



Whitehall Manufacturing
Manufacturer of Healthcare and Rehabilitation Products since 1946

User Manual

Whitehall **WHIRLPOOL** SINCE 1946

Stationary Models

Podiatry	WHP-10-S
Extremity	WHE-15-S, WHE-22-S, WHE-27-S, WHE-27-SP, WHE-45-S
Hi-Boy	WHH-60-S, WHH-75-S, WHH-90-S, WHH-105-S
Lo-Boy	WHL-75-S, WHL-90-S, WHL-105-S, WHL-105-SL
Sports	WHS-85-S, WHS-85-SL, WHS-90-S, WHS-90-SL, WHS-110-S, WHS-110-SL
Slant Back	WHSB-100-S



WHE-27-S



WHS-110-SL

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WARNING

READ AND UNDERSTAND THIS ENTIRE MANUAL BEFORE OPERATING THE WHIRLPOOL

Failure to follow the instructions in this manual could result in Whirlpool damage and/or bodily injury

Symbols



Waste Electrical and Electronic Equipment (WEEE)

Indicates that the product must not be disposed of with regular waste. It is the user's responsibility to dispose of waste equipment according to local laws. For information about where to drop off the waste equipment for recycling, contact your local waste collection authority.



General Warning or Caution

Indicates personal injury or damage to the equipment is possible



Electric Shock

Indicates a hazard arising from dangerous voltage. Any mishandling could result in irreparable damage to the equipment and/or personal injury or death.



Warning; Crushing of hands

To warn of a closing motion of mechanical parts of equipment



Refer To Manual (Instructions for Use)

Indicates that user manual shall be referred to before performing any installation, operation or maintenance



Alternating Current

Indicates alternating current is present



Manufacturer

Indicates manufacturer of device



Manufacture Date

Indicates manufacture date of device



Warnings

Operation:

- Whirlpools are intended for use by a professional only, e.g., Athletic Trainer, Coach.
- During treatment, the professional must stay with user at all times.
- The maximum allowable user mass is 135 kg (298 lbs)
- Ensure water in tub is no greater than 43.3°C (110°F). Higher temperatures may result in injury to user.
- Usage should terminate if the user experiences dizziness, light-headedness, shortness of breath, or nausea
- To avoid user cross-infection, drain and clean equipment after each user, and disinfect equipment surfaces and components by using an EPA registered product in accordance with the manufacturer's instructions
- Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.
- Use of accessories and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation
- Use only Whitehall-approved items on the Whirlpool
- Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the Whirlpool, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.
- If there is visible damage to the Whirlpool or packaging upon receipt, report this damage to shipping company and Whitehall. Do not use the Whirlpool if damage to it is suspected.
- Operate with the bottom of the turbine submerged in at least 15.2 cm (6 inches) of water
- Keep hair and loose items (gown straps, gauze, etc.) out of the tub. These items can be pulled into the pump and cause injury or damage to the turbine.
- Use the Whirlpool only for the purpose described in this manual
- Position the Whirlpool so that the power cord is easily accessible.
- To avoid damage to the thermometer, do not drop the thermometer or expose it to temperatures above 60°C (140°F)



- No parts shall be serviced or maintained while in use with a user.
- The turbine is top-heavy. Follow transport instructions in this manual.
- To avoid the risk of electric shock, this equipment must only be connected to a supply mains with protective earth.
- Connect the power cord to a Ground Fault Circuit Interrupter (GFCI) medical grade receptacle.
- No parts of the Whirlpool, including the power supply cord, are repairable or replaceable by service personnel.
- No modification of the Whirlpool is allowed.
- To protect stainless steel surfaces, use soft water (i.e., water with low concentrations of ions and in particular low in ions of calcium and magnesium) in the tub.

Incident Reporting

Any serious incident that has occurred in relation to the Whirlpool should be reported to Whitehall manufacturing.



User Skills

The professional using the Whirlpool must have the following skills:

- The ability to assist the user
- Knowledge of Whirlpool protocols
- To have read and understood this manual
- To have become familiar with the Whirlpool before using it with a user

Whirlpool Description

The Whirlpool consists of a welded stainless steel tub for holding water and a turbine assembly mounted to the side of the tub. The turbine assembly is a motor-operated centrifugal pump that circulates the water. The pump position can be adjusted up or down and rotated to change the position of the water outlet, then locked with a handle. Depending on the model and options, water can be drained either by diverting the water from the pump to a drain hose mounted at the top of the turbine, by an optional drain pump located below the tub, or by opening up the drain valve at the bottom of the tub. Four casters, all of which are lockable to prevent tub movement, are mounted to the bottom of the tub to assist in moving an empty tub between use. The interior of the tub and tub rim are considered Type B Applied Parts, since they are likely to be touched by the user.


