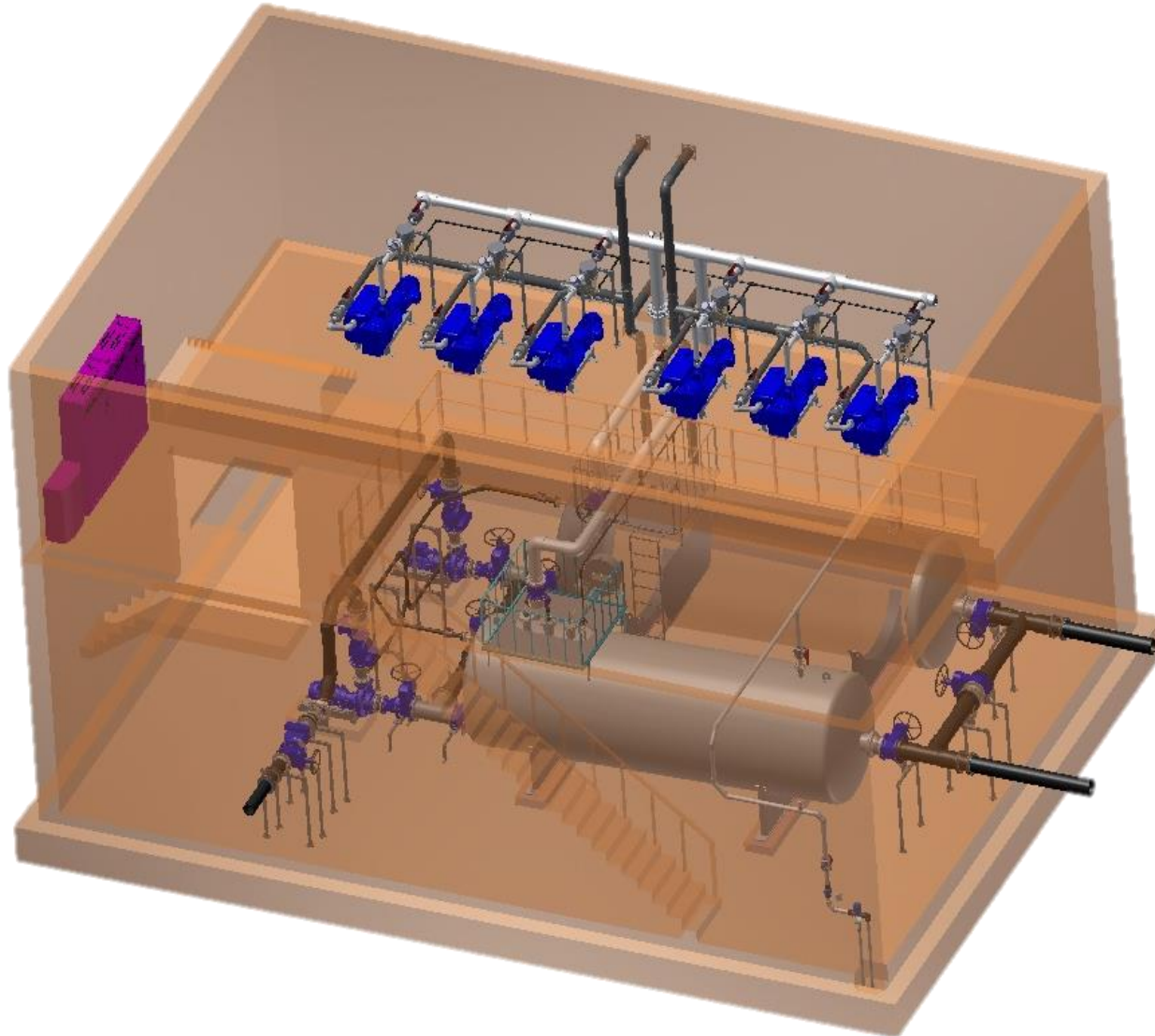
ROEDIGER COMPACT STATION

TYPE 85/140/360

Characteristics:

Preassembled skidmounted unit including:

- Collection tank
- Two/Three vacuum pumps
- Two discharge pumps
- Control panel
- Pipes and fittings
- Inspection manhole
- Wastewater inlet socket
- Wastewater discharge socket
- Ventilation socket



INDIVIDUAL ROEDIGER VACUUM STATION

Characteristics:

Individually designed Vacuum Station including:

- Redundant pump configuration -Adaptable to project requirements
- Collection tanks 1/3 wastewater storage – 2/3 Vacuum buffer
- Tank volume radar controlled
- All exiting and incoming lines interruptable via ball valves
- Only one electrical supply point for the whole system
- Only one ventilation pipe
- Assembly at the jobsite

