

**KALDEWEI**  
Europas Nr. 1 in Badewannen



**Bedienungs- und Einbauanleitung**

Operating and installation instructions

Instructions de service et d'installation

Istruzioni per l'uso e di montaggio

Instrucciones de funcionamiento y montaje

操作及安装手册

Whirlsystem VIVO-AQUA

Operating Instructions

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## THE WHIRL BATH

In a world of haste and hurry, a whirl bath is of very special importance. The concentration on your body, the joy you get from water – here you can experience them with all your senses. In the Kaldewei whirl systems, water, air and heat are specifically used for the benefit of your health.

Take a little time and read the operating instructions of your whirl system carefully. In these operating instructions, the pictograms described below are used. They refer to instructions and notes which require your special attention.



The function of the whirl system may be disturbed.



This may damage your health.



Cleaning and care instructions to maintain the high quality and function of the whirl system.

## EXPLANATION

- Kaldewei prepared these operating instructions to the best of its knowledge.
- Kaldewei reserves the right to change the contents of the operating instructions without being obliged to inform any third parties.
- Kaldewei reserves the right to modify and improve the technical plant without being obliged to inform any third parties. Please read the attached additional information, if necessary.
- No part of these operating instructions may be reproduced or transferred otherwise without the express approval of Kaldewei.

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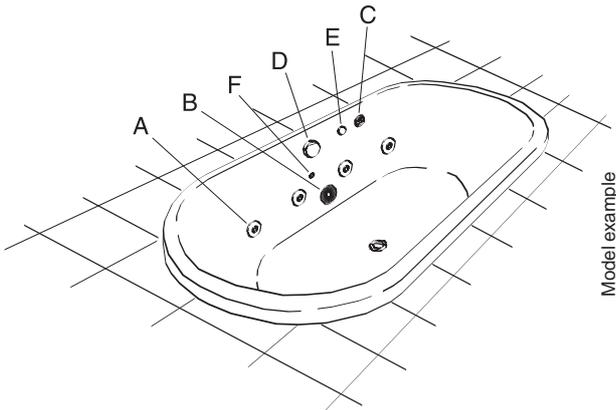
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## SYSTEM DESCRIPTION

Here you are massaged by pure water. In the VIVO-AQUA, four nozzles each – arranged on either side of the tub wall – direct the massage jets towards your body. You may add some additional air to the water jet according to the venturi principle, as required. Thus, the massage jet is softened and the ends of the nerve fibres are stimulated even more intensely. The mixture of air and water generates a pleasant, massaging pressure on the skin and hypodermis. The coarse bubbles produce a slight shaking massage with a deep action caused by vibrations which has a positive effect on the muscular system and connective tissue. The intensity of the water jet can be adjusted by means of the keyboard. In addition, the nozzles can be aligned quite individually to suit your own size in the best possible way.

### THE VIVO-AQUA-WHIRL SYSTEM:

- Massage nozzles (A)
- Suction nozzle (B)
- 5-function key pad (C)
- Drain and overflow fittings (D)
- Air mixing controller (E)
- Level sensor (F)



Since Kaldewei is a member of the RAL-quality association for whirlpools, its whirlpools and systems are produced to meet the strictest quality criteria as regards safety and hygiene.

For every Kaldewei-whirl system, you are given a 4-year guarantee.



## OPTIONAL EQUIPMENT

- Drain and overflow fittings with integrated inlet
- Handrails depending on the model
- Underwater spotlight

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## SAFETY NOTES

-  When taking a whirl bath, do not use soap or any other foam or oil baths. Use the essences specifically made for whirl baths only (see manufacturer's instructions).
-  The whirlpool may only be used to take a whirl bath and to clean your body. Do not place any objects into the whirlpool.
-  Please observe the cleaning and care instructions for the whirl system (see page 7).
-  Do not leave children unattended in the whirlpool.
-  Persons who are restricted in motion, as well as older and handicapped persons should be especially careful with a whirl bath.
-  Do not use electrical appliances (such as hair dryers or shavers) near the whirlpool even if the whirlpool is not being used. Electrical appliances in the bathroom have to be placed or attached such that they cannot fall into the whirlpool.
-  Mount a suitable handrail to get out of the whirlpool safely (to be obtained in specialist shops).
-  You must not place any objects in the openings of the massage nozzles while the whirl system is switched either on or off.
-  The openings of the suction nozzle must not be covered (e.g. by bathing utensils) when the whirl system is switched on.

## MEDICINAL ADVICE

From the point of view of spa doctors (balneologists), the following advice is of fundamental importance.

In principle, everybody who can take a normal bath can also take a whirl bath. But there are a few things that should be kept in mind when taking a whirl bath:

-  The movements of the water further the heat absorption and dissipation of the body. These changes in the body temperature result in an activation of the circulation (strain on the cardiovascular system).
-  Persons suffering from diseases of the central or peripheral circulatory system (coronary heart disease, myocardial infarction, cardiac insufficiency, peripheral arterial occlusive disease) should on principle consult their attending physician. But in general, a water temperature which is similar to the body temperature should be preferred.
-  The water jet leaving the massage nozzles has a massaging effect. With diseases of the leg veins (varicose veins, thrombosis), medical advice should be taken. In general, low massaging effects and cool water temperatures should be preferred.
-  When getting out of a bathtub (whirlpool), there might be a sensation of dizziness affecting your balance and perception and causing a fall. If you tend to get dizzy, you should avoid getting up abruptly, choose a cool to indifferent water temperature, give your legs a cold shower from the feet up to your head and use a suitable essence (horse chestnut, rosemary). Ask your local dealer about access or other bathtub aids.

