
January 27, 2022

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    11.1 Related Manuals / Resources
It is important to read through this manual carefully in order to ensure the function and useful length of the pool equipment. Pahlén AB is not responsible for product warranties or damages that occur as a result of faulty installation, improper use or poor maintenance.

Product Description

Jet Swim Athlete is a product used for training and exercise. It can be switched on and off via a push button on the front of the pool. Next to the start button is a knob that can easily adjust the water flow for the swimmer.

The Jet Swim Athlete consists of the following parts:

<table>
<thead>
<tr>
<th>Essential parts</th>
<th>Mounting kit (for thick pool wall)</th>
<th>Pump kit</th>
<th>Control box</th>
</tr>
</thead>
<tbody>
<tr>
<td>1302130</td>
<td>1302130</td>
<td>1302198 (50Hz), 1302595 (50Hz)</td>
<td>1302090 430V</td>
</tr>
</tbody>
</table>

Technical Data

<table>
<thead>
<tr>
<th>Engine</th>
<th>4.0 kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>230/400V 50Hz 3N-</td>
</tr>
<tr>
<td>Current</td>
<td>13.9 / 8.0 A</td>
</tr>
<tr>
<td>Pump capacity</td>
<td>67 m³/h</td>
</tr>
<tr>
<td>IP class</td>
<td>IP55</td>
</tr>
</tbody>
</table>

The product is intended for the following water values:
The product warranty does not apply outside these values.

* According to EN16713-3 2016

Safety

The jet stream is powerful, which is why one should not be closer than 0.5 m from the stream outlet for a protracted period.

People with long hair should pay careful attention so that their hair does not get stuck in the inlets (the perforated openings in the front).

Small children should not be in the pool without supervision, especially not when the Jet Swim Athlete device is in operation.

Always inform all the other bathers in the pool before starting the Jet Swim Athlete.

Always make sure that the power to the pump is turned off prior to any work, service or maintenance of the pump begins.

CENELEC* members:

Note! The appliance can be used by children from the age of 8 and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge, if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

Other countries than CENELEC members (according to IEC):

Note! This appliance is not intendend for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

CENELEC members are: Austria, Belgium, Bulgaria, Croatia, the Czech Republic, Denmark, Estonia, Finland, Germany, Greece, Hungary, Iceland, Ireland, Italy Latvia, Lithuania, Lucembouge, Malta, the Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Dimensions, placement and engine room
Installation

Mount the pump part on a firm surface in a dry space. Ensure that the space has good ventilation and is provided with drains to prevent flooding.

All mounting of stainless-steel parts shall be carried out with tools intended solely for the respective material to maintain corrosion resistance. All screws should be greased with Molykote® (supplied).

Note!
The starter hose must always be laid in a loop 150–200 mm above the water surface.
Never run the pump dry as this will damage the shaft seal.
Electrical installation must be carried out by a qualified electrician and fitted with a residual current device.

1. **Installation for thin pool wall with liner**

   (wood, sheet metal, plastic, etc.)

1. Niche
2. Countersunk screw M6x30 (4 pcs)
3. Washer (4 pcs)
4. Nut (4 pcs)
5. Self-adhesive gasket
6. Packing
7. Mounting frame
8. Countersunk screw M5x16 (24 pcs)
9. Screw M4x10 (8 pcs)
10. Inlet grille (3 parts)
11. Front
12. Countersunk screw M5x20 (2 pcs)
13. O-ring
14. Plug
15. Starter hose (two parts)
16. Hose socket (2 pcs)
17. Hose (2 pcs)
18. Hose clamp (4 pcs)
19. Pump
20. Pool body (plywood)
21. Wall mat
22. Liner

1. Make a hole (approx. 457×144 mm) in the pool wall for the enclosure (item 1). Use the enclosure as a template: mark and drill the four holes on the sides (drill Ø6).
2. Place the enclosure in the hole with the flanges facing the outside of the pool body. Install with screws (item 2), washers (item 3) and nuts (item 4).
3. Attach the self-adhesive gasket (item 5) to the enclosure.
4. Mount the wall mat and liner.
5. Fill the pool with water up to 5 cm below the enclosure.
6. Screw (item 8) the fastening frame (item 7) with the rubber gasket (item 6) underneath the enclosure with 5 Nm in tightening torque. The screws must be greased.
7. Cut off the liner against the inside of the clamping frame.
8. Fit the inlet grille (item 10) and the stainless-steel front (item 11) with the screws (item 11) to be greased.
9. Mount the starter hose, see section “Installing the starter hose” on page 13.
10. Connect the pump (item 19) with the supplied hose socket (item 16), hose (item 17) and hose clamps (item 18).
The pool can then be filled with water to the desired level.
11. Electrical connection must be carried out by a qualified electrical installer, see section “Electrical installation”.

**NOTE!** The pump must never run without water.

### 2. Installation for thick pool wall

**Note!**
Any reinforcement must never be closer than 50 mm to stainless steel material.
The pool wall must be pre-plastered before assembling the specific details.