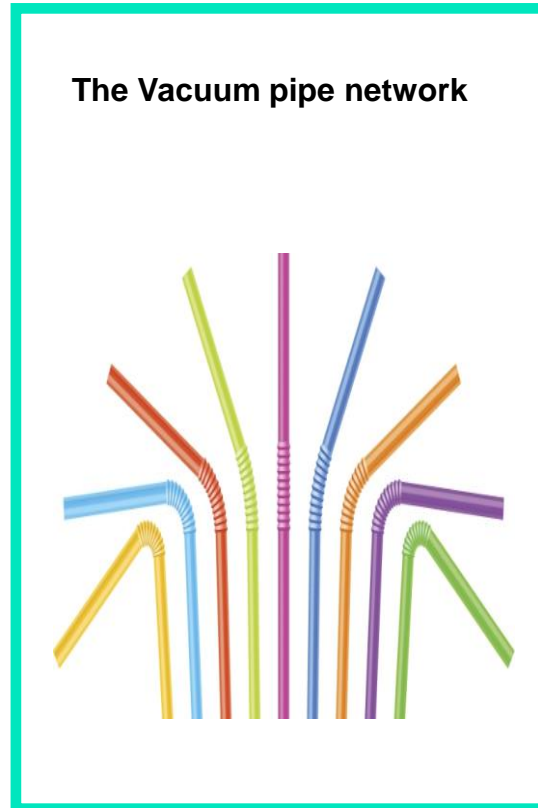


Acc. DIN EN 12109 a vacuum system consists of three major components:

The Vacuum Station



The Vacuum pipe network



The Vacuum Evacuation Units



The Acceptable Different Piping Materials and Dimensions for the Installation of Vacuum Pipes

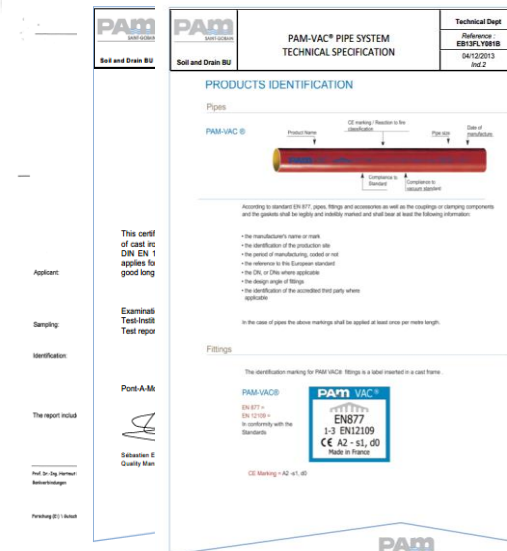
Pipe type	PAM-VAC without coupling Cast Iron Pipe	PE-HD SDR 11 / PE 100	Steel / Stainless Steel Plug-in Socket Pipe	Press- Stainless Steel Press-Socket Pipe
Application	In the Building Engine room Plant room	In the Building Engine room Plant room	In the Building Engine room Plant room	In the Building
Standards	DIN 8074 DIN8075 DIN EN 12201 DIN EN 12109	DIN 19522 DIN EN 877	EN 1124-1 EN 1124-2	DIN 17122 DIN 17455
Maximum Under pressure	-0,90 bar	-0,80 bar	-0,80 bar	-0,80 bar
Connection Type	SMU-Coupling G-INOX Connector	Electric- Welding-Fitting	Plug-in Connection with special Lip seal	Press-Sockets

VACUUM PIPE NETWORK - SAINT-GOBAIN PAM-VAC VACUUM PIPES



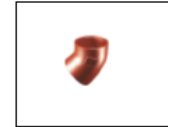
Saint-Gobain PAM-VAC

- Tested and certified acc. DIN EN 12109
- Dimensions DN 50/80/100
- Contains all required fittings
- Contains all required couplings

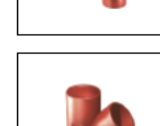
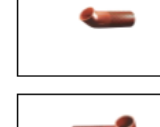


PAM-VAC® Pi Product range

PAM-VAC® Pipes Fit for ROEDIGER® Sanitatio



PAM-VAC® Pip Product range



PAM-VAC® Pipe System Product range



	1.20 PAM-VAC® Flange
Ref.Nr.	DN
400007645	100

	1.21 PAM-VAC® Application bend
Ref.Nr.	DN
400007646	50x50 long
400007647	60x50 long

	1.22 PAM-VAC® Application T-bend
Ref.Nr.	DN
400007648	50x50x50

	1.23 PAM-VAC® SMU Coupling, EPDM-Gasket, DIN EN 877, Material 1.4510/11, CE-Marking
Art.Nr.	DN
400008262	50
400008263	80
400008264	100

