

# Operation Manual

## Swimming Pool Pump

51554-51562



Illustration similar, may vary depending on model

Read and follow the operating instructions and safety information before using for the first time.

Technical changes reserved!

Due to further developments, illustrations, functioning steps, and technical data can differ insignificantly.

Updating the documentation

If you have suggestions for improvement or have found any irregularities, please contact us.



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Even though, the WilTec Wildanger Technik GmbH has undergone biggest possible efforts to ensure that the operating manual is complete, faultless, and up to date, mistakes cannot be entirely avoided.

If you should find a mistake or wish to make a suggestion for improvement, we look forward to hearing from you.

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## Introduction


Thank you for purchasing this quality product. **To minimise the risk of injury we urge that our clients take some basic safety precautions when using this device. Please read the operation instructions carefully and make sure you have understood its content.**

Keep these operation instructions safe.

## Features

- Pump casing, lid and impeller made of high-quality plastic
- Big outlet, high discharge head and quiet operation
- Good mechanical gasket with long lifespan
- Includes overload protection to allow continuous operation
- With simple suction and pressure line connections

## Notes on application

- The swimming pool pumps are designed for small pools (family use), whirlpools and sauna swimming pools. We recommend the use of a pre-filter.
-  **Caution!** Near swimming pools and garden ponds and in their protection area, the use of the pump is only allowed with a fault-current circuit breaker (30 mA) according to DIN VDE 100 part 702 06.92. If you have any questions, please ask a qualified technician.
- Keep an adequate safety distance to the swimming pool and mount the pump to a stable ground panel. According to the VDE a safety distance of 2 m should be kept.
- We do not bear liability for the consequences of improper installation, commissioning, and electrical installations, which are not according to regulations.
- The electricity cable needs to comply with the EG norm (2) or type H07 RN-F according to VDE 0620.
- The device is not meant to be operated by people (including children) with limited physical, sensory, or mental abilities or lack of knowledge and/ or experience, unless they are supervised by a person responsible for their safety or are being instructed on how to operate the device.
- Children should be supervised, when around the device to ensure they do not play with it.

## Safety instructions

- Visually examine the device before every use. Do not use the device if safety precautions are damaged or worn-out. Never override safety measurements.
- Only use the device for the purpose described in this operating manual.
- Do **not** connect the device to the electricity supply before all parts have been installed.
- You are responsible for the safety in the working/ operating area.
- If the cable or socket should be damaged due to external influences, it must not be repaired! The electricity cable needs to be exchanged for a new one by a qualified technician only.
- The voltage of 230 V AC (as stated on the type label) needs to match the mains voltage available.
- Never lift, transport, or attach the device by its cable.
- Make sure that all electrical connections are in an area, which is flood-proof and protected from moisture.
- Before carrying any work out on the device, pull the plug from the electricity socket.
- The device must not be subjected to rain or a direct stream of water.
- The operator is responsible to comply with all regional and national safety and installation regulations and laws. If necessary, ask a qualified electrician.
- If the device should be malfunctioning in any way, any repair work needing to be carried out is only allowed to be done by a qualified technician.



- The device must never run dry or with an entirely closed suction line. The manufacturer is not liable for any damages caused to the device when operated dry, thus the warranty is voided.

### Control measures before the first commissioning

- Make sure that the voltage and frequency of the mains current is matching with the technical specifications of the pump (see type label).
- The pump shaft needs to turn freely.
- Fill the system with water, to find any potential leakages and be able to repair them.
- Open all spool valves, which might be present in the pressure and suction line and ensure that all lines are connected.
- Let the water run into the pump via the overflow/ the suction inlet of the pool or fill the suction line and the body of the pump entirely with water.
- **Never run the pump dry.**
- The pumps are designed for clean water with a max. temperature of 35 °C; any other use should be avoided.

### Mains connection

The electrical connection of the pump needs to be made with a properly installed earthed socket with a mains voltage of 230 V / 50 Hz.

