Aqua-Control 1600 S 9-x / 14-x

Items No G13134; G13135; G13160; G13161

Typical applications:

- Central electronic control unit for **rainwater harvesting** or **greywater recycling** systems with pressurized distribution and fully automatic water management
- For use with internal above-ground storage tanks for non-potable water use (e.g. toilets, washing machine, irrigation or other)

Features:

- Integrated double booster pump set with multiple staged, horizontal centrifugal pumps, max. flow rate up to 13 m^3/h
- Demand-oriented booster pump control (cascade principle)
- Demand-oriented and water efficient mains water back-up via integrated break tank and AA-type air gap (in compliance with BS 8515 / BS 8525)
- Integrated LED display for indication of operation status, system pressure, level in non-potable water storage tank, settings and detailed failure indication
- Possibility of manual changeover to mains water supply
- Volt free contact for alarm signal or general fault message to building management system (230 V / 6 A max.)
- Control and all internal components readily wired and pre-installed in a compact powder coated steel housing

Operation

- The Aqua-Control is a fully equipped control unit with integrated break tank, double booster pump set and electronic control.
- It monitors the water level in the main non-potable water storage tank as well as in the mains back-up break tank.
- The self-priming double booster pump set pressurises the

non-potable water and supplies it directly to the applications.

- In cases were the distance between tank and control unit exceeds the maximum suction distance, a pump can be installed in the storage tank to lift water from the tank to the control unit. The supply pump is fully controlled and monitored by the Aqua-Control.
- In case of non-potable water shortage or manual setting, the Aqua-Control feeds mains water automatically and according to demand into the intermediate tank (in compliance with BS 8515 / BS 8525 / WRAS).
- Generic fault messages to the building management system are possible via volt-free contact. In case of malfunctions the control unit releases a visual and audible alarm signal.

Recommended accessories:

- Expansion vessel,100l-500l capacity depending on pumping needs (G15021-G15028)
- Y – Mains water filter WRAS-approved 1¼" (G11114)

Technical specification

	1600 S 9-40	1600 S 9-60	1600 S 14-40	1600 S 14-60
Max. flow rate [m³/h]	9	9	14	14
Max. pressure head [m]	44	55	46	58
Power consumption [A]	2 × 3.7 (1x230V)	2 × 4.3 (1x230V)	2 × 5.3 (1x ~230V)	2 × 6.2 (1x~230V)
Motor output P1 [kW]	2 × 0.75	2 × 0.90	2 × 1.10	2 × 1.33

