

RF-Series Ramp Flumes

Fixed Size Flumes for Flow Measurement



Description

Global Water's RF-Series Ramp Flumes are low cost flumes built for easy installation and high accuracy.

Rugged Design

The Ramp Flumes are built from high grade 16 gauge galvanized steel and will resist most corrosive environments. The design utilizes rigid flanges and bracing to allow the use of soil as a backfill during installation.

Easy Shipping

The flumes are shipped unassembled to minimize cost of freight. The RF3.5, RF7, and RF10 units (with maximum flow rates from 3.5 to 10 cubic feet per second) can be shipped by UPS.

Simple Installation

Installation of a Ramp Flume is simple and straightforward. The flume can be transported to the installation site by hand horse, truck, or ATV. The large ramp flumes are heavy and will require excavation equipment for lifting and site preparation. However, surveying and complicated excavation are not required, so the cost of installation will be minimal. When installing, simply ensure that the flume is level from end to end and side to side. Only a nut wrench and screw driver are necessary for assembly, but gloves should be used for safety during installation.

High Accuracy and Low Maintenance

Extensive testing and evaluation under field and laboratory conditions have shown that the RF-Series Ramp Flumes consistently achieve accuracy to within 3% when properly installed. The increased flow velocity in the throat section discourages sediment accumulation in this part of the flume. The approach section near the gauge has a self-cleaning function that provides long intervals for debris-free operation and consistent accuracy. This allows for long periods of operation between cleanings and maintenance.

Features

- Low investment for accurate water measurement
- Wide flow rate ranges available
- Easy to install
- Self cleaning approach section
- Flumes with flow rates up to 10 cfs can be shipped via UPS

Applications

Ideal for small streams, irrigation ditches, and lined or unlined canals.

Ordering & Options*

Order No.	Flow Range (cfs)	Flow Range (gpm)	Shipping Weight
RF3.5	0.1 to 3.5	45 to 1,571	62 lbs (28 kg)
RF7	0.1 to 7.0	45 to 3,142	86 lbs (39 kg)
RF10	0.1 to 10.0	45 to 4,488	108 lbs (48 kg)
RF20	0.5 to 20.0	224 to 8,976	400 lbs (181 kg)
RF40	1.0 to 40.0	448 to 17,952	665 lbs (302 kg)
RF60	1.5 to 60.0	672 to 26,928	732 lbs (332 kg)

* Choosing the correct flume size is important. We suggest using the smallest size that will accommodate your channel's flow. Please contact Global Water regarding your selection.



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