



## Vacuum Sewer System Roediger® Collection Chamber Type „Z“

### Product Description



Usually, there are conventional sewage systems inside the buildings of residential areas.

Wastewater flows through **gravity house lines** into the **collection chamber** located at the end of the gravity line coming out of a building. From this point on, wastewater is admitted into the vacuum system by means of a pneumatic vacuum valve.

The collection chamber does **not need to have any vacuum technology inside the building**, and it requires **no electrical energy supply**.

Wastewater retained in the collection sump generates pressure in a sensor pipe - this activates a compact pneumatic controller, which in turn opens the vacuum valve. The pressure difference causes the sewage to be evacuated from the chamber and to pass into the vacuum network.

**In this Type „Z“ chamber, the valve chamber is located above the collection sump.** The watertight **chamber body**, made of polyethylene, comprises the **compact controller**, the **vacuum valve** and the **vacuum interruption plug**. The sewage collection sump is separated from this dry, clean and frost-resistant valve chamber. A **highly flexible joining ring** buffers any possible tensional forces within the plastic and facilitates a quick adjustment in height, but always retaining the high degree of tight sealing that is required.

Our chamber system consists of components which are perfectly harmonized: *Chamber + Vacuum Valve + Controller* = the result of over 40 years of experience, and of more than 2,000 reference systems installed all around the world, that are being operated on a daily basis

### Advantages

**Cost Saving - due to reduced excavation**

The collection chamber consists of the valve chamber (upper part) and the collection sump (lower part). Both parts are assembled as a single unit, using a joining ring, and are customized on site, for the required installation depth.

**Versatile – the optimum solution for every situation**

Roediger collection chambers are available in **pedestrian, flood-proof and traffic-load designs**. Every collection chamber contains **a vacuum valve in one of two sizes**, resulting in the perfect collection chamber for every application.

**Completely water- and sewage-proof, with a separate valve chamber**

The absolute separation between the vacuum valve system and the sump containing the sewage provides for a perfectly clean and dry zone for key components, as well as **a safe and hygienic working environment.**

**Self-cleaning sump and pressure sensor pipe**

The horizontal positioning of the vacuum pipe, and the incline at the bottom of the sump with respect to the vacuum pipe, guarantees that the **sump is completely drained** during every sump evacuation operation. Consequently, no residual sewage remains in the sump and there is therefore **no** resulting sediment and **no** development of any **foul odours** within the collection chamber.

**No clogging, thanks to an integrated "bottleneck"**

Should a larger solid substance enter the collection chamber sump, an integrated "bottleneck" will stop it and block its further movement, thereby protecting the rest of the system from any clogging. A simple suction lance can be used to **quickly and easily remove such solids** from the sump, through an opening in the intermediate floor.

**Better than standard compliance**

Our products deliver maximum **functional safety** and **energy savings!** Whilst all meet the minimum requirements of DIN EN1091 and ATV 116-1, many parameters exceed them, due to our own high performance standards.

Characteristics	Collection chamber Type G Roediger®	Collection chamber Type Z Roediger®	Standard concrete chamber	Plastic chamber with single compartment
NO third-party water infiltration	+	+	-	+
NO sewage exfiltration into the soil	+	+	-	+
Sewage-water-free valve zone – "dry and hygienic"	+	+	-	-
Self-cleaning sensor pressure pipe	+	+	-	-
Self-cleaning sump	++	++	-	-
Installation is quick and easy—no lifting crane required	+	+	-	+
Swiftly assembled, due to pre-assembled parts	+	++	-	-
Bottleneck at the sump	+	+	-	-
Flexible installation/customization of feed depth	++	++	+	-
Complete sump drainage	+	+	-	-
Resistant to hydrostatic uplift	+	++	++	-
Optimized air inflow, due to the Roediger® Controller	++	++	-	-
Available in pedestrian, traffic-load and floodable versions	+	+	-	-
Double valve chamber with separate wastewater inflows	+	-	-	-
User-friendly - valve is close to the surface and readily accessible	+	+	-	-
Highly flexible joining ring minimizes internal tensions, lends stability and ensures for long life	-	+	—	

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