### Assembly

- To avoid long suction lines and loss of performance resulting from it, the pump should be installed at water level or beneath it.
- If a fixed pump unit is used, the electrical pump can be fixed to the floor directly. In this case, use the holes located in the base plate.
- The pumps need to be positioned in a well ventilated and dry area, which additionally is safe from being flooded.

### Installing the pipes

- The suction line needs to be vacuum resistant and installed approx. 30 cm beneath water level. This disables the formation of vortexes and thus the inevitable connection of air inflow.
- The pipe connections need to be 100 % air tight. Pipe bends and a wavy layout should be avoided if possible. The suction line should have a minimum gradient of 2 % stretched across the entire length, to ensure no air being trapped in the system.
- The diameter of the pipe being selected for the pressure line, needs to have the same size as the pressure joint of the pump or needs to be even bigger than it.
- The suction and pressure line must under no circumstances be supported by the pump. Make sure that all connections are sealed, so that the pump will not get into contact with moisture and be damaged.

### Commissioning

- Fill the system with water, to find any potential leakages, to be able to repair them.
- Open all spool valves, which might be present in the pressure and suction line and ensure that all lines are connected.
- Let the water run into the pump via the overflow/the suction inlet of the pool or fill the suction line and the body of the pump entirely with water.
- Connect the pump to the socket and ensure that the pump allows the water to circulate.

