

UWO - Rainwater Management Unit

Hypro Duo



- For use in large commercial buildings
- Integrated compact unit with heavy duty high performance components
- floor mounted installation with removable panels
- submersible pressure pump inside the management unit and a loading pump in the rainwater tank
- smooth and controlled pump circulation
- economical use of mains water back-up from in-unit local storage ready for automatic switch over back to rainwater when available
- built to order with bespoke specification to suit optimum design conditions

UWO-Hypro Duo

Complete integrated rainwater supply management unit for fully automatic control and pressurization of rainwater for large buildings. Complete with all necessary measurement, switching and control tasks. Built with standard digital operation and breakdown control display to ensure maximum availability. Trouble notice via powerless contact for BMS. Plated enclosure box with removable side panels for easy service access

Technical Facts

Designed to transport clear water without solids such as rainwater and cooling or chilled water pumps

	double pressure pump and a charge pump
power supply	1 ~ 230 V, 50 Hz, 16A
working temperature	max. 50°C
engine protection	integrated
dry run protection	integrated
delivered flow	max. 8m ³ /h
nominal winding height	max. 47m
nominal pressure	max. 4.7bar
motor power	2250W
feed flow	135L/min @ 4.5bar

Hook-up

mains water connection	F 1 1/4"
rainwater connection (in)	F 1 1/2"
pressure connection (out)	F 1 1/4"
emergency overflow	DN 100
tank volume	250 L
Weight (dry)	160 kg

Charge Pump (in tank)

delivered flow	max. 16m ³ /h
winding height	max. 10m
cable length	20m

Functional Description

UWO Hypro Duo rainwater supply management with fully automatic switching between rainwater and mains water during periods of low rainfall. No mains water wastage due to internal local storage tank.

Standard double pump unit for basic and heavy duty supply pressurization. Switching from standard to heavy duty load with each new start of pumps. Shutdown of standard duty pump depending on flow and to prevent high switch frequency whilst keeping tank pressure stable. Dry run protection for all pumps. Smooth and gentle pump circulation due to electronic pump shift

Double pump unit consisting of multistage centrifugal pumps in stainless steel. Maintenance free ceramic coal duocone seals

Electronic display for parameter reading. Fill level display for cistern and intermediate tank. Display of supply pressure. Fault notice for every pump, fault notice for back pressure inside cistern and overflow of intermediate tanks. Manually switchable to mains water operation. Standard installation of all pressure sensors. Steel sheet enclosure for ground installation



Application Advantages

- ready-to-plug hook-up and commission
- compact floor standing unit
- highly efficient with no mains water wasted due to internal storage tank and less energy consumption
- easy access from removable panels
- all water contact parts are corrosion resistant
- switchable to manual operation possible
- connection for back pressure protection
- low noise insulated enclosure