	1.24 PAM-VAC® UNIGRIP Grip-Collar
Art.Nr.	DN
400007652	50
400007653	80
400007654	100

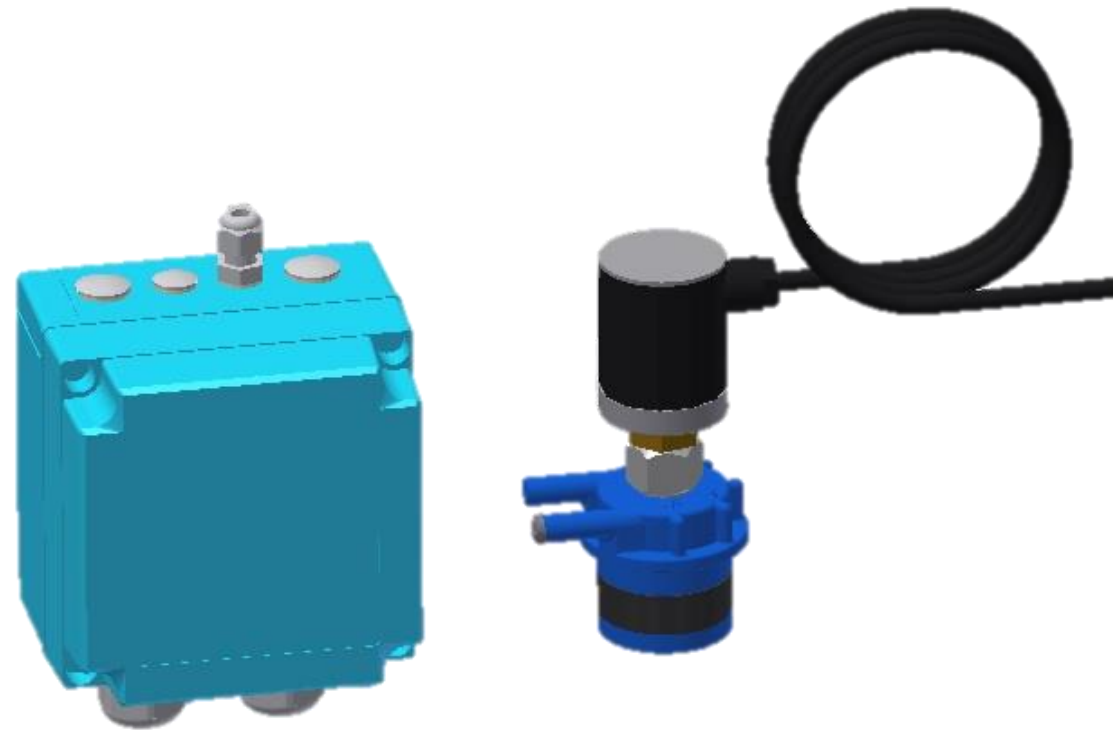
	1.25 PAM-VAC® UNIGRIP Grip-Collar for expansion plug
Art.Nr.	DN
400007655	50
400007656	80
400007657	100

	1.26 PAM-VAC® Ultraquick Universal flange adaptor
Art.Nr.	DN
400008274	50/80

Pipe Monitoring System - wireless

Application: Wireless Monitoring Of
Vacuum Pipes/Evacuation Units

Components: GSM Module
Power Pack
VES – Plug with Sensor
Connection Cable



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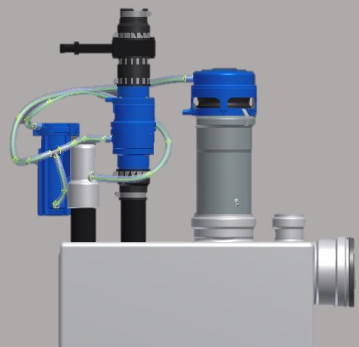



The Vacuum pipe network



The Vacuum Evacuation Units



Vacuum Toilets		Liquid Evacuation Units	
Wall Mounted Toilets	Floor Mounted Toilets	Tank Evacuation Units	Membrane Evacuation Units
Type Roediger	Type Roediger	Type 1	BA
Type Roediger Silentium	Type Roediger Silentium	Type 5	GK
Type Laufen	Type Stainless Steel	Type 7	
Type Stainless Steel		Type 25	
			

