

RAIN TO MAINS INSTALLATION CHECKLIST

A practical on-site checklist for trade professionals installing and commissioning a Rain to Mains system. Always refer to the relevant product installation instructions and applicable plumbing requirements for the specific installation.

Before starting

- ☐ **Confirm the pump is suitable for the application** - check the pump specifications against the requirements of the installation.
- ☐ **Check required flow and pressure** - make sure the selected pump can meet the flow and pressure required for the application.
- ☐ **Confirm which outlets will use rainwater** - including the outlets that may be operating at the same time.
- ☐ **Check the location and type of rainwater tank** - consider how the tank setup affects the installation.
- ☐ **Check the power supply** - confirm it is suitable for the pump being installed.
- ☐ **Check pipe sizes and required connections** - make sure the required pipework, fittings and connections are accounted for before installation.
- ☐ **Read the product installation instructions** - check the requirements for the specific products being installed before starting.

Installing the pump

- ☐ **Position the pump correctly** - follow the positioning requirements in the product installation instructions.
- ☐ **Check required clearance and ventilation** - allow for the clearance and airflow specified for the pump.
- ☐ **Protect the pump from weather where required** - use a suitable pump cover where weather protection is required.
- ☐ **Use the correct inlet and outlet pipe sizes** - check these against the requirements for the pump and installation.
- ☐ **Support pipework correctly** - make sure pipework is adequately supported around the pump and connections.
- ☐ **Check the suction line** - check the suction line and its connections before starting the system.



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- ☐ **Install required valves** - check the requirements for the installation and use full-flow valves where specified.
- ☐ **Check all connections** - complete a final check of connections before moving on to start-up.

Installing the Rain to Mains device

- ☐ **Check the correct installation orientation (flow direction)** - confirm the device is installed in the specified direction of flow.
- ☐ **Confirm mains and rainwater connections** - check both supplies are connected to the correct points.
- ☐ **Install required isolation valves (full-flow valves)** - check the product installation instructions for the required valve arrangement.
- ☐ **Check backflow requirements** - confirm the installation meets the applicable requirements.
- ☐ **Check controller settings** - check settings against the requirements for the product and installation.
- ☐ **Confirm cut-in pressure where applicable** - check the required cut-in pressure for the system being installed.

Priming and starting the system

- ☐ **Prime the pump where required** - follow the priming requirements for the specific pump.
- ☐ **Remove air from the suction line** - make sure air has been cleared before normal operation.
- ☐ **Check valve positions** - confirm valves are correctly positioned before starting the system.
- ☐ **Start the pump according to the installation instructions** - follow the start-up procedure for the specific pump.
- ☐ **Check for air lock or loss of prime** - confirm the pump remains primed and operates correctly during start-up.



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Testing the system

- ☐ **Check connections for leaks** - inspect connections while the system is operating.
- ☐ **Test pump operation** - confirm the pump starts, runs and stops as expected.
- ☐ **Check water flow and pressure** - confirm performance at the connected outlets.
- ☐ **Test the Rain to Mains switching function** - confirm the system switches between rainwater and mains supply correctly.
- ☐ **Confirm the mains backup operates correctly** - check that mains water supply is available when required.
- ☐ **Test connected fixtures** - check operation at the fixtures supplied by the system.
- ☐ **Check for excessive cycling** - make sure the pump isn't starting and stopping more frequently than expected.
- ☐ **Check for unusual noise or vibration** - investigate anything outside normal pump operation before completing the job.
- ☐ **Confirm controller settings and operation** - complete a final check that the controller is set and operating correctly.

Before leaving site

- ☐ **Complete a final check of the installation** - check the complete system and installation before handover.
- ☐ **Explain the system operation to the customer** - cover what they need to know about normal day-to-day operation.
- ☐ **Advise the customer of any maintenance requirements** - including relevant servicing information.
- ☐ **Provide relevant product and warranty information** - along with the installation receipt.