In case of doubt, you should on principle consult your physician if you suffer from one of the above mentioned diseases or in the case of any other risks to your health.

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Operating Instructions

## TAKING A PROPER WHIRL BATH

Taking a bath in the whirlpool can be relaxing or stimulating, it can be good for your health or re-generating. Taken properly, it may give you a carefree feeling. We have listed a few useful suggestions below which may help you feel fit and healthy.



When taking a whirl bath, do not use soap or any other foam or oil baths. Use the essences specifically made for whirl baths only (see manufacturer's instructions).

	Temperature	On-time	Number of baths	Essences	Remarks
Disturbed circulation	34 °C	15 minutes	4 per week	Horse chestnut, hawthorn, oats	Alternating hot and cold baths, temperature not above 36 °C
Cold	38 °C	30 minutes	3 per week	Eucalyptus, thyme, ivy, mountain pine, camomile	Night rest is recommended afterwards
Disturbed sleep	38 °C	30 minutes	7 per week	Lavender, valerian, balm	
Chronic tiredness	38 °C	25 minutes	7 per week	Lavender, valerian, balm	In the evening before going to bed
Chronic tiredness	30 °C	10 minutes	7 per week	Lemon, mint, camphor, rosemary	In the morning before getting up
State of exhaustion	36 °C	20 minutes	4 per week	Seaweed, rosemary, oats	Especially wholesome in the evening
Stress consequences	37 °C	25 minutes	5 per week	Balm, camomile	
Migraine	32 °C	10 minutes		Rosemary, mint, camomile	If possible, at the beginning of the attack; rest period should at all events be observed afterwards
Muscular soreness	38 °C	10 minutes		Pine-needle, horse chestnut	One whirl bath each before and after sport
Convalescence (after a disease)	34.5 °C	10 minutes	2 per week	Rosemary, oats, hawthorn	If incompatible, the bath should be interrupted - Dosage rather low
Hardening, increase of defensive power	28 °C or less	7 minutes	7 per week	Laurel, camphor, eucalyptus, mint	In the morning
Hardening, increase of defensive power	38 °C or more	7 minutes	7 per week	Laurel, camphor, eucalyptus, mint	In the evening
Climacteric complaints	33 °C	20 minutes	4 per week	Horse chestnut, calamus, St John's wort	

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Operating Instructions

## DRAIN AND OVERFLOW FITTINGS

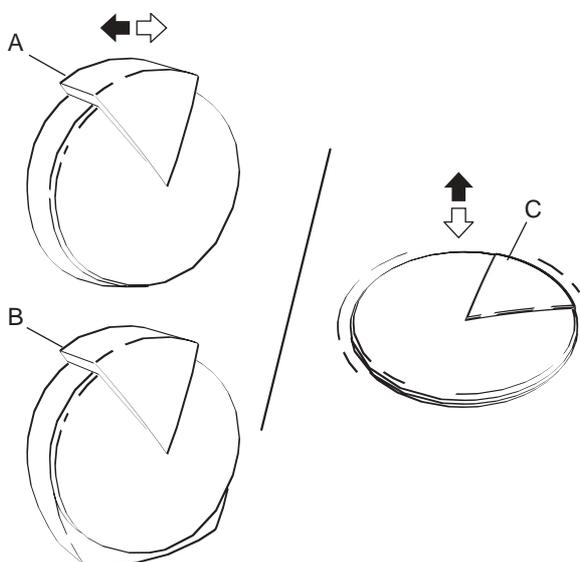
The valve cone on the bottom of the bathtub is moved by turning the setting knob (A or, respectively, B) of the drain and overflow fittings.

TURNING CLOCKWISE ⇨ :

The valve cone (C) on the bottom of the bathtub is lowered and the whirlpool can be filled with water.

TURNING COUNTER-CLOCKWISE ⇐ :

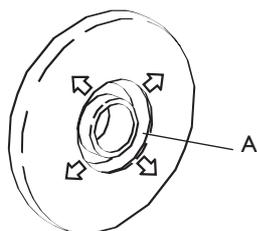
The valve cone (C) on the bottom of the bathtub is lifted and the water runs out.



A = Design without integrated inlet  
B = Design with integrated inlet

## MESSAGE NOZZLES

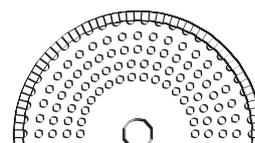
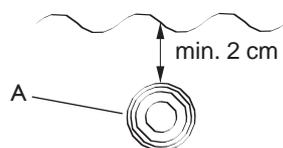
The swivelling inserts (A) of the massage nozzles are adjustable. By resetting the swivelling inserts (A), you can individually adjust the nozzles to your height.



**!** You must not place any objects in the openings of the massage nozzles while the whirl system is switched either on or off.

## LEVEL SENSOR

The whirlpool is to be filled until the water level is at least 2 cm above the level sensor (A).



**!** The whirl system turns off automatically if the water drops below the minimum water level.

## AIR MIXING CONTROLLER

The air is added according to the venturi principle, i.e. the water is sucked in and supplied to the massage nozzles, mixed with air.

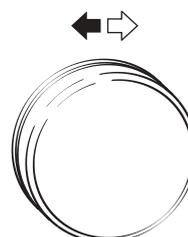
The amount of air added can be adjusted by turning the controller.

TURNING CLOCKWISE ⇨ :

Less air is supplied to the massage nozzles.

TURNING COUNTER-CLOCKWISE ⇐ :

More air is supplied to the massage nozzles.



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Operating Instructions

## OPERATION OF THE WHIRL SYSTEM

Switch on the main switch outside the whirlpool for readiness of operation.

The following functions can be selected by operating the key pad.