ROEDIGER VACUUM EVACUATION UNITS VACUUM TOILETS



Roediger

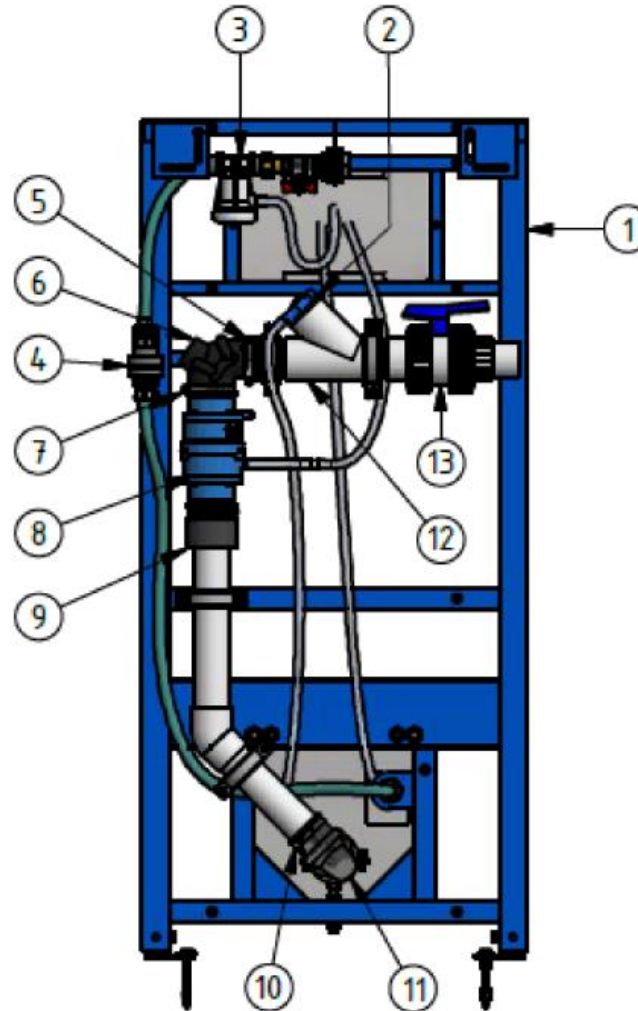
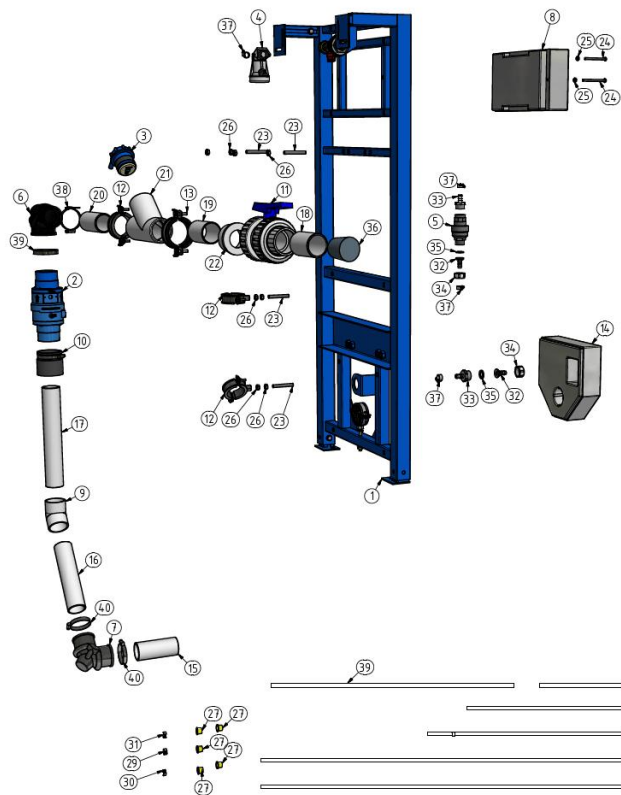


Roediger Vacuum Toilet Type Laufen Toilet Bowl

- Wallmounted Toilet
- Vitreous China
- Slim Walls
- Weight: appr. 17 kg
- Integrated Vacuum Buffer
- Rimless
- Efficient Flushing Nozzles
- Hygienic – No Overspray; No Cross-Contamination
- Water Consumption 1l/flush
- Integrated Silentium Technology
- Noise Emission: 76,9 dB (A)
- Contemporary Design (Pro-S)
- Various Seats Available



ROEDIGER VACUUM EVACUATION UNITS VACUUM TOILET TYPE LAUFEN - FRAME



Roediger Vacuum Toilet Type Laufen Pre-Assembled Frame

- Water valve
- Aqua-Stop
- Vacuum valve AV 40
- UVE-plug
- Push Button Controller
- Pneumatic Control and Operation
- Adjustable Water/Evacuation Time
- Memory Effect
- Integrated Odour Removal
- Operating vacuum: - 300 hPa (mbar) to - 600 hPa (mbar)
- Maintenance-Free

