

INFUSION™

Microbubble Therapy from NuWhirl

CONVENTIONAL TUB SYSTEM INSTALLATION



CONTENTS:

Bill of Materials/Installation sketch.....	2
Installation Guidelines.....	3-4



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Conventional Tub Installation Sketch

BILL OF MATERIALS

ITEM	DESCRIPTION	PART NUMBER
1	PUMP	MB15000XXX
2	PRIME PORT	MBPPF
3	DRAIN PORT TEE ASSEMBLY	MBDPA
4	PRESSURE TANK ASSEMBLY	MBPTA
4A	UNION	700302
4B	90° ELL 1/2" SKT (2) USED W/MBPTA	406005
5	AIR INJECTOR ASSEMBLY	MBAIAW
6	MICRO BUBBLE NOZZLE	MBNZA
7	WALL BODY	MBWB
7A	WALL FITTING	MBWF
7B	TRIM RING	MBTF-XX
8	PUMP UNION ASSEMBLY SUCTION	MBPUA-104
9	PUMP UNION ASSEMBLY DISCHARGE	MBPUA-105
10	1/8" I.D. TUBING (100 FT, ROLLS)	5560125
11	1/4" I.D. TUBING (100 FT, ROLLS)	5560250

NOTES:

PUMP DRAINAGE

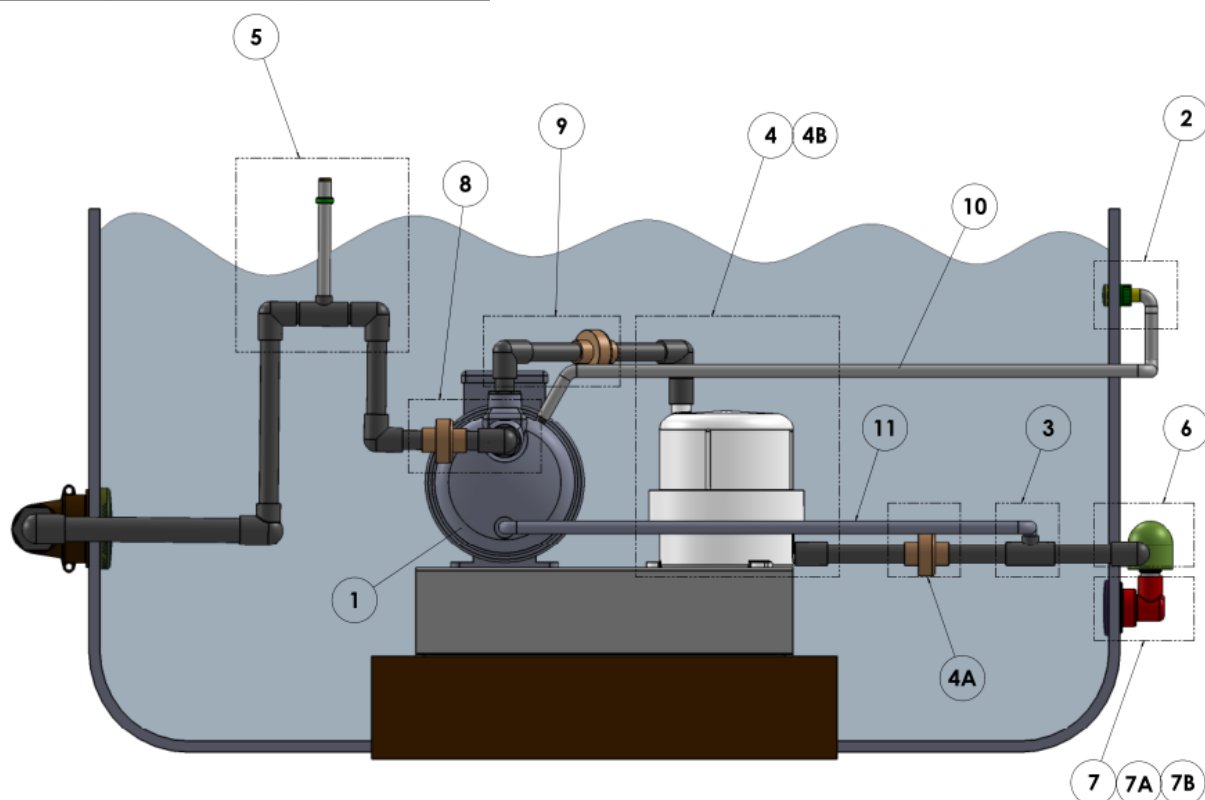
- Pump must be mounted so that the base is at a higher level than the suction and discharge fitting.
- It is necessary that the suction and discharge lines be at a slight draft for proper draining.

