

# 50/60 Hz MicroSilk® Spa Kit Installation Instructions

## The 50 Hz MicroSilk® spa kit contains the following:

1. (Qty: 2) Suction cover, wall fitting, 9.5mm (3/8") barb, elbow, gasket + reducer bushing
2. (Qty: 2) Tankless Fitting
3. (Qty: 1) Tee + Ball Valves
4. (Qty: 1) Suction manifold
5. (Qty: 2) Jet body, nut and 19mm (3/4") barb
6. (Qty: 2) AIF (Air inlet Fitting) x 9.5mm (3/8") barb
7. (Qty: 1) Pump (not shown)

## Instructions:

- The jet must not point directly at the suction.
- The suction should be lower than the pump intake to permit draining of the suction line.
- The jet is to be mounted lower than the discharge barb on the tank.



Item 1

Item 2

Item 3

Item 4

Item 5

Item 6

1. Apply Teflon tape to the threads of the fitting in the Tank Tee.
2. Apply Teflon tape to the threads on the suction manifold for pump.
3. Identify a location for the jets at 330mm (13") below the waterline and drill a 51mm (2") hole, then mount the jets. Point the sockets toward the pump.
4. Glue the 19mm barb into the socket on each jet body. Use an ABS to PVC glue. Note : jet body = ABS, and 19mm barb = PVC.
5. Identify a location for the suctions at 510mm (20") below the waterline and drill 60mm (2-3/8") holes. Apply silicone sealant to the threads of the wall fitting and a small bead on the threads on the inside of the elbow. Thread the wall fitting into the elbow. Orient the elbow so that the socket points towards the pump. Glue the 51mm x 25.4mm (2" x 1") reducer bushing into the 2" socket on the elbow. Glue the 9.5mm (3/8") barb into the small socket on the elbow and orient the barb so that it points upward.
6. Attach one end of 9.5mm (3/8") tubing to the barb on the suction elbow and secure with a clamp. Run the second end above the highest water level, create a Hartford Loop and secure in place.
7. Connect the suctions with 25.4mm (1") piping into a 25.4mm (1") tee.
8. Install the suction cover on the wall fitting. Secure in place with the two screws provided.
9. The pump is equipped with a 10ft cord. The pump location must include room for the suction manifold and the tanks. The pump must be mounted so that the base of the 9.5mm (3/8") tee on the suction manifold is between 15.5" and 17" below the water line.
10. Thread the suction manifold into the 25.4mm (1") threaded port in the front side of the pump.
11. Thread the tee into the top 25.4mm (1") discharge port of the pump. Connect the tankless fittings to the ball valve and the ball valves to the Tee with 1" spa flex. Orient the 19mm (3/4") barb on the tankless fitting towards the jet body.
12. Connect the jet body to the tankless fitting with 19mm (3/4") ID tubing and secure with clamps.
13. Connect the end of the suction manifold to the 25.4mm (1") tee with 25.4mm (1") pipe.
14. AIF must be installed as high as possible above the waterline where it can never be blocked and weeping of water will be directed back into the spa. Drill a 14mm (9/16") hole and install the AIF with the gasket on the inside of the spa. Connect the AIF to the 9.5mm (3/8") barb on the suction manifold with 9.5mm (3/8") ID tubing. Secure with clamps.
15. Adjust the handle on the 25.4mm (1") ball valve on the suction manifold to the reference line. Small adjustments from this position may be required to optimize cloud.

# 50/60 Hz MicroSilk Spa Kit Installation Instructions (cont.)