ROEDIGER VACUUM EVACUATION UNITS

LIQUID EVACUATION UNITS – TANK UNITS



ROEDIGER VACUUM EVACUATION UNITS

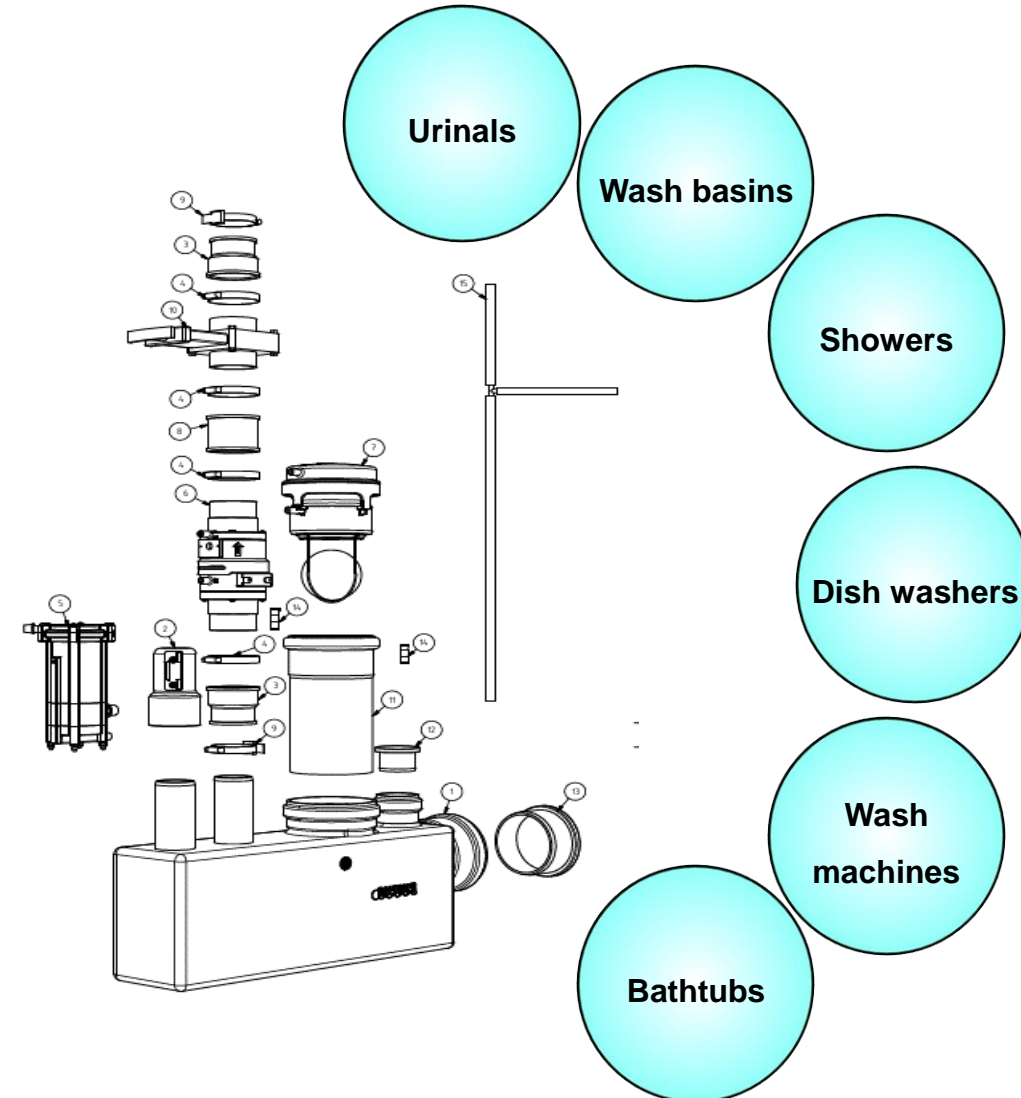
EVACUATION UNIT TYPE 5/7 - TECHNICAL DATA



Roediger

Pre-assembled Evacuation Unit Type 5/7

Tank material:	HDPE/Stainless Steel
Application:	liquids
Operating data:	
Operating vacuum:	- 300 hPa (mbar) to – 600 hPa (mbar)
Sensor pipe level:	70 mm
Evacuation performance:	approx. 140 l / min
Evacuation volume:	approx. 5.0 l/7.0 l
Weight :	net approx. 5,5 kg