### WHIRL OPERATION (ON/OFF) KEY:

Switching the whirl operation on and off

**Initial condition:** Whirl in operation at medium pump intensity.

**Requirement:** The whirl operation cannot be switched on until the minimum water level (2 cm above level sensor) has been reached.

The on-period of the whirl system is limited to 30 minutes. Thereafter, the system has to be switched on again.

### LIGHT-EMITTING DIODE (GREEN):

**Indicator lights up:** The light-emitting diode indicates that the pump or the underwater spotlight, respectively, is switched on.

### LIGHT-EMITTING DIODE (RED):

**Indicator lights up:** The light-emitting diode indicates that the water level has fallen below the required level with the pump or underwater spotlight being switched on. The pump or underwater spotlight is switched off.

**Indicator flashes:** An alternating flashing of the green and red light-emitting diodes indicates that the PLUS, MINUS, INTERVAL or UNDERWATER SPOTLIGHT keys have been actuated although the water level is not sufficient to switch on the whirl system.



### PLUS KEY (+):

Increase the whirl operation

The whirl intensity is increased up to the maximum value by actuating the (+) key.

**Requirement:** The whirl operation is switched on, not set to maximum intensity and the interval function is switched off.



### MINUS KEY (-):

Reduce the whirl operation

The whirl intensity is reduced to the minimum value by actuating the (-) key.

**Requirement:** The whirl operation is switched on, not set to minimum intensity and the interval function is switched off.



### INTERVAL KEY:

Switching the interval function on and off

Automatic increase or lowering of the whirl intensity during the on-time.

**Requirement:** The whirl operation is switched on.



### UNDERWATER SPOTLIGHT KEY:

Switching the underwater spotlight on and off (optional)

The underwater spotlight can be switched on and off manually. After an on-period of 30 minutes, the light goes out automatically.

**Requirement:** The underwater spotlight cannot be switched on until the minimum water level (2 cm above level sensor) has been reached.

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## CLEANING THE WHIRLPOOL

The whirlpool can be cleaned easily and without any effort. With the correct care and proper treatment, you will enjoy your whirlpool for a long time.

Please observe the cleaning and care instructions to avoid any technical defects.

- **Normally**, it is sufficient to rinse the whirlpool with hot water and to wipe it out with a soft and dustfree cloth or chamois after taking a bath.
- **If slightly soiled**, a cleansing agent with a neutral pH-value (5-7, e.g. washing-up liquid or neutral soap) and a soft sponge and/or cloth should be used.
- **If badly soiled**, the deposits should be soaked for a while (approx. 10-15 minutes) and the pool should then be cleaned again, if necessary.
- **With lime deposits:** Remove deposits with a water/vinegar solution (ratio 1:1, no vinegar concentrate) or with a dilute deliming agent.

To avoid lime deposits, keep the fittings tightly closed and remove any residual water left in the pool after you have taken a bath.



Use liquid household cleansing agents available on the market only. Observe the respective manufacturer's instructions.



Do not use scouring or sand-containing cleansing agents. Chlorine-containing disinfectants or aggressive cleaners (e.g. acetone, cellulose thinner, naphtha) may attack or bleach the coated whirlpool components and enamelled surfaces.



Only use soft cloths or sponges to clean the surfaces. Under no circumstances should scrubbing brushes/sponges, steel wool or other tools be used.

## CLEANING THE NOZZLES

### CLEANING THE MASSAGE NOZZLES:

If the massage nozzles are soiled, the swivelling insert is moved several times (cleared) and finally rinsed with fresh water.

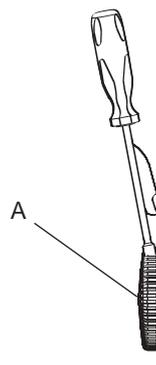
### CLEANING THE SUCTION NOZZLE:

When the suction nozzle is soiled, manually remove soil (e.g. hair).

- Carefully prize up the cover of the suction nozzle (A) by means of a screwdriver.
- Clean the inside suction screen and the cover of the suction nozzle and subsequently rinse with clear water.



In the event that the whirl system performance is reduced, it is urgently required that you clean the suction nozzle.



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## CLEANING THE DRAIN AND OVERFLOW FITTINGS

The surfaces of the drain and overflow fittings are rinsed with hot water and wiped dry with a soft and dustfree cloth or chamois.

If the waste pipe is soiled or clogged, it can be cleaned by means of cleansing agents available on the market.



When using cleansing agents, please, observe the manufacturer's instructions and warning notes.

### CLEANING THE REST WATER PISTON:

In the event that the whirlpool loses water during a bath, the rest water piston must be cleaned. The rest water piston is cleaned by repeatedly opening and closing the drain and overflow fittings while the whirl system is switched on.

## DISINFECTION



Prior to first startup and after every prolonged non-use, the whirl system must be disinfected as a prophylactic against health impairments.

Disinfection of the whirl system must be done manually.

For disinfecting the whirlpool, you can use the Kaldewei disinfectant to be obtained in specialist shops. It is especially suited for the various materials of the Kaldewei whirl components.



Please observe the manufacturer's instructions and warning notes on the disinfectants.

### DISINFECTION BEFORE USING THE WHIRLPOOL:

- Measure out the disinfectant according to the manufacturer's instructions and pour it into the pool filled to at least 2 cm above the level sensor.
- Switch on the whirl system for approx. 2 minutes.
- Switch off the pump and let the disinfectant soak in (according to manufacturer's instructions).

- Again switch on the whirl system for approx. 2 minutes.
- Drain the whirlpool.
- Repeat the process described above with cold water (pool filled to at least 2 cm above level sensor without disinfectant).
- Drain the whirlpool and finally rinse it with fresh water.