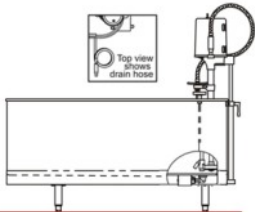

Water temperature may be adjusted by the operator depending on the desired usage. A thermometer mounted to the side of the tube is included with the Whirlpool. The Whirlpool does not control water temperature.

For smaller Whirlpools, the user sits comfortably next to the tub and places their extremity (hand, foot, arm or leg) in the tub. For larger Whirlpools, the user can enter the tub and sit inside.

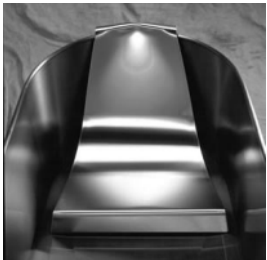


Options and Accessories



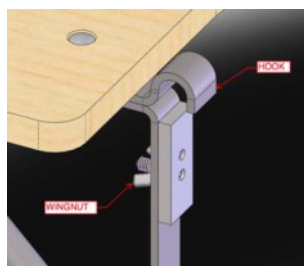

The following options are incorporated into the Whirlpool device and are not detachable.

#	Description	Used on Models
SDO 	Separate Drain and Overflow Assembly	All -S models
SDP 	Separate Drain Pump	All -SL models
GFI 	Ground Fault Circuit Interruption Cable	All
EGXX, where XX indicates the color of the powder coat	Powder Coat Paint	All except Slant Back
LOGO	Logo selected by customer	All except Slant Back

The following accessories are available:

#	Description	Used on Models	Instructions
RS 	Reclining Seat	WHL-75-S WHL-90-S WHL-105-S WHL-105-SL	Hang seat on back edge of tub as shown. Bottom of seat rests on bottom of tub. For maintenance, see the <i>Disinfecting and Cleaning Instructions</i> section.



#	Description	Used on Models	Instructions
TTS1 	Tank Top Seat for 508 mm (20 inch) wide tubs	WHH-60-S WHH-75-S WHH-90-S WHS-85-S WHS-85-SL	<ol style="list-style-type: none"> Loosen wing nuts on the lower mounting clip assemblies Position tank top seat assembly over radius of tank and align hooks with tank rim Push up on the lower mounting clip assemblies and tighten wing nuts to clamp seat to the Whirlpool rim For maintenance, see the Error! Reference source not found. section.
TTS2 	Tank Top Seat for 610 mm (24 inch) wide tubs	WHH-105-S WHS-90-S WHS-90-SL WHS-110-S WHS-110-SL WHL-75-S WHL-90-S WHL-105-S WHL-105-SL	
ARS 	Arm Rest Support	All	Hang support on edge of tank as shown. For maintenance, see the <i>Disinfecting and Cleaning Instructions</i> section.
AS1	Adjustable Suspension Seat for 508 mm (20 inch) wide tubs	WHH-60-S WHH-75-S WHH-90-S WHS-85-S WHS-85-SL	Hang seat supports on sides of tub. Hang seat on seat supports. Adjust height of seat as desired. For maintenance, see the <i>Disinfecting and Cleaning Instructions</i> section.
AS2	Adjustable Suspension Seat for 610 mm (24 inch) wide tubs, except Lo-Boy	WHH-105-S WHS-90-S WHS-90-SL WHS-110-S WHS-110-SL	
AS3	Adjustable Suspension Seat for Lo-Boy	WHL-75-S WHL-90-S WHL-105-S WHL-105-SL	



Facility Requirements

The following are needed prior to using your Whirlpool:

- Clean water source for filling tub
- Drain plumbed per Figure 1 (-S and -SP models only), installed by licensed plumber
- A sink or floor drain (-SL models only)
- Medical-grade GFCI receptacle, installed by licensed electrician
- Ability to install floor anchors (-S and -SP models only)
- Environmental conditions within those specified in the Specification section of this manual

NOTE: The emissions characteristics of this equipment make it suitable for use in industrial areas and hospitals (CISPR 11 class A). If it is used in a residential environment (for which CISPR 11 class B is normally required) this equipment might not offer adequate protection to radio-frequency communication services. The user might need to take mitigation measures, such as relocating or re-orienting the equipment.



