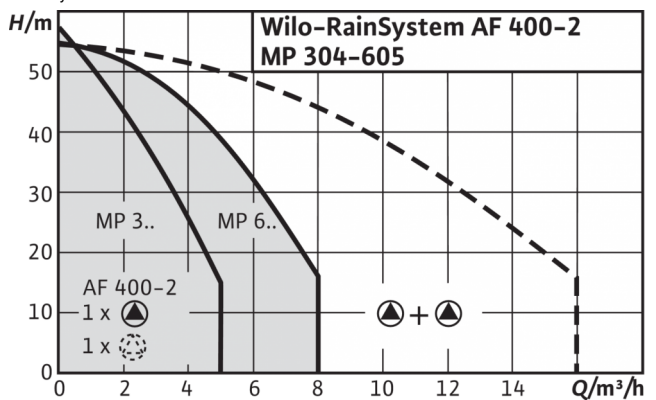


Series description: Wilo-RainSystem AF 400

Wilo-RainSystem AF 400



RainSystem AF 400-2MP 304 - 605



Design type

Automatic rainwater utilisation system with run-down tanks and 2 non-self-priming pumps

Application

Commercial and industrial rainwater utilisation for conserving drinking water as a hybrid system in conjunction with rainwater storage tanks or vessels

Equipment/function

- Connection-ready module with compact construction
- Completely connected, electrically and hydraulically, and mounted on vibration-insulated baseplate, comprising:
 - 2 non-self-priming, corrosion-free, low-noise MultiPress series centrifugal pumps
 - R 1 1/2 joint tubing on the pressure side, including transmitter unit with 8-l diaphragm pressure vessel following the flow-through principle and shut-off device with draining, manometer 0-10 bar
 - Ball valve on suction and pressure sides and non-return valve
 - A large-volume hybrid tank with all connections, non-turbulent supply lines and overflow with siphon
 - RainControl Hybrid central switchgear with control electronics, 4-20 mA pressure transmitter and level control in the low-voltage range
 - Signals concerning operation and malfunctions
 - Steady system control by means of cyclical pump cycling and integrated test run on idle pumps
 - Automatic fault-actuated switchover and peak-load cut-in
 - Automatic water exchange in the replenishment reservoir
 - Permanent display of rainwater storage level, system pressure, operating status via LCD (optional)
 - Including DVGW-certified R 1 solenoid valve for the drinking water replenishment

Scope of delivery

- Two noise-reduced, non-self-priming, multistage centrifugal pumps
- 400 l hybrid tank with all required connections, transmitter unit with 8 l diaphragm pressure vessel, central switchgear, RainControl-Hybrid with control electronics and level control device of Wilo-Drain TM or TS rainwater storage tank pumps in three-phase version (optionally in single-phase version) to be ordered separately

Type key

Example	Wilo-AF 400-2 MP 304 EM
AF	Automatic rainwater utilisation and drinking water replenishment system (Aqua Feed)
400	Nominal content of replenishment reservoir (hybrid tank) (l)
2	Number of pumps
MP	Non self-priming, horizontal, multistage centrifugal pump of the MultiCargo MP series
3	Volume flow (m³/h) at optimum efficiency
04	Number of stages
EM	Single-phase AC motor 1~230 V, 50 Hz

Technical data

- Max. operating pressure 10 bar
- Protection class IP54
- Connections:
 - Pressure pipe/pressure-side joint tubing R 1 1/2
 - Inflow pipe HT 50
 - Overflow connection DN 100

Materials

- Pump housing made of 1.4301 stainless steel
- Impeller made of Noryl
- Shaft 1.4028 stainless steel
- Mechanical seal made of ceramic/carbon
- Stage chambers made of Noryl
- Diaphragm expansion tank, steel, painted

Special features/product advantages

- Low-noise due to optimised overall flow and noise concept (multistage centrifugal pumps)
- Maximum operating reliability through the use of fully electronic RainControl Hybrid controller
- High economic efficiency due to fresh water replenishment according to requirements
- Automatic control of the feeding pump
- System/level control in low-voltage range
- Tested according to requirements of RAL-GZ 994 quality standard

Series description: Wilo-RainSystem AF 400

Description/construction

- Ready-to-connect water-supply unit with 2 water-supply pumps as compact module for commercial and industrial rainwater utilisation
- For fully automatic supply with rainwater from ground reservoir or rainwater storage tank using submersible motor pumps as feeding pumps
- Depending on the pump dimensioning, greater distances between the system and rainwater storage tank can be bridged over with this hybrid system (see also Wilo submersible motor pumps, Wilo-Drain series)
- High-volume hybrid tank with all integrated functions offers needs-based replenishment of drinking water in the consumer network when rainwater storage tanks are not full.
- Fully-electronic control unit for controlling the water supply and rainwater storage tank pump, equipped with main switch, control switch for each pump with Manual-0-Automatic function and display of the operating status operation/fault for each pump as well as low-water display
- Depending on the pressure, pumps are switched on and off in cascade according to the need for water
- Diaphragm pressure vessel for energy savings in the event of smallest leakages in buildings
- Steady system control by means of cyclical pump cycling and integrated test run on idle pumps.
- Automatic fault-actuated switchover and peak-load cut-in guarantee maximum system availability.
- In the event of low water, the system is switched off by built-in dry-running protection
- Including integrated electronic motor protection
- Control device displays extensive signals; it is also equipped with potential-free contacts for collective run signals and collective fault signals
- System is ideal for connection to building management system (GLT/DDC)

Product list: Wilo-RainSystem AF 400

Product description	Mains connection	Gross weight, approx. <i>m</i>	Article number
Rainsystem AF 400-2 MP 605	3~400 V, 50 Hz	124.0 kg	2504591
Rainsystem AF 400-2 MP 604	3~400 V, 50 Hz	122.0 kg	2504590
Rainsystem AF 400-2 MP 603	3~400 V, 50 Hz	120.0 kg	2504589
Rainsystem AF 400-2 MP 305	3~400 V, 50 Hz	121.0 kg	2504588
Rainsystem AF 400-2 MP 304	1~230 V, 50 Hz	119.0 kg	2504587