### DISINFECTION AFTER USING THE WHIRLPOOL:

- Measure out the disinfectant according to the manufacturer's instructions and add it to the used water.



If essences/bath salts are used, the used bath water has to be drained off and the disinfectant poured into the pool filled to at least 2 cm above the level sensor.

- Switch on the whirl system for approx. 2 minutes.
- Switch off the pump and let the disinfectant soak in (according to manufacturer's instructions).
- Again switch on the whirl system for approx. 2 minutes.
- Drain the whirlpool.
- Repeat the process described above with cold water (pool filled to at least 2 cm above level sensor without disinfectant).
- Drain the whirlpool and finally rinse it with fresh water.

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## REST-WATER FREE DRAINAGE

A rest-water free drainage of the whirl system is ensured by the special arrangement of lines and units after the valve cone in the floor of the bathtub is opened. After the whirlpool is drained, additionally rinse the massage nozzles with the jet of the handheld shower set while the drain fitting remains open.

## TROUBLE SHOOTING

In the case of malfunctions and defects of the whirl system, please, inform an authorized dealer or the Kaldewei after-sales service. In this case, you should have the name and serial number of your whirl system (see cover of manual) ready.



The inspection chamber of the whirl system may be opened by authorized dealers or by the Kaldewei after-sales service only.



Have malfunctions and defects eliminated by authorized dealers or the Kaldewei after-sales service only.

If you wish to ask any questions about your whirl system, please, do not hesitate to contact the Kaldewei after-sales service.

### KALDEWEI AFTER-SALES SERVICE:

Phone +49 (0) 23 82 - 785-0 /-230  
Facsimile +49 (0) 23 82 - 785-200 /-305  
E-Mail [service@kaldewei.de](mailto:service@kaldewei.de)

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Operating Instructions

## INSTALLATION INSTRUCTIONS FOR SANITARY FITTER

Take a little time and read the installation instructions of this whirl system carefully. In these installation instructions, the pictograms described below are used. They refer to instructions and notes which require your special attention.



The function of the whirl system may be disturbed.



Your health or that of the person(s) using the whirl system may be damaged.

### EXPLANATION

- Kaldewei prepared these operating instructions to the best of its knowledge.
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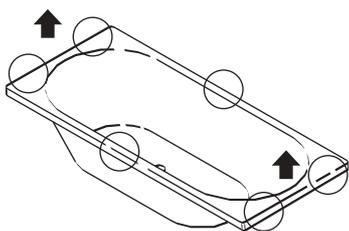
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## TRANSPORT

The following instructions have to be observed when transporting the Kaldewei whirl systems:

1. Handle the whirlpool with utmost care.
2. Transport the whirlpool in its transport box only and avoid bumping.
3. When carrying the whirlpool, hold on to the sides only – never to the instrument enclosures or hose systems.



Kaldewei shall not assume any liability for damage incurred due to improper intermediate storage and for damage in transport resulting from the non-compliance with the above instructions.

## SCOPE OF SUPPLY

Kaldewei whirl systems are completely preassembled in the workshop and are subjected to extensive quality and functional checks.



When factory-installed components are modified, the pledge of warranty will become invalid.

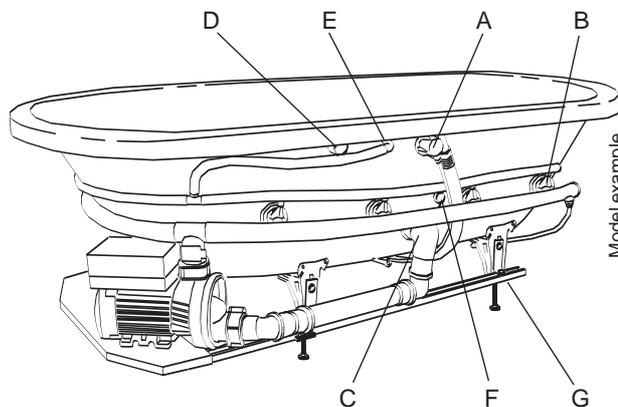


Check the supply for completeness and possible transport damage immediately upon delivery of the whirlpool.

### THE VIVO-AQUA-WHIRL SYSTEM:

- Whirlpool with drain and overflow fittings and preassembled siphon trap (A)
- Piping system with lateral massage nozzles (B) and residual water drainage (the massage nozzles are arranged with a slope to the waste hole)
- Suction nozzle (C)
- 5-function key pad (D)

- Air mixing controller (E)
- Level sensor (F)
- Height-adjustable feet (G)



Model example

## OPTIONAL EQUIPMENT

- Underwater spotlight 12 V/35 W with safety transformer
- Drain and overflow fittings with integrated inlet
- Handrails depending on the model

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Installation Instructions  
Sanitary fitter

## BINDING INSTALLATION INSTRUCTIONS

-  Installation of the whirlpool must be carried out by an authorized sanitary shop.
-  Connection of the whirl system to the electrical mains must be carried out by an authorized electrical shop.
-  During the installation, protect the whirlpool surfaces and the whirl system from damage.
-  Avoid soiling of any kind which might cause obstructions when installing the waste pipe.
-  Pipework, hose connections and unions remain unaffected when installing the whirl system.
-  When factory-installed components are modified, the pledge of warranty will become invalid.