Instructions

Key:

L = Length

W = Width

D = Depth

OH = Overall Height

CD = Center of Drain to Wall

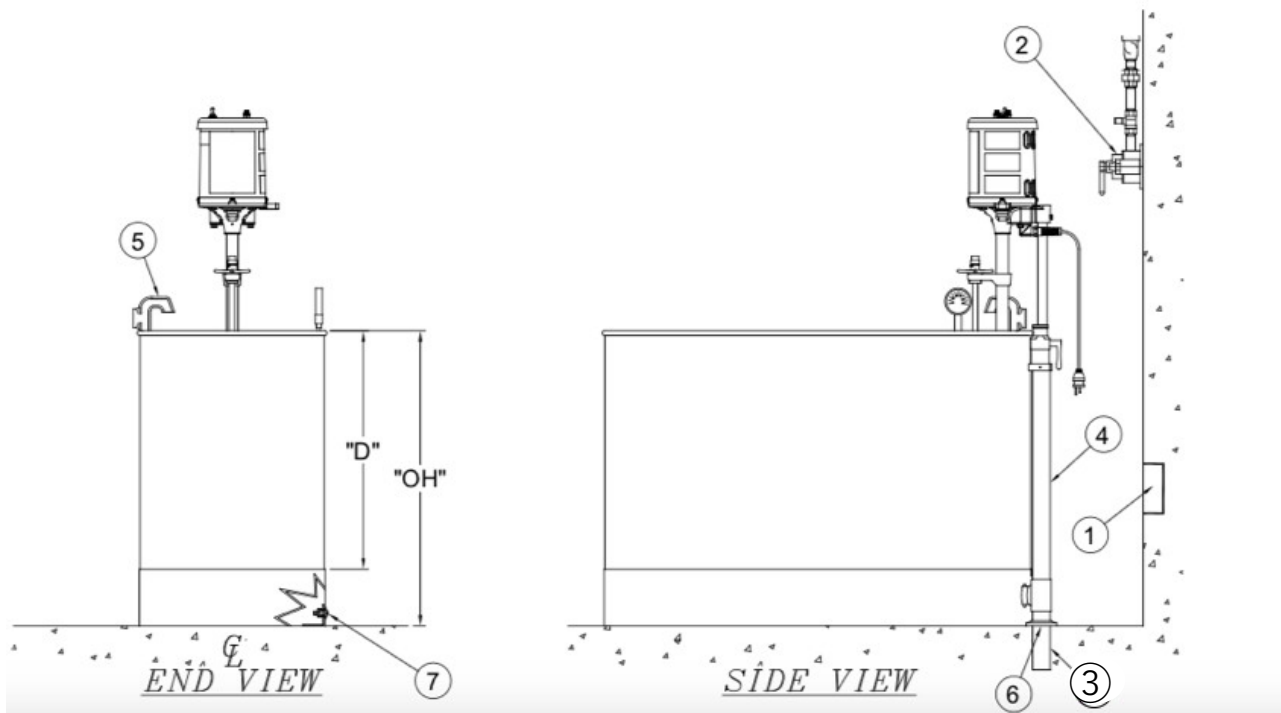
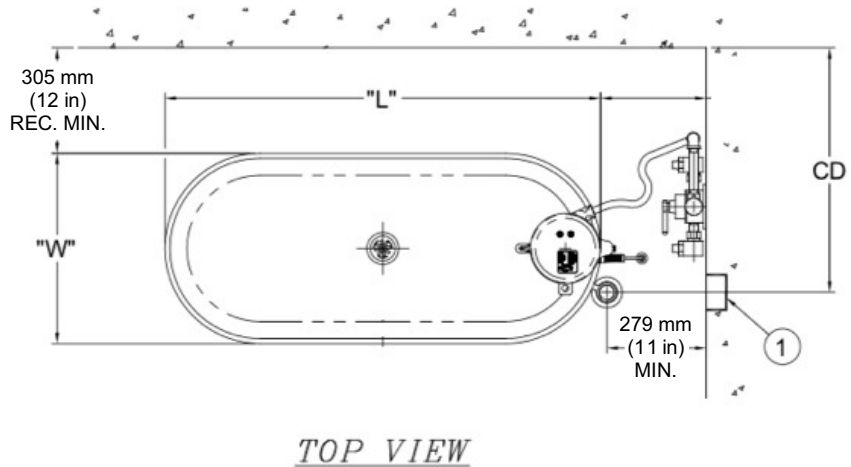


Figure 1:-S and -SP Whirlpool installation diagram - see table below for L, W, D, OH, CW, and CD values.