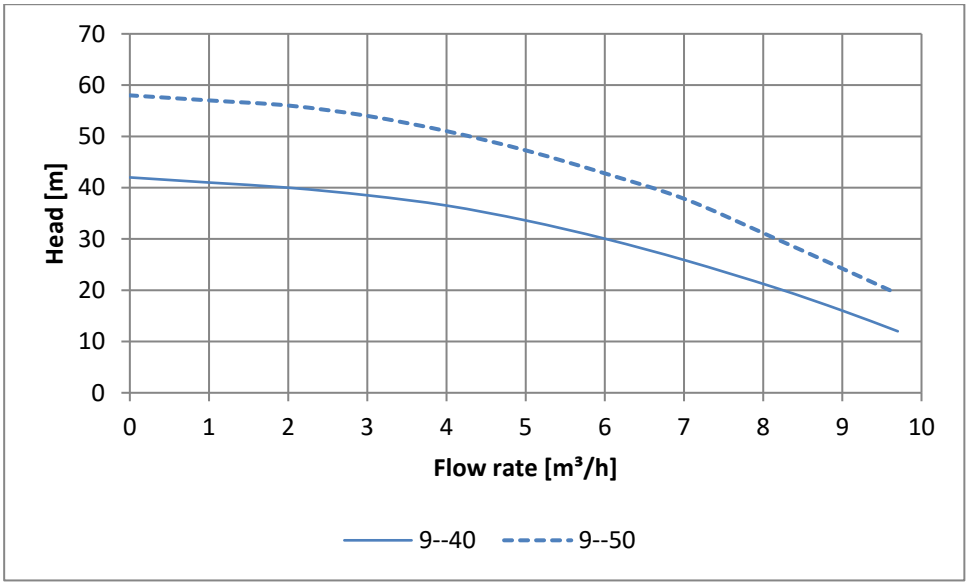
Dimensions

Width in mm	800
Height in mm	1670-1690
Depth in mm (with door)	725
Weight empty	150 kg
Weight max.	320 kg
Pressure line connection	1½" AG
Feeder pump connection	2×1" IG
Mains water connection	1¼" AG
Break tank capacity	200 l (nom.)
Overflow	DN 100

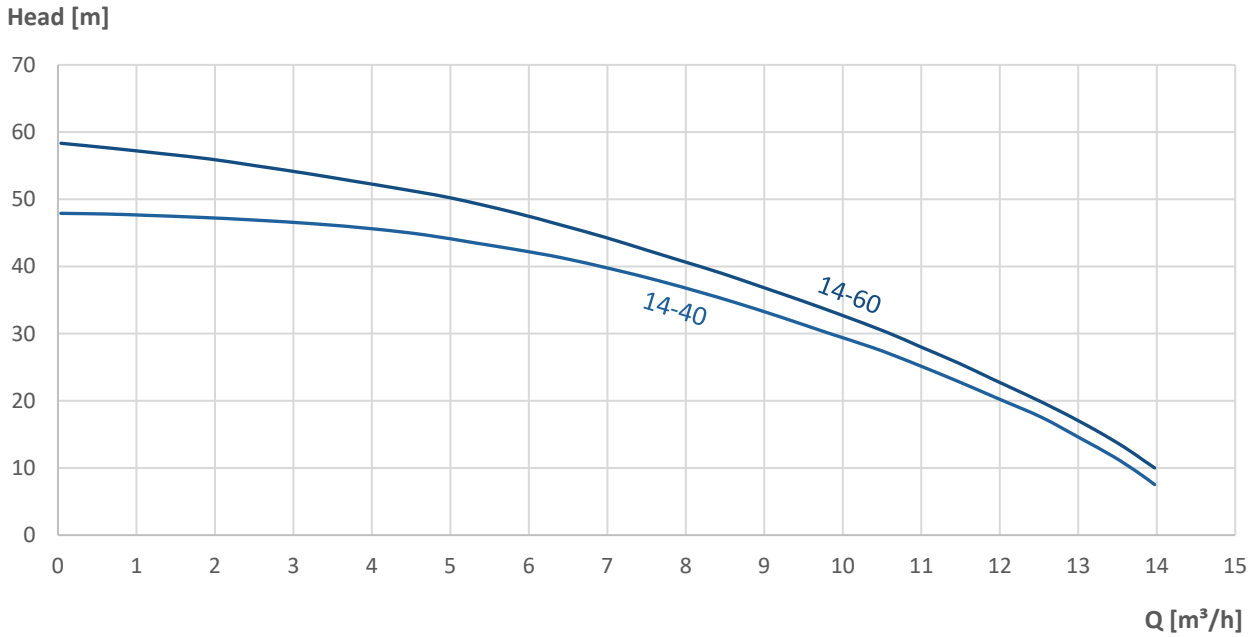
Aquality Trading & Consulting Ltd.
Tel: 020 8991 3725
info@aqua-lity.co.uk www.aqua-lity.co.uk

Pump curves

AQUA-Control 1600 S (9-X):



AQUA-Control 1600 S (14-X):



Aquality Trading and Consulting Ltd reserves the right to make technical changes.

Aquality Trading & Consulting Ltd.
Tel: 020 8991 3725
info@aqua-lity.co.uk www.aqua-lity.co.uk