

Short Instructions Serial Diluter UA

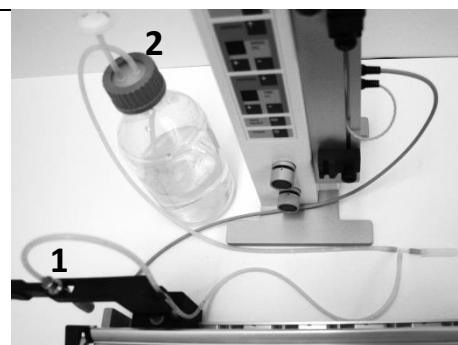
These instructions are a supplement. For detailed information please consult the operation manual. For demonstration videos visit www.inlabtec.com.

Commissioning

Following components have to be present:

- Dispensing Nozzle 140011 with Tubing Set 100010, sterile
- Diluent in bottle with Connector Cap GL 45 100020 or in bag with tube connector, sterile
- 10 ml Pipette, in plastic or glass, sterile

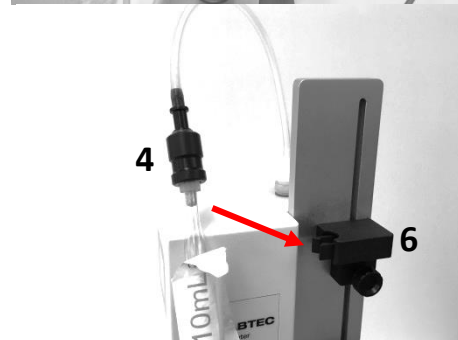
- Place dispensing nozzle into dosing arm (1).
- Connect aspiration tubing to diluent (2).



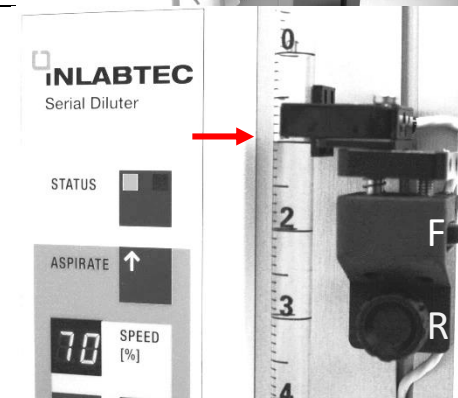
- Switch instrument on and press OPEN VALVES.
- Insert T piece into lower pipette holder and tubings into pinch valves (3).
- Press open OPEN VALVES again for closing pinch valves.



- Connect 10 ml pipette to upper pipette connector (4).
- Remove cap from pipette connector (5).
- Insert pipette tip into pipette connector.
- Attach pipette end (mouthpiece) to pipette holder (6).



- Adjust lower end of sensor to 9 ml (arrow).
- Press constantly ASPIRATE until the diluent rises slowly without bubbles in the pipette.
- Volume correction: Loosen screw (R) to move sensor or correct by the fine adjustment (F) and press ASPIRATE after each sensor movement.



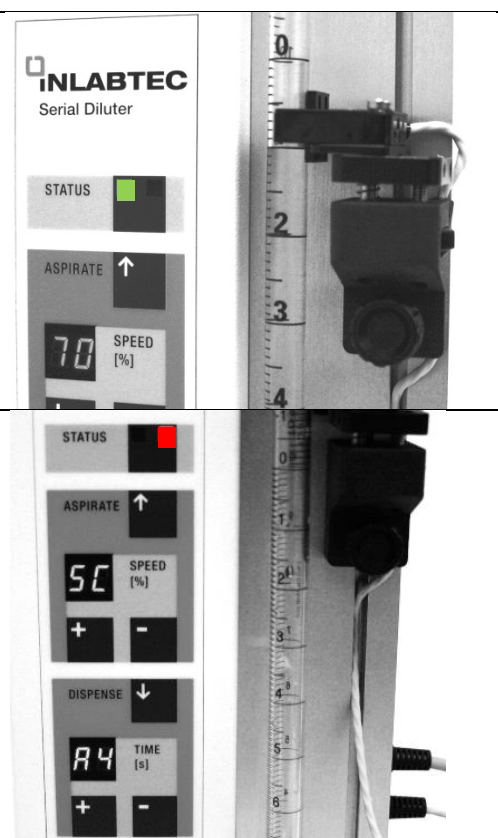
Devise control panel

Functionality of the buttons: First press activates, second press stops, constant pressing keeps selection active as long as it is pressed.

ASPIRATE	Fills up pipette to the level determined by the sensor position.
SPEED [%]	Speed of aspiration. Standard: 50 – 75 %. Keys +/ - for adjustments. Reduce speed if bubbles are formed in the pipette.
DISPENSE	Dispenses content of pipette.
TIME [s]	Blender/ mixing time. Standard: 3 seconds. Keys +/ - for adjustments.
OPEN VALVES	Opening and closing pinch valves.
POWER	On and off.