- | | |
|--|--------------------------|
| ① Mains input (medical grade GFCI)* | ⑤ Filler inlet assembly |
| ② Optional thermostatic mixing valve | ⑥ 51 mm (2 inch) Drain* |
| ③ 51 mm (2 inch) outer diameter x 127 mm (5 inch) long drain tube coupling | ⑦ Mounting clip assembly |
| ④ 51 mm (2 inch) standard drain and overflow assembly | |

* Customer provided



Model #	Dimension, mm (inches)					
	L	W	D	Overall Height	Center of Drain to Wall	
WHP-10-S	559 (22)	330 (13)	305 (12)	457 (18)	673 (26.5)	
WHP-15-S	635 (25)		381 (15)	533 (21)		
WHP-22-S	711 (28)	381 (15)	457 (18)	610 (24)		
WHE-15-S	635 (25)	330 (13)	381 (15)	533 (21)		
WHE-22-S	711 (28)	381 (15)	457 (18)	610 (24)		
WHE-22-SP				864 (34)		
WHE-27-S			533 (21)	686 (27)		
WHE-45-S			813 (32)	635 (25)		787 (31)
WHH-60-S	914 (36)	508 (20)	711 (28)	864 (34)	737 (29)	
WHH-75-S	1067 (42)					
WHH-90-S	1219 (48)					
WHH-105-S		610 (24)	457 (18)	610 (24)	787 (31)	
WHL-75-S	1321 (52)					
WHL-90-S	1524 (60)					
WHL-105-S	1676 (66)					
WHL-105-SL				699 (27.5)	N/A*	
WHS-85-S	1219 (48)	508 (20)	635 (25)	787 (31)	737 (29)	
WHS-85-SL				889 (35)	N/A*	
WHS-90-S	1168 (46)	610 (24)		878 (31)	787 (31)	
WHS-90-SL				889 (35)	N/A*	
WHS-110-S				1422 (56)	787 (31)	787 (31)
WHS-110-SL					889 (35)	N/A*
WHSB-100-S	1549 (61.0)	602 (23.7)		470 (18.5)	597 (23.5)	762 (30)

*-SL models can drain either through a horizontal pipe under the tub, or via the drain hose on the turbine assembly



Installation Instructions

To install tub

1. - S models:

- a. Connect tub drain to installed drain line using supplied 51 mm (2 inch) drain tube coupling and escutcheon and position the tub in desired location.
- b. Trace outline of skirt on floor near the four holes (for all but slant back) or six holes (for slant back) in the base of the skirt.
- c. Mark location of holes directly below them on floor.
- d. Disconnect drain tube coupling and move tub aside. Depending on the model, 2 people may be required to move the tub.
- e. Measure 19 mm (3/4 inch) inward (for all but slant back) or 32 mm (1-1/4 inch) inward (for slant back) from the lines marked in step b at the hole locations marked in step c.
- f. Remove and set aside attaching hardware from mounting clip assemblies.
- g. Attach brackets to floor using 6.35 mm (1/4 inch) bolts, aligning the brackets so they are just inward from and parallel to the line drawn in step b to allow for the sheet metal thickness of the tub skirt.
- h. Lift the tub over the brackets and attach with the bolts and washers using a Phillips screwdriver.
- i. Attach filler inlet assembly.

2. - SP models:

- a. Connect tub drain to installed drain line using supplied 51 mm (2 inches) outer diameter drain tube coupling and escutcheon and position tub in desired location, keeping at least 30.5 cm (12 inches) clearance around outside of tub (see Figure 1).
- b. Mark bolt hole locations in post onto floor.
- c. Set tub aside and install 9.53 mm (3/8 inches) anchors in floor.
- d. Re-connect tub drain to installed drain line and tighten connections.
- e. Attach filler inlet assembly.

To install thermometer, insert sensing rod (7) through upper bracket (8) and into lower bracket (9), then tighten screw (10).

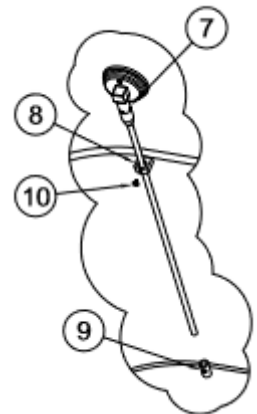


Figure 2: Installing thermometer



NOTE: The turbine assembly can weigh as much as 22 kg (48 lbs). It is recommended that 2 people mount the turbine assembly onto the tub.

To install the turbine (3) onto tub,

1. (Figure 3) Loosen handle (5) then lower turbine support rod (6) into turbine support tube. Tighten handle (5) when turbine is at desired height.
2. For -SL models (Figure 5) and -SL-SDP models (Figure 4): Place discharge nozzle (5) into storage socket (6). For -SL-SDP models only: water will flow through hose if discharge nozzle (5) is lower than water level.
3. Turn the pressure control valve handle (11) fully clockwise, then fully counterclockwise to completely lubricate the plunger assembly.
4. For -SL-SDP models only (Figure 4): Insert electrical cord twist-lock plug (7) into socket (9) and turn clockwise a quarter turn to lock in place. Ensure plug cover is firmly against the receptacle (9).
5. Turn the turbine power switch (13) off.
6. Plug Whirlpool power cord into medical-grade GFCI outlet.