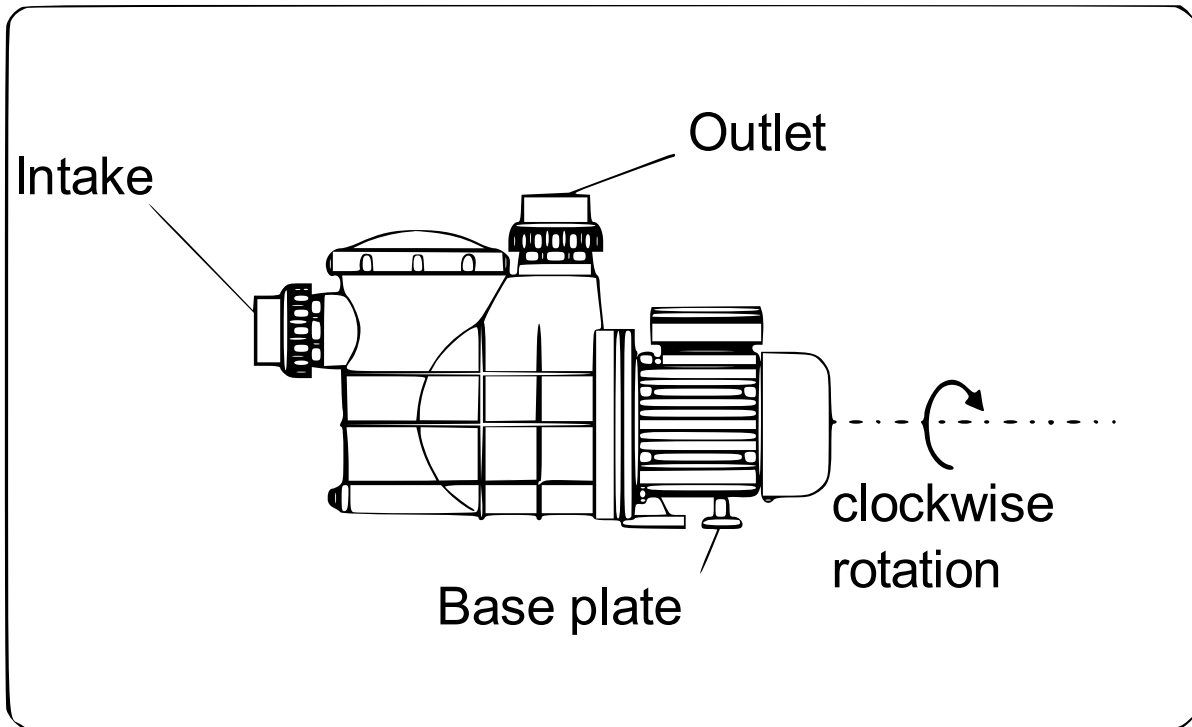


- If the pump is used above water level of the pool, the beginning of the suction hose requires a foot valve, so that the water cannot run out of the suction inlet back into the pool after switching the pump off.
- If the motor does not want to turn on or the water is not being delivered, switch the pump off and disconnect it from the electricity supply and check if there are any blockages in the pipes or in the pump.
- Please do not run the pump without water inside the pump body, as this can damage the mechanical seals between the pump's body and motor, allowing the pump to leak.
- Do not carry any work out on the pump or the pipes of the pool system when the pump is operating.
- If any problems occur when commissioning the pump, which you are not able to explain or which do not fit the description, please contact a qualified technician.

## **Maintenance**

Our electrical pumps do not require any special maintenance care. Please empty the sediment basket regularly. During colder temperatures and when not being used for longer periods of time, the pump should be emptied out. If the unit will not be used at all for longer durations, it should be cleaned and thoroughly swilled out with clean tap water, then dried and stored in a well ventilated area. Remains of chlorine and other pool supplements can damage the gaskets and cause leakage when operating the pump again.

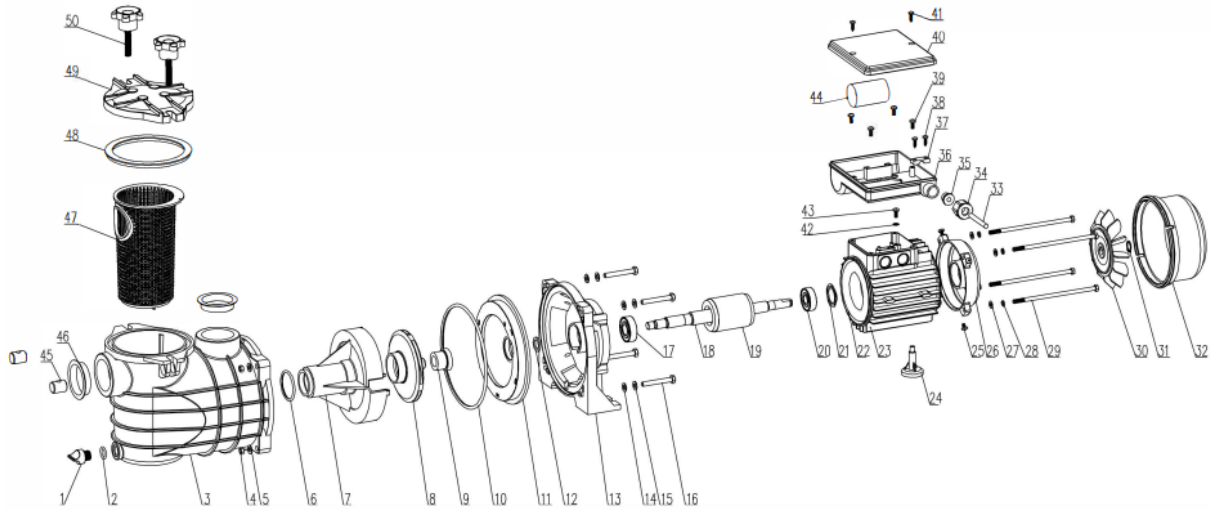
Technical drawing and data



Model	Item №	Energy supply	Power (W)	Discharge head (m)	Suction head (m)	Max. flow rate (l/h)
HCP180	51554	230 V/50 Hz	180	8	6	10,800
HCP250	51555		250	9	6.5	11,700
HCP370	51556		370	11	7	13,200
HCP550	51557		550	12		13,800
HCP750	51558		750	13		15,000
HCP1100	51559		1,100	15		17,700
HCP1500	51560		1,500	17		22,500
HCP2200	51561		2,200	18		26,400
HCP3000	51562		3,000	19		34,800

