

# ALFA MIX

## The upstream device for the washing machine

### Installation and operating instructions

ALFA MIX allows you to use warm water from solar and conventional water heating systems in your washing machine. Thus expensive and valuable electrical energy can be saved.

#### 1. Function

ALFA MIX ensures that warm water with a pre-selected temperature (cold – 65°C) is fed into the wash program. For the rinse cycles only cold water is let in. Wash programs with and without pre-wash are possible (see 3. Operation).

The ALFA MIX version with Autostart allows you to wash at a predetermined time. It is suitable for washing machines with an adjustable start time function. ALFA MIX Autostart starts automatically when your washing machine requires water (see 5. ALFA MIX Autostart).

#### 2. Installation and connection

Screw the accompanying installation wedge onto the wall with the bigger side at the top. When choosing where to hang the ALFA MIX make sure all hoses can be fitted free of tension. Using the **accompanying connection hose** connect the ALFA Mix's mix water outlet (9) to the washing machine's inlet connection.

##### Warning:

Never use the washing machine's existing connection hose, unless it is a hot water or security hose, (recognisable by the ribbed plastic jacket).

Connect the cold water hose from the cold water tap to the ALFA Mix's cold water inlet (8). Using a **temperature resistant** hose attach the hot water tap to the ALFA Mix's hot water inlet (7).

The hot and cold water taps must be fitted with **return flow inhibitors** (DIN 1988), which means only standardised washing machine taps can be used (WAS-valves), otherwise cold water could get into the hot water system. Basic taps can be retrofitted with return flow inhibitors (see **Accessories** on the last page).

Plug the ALFA Mix's power plug into a power socket.

#### 3. Operation

Turn on the hot and cold water taps.

##### Washing without pre-wash:

Set the switch "Vorwäsche"(4) to "nein". Set the desired wash temperature on the ALFA MIX control knob (3) as well as on the washing machine. The setting "kalt" is equal to about 7°C and the setting "warm" is equal to about 65°C (these temperatures can only be reached as far as they are given in the hot and cold inlet temperatures). Load the washing machine with laundry and detergent, press the green start button (5) on the ALFA MIX and turn on the washing machine. The green (2) and red (1) control lamps indicate respectively whether the cold or hot valve is open. When the lamps blink in an alternating fashion hot and cold water is being mixed in the ALFA MIX. About 15 minutes after the wash program has started the device will switch to cold water input and only the green lamp (2) will be lit.

##### Washing with pre-wash:

Set the switch "Vorwäsche"(4) to "ja". Set the desired pre-wash temperature on the ALFA MIX control knob (3) and set the washing machine as usual. Load the washing machine with laundry and detergent, press the green start button (5) on the ALFA MIX and turn on the washing machine. If a different temperature to that used in the pre-wash is desired for the main wash program, you will have to wait 2-3 minutes until the water for the pre-wash has run into the machine, after that the ALFA MIX control knob (3) can be set to the desired temperature. About 30 minutes after starting the ALFA MIX the device will switch to cold water input.

2 hours and 30 minutes after being started ALFA MIX turns itself off and the green lamp goes out. (this operating time is factory standard and can be adjusted if needed, adjustable range: 2-3 hours).

If the wash program is finished and the ALFA MIX is still on (the green control lamp is lit), then it can be switched off by pressing the red stop button (6).

Turn off hot and cold water taps.



#### 4. General information

ALFA MIX must be turned on before every wash. If the device is still on (the green control lamp is lit) and a second load of washing is to be done directly after the first, the device must first be turned off and then on again.

The start button must always be pressed before every wash. If the device is turned off water cannot enter the washing machine! The device must therefore be turned on even for a cold wash program. ALFA MIX must only be operated when all hoses are connected properly, otherwise water can leak out!

Washing with protein stains (egg, blood, etc.) should be pre-soaked or pre-washed by hand using cold water, as protein coagulates at 40°C and thus becomes harder to remove.

Because wool fibres are sensitive to sudden temperature changes the control knob (3) should be set to “**kalt**” when washing wool.

#### 5. ALFA MIX Autostart -Version

This device is fitted with a magnetic sensor that registers the opening of the washing machine's magnetic valve and then turns on the ALFA MIX Autostart automatically.

If the washing machine is fitted with a safety hose with a magnetic valve at the end, the magnetic sensor must be attached to the valve's casing using the cable ties or hook-and-loop tape provided. The correct position can be determined in the following way:

Connect the washing machine's inlet hose to the ALFA MIX.

Plug the magnetic sensor into the underside of the ALFA MIX.

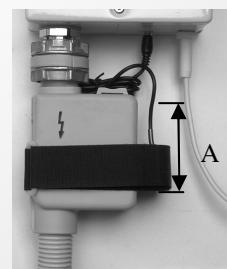
Plug the power pack into a power socket.

Switch on the washing machine so that its magnetic valve goes into operation.

Position the magnetic sensor on the narrow side of the valve casing at the end of the inlet hose and move the sensor around until you find the position where the device reliably turns on the ALFA MIX (possible area A).

Mark the exact position with a marker and attach the sensor to the marked position using the cable ties or hook-and-loop tape provided.

If the magnetic valve is situated inside the washing machine the magnetic sensor must be positioned there too. (Warning! Disconnect the washing machine from its power source before opening its casing !)



#### 6. Trouble shooting

Error	Check	Correction
The washing machine won't start, interrupts its program and/or indicates <u>water shortage</u> .	Are both taps turned on and functioning properly? If necessary test without the ALFA MIX !	If the taps are functioning properly, Check the screens in the ALFA MIX valves and the inlet hoses. If necessary clean them.
No water intake, even though the tapes and screens are functioning properly.	Disconnect ALFA MIX –outlet hose from the washing machine and hold it into a bucket. Start the device and turn the temperature control knob back and forth!	If both warm and cold water do not flow properly (little or no flow), please send in the device to be checked!
Too little water intake even though tapes, screens and ALFA MIX are all functioning properly, (machine indicates water shortage).	If possible check water pressure at the tap or at the pressure regulator, (is the minimum of 2 bar given?)	Increase pressure if necessary.
The washing machine stops before the end of the wash program and indicates water shortage.	Check the wash program duration.	If the program duration is longer than 150 minutes, increase The ALFA Mix's operating time. Please ask your installer/plumber!
Interference with temperature of neighbouring taps (e.g. too cold water from the sink's hot water tap, during operation of ALFA MIX).	Check taps connected to ALFA MIX: are they fitted with return flow inhibitors?	If inhibitors are not fitted or if it is unclear, retrofit return flow inhibitors! Also see: Installation and operating instructions point “2 Installation and connection” and “Accessories”!

#### Guarantee:

If properly used and under adherence to the “Installation and operating instructions” we guarantee the quality and functioning of the product for a period of 2 years starting from the date of purchase.

#### Accessories:

Hot water hose 90°C/80bar, Lengths 1m, 1.5m, 2m, 3m  
Safety inlet hose with AQUA-STOP, 90°C/90bar, length 1.5m  
Return flow inhibitor 3/4" for retrofitting taps.

#### Technical Information:

Operating voltage: 230V/50Hz, Device voltage: 12V  
Operating pressure: max. 10bar

Input: 8 Watt  
Energy consumption: ca. 0,02kWh per wash  
Casing: steel sheeting  
Colour: white  
Dimensions: 130x190x60mm

#### Manufacturer:

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