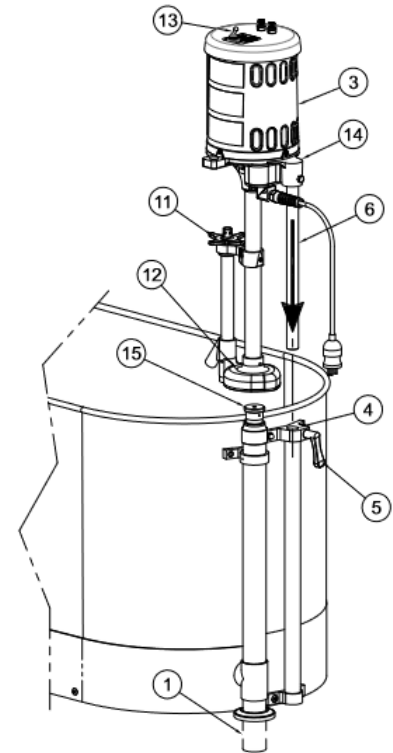


Figure 3: Installing the turbine on the tub. -S model with standard drain and overflow shown.

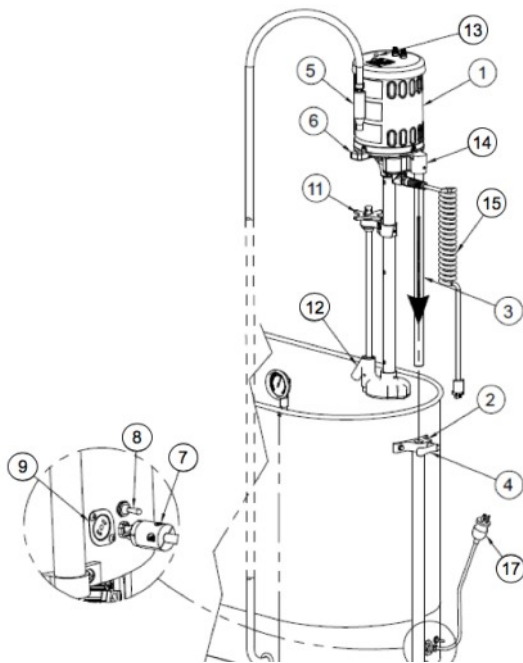


Figure 4: Detail of -SL-SDP Whirlpools

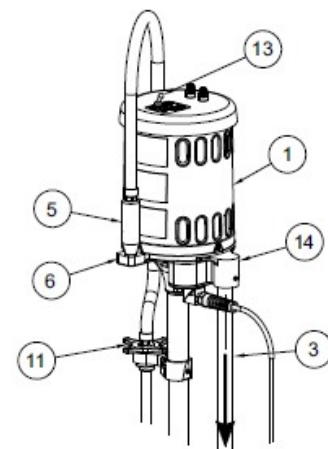


Figure 5: Detail of -SL model without -SDP



Operating Instructions

Refer to warnings on page 5 before operating the Whirlpool.



1. Ensure Whirlpool power cord is plugged into medical-grade GFCI outlet.
2. Fill tub with water so that the bottom of turbine is at least 15.2 cm (6 inches) below surface of water.
3. Turn the pressure control valve handle (11) fully clockwise. This will generate maximum water circulation.
4. Turn the turbine power switch (13) on.
5. Adjust position of turbine by slowly pushing down on and rotating the top of the motor support casting (14) until the bottom of the turbine (12) is at the desired location. Tighten handle (5) to lock in place.
6. Adjust pressure control valve handle (11) to change level of water circulation.
7. Turn the turbine power switch (13) off to stop circulation.
8. To electrically isolate the Whirlpool from supply mains, simply unplug the Whirlpool at the wall outlet, if required.

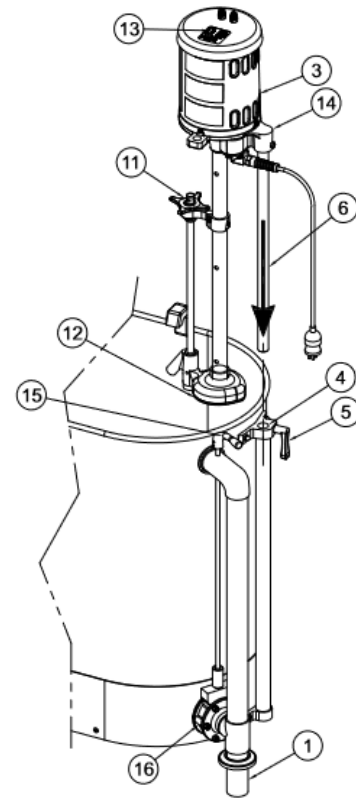


Figure 6: Operating the Whirlpool. -S model with -SDO option shown.



