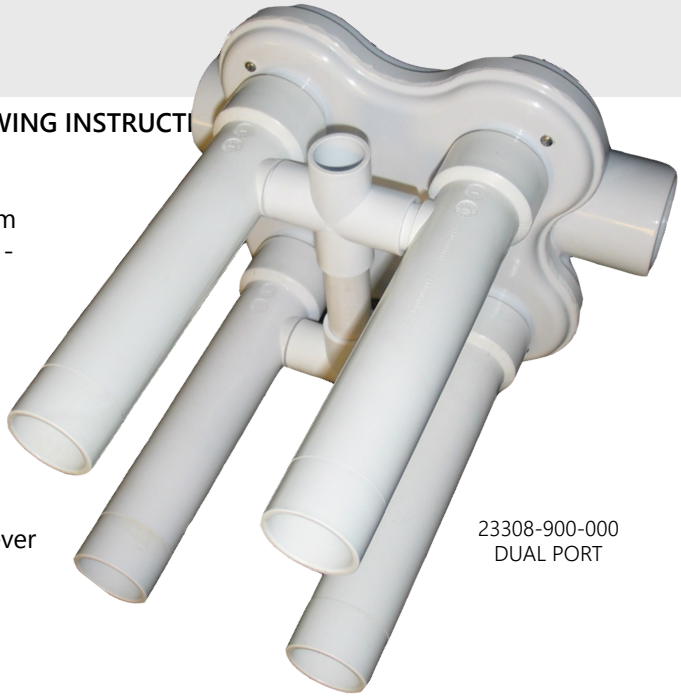
JET ARRAY: CLUSTER

DUAL PORT 23308-900-000
SINGLE PORT 23308-910-000



23308-900-000
DUAL PORT

TO CORRECTLY INSTALL THE JET ARRAY CLUSTER UNIT, READ THE FOLLOWING INSTRUCTI AND REFER TO THE IMAGE SHOWN TO THE RIGHT.

The Jet Array unit is installed at the same distance from top of spa bond beam as you would for a standard therapy jet (typically 11" - 15" from top of beam - units may be staggered slightly around the spa). Install the JP4 unit with the air inlet fitting at the top and the water inlet/outlet at each side (dual port) or at bottom (single port). Air is ¾" socket. We recommend using a ¾" to 1 ½" or 2" adapter for air (adapter included). The water is 2" socket. Either water inlet/outlet can be used for water into or out of the unit.

If you are installing other standard jets, you can install the Jet Array on the same water return loop, as long as you ensure enough water is coming into the unit (70+ GPM). You can install the Jet Array in series, but never more than two units. If more than 2 units are installed, use another direct pipe feed from your water return loop and upgrade the return loop and/or pump as required for sufficient flow.

As you are installing the unit, make sure you do not allow dirt inside the plumbing lines and the unit. This may plug the venturi fittings when you are flushing them out at plaster prep. Keep the air line clean for the same reason. The air line must be installed with a Hartford Loop, either inside the bond beam or externally to the spa. This is always done to avoid water backing up into the air line. The Jet Array unit will need to have PVC caps installed to allow the unit to be pressurized along with the rest of the plumbing and equipment (caps to be cut off and lines flushed out at plaster prep ready for final wall fitting). The steel reinforcing bars are installed with one bar installed vertically through the center line of the unit, so position the unit accordingly. Use this bar to support the unit, keeping it away from the soil and other rebar in the area. Use standard tie wire to wrap around the air line tee at the top of the unit and make sure the ends of the wire are bent back away from where the interior finish will be. Make sure that you have sufficient gunite/shotcrete material behind the unit to avoid leaks through the spa structure. Be sure to have the gunite/shotcrete installer "scoop out" around each pipe so that there is room for the installation of the final fitting. After the gunite/shotcrete has been installed, and before you apply the interior finish, apply thorough-seal around the fitting, just as you would around a standard jet. Then brown in with hydraulic cement to bring the surface out to the appropriate level to match up with the final fitting and ready for the interior finish.

The nozzles inside the four jets may be removed to clean debris or add a reducer (23302-000-040) if necessary. The nozzle inside each jet is a 4" long Twist-Lock nozzle with a 7/16" orifice (23308-100-020). Each individual jet uses 17 to 20 GPM so the complete Jet Pack uses 70 to 80 GPM. To reduce the GPM requirement, use the 3/8" orifice reducer (23302-000-040). By using 4 reducers the GPM requirement lowers to 55 to 65 GPM. Install in the orifice of the nozzle. If it won't fit, run a blade around the edge of the orifice (as shown in Figure 1) to widen the opening until the reducer will fit. To extend the nozzle, purchase the 12" Twist-Lock nozzle with 7/16" orifice (23308-100-050, sold separately). The 3/8"reducer may be used with this nozzle as well.

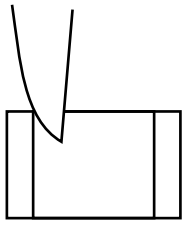


Figure 1

The 4 jets can be cut back to be even with the plaster face of the spa, up to 6" from the end. The nozzle may need to be cut as well. The end of the nozzle should be between 1" and 3" from the plaster face of the spa. If the jets are not cut back far enough for the 4" nozzle to be in the correct position, use the 12" nozzle (23308-100-050, sold separately) and cut back to fit.

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