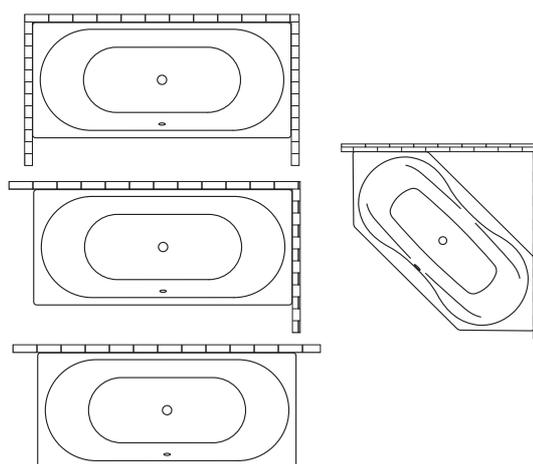
-  Upon completion of the work (performed by the sanitary and electrical fitters), the whirl system has to be subjected to a functional check (see page 15).
-  All work has to be performed using special technical tools.
-  When installing the whirlpool, extensive sound insulation measures have to be taken (see pages below).

### SETTING UP THE WHIRLPOOL

The floor space required for the whirlpool and the attached equipment results from the outer dimensions of the whirl system. Within that area, the entire equipment has been installed in the workshop ready for connection.

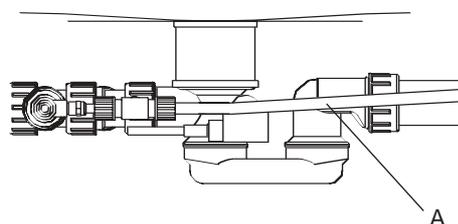
-  The tub model Megaform-Extra-6 (model no. 182/2182) cannot be set up with its head section at an acute angle in one corner of the room since otherwise the technical equipment would no longer be accessible.
-  When setting up the tub model Vaioduo-Eck (model no. 962), additional supporting strips have to be provided in the corner of the room.

-  When setting up the tub models Centroform (model no. 118), Megaform oval (model no. 184/2184) and Classic (model no. 108/2108), a 15 mm projection of the system components on the long sides has to be observed.



### CONNECTION OF THE DRAIN AND OVERFLOW FITTINGS

- Connect the drain and overflow fittings to the local sewerage.
-  Pay attention to the proper fit of the screwed and plug-in connections.
-  The position of the rest water drainage hoses (A) may not be changed.



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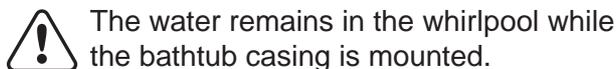
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Installation Instructions  
Sanitary fitter

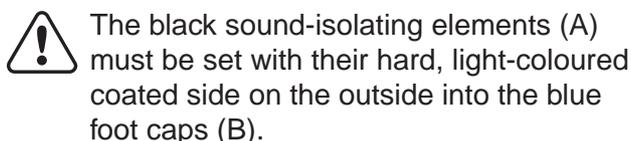
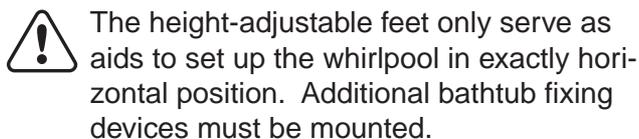
## FILLING THE BATHTUB

- Close the drain and overflow fittings and fill the whirlpool with water.

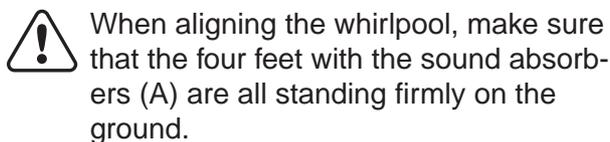
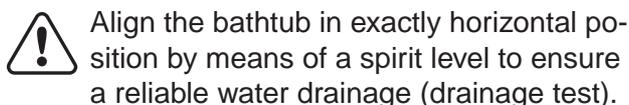


## ALIGNMENT OF THE WHIRLPOOL

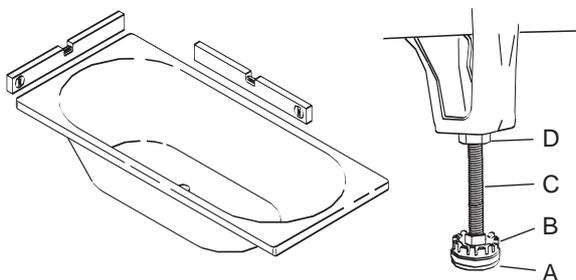
The height-adjustable feet enable easy and safe alignment of the whirlpool.



- To align the whirlpool, turn the height-adjustable feet (C) in or out.

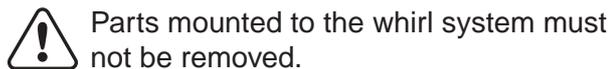
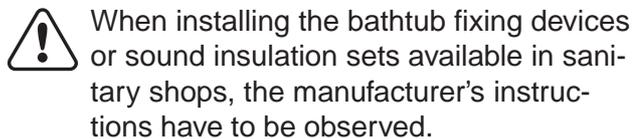


- After the alignment, secure the height-adjustable feet against displacing by means of the hexagon nut (D).

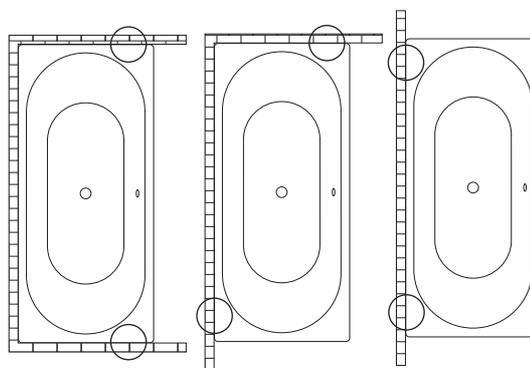


## BATHTUB FIXING DEVICES AND SOUND INSULATION

- Fasten the whirlpool in the shown positions by means of bathtub anchors (not included in the scope of supply).