#### 2a. Thick pool wall with liner
(Bricks, thermoblock, concrete, etc.)

1. Niche
2. Casting pipes (suction)
3. Casting pipes (pressure)
4. Casting pipe start
5. O-ring
6. Plug
7. Starter hose (two parts)
8. Self-adhesive gasket
9. Packing
10. Mounting frame
11. Recessed screw M5x16 (24 pcs)
12. Screw M4x10 (8 pcs)
13. Inlet grille (3 parts)
14. Front
15. Recessed screw M5x20 (2 pcs)
16. Hose socket (2 pcs)
17. Hose (2 pcs)
18. Hose clamp (4 pcs)
19. Pump
20. Pool body (brick)
21. Wall mat
22. Liner

1. Make holes in the pool wall / mold and fix the enclosure (item 1). The flange on the enclosure must be installed
with the finished pool wall.
2. Connect the starter hose (item B) to the enclosure, see Section “3 Installing the starter hose” on page 13.
3. Mount all the pipes (items 2–4) in the enclosure. All threads must be sealed with thread tape.
5. Attach the self-adhesive gasket (item 8) to the enclosure flange.
6. Mount the wall mat and liner.
7. Fill the pool with water up to 5 cm below the enclosure.
8. Screw (item 11) the fastening frame (item 10) with the rubber gasket (item 9) underneath the enclosure flange with 5Nm in tightening torque. The screws must be greased.
9. Cut off the liner against the inside of the mounting frame.
10. Mount the inlet grille (item 13) and the front (item 14). These screws (item 15) must also be greased.
11. Connect the pump (item 19) with the supplied hose socket (item 16), hose (item 17) and hose clamps (item 18). The pool can then be filled with water to the desired level.
12. Electrical connection must be carried out by a qualified electrical installer, see section “Electrical installation”.

NOTE! The pump must never run without water.

2b. Thick pool wall without liner
(Concrete with tile / mosaic)

1. Nische
2. Casting pipes (suction)
3. Casting pipes (pressure)
4. Casting pipe start
5. O-ring
6. Plug
7. Starter hose (two parts)
8. Packing
9. Mounting frame
10. Recessed screw M5x16 (24 pcs)
11. Screw M4x10 (8 pcs)
12. Inlet grille (3 parts)
13. Front
14. Recessed screw M5x20 (2 pcs)
15. Hose socket (2 pcs)
16. Hose (2 pcs)
17. Hose clamp (4 pcs)
18. Pump
19. Pool body (concrete)
20. Plaster
21. Surface layer (tile / mosaic)
1. Mount the enclosure (item 1) in the mold. The enclosure flange should be installed with a finished pool wall.
2. Connect the starter hose (item B) to the enclosure, see Section “3 Installing the starter hose” below.
3. Mount all the casting pipes (items 2-4) in the enclosure. All threads must be sealed with thread tape.
4. Pour the cast.
5. When the concrete is burnt (and the tiling or painting is done): Mount the mounting frame (item 9) with the gasket (item 8) underneath with 5Nm in tightening torque for the screws (item 10). These screws must be greased.
6. Mount the inlet grille (item 12) and front (item 13) with screw (item 14). Grease these screws as well.
7. Connect the pump (item 18) with the supplied hose socket (item 15), hose (item 16) and hose clamps (item 17). The pool can then be filled with water to the desired level.
8. Electrical connection must be carried out by a qualified electrical installer.
   NOTE! The pump must never run without water.

3. Installing the starter hose

Do the following:

![Diagram of starter hose installation](image)

A. Connection nipple
B. Starter hose part 1
C. Cable gland (with o-ring)
D. Metal pipe Ø2.5 mm
E. Starter hose part 2

1. Cut a piece of the supplied hose to part 1 of the starter hose (B), not the part, see figure 8.
   Keep in mind that the length of the hose must take into account any possible future service options, with or without the need to lower the pool’s water level.
2. Mount the starter hose part 1 to the connection nipple (A) in the enclosure.
3. Thread the other end of the starter hose onto the metal tube (D) and allow about a third of the tube to protrude from the tube.
4. Thread the hose with the pipe through the cable gland (C) located in the plug. The pipe must be placed in the middle of the cable gland with a bit of hose B outside, see the Figure.
5. Tighten the plug on the enclosure (thin body) or on the inflow tube (thick pool frame).
6. Fix the hose end by tightening the cable screws.
7. Thread the starter hose part 2 (E) on that part of the tube which protrudes from the cable gland.
8. Connect the other end of the starter hose E to the control cable box.

   NOTE! Starter hose E (part 2) must be laid in a loop 150–200 mm above the water surface.

Electrical installation

- All electrical connections must be carried out by a qualified electrician.
• The system must be preceded by a residual current device with a maximum current of 30mA.
• The pump engine must be switched on via the Jet Swim automatic cabinet, see wiring diagram below. Check the nameplate of the pump engine for proper connection on coupling plates.
• Check that the pump engine is connected in the correct direction of rotation (see the direction of rotation arrow on the pump engine fan cover).
• Incorrect direction can damage the pump.

NOTE! The pump must never be started without being filled with water. Make sure that the engine cover in the automatic control cabinet is set according to the pump engine rated current, see the pump nameplate.

Electrical wiring diagram

3~400V

Starting
The pump housing must be water-filled before starting. Never run the pump dry as this may damage the components.

1. Start by pressing the start button (A) in the front, see Figure 3.
2. The jet can be adjusted by turning knob (B), see Figure 3. The range between max and min is about 2½ turns. We recommend turning off the jet before turning the knob.
3. The jet is turned off with button A.

Note
In case of freezing risk: Lower the water level to about 10 cm below the Jet Swim Athlete’s enclosure to avoid freezing damage. Release the plug on the back and drain any water. Drain the pump as well. The pump must be stored in a protected place (indoors). On restart: first check the condition of the hoses.

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