ROYAL Eijkelkamp
Meet the difference

Rain Gauge
with 200 cm², 400 cm² & 1000 cm² funnel size

200 cm²

400 cm²

The Rain Gauge

The Rain Gauge measures the amount of rain, snow or hail that falls on the ground. It functions as a "tipping bucket": the water passes through the funnel and is collected by a calibrated bucket. After a pre-set amount of precipitation, the bucket tips over, and automatically sends a signal to an external data acquisition system.

- The design of the rain gauge prevents rain from splashing in and out, as recommended by the World Meteorological Organization.
- A protection filter prevents leaves from falling inside the collector. The shape and size of the filter are designed to reduce possible clogging.
- The optional heating system makes sure snow or hail can be measured as well, while preventing evaporation of the water.

Technical Specifications of the Rain Gauge

Feature	Specification
Sensor type	Anodised aluminium tipping bucket with double magnetic contacts
Collecting funnel	Circular 1000 cm² Circular 400 cm² Circular 200 cm²
Resolution	0.2 mm (0.1 mm on demand with 1000 cm² models)
Accuracy	200 cm²: 1 tipping or better than 2% at an intensity of 24mm/h 400-1,000 cm²: 1 tipping or better than 1% at an intensity of 24mm/h
Range	0 - 300 mm/h
Levelling	Set of bucket with level
Electric output	200 cm²: Single contact 400/1,000cm²: Double contact (single contact on demand)
Working temperature	From -30°C to +70°C (with heater)
Recalibration	Annual check recommended
Maintenance	Periodic cleaning of the calibrated funnel and filter
Dimensions	h: 860 mm - Ø 430mm h: 480 mm - Ø 230mm h: 300 mm - Ø 160mm
Weight	15 kg (17 kg heated ver.) 3.5 kg (4,5 kg heated ver.) 0.85 kg (1,85 kg heated ver.)

Technical specifications of the heating system (optional)

Feature	Specification
Power supply	24 Vac
Power consumption	450W @ 24Vac model with 1000 cm² collecting funnel 60 W @ 24 Vac model with 400 cm² collecting funnel 60 W @ 24 Vac or 15 W @ 12 Vac model with 200 cm² collecting funnel
Trigger temperature	Ranging from 4°C e 6°C

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