Draining Instructions

1. Turn the turbine power switch off to stop water circulation.
2. **-SL models w/o separate drain pump** (Figure 7):
Either open drain valve (2) and drain to floor or
 - a. Lower turbine to lowest position and lock in place.
 - b. Lift discharge nozzle (5) from storage socket (6) and place in sink.
 - c. Turn pressure control valve handle (3) fully counterclockwise. This diverts water to the hose (1).
 - d. Place and hold discharge nozzle (5) into sink then turn the turbine power switch (4) on to start draining to sink.
 - e. When water stops discharging from the nozzle, turn the turbine power switch (4) off.
 - f. Drain remaining water using drain valve (2) or by using a dry sponge.
3. **-S and -SP models** with:
 - a. Standard drain and overflow (Figure 8 and Figure 9): Lift combination drain and overflow assembly handle (15).
 - b. Separate drain and overflow (Figure 10): Turn handle (15) clockwise to open drain valve (16).

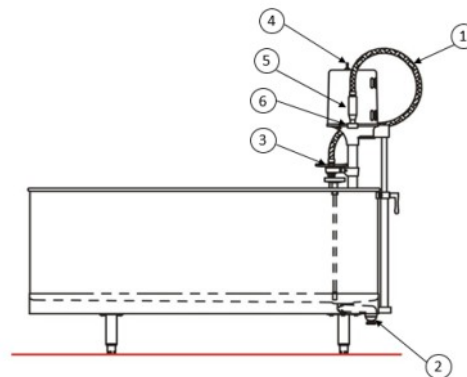


Figure 7: Draining the tub on the -SL model

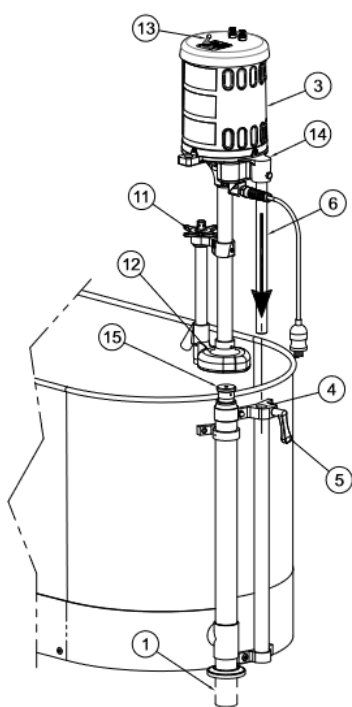


Figure 8: -S model with standard drain and overflow

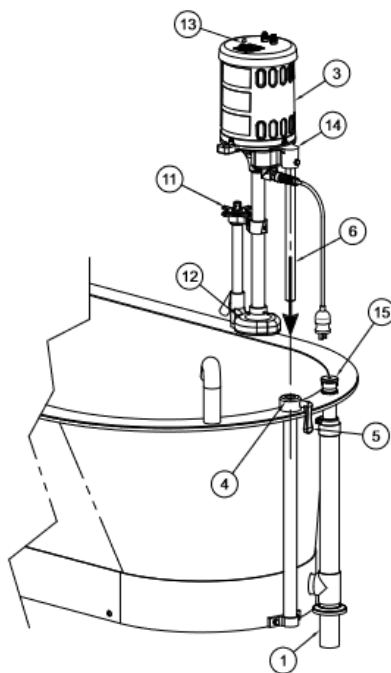


Figure 9: WHSB-100-S with standard drain and overflow

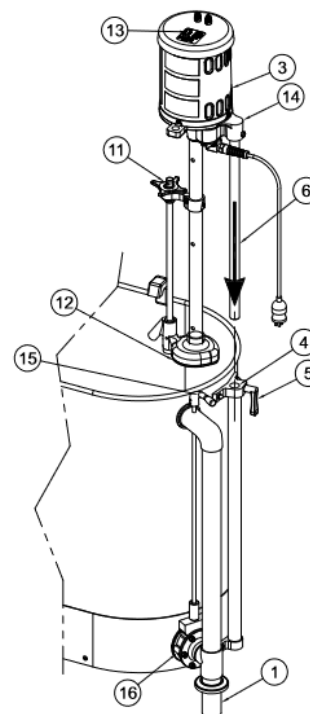


Figure 10: -S model with separate drain and overflow (-SDO)



