EINBAUANLEITUNG
Whirlsystem Vivo Turbo.

GB – Installation instructions
F – Instructions d’installation
I – Istruzioni di montaggio
E – Instrucciones de montaje
PRC – 安装说明
## 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.
- 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.

## CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCOPE OF SUPPLY</td>
<td>2</td>
</tr>
<tr>
<td>OPTIONAL EQUIPMENT</td>
<td>2</td>
</tr>
<tr>
<td>TRANSPORT</td>
<td>2</td>
</tr>
<tr>
<td>BINDING INSTALLATION INSTRUCTIONS</td>
<td>3</td>
</tr>
<tr>
<td>SETTING UP THE WHIRLPOOL</td>
<td>3</td>
</tr>
<tr>
<td>CONNECTION OF THE DRAIN AND OVERFLOW FITTINGS</td>
<td>4</td>
</tr>
<tr>
<td>FILLING THE WHIRLPOOL</td>
<td>4</td>
</tr>
<tr>
<td>ALIGNMENT OF THE WHIRLPOOL</td>
<td>4</td>
</tr>
<tr>
<td>BATHTUB FIXING DEVICES AND SOUND INSULATION</td>
<td>5</td>
</tr>
<tr>
<td>CONNECTION TO ELECTRICAL MAINS</td>
<td>5</td>
</tr>
<tr>
<td>FUNCTIONAL CHECK</td>
<td>6</td>
</tr>
<tr>
<td>BRICKWORK LINING OR CASING OF THE WHIRLPOOL</td>
<td>7</td>
</tr>
<tr>
<td>TROUBLE SHOOTING</td>
<td>8</td>
</tr>
</tbody>
</table>
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.

VIVO TURBO/PLUS WHIRL SYSTEM

- Whirlpool with drain and overflow fittings and siphon trap (A)
- 6 massage nozzles (B), arrangement depending on the tub model
- Sealed key pad (C)
- Level sensor (D)
- Height-adjustable pedestal (E)

OPTIONAL EQUIPMENT

- Drain and overflow fittings with integrated inlet
- Underwater spotlight or spectral light
- Massage nozzles illuminated in white or blue
- Handles depending on bathtub model

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.

The cable binders which serve to secure the control system during transport have to be removed.
BINDING INSTALLATION INSTRUCTIONS

The mounting of the whirlpool, the connection to the electrical mains and the elimination of malfunctions and defects must only be carried out by a specialist shop which is able to prove its skills and competence with regard to the application of national safety regulations, e.g. to power and water supply/discharge, to the relevant authorities.

During 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.

Instrument cases or electrical components 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 6).

All work has to be performed using special technical tools.

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 load capacity of the floor on which the whirlpool tub is installed should correspond to the indicated floor load of the whirlpool tub (see „Technical Information - Whirl Systems“).

The distance between siphon trap and floor has to be at least 10 mm.

An underfloor heating must not be operated underneath the whirlpool.

For other bathtub model-specific notes please observe the Bathtub Models supplementary sheet.
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.

FILLING THE WHIRLPOOL

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

⚠️ The water remains in the whirlpool while the bathtub casing is mounted.

ALIGNMENT OF THE WHIRLPOOL

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

⚠️ The height-adjustable feet only serve as aids to set up the whirlpool in exactly horizontal position. Additional bathtub fixing devices must be mounted.

⚠️ The black sound-isolating elements (A) must be set with their hard, light-coloured coated side on the outside into the blue foot caps (B).

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

⚠️ Align the bathtub in exactly horizontal position by means of a spirit level to ensure a reliable water drainage (drainage test).

⚠️ When aligning the whirlpool, make sure that the four feet with the sound absorbers (A) are all standing firmly on the ground.

- 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).

When installing the bathtub fixing devices or sound insulation sets available in sanitary shops, the manufacturer’s instructions have to be observed.

Parts mounted to the whirl system must not be removed.

**AREAS FOR THE ATTACHMENT OF BATHTUB FIXING DEVICES**

The Kaldewei whirl systems comply with DIN 4109/A1 „Sound insulation in building construction” if the other construction requirements are met and the Kaldewei bathtub sound-absorbing set BWS is used.

Kaldewei bathtub sound-absorbing set BWS (article number: 6876.7559.0000)

**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 9 of these installation instructions).

The mounting of the whirlpool, the connection to the electrical mains and the elimination of malfunctions and defects must only be carried out by a specialist shop which is able to prove its skills and competence with regard to the application of national safety regulations, e.g. to power and water supply/discharge, to the relevant authorities.