### AREAS FOR THE ATTACHMENT OF BATHTUB FIXING DEVICES:



Taking builder's requirements into account, and using the Kaldewei bathtub sound-insulation set BWS, the Kaldewei VIVO-AQUA whirl system will be in compliance with DIN 4109/A1 "Sound insulation in building construction".

Kaldewei bathtub sound-insulation set BWS (Article number: 6876.7559.0000)

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## CONNECTION TO ELECTRICAL MAINS

After the whirlpool has been fastened, the work of the sanitary fitter is completed for the time being and the electrical fitter's work must be performed (from Page 17 of these installation instructions).



The connection of the whirl system to the electrical mains may only be carried out by a licensed electrical fitter.



The electrical fitter must be provided with the installation instructions (or copies of pages 17 to 21) until his work is completed.

FURTHER ON PAGE 17:



**Installation Instructions**  
Electrical fitter

## FUNCTIONAL CHECK

After the whirlpool has been set up, the drain and overflow fittings connected and the work of the electrical fitter completed, the whirl system has to be subjected to a functional check.

### 1. VISUAL INSPECTION

- Check the whirl system for visible damage.
- Check the whirlpool for horizontal installation (drainage test).
- Check the proper attachment of fixing devices and sound insulation.
- Check the whirlpool for cleanness.



The pipework, hose connections or unions and electrical equipment of the shop-mounted whirl system remain unaffected.

### 2. FUNCTIONAL TEST WITH THE WHIRLPOOL EMPTY

- It is not possible to switch on the whirl system and the optional underwater spotlight (see operating instructions, page 6).

### 3. FILLING THE WHIRLPOOL

- Close the drain and overflow fittings.

- Fill the whirlpool with water up to a level of at least 2 cm above the level sensor.
- Wait for 10 minutes, then carry out a leakage test.

### 4. FUNCTIONAL TEST

- Switch on the whirl system and let it run for about 10 minutes.
- Let the whirl system run alternately at minimum and maximum intensities (see operating instructions, page 6).
- Let the whirl system run at maximum intensity and check, by adjusting the air mixing controller, whether the water leaving the side nozzles forms more or less bubbles (see operating instructions, page 5).
- Switch on the interval function and let it run (for an automatic increase and/or reduction of the intensity during the on-time - see operating instructions, page 6).
- Switch the optional underwater spotlight on and off.
- Subject the whirl system to a leakage test.

### 5. DRAINING THE WHIRLPOOL

- Switch on the optional underwater spotlight.
- Switch on all the functions of the whirl operation.
- Open the drain and overflow fittings and let the water drain off.
- Check the waste pipes (siphon) for leakages.
- With the water running out, the optional underwater spotlight and all the functions of the whirl operation have to switch off automatically as soon as the water level falls below the level sensor.



If the whirl system has to be readjusted or defective components exchanged, the complete functional check has to be repeated.

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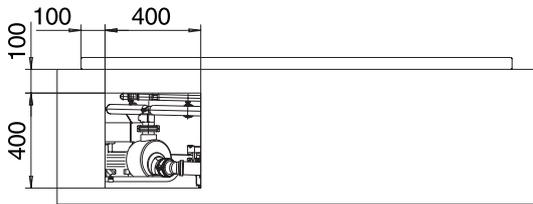
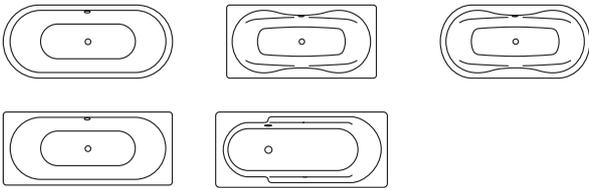
## BRICKWORK LINING OR CASING OF THE WHIRLPOOL

After the functional check, the whirlpool can be brick-lined and tiled.

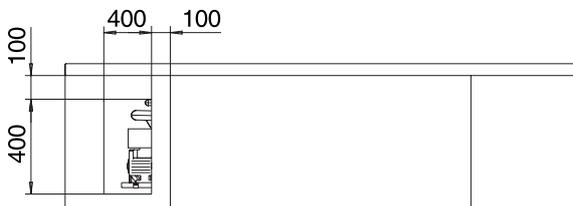
 The brickwork lining or other casing has to be installed keeping a minimum distance of 15 mm from the system components.

For any servicing work possibly to be performed, an inspection opening of 400 mm x 400 mm (height x width) has to be provided in the direct vicinity of the pump casing.

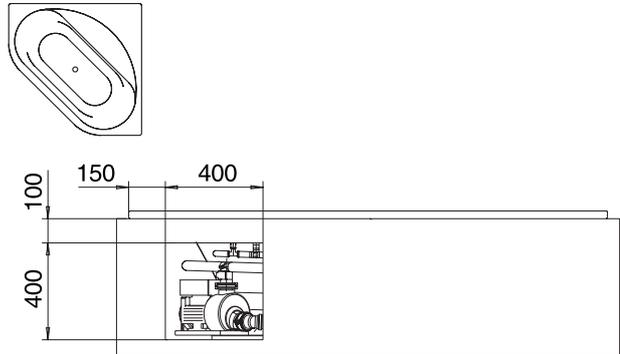
**INSPECTION OPENING - CENTROFORM OVAL, MEGAFORM, MEGAFORM OVAL, CLASSIC, RONDOFORM-/STAR:**



**INSPECTION OPENING - MEGAFORM-EXTRA-6, RONDOFORM-EXTRA-6/STAR:**



**INSPECTION OPENING - VAIDUO-ECK:**



## TROUBLE SHOOTING

In the case of malfunctions and defects of the whirl system, please, inform an authorized dealer or the Kaldewei after-sales service. In this case, you should have the name and serial number of your whirl system (see cover of manual) ready.

