

## System Installation Manual (SW18, SW25)

The System should be installed according to the MMS recommendations below. MMS can offer installation support if required. Please refer to the operating manual for further information on how to operate the system.

Please refer to the PID and the utility list in the folder for the recommended dimensions and connections.

### Placing the System:

- **Distance:** the system should be positioned to allow access for operation and service. MMS recommend at least 1 m from each side of the system.
- **Temperature:** The system should be installed indoors at a temperature between 5 and 30 °C and a humidity level below 80 %.
- **Support feet:** The system should be placed at ground level and the support feet should be adjusted to stabilize the system and to compensate surface irregularities.
- **Drain:** The drain connection of the system should be placed close to a location which allows for drainage of water, product and CIP solution.



#### Caution:

- Ensure that the system is depressurized and that all pumps are switched off before connecting the utility lines.
- The system or its instruments may be damaged due to vibrations if the support feet are not adjusted to stabilize the system.
- The system may be damaged if the humidity is higher than the recommended level.

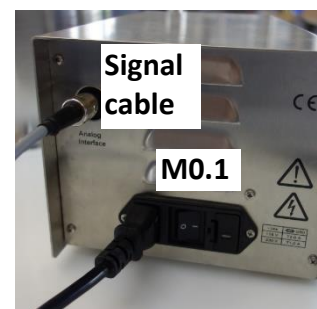
#### Caution



### Electrical Connections:

Please refer to the electrical diagram for information on the electrical requirements.

- **System power supply:** Connect the main power plug of the cabinet to the local power supply (16A plug, 400V/50 Hz).
- **Peristaltic pump M0.1 (optional):** Connect the power plug and the signal connection cable from the cabinet to the peristaltic pump.



**Utility and additional System Connections** (system featured for display purposes only):

- **Utilities:** Please connect all utilities according to the Utility List.



Permeate hose between membrane housing and FT10.1

Nr. 3: Permeate outlet

Nr. 1: Feed inlet (for external tank)



Nr. 4: Water inlet

Nr. 5: Cooling water outlet

Nr. 6: Cooling water inlet



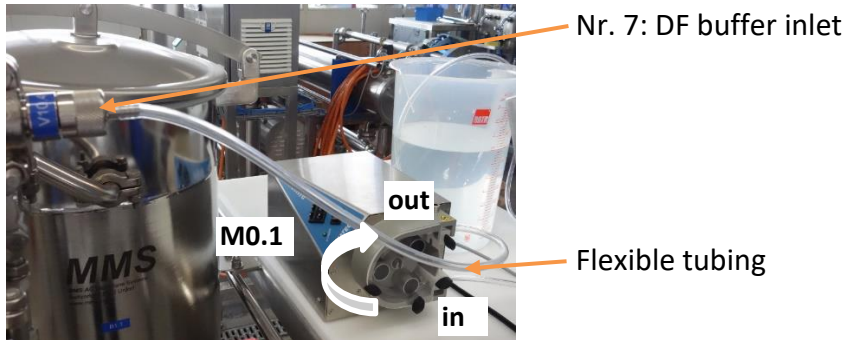
Nr. 2: Retentate outlet

Drain

Recirculation to external feed tank

- **Peristaltic pump M0.1 (optional for diafiltration or continuous mode):** Install the flexible tubing and connect the outlet on the top part of the pump to valve V10.4. Recommended tubing:

ID	Wall thickness	Flow rate VC-380 for water and Tygon tubing
4.8 mm	1.6 mm	13 – 13000 ml/min



- **Permeate back pressure control (optional):** Install the valve RV10.2 and the pressure transducer PT10.2 between the flowmeter FT10.2 and the permeate hose from the membrane (only for hollow fiber or ceramic membranes).