The electrical fitter must be provided with the installation instructions (or copies of pages 9 to 16) until his work is completed.

**FURTHER ON PAGE 9**

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.
   • The cable binders which serve to secure the control system during transport have to be removed.
   • Check the whirlpool for cleanness.

   ! Instrument cases or electrical components remain unaffected when installing the whirl system

2. FUNCTIONAL TEST WITH THE WHIRLPOOL EMPTY
   • It is not possible to switch on the whirl system and the optional lighting (see operating instructions, page 7).

3. FILLING THE WHIRLPOOL
   • Close the drain and overflow fittings.
   • Fill the whirlpool with water (initial temperature between 35°C and 45°C) up to a water level of at least 2 cm above the level sensor.
   • Wait for 10 minutes, then carry out a leakage test.

4. CHECK THE DIRECTION OF ROTATION
   • Switch on the whirl system and let it run at minimum intensity (see operating instructions, page 7).
   • The propellers of the massage nozzles must rotate anticlockwise.

5. FUNCTIONAL CHECK
   • Switch on the whirl system and let it run for approx. 10 minutes.
   • Let the whirl system run alternately at minimum and maximum intensity (see operating instructions, page 7).
   • 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 7).
   • Switch the optional lighting on and off (see operating instructions, page 7).
   • Switch the air admixture on and off.
   • Wait for 10 minutes, then subject the whirl system to a leakage test.

6. DRAINING THE WHIRL POOL
   • Switch on all the functions of the whirl operation.
   • Switch on the optional lighting.
   • Switch the air admixture on
   • Open the drain and overflow fittings and let the water drain off.
   • Check the waste pipes (siphon) for leakages.
   • The whirl system, the optional lighting and the air admixture must switch off automatically if the water level falls below the minimum level (see operating instructions, page 6).

   ! If the whirl system has to be readjusted or defective components exchanged, the complete functional check has to be repeated.
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 installation of all tub models, only a slight recess for the system components is to be considered. A brick lining flush with the tub is thus not possible. For further information, please contact your Kaldewei sales consultant.

⚠️ If whirlpools are fitted with Kaldewei panels (e.g. PUNTA DUO 3, VAIO DUO 3, STUDIO/STAR), such panels must not be sealed with silicone or pointed to ensure the circulation of air.

For any servicing work possibly to be performed, two inspection openings with a minimum size of 400 mm x 400 mm and 200 mm x 200 mm (height x width) have to be provided at the shown locations. It is absolutely necessary to provide the inspection opening near the control system with an air grid (at least 80 cm² ventilation cross-section) to allow the air to circulate underneath the pool.

RECOMMENDATION
Kaldewei inspection frame with integrated air grid (article number: 6872.7283.0000)
Kaldewei inspection frame without air grid (article number: 6872.7284.0000)

For data on size and position of the inspection openings you are referred to the Bathtub Models supplementary sheet.
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 installation of the whirlpool, the electrical connection and the remedy of malfunctions and defects must be carried out by a specialized dealer who is able to prove to the authorities concerned his knowledge and competence as to the application of the national safety regulations, e.g. with regard to the power and water supply/discharge.

⚠️ The inspection chamber of the whirl system may be opened by authorized dealers or by 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
Facsimile  +49 (0) 23 82 - 785-200
E-Mail      service@kaldewei.de
INSTALLATION INSTRUCTIONS FOR ELECTRICAL FITTER

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CONTENTS

ELECTRICAL COMPONENTS ........................................... 10
OPTIONAL EQUIPMENT .............................................. 10
TECHNICAL DATA ..................................................... 10
BINDING INSTALLATION INSTRUCTIONS .................. 11
EQUIPOTENTIAL BONDING ....................................... 11
MAINS CONNECTION .................................................. 12
ELECTRICAL OPERATION TEST ................................. 12
TROUBLE SHOOTING .................................................. 12

ANNEX

TERMINAL DIAGRAM .................................................. 13
TERMINAL DIAGRAM (ILLUMINATED MASSAGE NOZZLES) ....................................................... 14
TERMINAL CONNECTION DIAGRAM ......................... 15
TERMINAL PLAN CONTROL (UNDERWATER SPOTLIGHT) .................................................... 16
TERMINAL PLAN CONTROL (SPECTRAL LIGHT) ........... 16
**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.