 The inspection chamber of the whirl system may be opened by authorized dealers or by the Kaldewei after-sales service only.

 Have malfunctions and defects eliminated by skilled personnel only.

If you wish to ask any questions about this whirl system, please, do not hesitate to contact the Kaldewei after-sales service.

**KALDEWEI AFTER-SALES SERVICE:**

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Installation Instructions  
Sanitary fitter

## INSTALLATION INSTRUCTIONS FOR ELECTRICAL FITTER

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Take a little time and read the installation instructions of this whirl system carefully. In these installation instructions, the pictograms described below are used. They refer to instructions and notes which require your special attention.



The function of the whirl system may be disturbed.



Your health or that of the person(s) using the whirl system may be damaged.

### EXPLANATION

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- Kaldewei prepared these installation instructions to the best of its knowledge.
- Kaldewei reserves the right to change the contents of the installation instructions without being obliged to inform any third parties.
- Kaldewei reserves the right to modify and improve the technical plant without being obliged to inform any third parties. Please read the attached additional information, if necessary.
- No part of these installation instructions may be reproduced or transferred otherwise without the express approval of Kaldewei.

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## ANNEX

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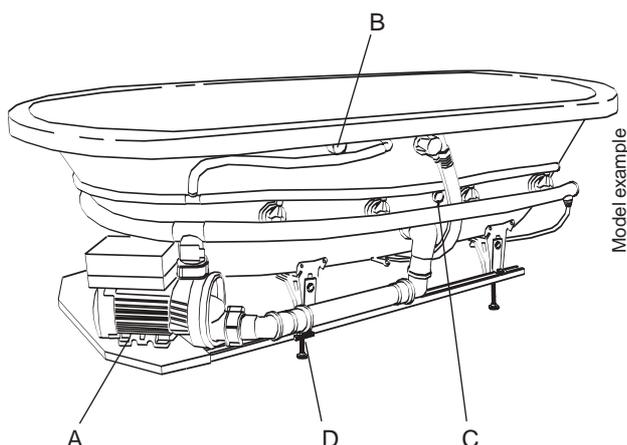
## ELECTRICAL COMPONENTS

The entire electrical equipment of the Kaldewei-whirl systems has been shop-mounted ready for connection. Kaldewei-whirl systems are subjected to extensive quality and functional checks.

When factory-installed components are modified, the pledge of warranty will become invalid.

### THE VIVO-AQUA-WHIRL SYSTEM:

- Pump 1300 W with control system (A)
- 5-function key pad (B)
- Level sensor (C)
- Equipotential bonding strip
- Connecting cable 3 x 1.5 mm<sup>2</sup>



## OPTIONAL EQUIPMENT

- Underwater spotlight 12 V/35 W with safety transformer

## TECHNICAL DATA

Power input	1335 W
Nominal input pump	1300 W
Mains connection	230 V 50/60 cps 16 A
Safety class	IP65
Lead cross section	3 x 1.5 mm <sup>2</sup>
Operation	Sealed key pad

### OPTIONAL EQUIPMENT:

Nominal input spotlight (12 V) 35 W

## BINDING INSTALLATION INSTRUCTIONS

- The connection of the whirl system to the electrical mains must be carried out by an authorized electrical shop according to DIN VDE 0100.
- Kaldewei whirl systems are designed for domestic use and must be connected in accordance with the local regulations of public utility companies.
- For the connection of the whirl system to the electrical mains, a separate supply line 3 x 2.5 mm<sup>2</sup> and a 4 mm<sup>2</sup> line for the equipotential bonding have to be provided by the customer.
- The supply line has to be provided with an all-pole disconnecting mains switch with a contact gap of at least 3 mm to switch off the whirl system (if not being used, for servicing work).
- Depending on the model, the whirl system must be connected to a.c. voltage 230 V 50 Hz (50 Hz model) or, respectively, 230 V 60 Hz (60 Hz model).
- The connection of the whirl system has to be protected by a 16 A fuse and must be effected via a current-operated earth-leakage circuit breaker (30 mA).
- During the electrical installation, protect the whirlpool surfaces and the whirl system from damage.
- Avoid soiling of any kind which might cause obstructions when installing the waste pipe.
- Pipework, hose connections and unions remain unaffected by the electrical connection of the whirl system.
- When factory-installed components are modified, the pledge of warranty will become invalid.
- All work has to be performed using special electric tools.

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Installation Instructions  
Electrical fitter

## PUMP CONTROL

Only a licensed electrical fitter is allowed to open the pump control.

-  In case of unauthorized opening of the pump control, any warranty claim versus Kaldewei shall expire.

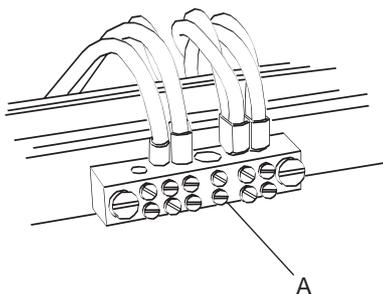
## EQUIPOTENTIAL BONDING

The whirl system is internally cabled with a protective conductor.

- Connect the equipotential bonding (A) of the whirl system to the local equipotential bonding strip.

TYPE:

Earthing cable - green/yellow, min. 4 mm<sup>2</sup>, copper



## MAINS CONNECTION

- The whirl system has to be connected to the local supply network via the connecting cable 3 x 1.5 mm<sup>2</sup>.

-  The whirl system has to be connected to the mains under off-circuit conditions.

-  The supply line has to be provided with an all-pole disconnecting mains switch with a contact gap of at least 3 mm to switch off the whirl system (if not being used, for servicing work).