4. **-SL models with separate drain pump (-SDP, Figure 11):**
 - a. Place discharge nozzle (5) into floor drain or sink.
 - b. Turn the drain pump switch (18, Figure 4) on. When water stops discharging from the nozzle, turn the drain pump switch off.
 - c. Some residual water will remain in the drain pump. To remove this water, lower the discharge nozzle (5) to the floor and clean with a towel or sponge.
 - d. Any residual water in the tub may be removed by sponge drying.
 - e. Place discharge nozzle (5) into socket (6). Note: water will flow through hose if discharge nozzle (5) is lower than water level.

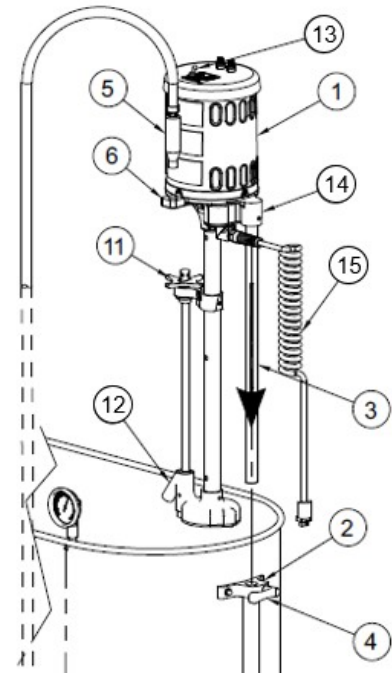
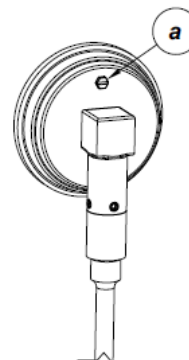


Figure 11: -SL Whirlpool with separate drain pump (-SDP)



Thermometer Calibration Instructions

1. Fill the tub so that the bottom of the thermometer tip is immersed in at least 10.2 cm (4 inches) of water.
2. Place the stem tip of a calibrated thermometer next to the tip of the Whirlpool thermometer.
3. Turn on the turbine assembly.
4. If the reading on the Whirlpool thermometer is not the same as that of the calibrated thermometer, turn the external adjustment screw (a) so that the Whirlpool thermometer reading is identical to the calibrated thermometer.
5. Re-calibration shall be performed at least every 12 months or as needed.





Disinfecting and Cleaning Instructions



Important:

1. Do not use abrasive compounds or applicators such as metal brushes – they can damage the whirlpool's appearance. Do not allow steel wool to come in contact with stainless steel. Steel particles can embed into the stainless steel surface and create rust.
2. Avoid cleaning or disinfecting products that contain strong acids or contain chlorine, fluorine, bromine, or iodine, as these products can damage the protective chromium oxide layer, resulting in corrosion and leaks. If such products are used on stainless steel, keep the exposure brief (less than 15 minutes) and thoroughly rinse stainless steel surfaces of all residue.

Recommended cleaning materials:

- a. Sponge (natural or artificial)
- b. Soft-bristle brush
- c. Soft cloth (e.g. microfiber cloth)

The tub, thermometer, and turbine shall be disinfected and cleaned after each user.

Disinfecting and Cleaning the Tub and Thermometer

1. Drain the tub following the draining instructions above.
2. Verify that the turbine is off.
3. Remove any loose objects or debris that may be present in the Whirlpool tub.

To disinfect, use a stainless steel hard surface disinfectant per the manufacturer's instructions with one of the recommended cleaning materials above.

To clean, use a mild soap solution with one of the recommended cleaning materials above.

Rinse thoroughly prior to use.

Disinfecting and Cleaning the Turbine

1. Drain the tub following the draining instructions above.
2. For tubs greater than 75.7 L (20 US gallons), raise turbine, place a large clean bucket in the tub and lower the bottom of the turbine into the empty bucket.
3. Fill the bucket or tub with water so the bottom of the turbine is at least 15.2 cm (6 inches) below the surface of the water.
4. Add disinfectant solution to the water per manufacturer's instructions.
5. Ensure the aerator control valve is in the open position.
6. Turn on the turbine for 5 seconds and turn it off. Wait 10 minutes.



7. Spray or wipe all exposed surfaces with a mixture of suitable disinfectant solution per manufacturer's instructions. Exposed surfaces shall remain wet for at least 10 minutes.
8. Drain the turbine bucket into the tub and open drain.
9. Rinse all exposed surfaces with warm or hot water.
10. Fill the bucket with clean water and run turbine for five seconds to rinse impeller cavity.