PRIME PORT INSTALLATION

- The prime port must be installed at a minimum level of 2 inches below the water level of the tub. If it is lower than this distance, the pump will have priming problems.
- Make sure the barb connection is pointing downward.

MICRO BUBBLE NOZZLE-WALL FITTING PLACE-MENT

- The installation of the micro bubble nozzle (6), must be in the discharge line 12 inches from the wall fitting (7).



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Installation Guidelines

MB1500XCB



PUMP PLACEMENT (MB1500XCB)

- When mounting the pump, the height must be at a level so the drain port is a minimum of one inch above the top of the suction fitting for proper drainage

MBPPF-XX



PRIME PORT INSTALLATION (MBPPF)

- The **MBPPF (2)** must be installed at a minimum level of 2 inches below the water level of the tub. If it is lower than this distance, the pump will have priming problems.
- The pump prime port to the prime port fitting needs to be as short as possible with no tube sagging or the pump will not prime. (The connection to the prime port fitting is to insure that all air is vented from the pump or it will not pump water)

MBDPA



DRAIN PORT ASSEMBLY (MBDPA)

- The **MBDPA (3)** is to be installed in the discharge plumbing between the nozzle and the MBPTA (4), it is supplied with a 1/4 barb fitting for connection to the drain port with 1/4 inch flex tubing. (two hose clamps to secure the tubing are provided, part# 700250)

MBPTA



PRESSURE TANK ASSEMBLY (MBPTA)

- The **MBPTA(4)** is supplied fully assembled. Two 1/2 inch elbows are supplied unconnected to the tank. The tank has been assembled using a torque of 95 ft. lbs to secure lid to body. Once the position of the tank is determined, the elbows are to be installed on the tank using **WELD-ON 794** ABS to PVC solvent welding cement.

[Do not open the pressure tank if a problem occurs, return the tank intact]

IMPORTANT -This is a pressure tank operating at 50 PSI and it's important to practice proper solvent welding procedure.

MBAIAW



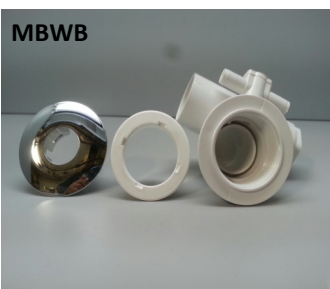
AIR INJECTOR ASSEMBLY (MBAIAW)

- The **MBAIAW(5)** connects to the Pump union assembly and has a 3/4 inch elbow to connect the suction pipe. The top of the injector line must be at water level in the tub. The length of the pipe to the MBAIAW can be adjusted in order to meet the water level requirement.



MB NOZZLE ASSEMBLY (MBNZA)

- The **MBNZA(6)** is to be located in the discharge plumbing a minimum of 12 inches from the wall fitting connection. Included with the nozzle are two plumbing connections- 1/2 inch female NPT X SKT coupler and a 1/2 inch elbow. The elbow must be connected to the nozzle in a down position. This is to insure proper drainage.



WALL BODY (MBWB)

- Two 7 and 7A are provided for the tub installation and are to be installed equal distance from each other. A 1 inch plug, part number 449010 is provided for the ending wall fitting.

Note: MBTF-XX (7B) is sold separately because they come in different color finishes, and will need to be specified by customer at the time of purchase.



PUMP UNION ASSEMBLY-DISCHARGE (MBPUA-105)

- The pump discharge piping is 1/2 inch and includes a union assembly.



PUMP UNION ASSEMBLY-SUCTION (MBPUA-104)

- The pump suction piping is 3/4 inches up to the air injector assembly. The air injector, part number MBAIAW is connected to the pump union assembly with a length of 3/4" PVC pipe with a length to allow the air injector to reach water level in tub.

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