-  The connection of the whirl system has to be protected by a 16 A fuse and must be effected via a current-operated earth-leakage circuit breaker (30 mA).

-  The standard EN 60 335-2-60 concerning whirl systems stipulates: "The equipment has to be permanently connected to a fixed line. Appliances containing electrical components have to be placed or attached such that they cannot fall into the tub."

-  Those parts of the whirl system which contain energized components must be inaccessible to the persons using the bathroom - except for the parts supplied with a safety extra-low voltage.

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## ELECTRICAL OPERATION TEST

Upon completion of the electrical connection work, the whirl system has to be subjected to an electrical operation test.

### 1. VISUAL INSPECTION

- Check the whirl system for visible damage.
- Check the 16 A fuse.
- Check the current-operated earth-leakage circuit breaker (30 mA).
- Check the all-pole disconnecting mains switch.
- Check the cable joints for proper fit.
- Check the insulation of the cable joints.



Pipework, hose connections and unions remain unaffected by the electrical connection of the whirl system.

### 2. FUNCTIONAL TEST

After the electrical operation test, the whirl system can be handed over to the sanitary fitter.

## TROUBLE SHOOTING

In the case of malfunctions and defects of the whirl system, please, inform an authorized dealer or the Kaldewei after-sales service. In this case, you should have the name and serial number of your whirl system (see cover of manual) ready.



The inspection chamber of the whirl system may be opened by authorized dealers or by the Kaldewei after-sales service only.



Have malfunctions and defects eliminated by authorized dealers or the Kaldewei after-sales service only.

If you wish to ask any questions about your whirl system, please, do not hesitate to contact the Kaldewei after-sales service.

### KALDEWEI AFTER-SALES SERVICE:

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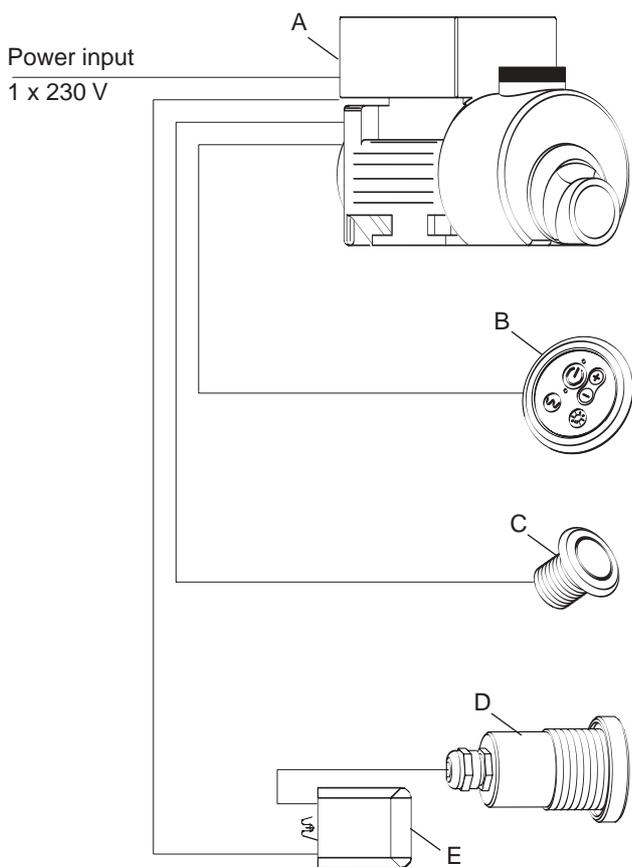
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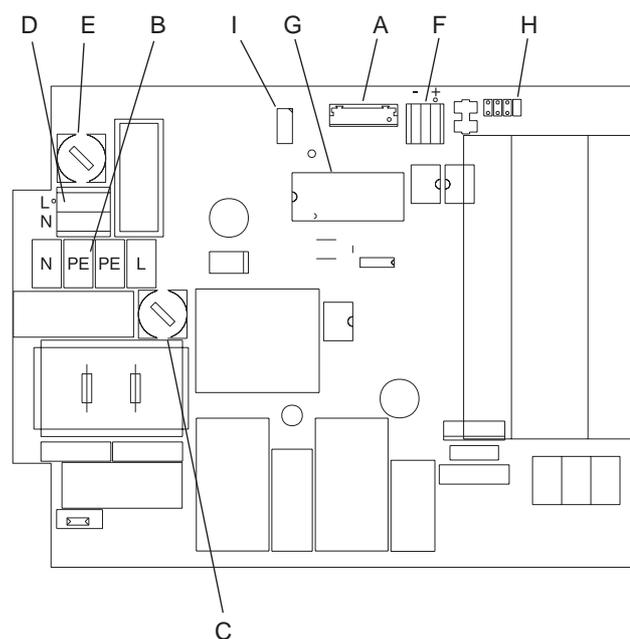
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## TERMINAL DIAGRAM



- A = 1300 W pump with control (230 V)
- B = 5-Function key pad (12 V)
- C = Level sensor (12 V)
- D = Underwater spotlight (12 V/35 W)
- E = Safety transformer (230 V)

## TERMINAL PLAN



- A = 5-Function key pad
- B = Power input 3 x 1.5 mm<sup>2</sup>

N	blue
PE	yellow/green
L	brown

- C = Fuse for power input (6.3 AT)

- D = Underwater spotlight

N	blue
L	brown

- E = Fuse for underwater spotlight (315 mA T)

- F = Level sensor

+	white
S	brown
-	green

- G = Processor

- H = Jumper (only for 60 Hz model)

- I = Life light

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Installation Instructions  
Electrical fitter

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