## Exploded views and parts lists

51554–51556

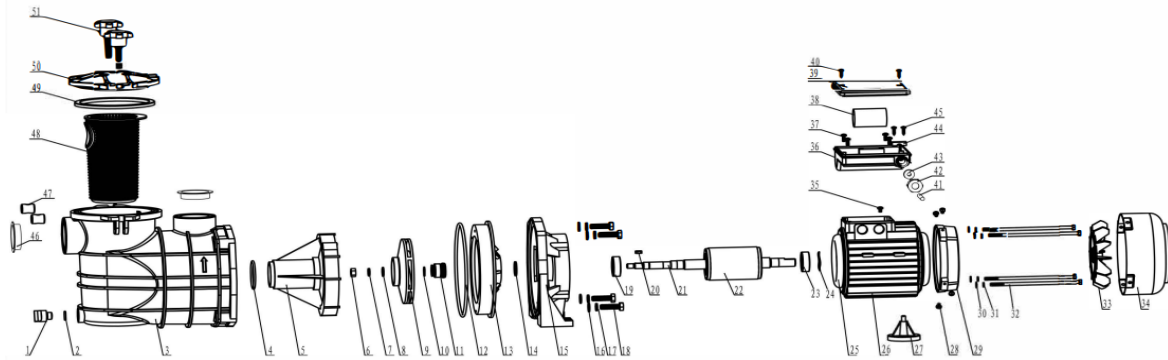


No	Name	No	Name
1	Plug	26	Rear cover
2	O-ring	27	Flat washer
3	Pump body	28	Spring washer
4	Nut	29	Screw
5	Flat washer	30	Fan
6	O-ring	31	Circlip
7	Diffusor	32	Fan cover
8	Impeller	33	Mains cable
9	Floating ring seal	34	Nut
10	O-ring	35	Through-nozzle
11	Holder cover	36	Terminal clamp
12	Shaft seal	37	Terminal block
13	Front cover	38	Screw
14	Flat washer	39	Screw
15	Spring washer	40	Terminal cover
16	Screw	41	Screw
17	Bearing	42	Fan-shaped washer
18	Shaft	43	Screw
19	Rotor	44	Capacitor
20	Bearing	45	Holder
21	Spring washer	46	Plug
22	Stator	47	Filter
23	Housing	48	O-ring



<b>24</b>	Footrest	<b>49</b>	Plastic cover
<b>25</b>	Screw	<b>50</b>	Lid screwing

