

UWO - Rainwater Management

HyproDuo



- For use in large buildings
- Integrated, compact floor mounted appliance
- Simple installation with four plumbing hook-ups and three plug and socket electrical connections
- Hybrid technology with dual Wilo pressure pumps and integral intermediary tank
- Advanced logic control for demanding applications with menu driven set-up
- RS232 port for engineer control and data analysis of pump runtime, system statistics and configuration
- Optional variable speed pump control

Appliance Benefits

- ready-to-plug hook-ups and factory tested
- compact floor standing unit
- highly efficient—no mains water waste utilizing hybrid technology
- easy access from removable panels
- all water contact parts are corrosion resistant
- auto and manual operation modes in case of tank water contamination
- optional variable speed control pumps for high flow applications
- advanced logic control to maintain maximum operation



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Complete integrated rainwater supply management unit for automatic control of rainwater distribution for large buildings. Complete with measurement, switching and control tasks. Built with advanced logic control for optimum operation and high performance. Pump performance can be specified by the client or engineer. The appliance eliminates onsite construction of manual control systems and provides a simple, single location for maintenance and fault diagnostics. Fully enclosed with removable panels for service access.

Technical

Designed to transport clear water, such as rainwater and cooling or chilled water with automatic mains water backup and pump control

pump manufacturer	Wilo
type (fixed or variable speed)	2 x pressure 1 x loading
power supply	1~ 230V (11-28A) 3~ 400V (6-9A)
working temperature	5 - 40°C
delivered flow	8 - 16m ³ /hr
nominal height	36 - 87m
motor power	0.85 - 1.75kW
max. pressure	10bar

Functional Description

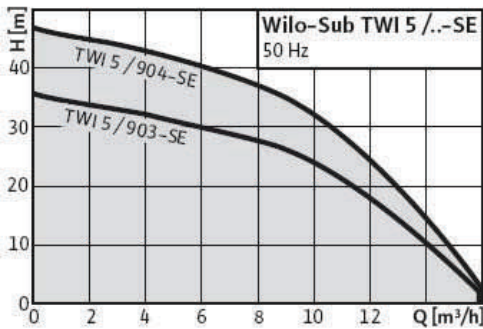
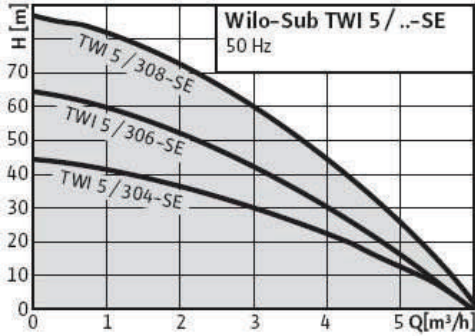
The UWO HyproDuo rainwater management appliance with automatic switching between rainwater and mains water during periods of low rainfall. No mains water is wasted due to the hybrid technology using an intermediary storage tank inside the appliance.

Double pump unit for standard and heavy duty supply pressurization from a range of Wilo TWI 5 submersible, full stainless steel premium pumps. Alternate pump operation for shared work load or dual pump operation for high demand. User selectable start and stop pressure points for both pumps from 2.8 - 5.5bar. Dry run protection for both pumps. Smooth pump circulation due to electronic pump shift. Tank located loading pump to supply the intermediary tank when at 50% full. Auto mains water supply if the intermediary tank falls below 30%. Appliance shut down at 10% intermediary tank to prevent air entering the system pipes with auto restart as the water level rises. Cat 5 intermediary tank with weir overflow and pump shut down during fault condition. Inlet solenoid WRAS approved.

LCD display for parameter readings: Fill level display for main and intermediate tanks, supply pressure, fault notice for pressure pumps, fault notice for back pressure and overflow of intermediate tank. Manual switching to mains water only operation.

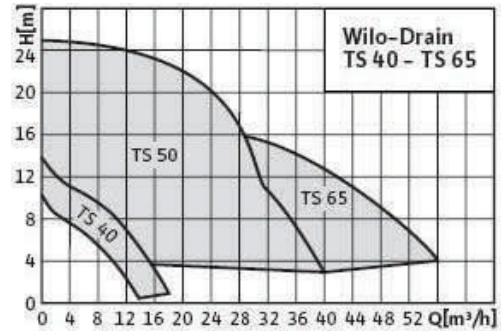
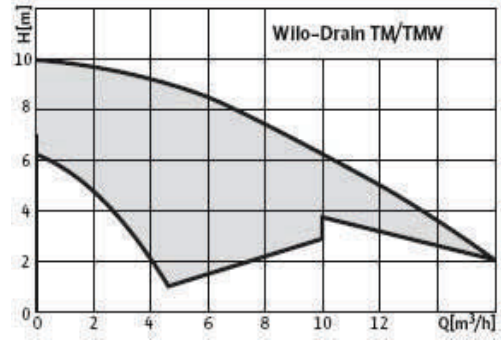
HyproDuo

Pump Performance—pressure pump x 2



Std pressure pump model TWI 5 304SE

Pump Performance—loading pump x 1



Std loading pump model TMW 32/8

Principle Components

Pumps	Wilo (see pump datasheets)'
Solenoids	ODE
Pressure switch	G1
Flow switch	Stuart Turner
Controller	RVM 5.17
Intermediary tank	Stainless steel
Chassis	Aluminium tube and PE panels
Mounting	4 x 100mm caster (front lockable)

Hook-ups

Mechanical	
mains water feed	G 1"
rainwater feed (in)	G1¼" or G1½"
pressure supply (out)	G1¼" or G1½"
emergency overflow	DN 100
Intermediary tank volume	250 L
weight (dry)	160 kg
Electrical	
system power	Schuko (230V) EN60309 (400V)
loading pump	Schuko (230V) EN60309 (400V)
main tank gauge	Prop. plug & socket

