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Thermo Scientific CW3 Cell Washer

Quick Installation Guide

50159195-b • 2021-11

ThermoFisher SCIENTIFIC

Accessories supplied with the unit



1 – Saline tank
2 – Bowl assembly
3 – Test tubes
4 – Motor guard plate
5 – Grease
6 – Inlet tube (inner diameter 10 mm)
7 – Drain tube (inner diameter 18 mm)
8 – Hose bands (three pcs.:
small, medium, large)
9 – D10 adapters
10 – Tube connector
11 – Hex wrench
12 – L-shaped adapter

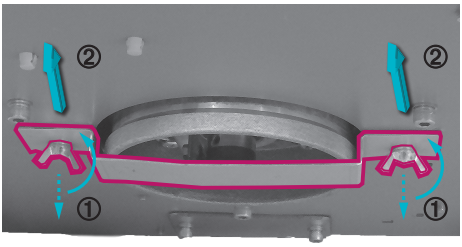
1. Install Motor Guard Plate

1



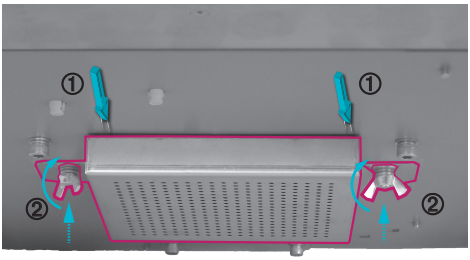
To remove the motor holder, put the unit on the left side (as seen from the front). Use the styrofoam blocks as support.

2



① Loosen the wing nuts counter-clockwise.
② Remove the motor holder at the bottom of the unit.

3



① Install the motor guard plate
② Tighten the wing nuts.

4

Return the unit to the upright position.

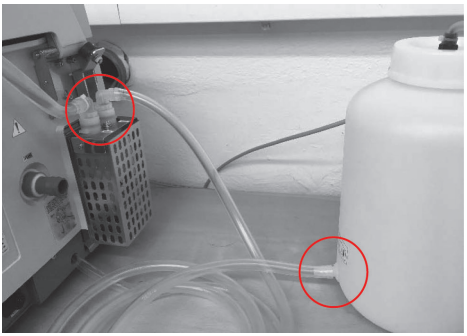
2. Connect Power Cable



Plug in the power cable at the back of the device.

3. Connect Saline Tank

1



Connect the bottom outlet of the saline tank to the inlet of the device using the 10 mm dia. tube (no. 6 of items supplied, see page 2). Secure the tube on both ends with the small and medium hose bands (no. 8 of items supplied).

2



Connect the 18 mm dia. tube (no. 7 of items supplied, see page 2) to the drain port in order to direct waste liquid to a tank or sink.

3



Optional: Use the L-shaped adapter if necessary. Secure it with the largest hose band (no. 8 of items supplied, see page 2).

4. Connect Buffer Sensor Cable

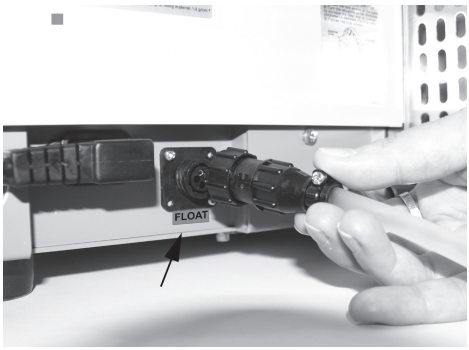
1



Fill the saline tank with saline. The fill level must be higher than the liquid sensor inside the bottle.

The 10 mm dia. tube connected to the cell washer must be positioned higher than the other end connected to the saline tank.

2



Connect the liquid sensor cable from the bottle to the FLOAT connector at the rear of the device.

5. Check Correct Seat of Rubber Gasket



1 – Fasteners
2 – Drain cover
3 – Splash guard
4 – Packaging
5 – Rubber gasket

5. Check Correct Seat of Rubber Gasket (continued)

1

Power the device on, open the door and remove the packaging to access the rubber gasket.



Slide the two fasteners outwards to the open position.

2



Pull the drain cover and fully remove it from the unit.

5. Check Correct Seat of Rubber Gasket (continued)

3



Lift and take out the splash guard.