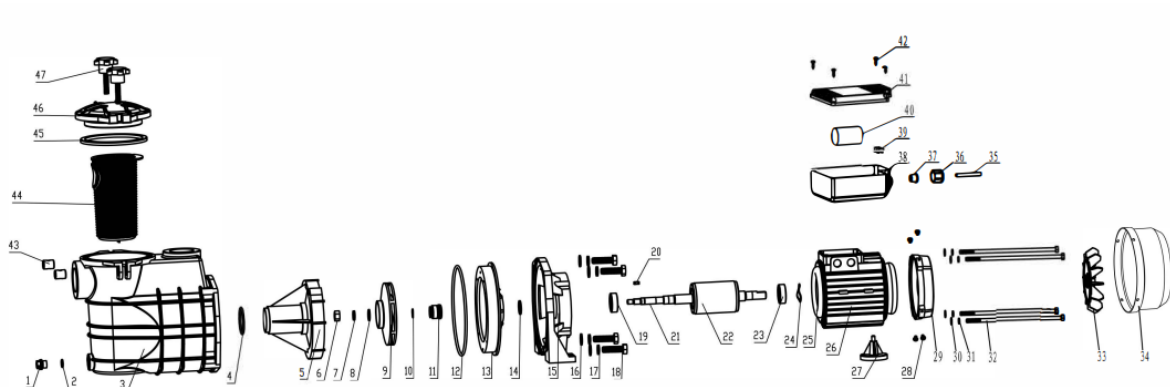
51557-51559



No	Name	No	Name
<b>1</b>	Plug	<b>27</b>	Footrest
<b>2</b>	O-ring	<b>28</b>	Screw
<b>3</b>	Pump body	<b>29</b>	End cover
<b>4</b>	O-ring	<b>30</b>	Flat washer
<b>5</b>	Diffusor	<b>31</b>	Spring washer
<b>6</b>	Nut	<b>32</b>	Screw
<b>7</b>	Spring washer	<b>33</b>	Fan
<b>8</b>	Flat washer	<b>34</b>	Fan cover
<b>9</b>	Impeller	<b>35</b>	Screw
<b>10</b>	Shaft with sleeve	<b>36</b>	Terminal clamp
<b>11</b>	Floating ring seal	<b>37</b>	Screw
<b>12</b>	O-ring	<b>38</b>	Capacitor
<b>13</b>	Holder cover	<b>39</b>	Terminal cover
<b>14</b>	Shaft seal	<b>40</b>	Screw
<b>15</b>	Front cover	<b>41</b>	Mains cable
<b>16</b>	Flat washer	<b>42</b>	Nut
<b>17</b>	Spring washer	<b>43</b>	Through-nozzle
<b>18</b>	Screw	<b>44</b>	Terminal block
<b>19</b>	Bearing	<b>45</b>	Screw
<b>20</b>	Feather key	<b>46</b>	Plug
<b>21</b>	Shaft	<b>47</b>	Holder
<b>22</b>	Rotor	<b>48</b>	Filter
<b>23</b>	Bearing	<b>49</b>	O-ring
<b>24</b>	Circlip	<b>50</b>	Plastic cover
<b>25</b>	Stator	<b>51</b>	Screw
<b>26</b>	Housing		



51560–51562



No	Name	No	Name
1	Plug	25	Stator
2	O-ring	26	Housing
3	Pump body	27	Footrest
4	O-ring	28	Screw
5	Diffusor	29	End cover
6	Nut	30	Flat washer
7	Spring washer	31	Spring washer
8	Flat washer	32	Screw
9	Impeller	33	Fan
10	Shaft with sleeve	34	Fan cover
11	Floating ring seal	35	Mains cable
12	O-ring	36	Nut
13	Holder cover	37	Through-nozzle
14	Shaft seal	38	Terminal clamp
15	Front cover	39	Terminal block
16	Flat washer	40	Capacitor
17	Spring washer	41	Terminal cover
18	Screw	42	Screw
19	Bearing	43	Holder
20	Feather key	44	Filter
21	Shaft	45	O-ring
22	Rotor	46	Plastic cover
23	Bearing	47	Screw
24	Circlip		

## Disposal regulations

EU guidelines regarding the disposal of scrap electric appliances (WEEE, 2012/19/EU) were implemented in the law related to electrical and electronic equipment and appliances.

All WiTec electric devices that fall under the WEEE regulations are labelled with the crossed-out wheeled waste bin logo. This logo indicates that this electric equipment must not be disposed with the domestic waste.

The company WiTec Technik GmbH has been registered in the German registry EAR under the WEEE-registration number DE45283704.

Disposal of used electrical and electronic appliances (intended for use in the countries of the European Union and other European countries with a separate collection system for these appliances).

The logo on the article or on its packaging points out that this article must not be treated as normal household waste but must be disposed to a recycling collection point for electronic and electrical waste equipment. By contributing to the correct disposal of this article you protect the environment and the health of your fellow men. Environment and health are threatened by inappropriate disposal.



Material recycling helps reduce the consumption of raw materials.

Additional information on recycling this article can be provided by your local community, municipal waste disposal facilities, or the store where you purchased the article.

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