

# EZ Flow Ramp Flumes

## Why would I choose an EZ flow Ramp Flume?



In today's resource conscious world, accurate measurement of water consumption is more important than ever. The EZ Flow Ramp Flume provides an economical way to accurately measure water.

### Measurement Accuracy

Extensive testing and evaluation under field and laboratory conditions have shown the EZ Flow Flume has consistently achieved accuracies to within  $\pm 3\%$ , when properly installed. The increased flow velocity in the throat section discourages sediment accumulation in this important part of the flume. The approach section near the gauge, while somewhat less self-cleaning, is tolerant of considerable sediment accumulation before significantly altering the flumes function. This provides for long periods of time between cleaning and maintenance.

### Durable Construction

The EZ Flow Ramp Flume is made from high quality galvanized steel for years of trouble-free service. They are designed with extremely rigid "flanged" construction throughout and utilize heavy cross bracing. The design allows the installation of the Flume in locations with heavy soil backfill or concrete channels.

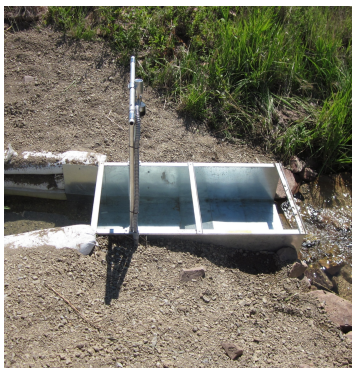
### Economical

The manufacturing process allows us to keep prices very affordable. Unlike other flumes where you may pay as much for shipping (because of the dimensional size and weight), the EZ Flow Ramp Flume is shipped unassembled for lower cost shipping and handling. The three smaller sized flumes can be shipped via FedEx or UPS with one shipping container dimensions 49x17x3. The 20 cfs Flume can now be shipped via FedEx or UPS in 3 containers each sized 41x31x5.



### Installation

The EZ Flow Ramp Flume is easy to assemble, even in the field. Initial assembly generally takes 1-2 hours, depending on size. As you are installing the flume in the water channel, just assure that it is level both end to end and side to side and that the top of the fixed frame is 2 to 5 inches above the high-water mark. It is really that easy. Unlike some other flume designs the EZ Flow Ramp Flume does not require site surveying or complicated excavation for proper and accurate installation.



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## Choosing the Correct Size

Choosing the correct flume size for your application is important. It is suggested that the smallest size flume that will accommodate the correct flow be used.

## EZ Flow Ramp Flume Dimensions

Part #	Min Flow Rate (CFS)	Max Flow Rate (CFS)	Length (Inches)	Throat Width (Inches)	Height (Inches)	Shipping Weight (lbs)
EZRF3.5	0.1	3.5	47 1/2	12 1/8	14 7/8	62
EZRF7.0	0.1	7	47 1/2	24 1/8	14 7/8	86
EZRF10.0	0.1	10	47 1/2	36 1/8	14 7/8	108
EZRF20.0	1.0	20	80	30 1/8	26	400



## Additional Features and Benefits

- Flexible in matching site requirements (being adaptable to earthen or concrete lined channels).
- Quick and easy installation in unlined channels. Sealing against water leakage is easily accomplished with compacted earth.
- Causes very little upstream ponding, usually less than one inch, so it can be used in flatland farming areas.
- Direct reading sidewall gauges eliminate the need to carry rating tables or to calculate flow rates. Gauges can usually be read from a vehicle on the channel bank.
- Optional Stilling Well can be added for long term continuous monitoring with a data logger and sensor.
- Remote data collection and telemetry options are available.



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## Stilling Wells

Stilling wells can be attached to the EZ Flow ramp flumes to enable use of a water level sensor. An adapter is added to the flume and the stilling wells are mounted directly to the flume. The stilling well is generally 2-inch or 4-inch PVC.



**4 inch Stilling Well**



**2 inch Stilling Well**

Feel free to contact one of our flume consultants for more information.