ROEDIGER VACUUM EVACUATION UNITS

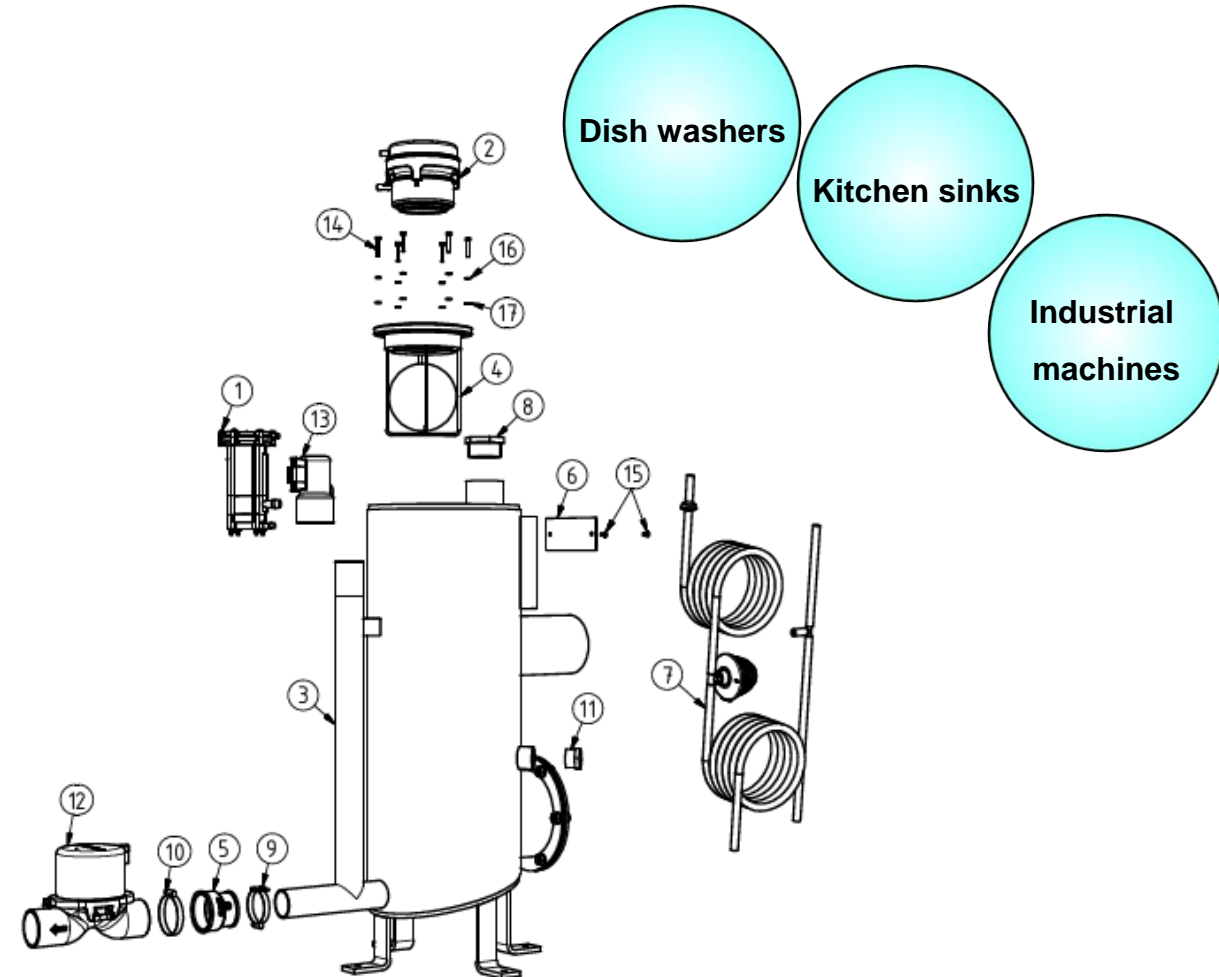
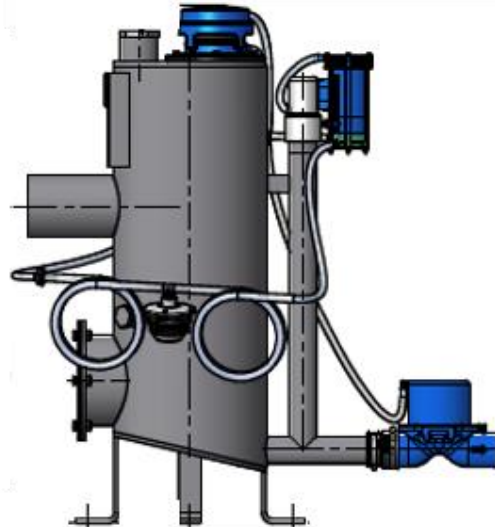
LIQUID EVACUATION UNIT – TYPE 1