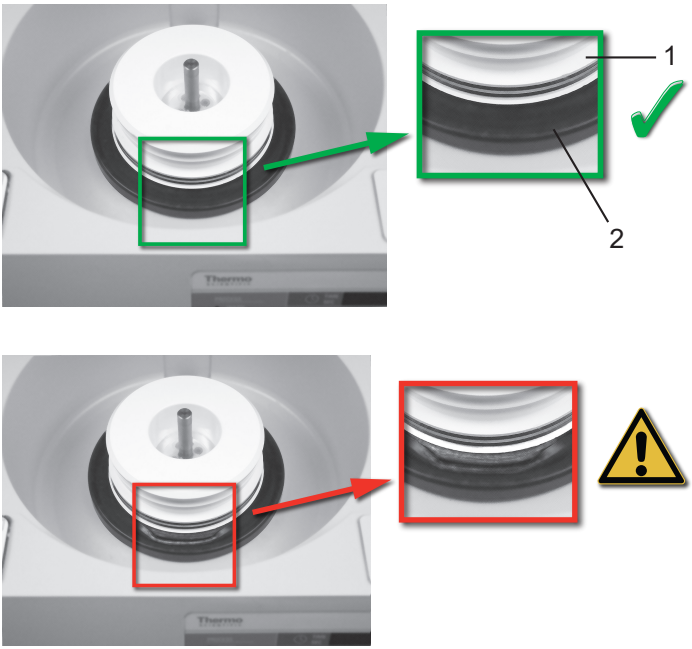
5. Check Correct Seat of Rubber Gasket (continued)

1. Check whether the white decantation coil (1) rotates freely without rubbing against the black rubber gasket (2).

2. Inspect the black rubber gasket. It should be seated without warping (as shown in the bottom picture) all around its circumference, as shown in the top picture.

To correct the seating, push the decantation coil in one direction and the rubber gasket in the opposite direction. Continue like this until the rubber gasket is properly seated and flat against the bottom of the chamber, as shown in the top picture.

4



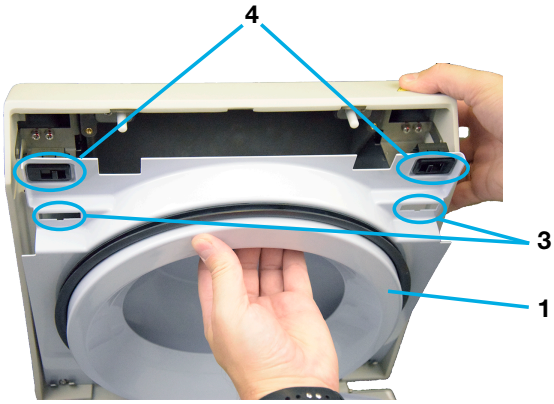
6. Install Splash Guard



Put the splash guard into the rotor chamber.

7. Install Drain Cover

1



Align the bottom end of the drain cover (1) with the hinges at the rear side of the lid.

2



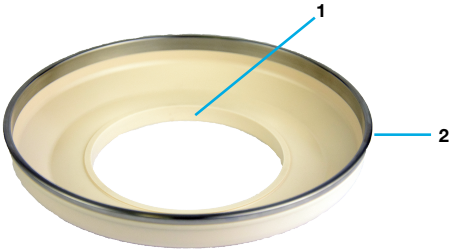
Align the lid hooks (2) with the slots (3) (see step before) of the drain cover and push the drain cover firmly into the lid.

The drain cover has to be pushed beyond the springs of the hooks.

Press the top of the drain cover firmly into place until the two fasteners (4) (see step before) engage with a clicking sound.

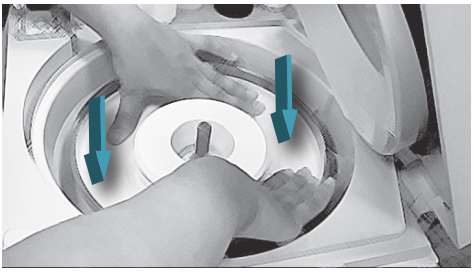
8. Install Bowl

1



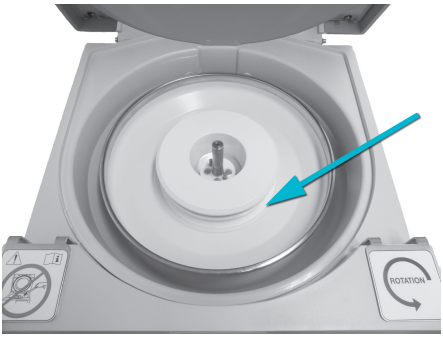
Apply grease delivered with the device (no. 5 of items supplied) onto the inner rim (1) of the bowl (2).

2

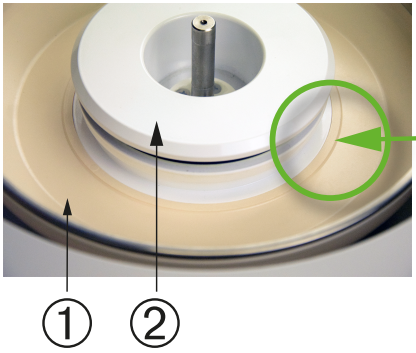


Center the bowl around the white decantation coil and push it with force into end position.

