

Quick start Recycling Unit – R1000E

To start up the R1000E take the following steps

1. Put the unit on a leveled surface
2. Connect 1 hose from the R1000E outlet to the mixing tank and keep that R1000E outlet valve closed
3. Roll 1 hose from the R1000E outlet back to the pit keep this valve open
4. Put the pit pump with hose in the pit and connect the hose to the inlet of the R1000E, keep the inlet valve completely open
5. Plug in the plug of the pit pump into the wall socket for the pit pump on the R1000E, put switch in on position
6. Turn/Pull emergency button on main panel to make sure it is not activated
7. Connect the power cable to the generator or other supply
8. Check fase guard, when red light at main panel of the R1000E is “on” change fase at generator or supply side
9. When fase guard light is off turn main switch to on position
10. Turn on shaker
11. Turn on pit pump, this pump will now start feeding the R1000E because floaters are in down position
12. Turn on transfer pump, this will stay in standby mode white light burning until fluid runs over to clean tank and floater goes up, (this will start transfer and stop pit pump)
13. Open little ball valve to bleed air from the circulation pump and close when fluid run out
14. As soon as circulation tank is full and starts running over to clean tank start circulation pump
15. Close R1000E inlet valve
16. Let fluid circulate internally until it looks steady
17. Slowly open inlet valve, pit pump will be on because floaters in clean tank are down and you will start feeding the unit
18. Circulate between pit and R1000E until it looks steady
19. Slowly open outlet valve to mixing tank when there is room in there
20. Close outlet valve to pit half way and leave it there, later determine to open or close more depending on demand
21. From this point on you mainly (only) control the outlet valve to the mixing tank according demand (or open outlet valve R1000E and control flow with inlet valve on the mixing tank when hose is connected) you can even close this completely because in that case floaters will make sure pit pump and transfer pump keep circulating fluid and R1000E cannot overflow because of floater shut down pit pump in up position

! When for some reason you close the outlet valve for a longer time keep 1 eye on the shaker and if there is no sand coming of anymore it will mean that with all the circulation internal and recirculation from the pit the fluid is clean and no need to run the R1000E anymore. But only stop when this is for longer periods because you need to start and stop in above procedure all the time so when it is only for small time leave the unit running all the time.

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Points of attention

- The unit is fairly compact so if pit pump is close and there is small height difference from pit to R1000E there is the max flow on the pit pump so if you are not pumping out in same flow with the transfer pump the R1000E will overflow. It can be because there is more back pressure on the transfer pump, for that reason you need to close little the inlet on the R1000E to slow down the pit pump
- Make sure there are no squeezed spots in the hoses that can be one of the reasons for flow difference
- Or if the way to the mixing tank is much higher, 10 mtr difference is the max
- Or the pit is overflowing it can be that the inlet valve is closed to much or blocked because of big particle, just open or wiggle rapidly the handle of the inlet valve to loosen up debris
- Sometimes there is metal in the fluid from drill pipe thread damage or other reasons, that accumulate on the back side of the floater magnetic contact and sometimes floater will not switch and unit will overflow simple clean by hand
- If valves are adjusted over some time you can run the unit automatically until flow gets higher from high pressure pump, lower flow is no problem and no adjustment needed
- Keep a good eye on the pump flow of the high pressure pump in combination with the sand content
- Capacity of pit pump and transfer pump is the same, if they have the same back pressure that is ideal and you can go as far as 1000 ltr easily
- But then sand content should not be higher than 15%