Roediger

Pre-assembled Evacuation Unit Type 1

Tank material:	Stainless Steel
Application:	liquids
Operating data:	
Operating vacuum:	- 300 hPa (mbar) to – 600 hPa (mbar)
Sensor pipe level:	200 mm
Evacuation performance:	approx. 140 l / min
Evacuation volume:	approx. 15 l
Weight :	net approx. 15 kg



ROEDIGER VACUUM EVACUATION UNITS

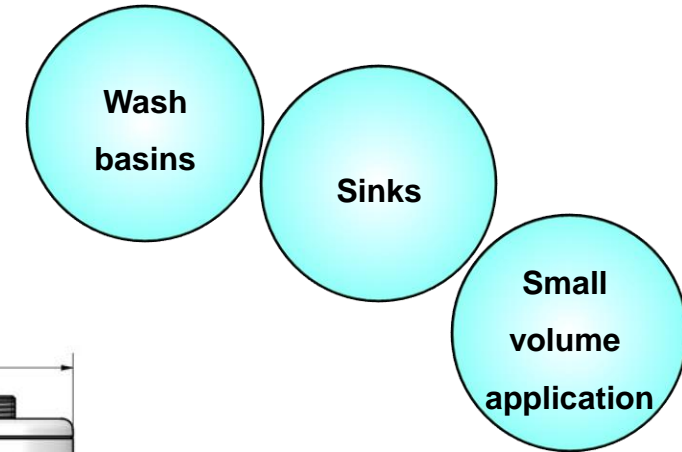
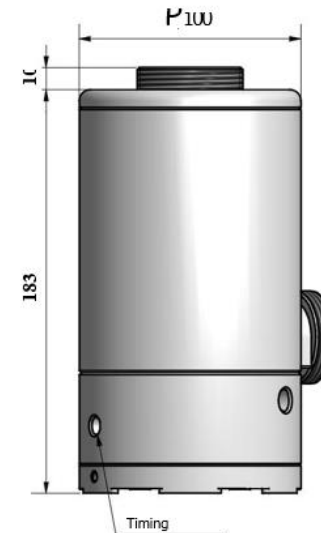
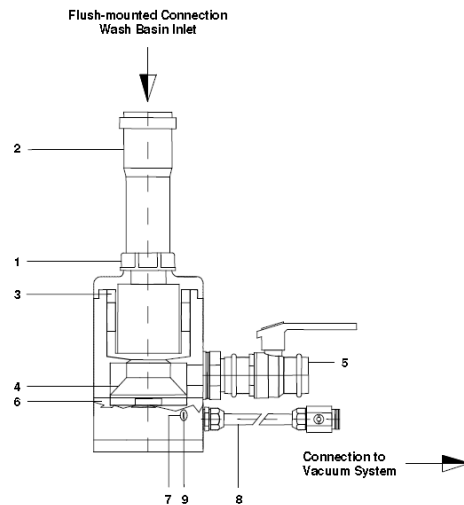
LIQUID EVACUATION UNIT – AE 25



Roediger

Pre-assembled Evacuation Unit Type AE 25

Tank material:	Stainless Steel
Application:	liquids
Operating data:	
Operating vacuum:	- 300 hPa (mbar) to – 600 hPa (mbar)
Evacuation performance:	0,25 l/cycle
Evacuation performance:	approx. 7,5 l / min l
Weight :	net approx. 1,5 kg