Operating states

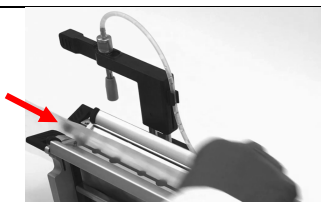
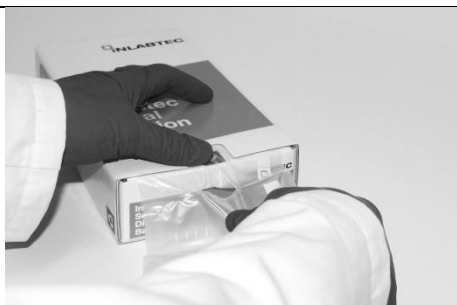
- If STATUS ■ = Serial Diluter not ready, press ASPIRATE to get STATUS ■ = Serial Diluter ready.
- Serial Diluter ready does mean: Ready for sample dilution. Diluent in the pipette as determined by the sensor position.



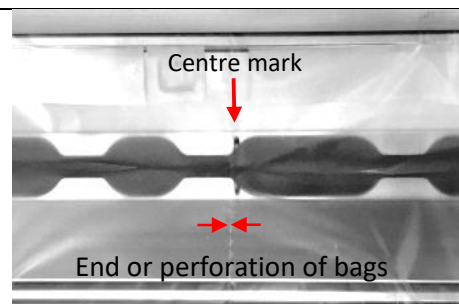
Reasons for STATUS ■ = Serial Diluter not ready:

- Instrument has been switched on for commissioning.
- After switched on, the volume in the pipette has not been verified by pressing ASPIRATE.
- Process interrupted because dosing arm has been lifted before diluent completely dispensed.
- Process interrupted because any key has been pressed during operation.
- Process interrupted by system controller & message generated:
 - A4: container with diluent empty.
 - A2: pipette not filled correctly.
 - Other messages: see operation manual

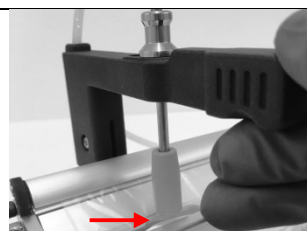
Dilution Process



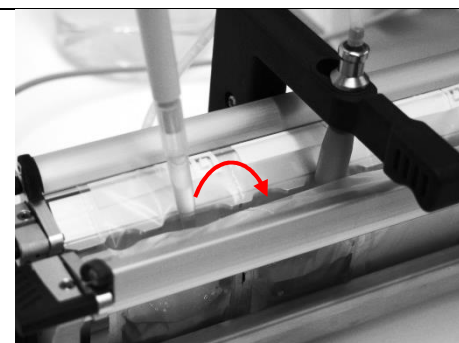
Bag insertion into bag holder from the side.



- Pull the bags out of the box and tear off.
- Insert bags and align end or perforation with centre marker.



To move dosing arm, rise until cap slightly lifts off and move to the right.



- Open bags and fill first bag by turning dosing arm forward.
- Add sample through the free opening of the filled bag and move the arm to the right to mix and fill next bag.
- Transfer diluted sample into second bag and move dosing arm again to the right.

- Mixing sample in last bag: Turn dosing arm back into park position.

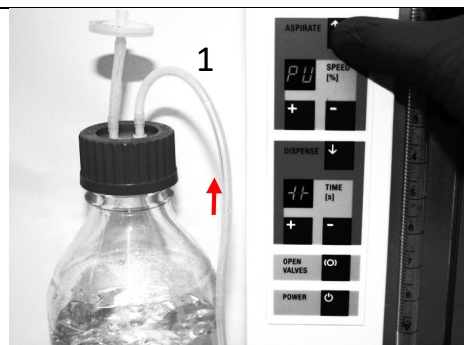


- Removal of used bags: Press down the side handles on both sides of the bag holder to detach bags.



Deinstallation

- Press OPEN VALVES.
- Press ASPIRATE to return the diluent until the aspiration tubing is empty (1).
- Press OPEN VALVES again to close pinch valves.



- Place dispensing nozzle and aspiration tubing into water.
- Press ASPIRATE followed by DISPENSE. Repeat water rinsing 2 times.
- Press OPEN VALVES
- Press ASPIRATE until aspiration tubing is empty and bubbles rise in the water.



- Remove tubing set and dispensing nozzle.
- Close tubing ends with the caps (arrow).
- Autoclave tubing set and dispensing nozzle.