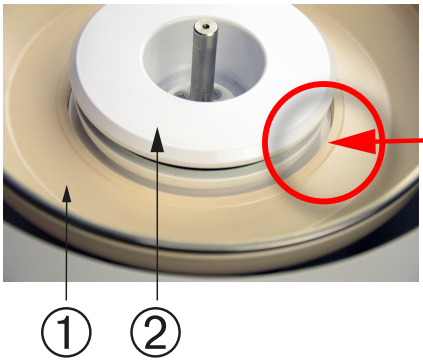
3



Check the position of the bowl (1) relative to the decantation coil (2).



Correct end position:
The bowl ① and the decantation coil ② must be flush with each other without a remaining step.



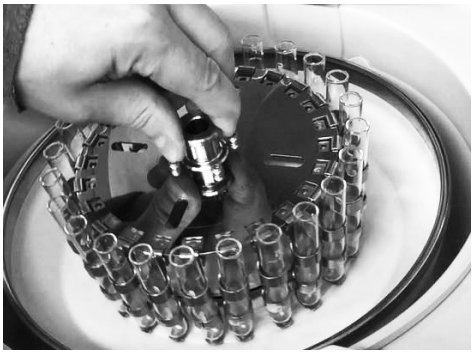
Wrong position:
The bowl ① and the decantation coil ② are not flush with each other with a remaining step.

8. Install Bowl (continued)

⚠	**CAUTION**
Misalignment of the bowl can result in error message E14 or E16.	

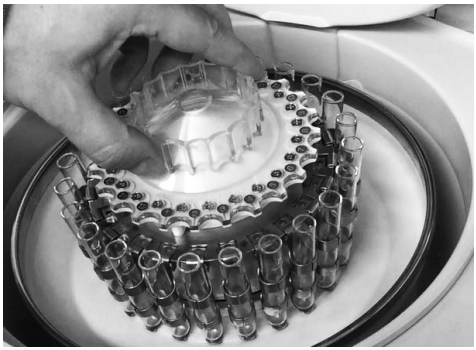
9. Install Rotor and Distributor

1



Put the rotor onto the shaft and turn the rotor until it is engaged with the drive shaft. Further turning of the rotor will now turn also the bowl.

2



Put the distributor on the rotor and turn it until it engages with the rotor.

10. Prime (Ventilate) of Pump

1



With the saline tank filled with buffer saline, hold a beaker or container to the nozzle at the bottom of the lid.

2



Open the cover of the condition-setting panel at the front bottom of the unit.

3



Press SALINE PRIME to discharge the saline until the saline coming out of the nozzle is free of bubbles.

NOTICE

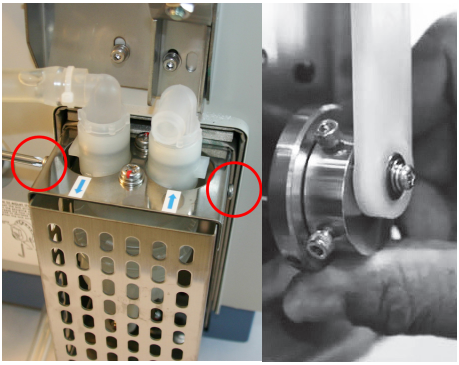
The injection volume is factory set to 96 ml for a 24-place rotor with 12 mm dia. tubes. In case a change of the injection volume is required, please refer to the instructions for use.

11. Set Injection Volume

NOTICE

For further information refer to the instruction manual, page 34 and 35.

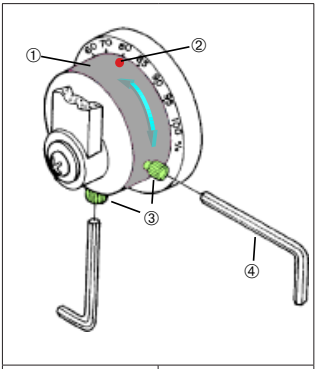
1



Turn the power off. Remove the screws (highlighted in the picture at left) with a screw driver.

Remove the protective cover from the pump at the back of the device to expose the adjusting knob, shown in the picture at right.

2



①	Adjusting knob
②	Indicator (red dot)
③	Locking screws
④	Hex wrench

Loosen the two locking screws on the adjusting knob of the pump anticlockwise, using the hex wrench (no. 11 of items supplied).

Turn the adjusting knob to set the indicator value as specified below:

Rotor	Test tube	Setting
12 place	12 mm	45 %
12 place	10 mm	30 %
24 place	12 mm	80 %
24 place	10 mm	60 %

Tighten the two locking screws clockwise.

12. Measure Saline Injection Volume

NOTICE



For further information refer to the instruction manual, page 32 and 33.

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CE IVD

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Shown pictures within the manual are examples and may differ considering the set parameters and language.

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