ROEDIGER VACUUM EVACUATION UNITS

LIQUID EVACUATION UNITS – MEMBRANE UNITS



ROEDIGER VACUUM EVACUATION UNITS

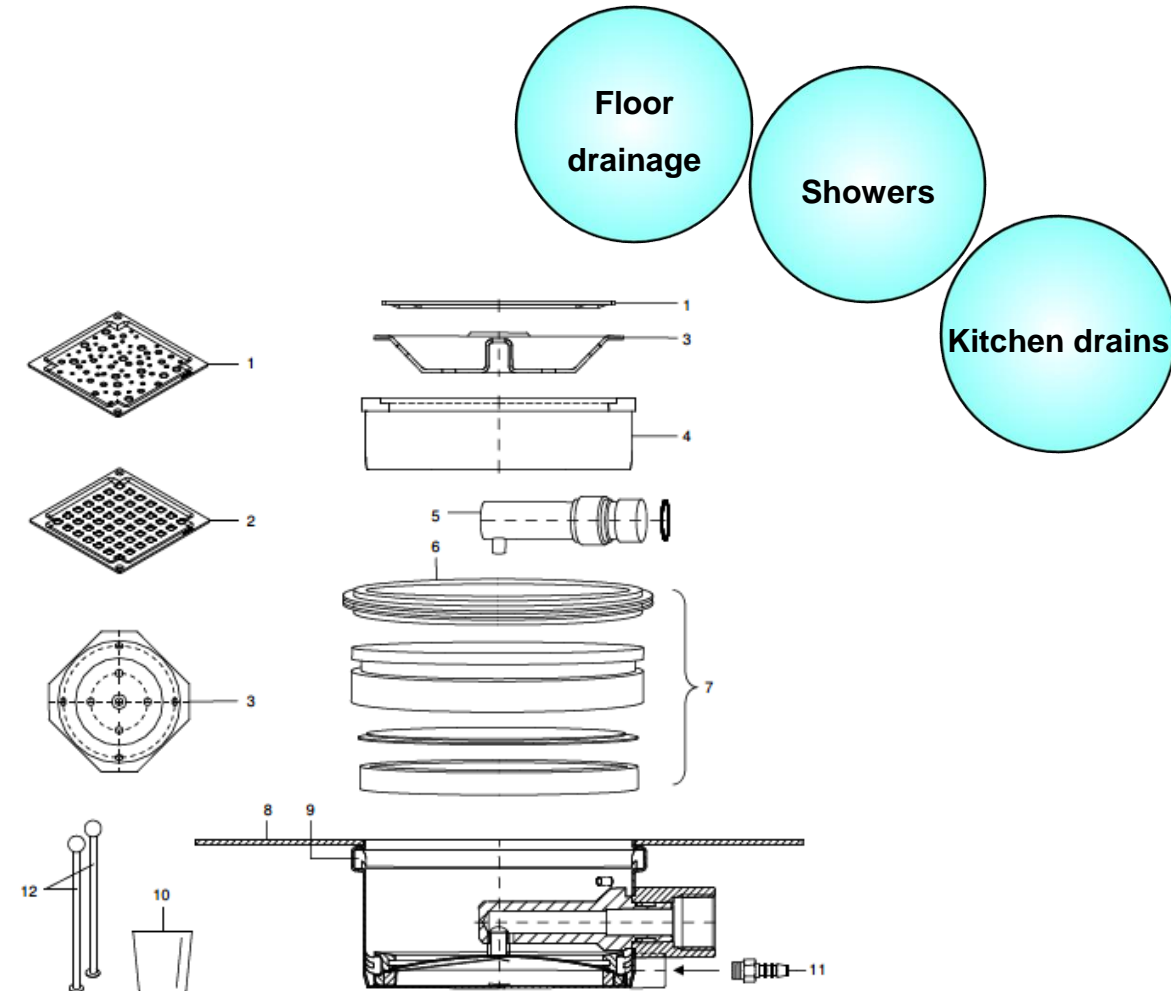
EVACUATION UNIT FLOOR DRAIN - TECHNICAL DATA



Roediger

Evacuation unit Floor Drain

Application:	liquids
Operating data:	
Operation vacuum:	- 200 hPa (mbar) to - 600 hPa (mbar)
Evacuation volume:	approx. 1.0 l / tact
Evacuation performance:	approx. 30 l / min
Connection drain:	G 1" IG
Connection atmosphere:	GES 8 / G 3/8"
Weight: net	approx. 4.5 kg



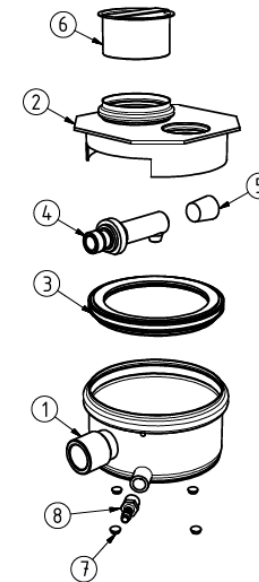
ROEDIGER VACUUM EVACUATION UNITS MEMBRANE UNITS – GK



Roediger

Evacuation unit Floor Drain

Application:	liquids (via pipe connection)
Operating data:	
Operation vacuum: (mbar)	- 200 hPa (mbar) to – 600 hPa
Evacuation volume:	approx. 1.0 l / tact
Evacuation performance:	approx. 30 l / min
Connection drain:	G 1" IG
Connection atmosphere:	GES 8 / G 3/8"
Weight: net	approx. 2.2 kg



Greywater
&
Condensate

Sinks

Industrial
machines

Wash basins