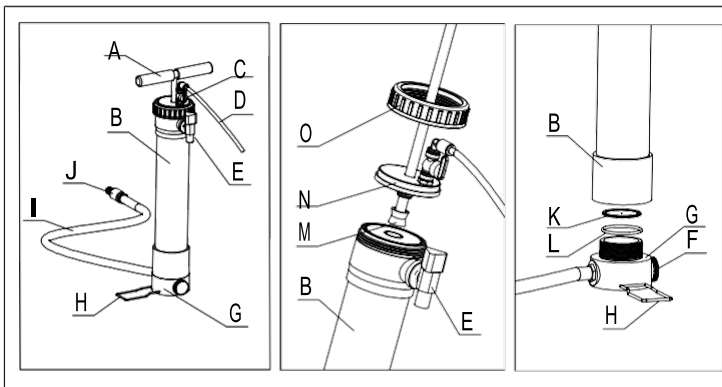


# SkyJuice **RESPONDER™** (UF - Safe Water Emergency System) Instructions & Maintenance Summary



Ref	Item Name	Ref	Item name
A	Handle	B	Filter housing
C	Air release/Flushing valve	D	Extension tube(optional)
E	Outlet Production water valve	F	Drain outlet
G	Lower end cap	H	Pedal holder
I	Suction pipe	J	Bottom valve
K	Stainless steel mesh	L	O ring
M	Double cone piston	N	Upper end cap
O	Screw cap		

## Instructions to commence **RESPONDER™** water production :

1. Connect the suction pipe (I) and place the bottom valve (J) into the water source; Make the bottom valve (J) at least 10cm above the bottom of the water source and above ground level.
  2. Place the Responder filter on the solid, level ground, open the pedal holder (H) and step on the pedal holder with one foot to stabilize the filter.
  3. Open the air release valve (C), close the outlet production water valve (E), and push the handle (A) at a constant speed until the air release valve passes water with no bubbles present. Then close the exhaust valve (C). Note: 1.
  4. Turn on the outlet production water valve (E) and place the cup or a water container under the outlet valve/tap. Continue to push the handle (A) at A constant rate.
  5. Open the air release valve (C) and turn off the outlet production water valve (E) after sufficient water production; Continue to push the handle (A) at a constant speed, and flush for 2-8min (at a constant speed). Withdraw the suction pipe (I); Open the drain outlet (F) empty the suction pipe and raw water in the housing (B).
  6. Once finished close all valves , clean for long term storage and safely store the Responder unit for future use
- Note 1: When the raw water is **poor** , then position the air release valve (C) in the half open position and cross-flow filtration mode will achieve a better overall result. (Ie, if water solids or turbidity or particles present)

## Instructions for backwash of the **RESPONDER™** unit :

When the water flow is low or the production water quality is poor or the operating handle (A) is difficult/tight to operate, then a backwash or clean is required. This is undertaken as follows:

1. Remove and clean the stainless-steel mesh (K). If the flowrate cannot be restored, proceed to the next step.
2. Carry out the backwash step, open the air release/flushing valve (C), connect to a clean tap water (water Pressure  $\leq 1$ bar) at the outlet production water valve (E), and flush for 5-10 minutes. If the clean water flowrate cannot be restored, proceed to the next step.
3. Replace the double-cone piston (M) and uniformly apply some food-grade silicone grease on the piston (M)

## Instructions long term storage of the **RESPONDER™** unit

1. Backwash the unit as instructed above. Please refer to step 1.2 above.
2. Empty the water in the housing but simple gravity draining of the unit.
3. Close or block the inlet and outlet of the unit.
4. Avoid heat sources. Store it above 0°C and keep it in a cool clean place to avoid exposure to sunlight.

## General advice and Information

*Please ensure that you have assessed & tested the desired feedwater water as suitable for consumption i.e. no toxic contaminants or obvious health issues. This unit is not suitable for saline or brackish water. It does not remove TDS. Users must complete and keep attached log sheets to assist with any warranty or performance issues/claims. Failure to comply will void any warranty. Production quantity will vary depending on feedwater contamination and organic loading. Performance is nominal and variations are normal. Ensure that the unit is backwashed regularly and stored in a clean sterile manner. Please contact SkyJuice for any technical information or ongoing support at [www.skyjuice.org.au](http://www.skyjuice.org.au)*