

## hot water circulation system WZS 100

**Part no. 68405**

**hot water circulation system**

### benefits

- dramatic energy savings in circulation mode compared to conventional circulation systems
- no mixing of the temperatures in the stratified storage tank
- thermally controlled hot water temperature (with scald protection)
- extremely low mounting effort and fast commissioning
- eligible for heating optimization program (BAFA)

### Application

Circulation system for professional implementation of a service water circulation connection to an energy storage tank (hot water tank/stratified storage tank) which is operated at temperatures higher than 60 °C either permanently or temporarily. Also suitable for stratified hygienic storage and bivalent service water tanks. If used with older existing systems (for example, hot water tanks with wood, solar, gas, heat pump or oil-fired burner), controlled circulation to meet actual demands results in high energy savings. The hot water circulation system is optimally suited for use with renewable energies in domestic technology applications, primarily in single and two family homes.

### Description

Compact, pre-assembled and tightness-tested hot water circulation system in form-fit heat insulation part, consisting of thermal mixing valve with integrated scald protection, circulation pump with all necessary functional components such as shut-off valves, variable safety group assembly, backflow preventer and connection parts as per DIN 1988.

The hydraulic separation of the flow paths ensures correct operation of the circulation pump since it has to overcome only one backflow preventer in any operating condition and thus avoids mixing of the cold water inlet in the circulation path.

### Technical Specifications

#### system connections

G $\frac{3}{4}$  female

#### Connection lance / bypass

G $\frac{1}{2}$  female

#### Operating temperature range

Medium: max. 95 °C

#### Mixing temperature

35/60 °C

#### System pressure

max. 10 bar

#### Flow coefficient Kvs

1.6 m<sup>3</sup>/h

#### Housing

Brass

#### Safety valve

opening pressure: 6 bar

#### Insulation

Polypropylene EPP

#### Dimensions

W x H x D: 320 x 300 x 146 mm

#### circulation pump

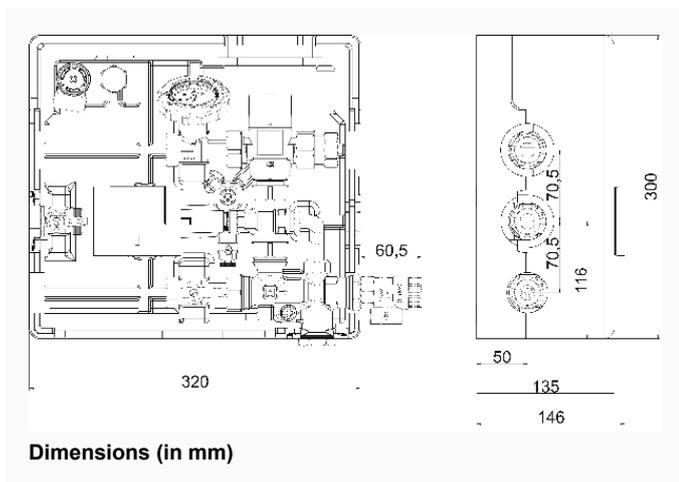
Wilo-Star-Z NOVA

**Degree of protection**  
IP 42 (EN 60529)

**Power input**  
2 – 4.5 W

**Supply voltage**  
AC 230 V, 50 Hz

**Technical Drawings**



**Versions**

Part no.

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- in-stock items
- Non-stock items