Turbine Maintenance

Motors are equipped with sealed greased ball bearings that do not require lubrication so are maintenance-free. Clean vent holes in the motor cover shell periodically to allow free air flow and prevent overheating.

Troubleshooting

Symptom	Possible Cause	Remedy
Loss in pressure	Foreign material caught in pump inlet holes	1. Turn off and unplug turbine assembly 2. Remove foreign materials from bottom of pump
	Turbine pump is not submerged fully in water	Ensure that water level is at least 6" (152mm) above bottom of turbine assembly
Water does not circulate	No power to turbine	Check the power source Reset the GFCI(s) if tripped Replace the fuses (see instructions below) Contact Whitehall
	Shaft has seized	Contact Whitehall
Turbine stops operation	Motor is overloaded	Check for blocked motor ventilation holes Check for excessive current load NOTE: The motor is equipped with a thermal overload protector. In an overheated condition, the motor will automatically shut off until it has returned to a normal operating temperature, then resume operation.

Fuse Replacement Procedure:

1. Turn off and unplug the turbine
2. Push down and turn each of the round black fuse covers counter-clockwise on top of the turbine and set aside
3. Remove the fuses and discard
4. Replace the fuses with 6525-608-000 for the 125V~ turbine and 6525-612-000 for the 230V~ turbine (or equivalent)
5. Replace the fuse covers by pushing down and turning clockwise
6. Plug in the turbine



Classification

Electric Shock Protection	Class I
Applied Parts	None
Ingress Protection	IP24
Mode of Operation	Continuous

Specifications

Mechanical							
Water capacity Liters (US Gallons)	WHP-10	WHE-15	WHE-22	WHE-27	WHE-45	WHH-60	WHH-75
	54.1 (14.3)	78.7 (20.8)	119.6 (31.6)	140.4 (37.1)	190.0 (50.2)	312.7 (82.6)	367.6 (97.1)
	WHH-90	WHH-105	WHL -75	WHL -90	WHL -105	WHS-85	WHL-90
	425.5 (112.4)	465.4 (123.2)	344.9 (91.1)	398.6 (105.3)	445.9 (117.8)	379 (100.1)	344.9 (110.8)
	WHS-110	WHSB-100					
	518.2 (136.9)	515.6 (136.2)					
Water flow rate	0-56.8 L/min (0-15 US gallons/min)						
Electrical							
Input voltage	115/230 V~ 230 V~ models are for export only						
Line Frequency	50/60 Hz						
Rated Current	6.9/3.5 A						
Electromagnetic Compatibility	All Whirlpool models comply with the latest international electromagnetic compatibility standard (IEC 60601-1-2), as shown below:						
Description	Standard	Specifications					
Radiated Emissions	CISPR 11	30 MHz – 1 GHz, Class A					
Conducted Emissions, AC Mains	CISPR 11	150 kHz – 30 MHz, Class A					
Harmonic Emissions	IEC 61000-3-2	10 min, Class D (no limits for < 75W)					
Flicker	IEC 61000-3-3	120 min (no limits for < 75W)					
Electro-Static Discharge (ESD)	IEC 61000-4-2	Contact: ± 2kV, ± 4kV, ± 8kV; Air: ± 2kV, ± 4kV, ± 8kV ± 15kV					
Radiated RF EM fields	IEC 61000-4-3	3 V/m, 80% AM at 1 kHz 80MHz – 2.7GHz					
Electrical Fast Transient (EFT)	IEC 61000-4-4	Power Supply Lines, ± 2kV 100 kHz PRF					
Surge	IEC 61000-4-5	Line to line ± 0.5kV, ± 1kV					
RF Conducted Immunity	IEC 61000-4-6	Power Supply Lines: 3 Vrms, 0.15 - 80MHz; ISM Bands Input/Output Lines: 3 Vrms, 0.15 - 80 MHz; 6 Vrms, ISM bands, 80% AM at 1 kHz					
Magnetic Field	IEC 61000-4-8	30 A _{rms} /m, 50Hz or 60Hz					
Short Interruption	IEC 61000-4-11	0 % U _T : 250/300 cycles, 0°, 90°, 270°					
Environmental Conditions							
Operational	10 - 33°C (50 - 90°F)						
Transportation and Storage	0 - 60°C (32 - 140°F)						
Relative humidity	5 - 95%, non-condensing						



Atmospheric Pressure	70 – 106 kPa
Thermometer	
Range	Dual scale: 5-60°C and 40-140°F
Accuracy	± 1.1°C (2°F)