**VIVO TURBO/PLUS WHIRL SYSTEM**
- Massage nozzle motors 24 V DC (A)
- Control system (B)
- Sealed key pad (C)
- Level sensor (D)
- Connecting cable 3 x 1.5 mm²

**TECHNICAL DATA**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal voltage of massage nozzle motors</td>
<td>24 V DC</td>
</tr>
<tr>
<td>Nominal output of one massage nozzle motor</td>
<td>70 W</td>
</tr>
<tr>
<td>Total nominal output</td>
<td>560 W</td>
</tr>
<tr>
<td>Mains connection</td>
<td>230 V</td>
</tr>
<tr>
<td></td>
<td>50/60 cps</td>
</tr>
<tr>
<td></td>
<td>16 A</td>
</tr>
<tr>
<td>Safety class</td>
<td>IP65</td>
</tr>
<tr>
<td>Operation</td>
<td>Sealed key pad</td>
</tr>
</tbody>
</table>

**OPTIONAL EQUIPMENT**

- Underwater spotlight or spectral light with additional control system
- Illuminated massage nozzles with additional control system
**BINDING INSTALLATION INSTRUCTIONS**

The mounting of the whirlpool, the connection to the electrical mains and the elimination of malfunctions and defects must only be carried out by a specialist shop which is able to prove its skills and competence with regard to the application of national safety regulations, e.g. to power and water supply/discharge, to the relevant authorities.

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 mm² and a 4 mm² 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).

For service work the whirl system is to be disconnected from the mains - the condenser unloading time amounts to 10 minutes.

The wiring of the whirl system is suitable for an a.c. voltage of 230 V 50/60 cps.

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.

Instrument cases or electrical components remain unaffected when installing 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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**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 mm², copper

![Equipotential Bonding](image)
Mains Connection

- Connect the whirl system to the local supply network via the connecting cable 3 x 1.5 mm².

⚠️ 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."

⚠️ Components of the whirl system which carry mains voltage (230 V) when active or inactive shall be inaccessible to persons using the bath.

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.

If in this case, you should have the name and serial number of your whirl system (see cover of manual) ready.

⚠️ The installation of the whirlpool, the electrical connection and the remedy of malfunctions and defects must be carried out by a specialized dealer who is able to prove to the authorities concerned his knowledge and competence as to the application of the national safety regulations, e.g. with regard to the power and water supply/discharge.

⚠️ The inspection chamber of the whirl system may be opened by authorized dealers or by 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
Facsimile +49 (0) 23 82 - 785-200
E-Mail service@kaldewei.de
TERMINAL DIAGRAM

A = Control system
B = Venturi valve 8 W/24 V
C = Operating panel, round or oval
D = Level sensor 12 V
E = Underwater spotlight/spectral light control system
    230 V (optional)
F = Underwater spotlight/spectral light 3.5 V (optional)
G = Nozzle motor shoulder area 24 V
H = Nozzle motor waist area 24 V
I = Nozzle motor calf area 24 V

Power input
1 x 230 V
**TERMINAL DIAGRAM (ILLUMINATED MASSAGE NOZZLES)**

A = Control system  
B = Venturi valve 8 W/24 V  
C = Operating panel, round or oval  
D = Level sensor 12 V  
E = Control system for illuminated massage nozzles (optional)  
G = Nozzle motor shoulder area 24 V  
H = Nozzle motor waist area 24 V  
J = Nozzle motor calf area 24 V
TERMINAL CONNECTION DIAGRAM

A = Solenoid valve
   + blue
   - brown

B = Level sensor whirl operation
   + white
   IN brown
   - green

C = Spectral light
   T2 white
   T1 brown

D = Motor pair calf area
   + brown
   - blue

E = Motor pair waist area
   + brown
   - blue

F = Motor pair shoulder area
   + brown
   - blue

G = Underwater spotlight/spectral light
   L brown
   N blue
   L brown/black

H = Mains input 3 x 1.5 mm²
   PE yellow-green
   N blue

I = Jack for service PC

J = Control transformer fuse 1.25 AT

K = Mains input fuse 3.15 AT

L = Control system for illuminated massage nozzles

DESIGNATION OF THE WHIRL NOZZLES IN THE VIVO TURBO PLUS SYSTEM (RIGHT-HAND/LEFT-HAND TYPE)

A = Sealed key pad
B = Drain and overflow fittings
**TERMINAL PLAN CONTROL (UNDERWATER SPOTLIGHT)**

A = Power input 2 x 0.75 mm²  
L  brown/black  
N  blue  
B = Underwater spotlight  
T1  white  
T2  brown

**TERMINAL PLAN CONTROL (SPECTRAL LIGHT)**

A = Power input 2 x 0.75 mm²  
L  brown/black  
N  blue  
B = Spectral light  
- yellow  
- green  
- white  
+ brown  
C = Control line  
T1  white  
T2  brown