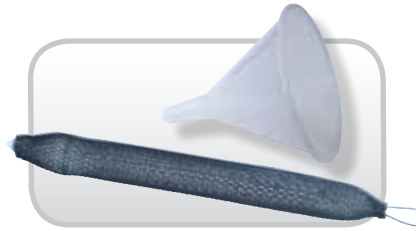


Equilibrator accessories

Equilibrator and Filling Kit

Order code	Description
EEQ - 350	Equilibrator diffusion sampler (350 ml)
EFK - 306	Fill kit (funnel) for Standard Equilibrator



Stainless Steel Hanger

Order code	Description
EEH - 310	Stainless Steel Hanger for Equilibrator (Re-usable) for attaching weights



Stainless Steel Weights

Order code	Description
EWT - 150R	SS weight 175g with eye & split ring (Ø35)
EWT - 250R	SS weight 275g with eye & split ring (Ø35)
EWT - 500R	SS weight 525g with eye & split ring (Ø35)
EWT - RING	SS Split ring (25mm) - Spares



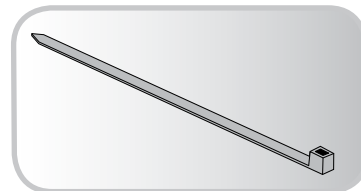
Reels and Cord

Order code	Description
ERL - 110	Hand reel with removable spool (Holds 100m of 3.5mm cord)
BC/K35 - 50	Lifting cord - 3.5mm dia polyester (50m)
BC/K35 - 300	Lifting cord - 3.5mm dia polyester (300m)
KC2 - 100	Kevlar rope (100m x 2mm - spooled)



Ties for tethering

Order code	Description
EWT - CT100	Cable ties (100mm) Pack 100



Equilibrator

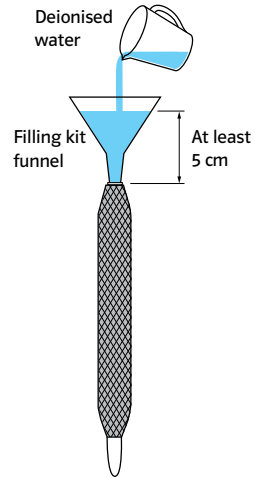
EQUILIBRATOR™



Filling the Equilibrator

1) Fill with deionised water

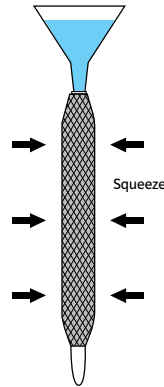
- Insert fill funnel into sampler nozzle.
- Pour deionised water into the Equilibrator.
- Fill to 5cm up the funnel.



2) Expel air pockets

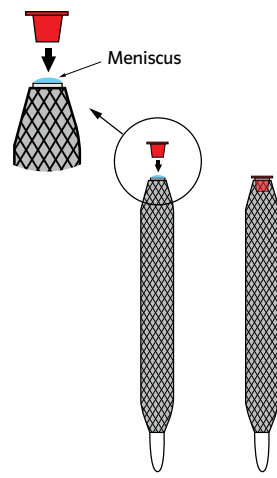
- Squeeze the sampler several times to expand the membrane and remove air pockets.
- Add more water as required.*

* Waterra recommends the user take a fill water 'blank' from each batch of water used and have the 'blank' analysed at the laboratory for QA purposes.



3) Insert cap

- Remove funnel and top up sampler to leave a meniscus.
- Insert cap firmly into the sampler as far as possible.



Note: The Equilibrator has a capacity of 350 ml

Sampled compounds

The following compounds can be reliably collected with the Equilibrator

Benzene
Bromodichloromethane
Bromoform
Chlorobenzene
Carbon tetrachloride
Chloroethane
Chloroform
Chloromethane
2Chlorovinyl ether
Dibromochloromethane
Dibromomethane
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
Dichlorodifluoromethane
1,1-Dichloroethene
cis-1,2-dichloroethene (1,2-DCE)
1,2-dichloropropane (1,2-DCP)

1,2-dichloroethane (1,2-DCA)
1,1-dichloroethene (1,1-DCE)
cis-Dichloropropene
Dibromochloromethane
Trans-1,3-Dichloropropene
Ethyl benzene
Naphthalene
Toluene
1,1,1-Trichloroethane (1,1,1-TCA)
1,1,2-Trichloroethane
Trichloroethene (TCE)
Trichlorofluoromethane
1,2,3-Trichloropropane
1,1,2,2-Tetrachloroethane
Tetrachloroethene (PCE)
Vinyl chloride
Xylenes

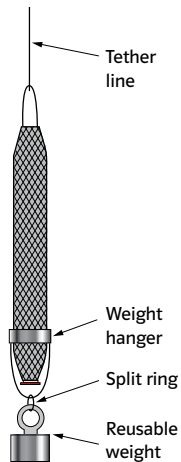
The following compounds are not suitable for collection with the Equilibrator

Acetone, Butanone, MTBE
Semi-volatiles
Inorganics

Deploying single Equilibrators

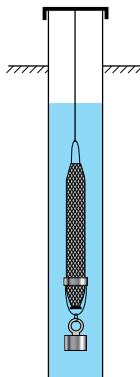
1) Attach Equilibrator to tether line

- Slide a weight hanger over the Equilibrator.
- Attach a reusable weight to the hanger.
- Tie the Equilibrator to the tether line.



2) Install the Equilibrator

- Lower the Equilibrator to the desired depth in the well.
- Fasten the tether to a secure location at the top of the well.
- Leave the Equilibrator in place for at least 10 days to reach equilibrium.

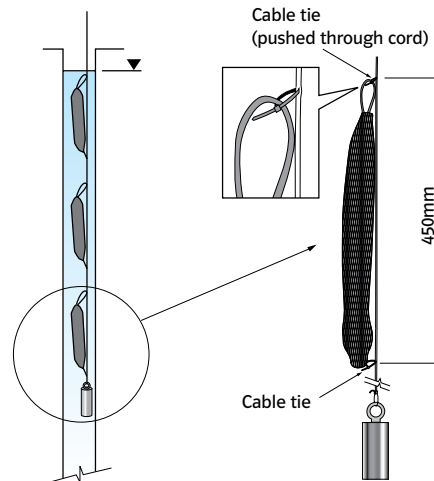


Deploying multiple Equilibrators

Hanger method (Recommended for 2 Equilibrators)

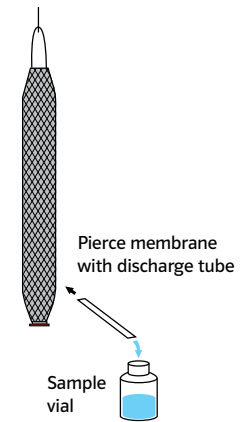


Tethered method (Recommended for 3 or more Equilibrators)



Collecting a sample

- Remove the Equilibrator from the well.
- Select a point on the Equilibrator near the bottom above the fill nozzle.
- Press one end of the discharge tube (supplied) firmly into the clear polyethylene membrane until it pierces it.
- Collect the sample into a vial. Gently squeeze the bag as necessary to release water sample.



Note: Samplers should be spaced at approx 1.5m intervals within the screened interval of a monitoring well.