



### **Pre-installation and Set-up**

☐ PVC primer/cleaner

While unpacking the box, the contents should be verified with the inserted parts list (packing slip). The components must be unpacked with care while unwrapping the protective shipping material. The components should be laid out on a clean surface for verification and inspection. In order to assemble the kit, please provide the following:

□ PVC cement
☐ Tape measure
☐ Diagonal cutters/linesman's pliers
1.25" Schedule 40 PVC pipe for connection of reactor chamber pipe stands into the riser
Aerator Stand Assembly
Step 1
Set 3" PVC weighted base stand on a smooth, hard surface for assembly.
Step 2
☐ Note positions of the black alignment marks on both parts.
Step 3
Apply primer to the weighted base 1.25" PVC female slip socket and the bottom of the 1.25" PVC aerator stand.
Step 4
Apply PVC cement in the same order as Step 3.
Step 5
Insert 1.25" PVC aerator stand into weighted base and turn at least a quarter inch until the black markers on the parts are in alignment.
Step 6
Repeat Steps 1 through 5 with 1.25" piping.
Step 7
Secure electrical cable to the stand using a wire tie.
Step 8
Repeat Steps 1 through 7 for the siphon/sludge pump stand and the clear water pump stand.

#### Installer Alert

To ensure proper bond, always twist PVC piping at least a quarter turn after mating pipe to fitting.

#### Installer Alert

After assembly, trim wire tie ends with cutters/pliers as needed.

Step 12

Step 13

Installation into Reactor Chamb	per	
<ul> <li>□ PVC primer/cleaner</li> <li>□ PVC cement</li> <li>□ Tape measure</li> <li>□ Diagonal cutters/linesman's pliers</li> <li>□ Drill</li> </ul>	<ul> <li>Stainless fasteners to mount th</li> <li>Nutdrivers or screwdrivers</li> <li>2" hole saw</li> <li>Permanent marker (Sharpie)</li> <li>PVC pipe cutters</li> </ul>	ne stand clip into riser
Step 1		
Align each stand clip mount in the riser medical clip and on the riser. The pipe stand clips	_	n the 1.25" pipe stand
Step 2	į	
Fasten all clips to the riser.		Installer Alert  Aerator should
Step 3  Lower stands into the reactor chamber of Make a mark on each 1.25" pipe just below	_	always be in the middle of the pumps within the
Step 4		reactor chamber.
Remove pump stands and cut pipe 7" belo	ow the mark.	
Step 5		
Insert 1.25" PVC tee into the stand and m	ark both the fitting and the pipe in the	e correct location.
Step 6		
Apply primer to the 1.25" PVC tee female	slip socket the top of the 1.25" PVC st	and.
Step 7		
Apply PVC cement in the same order as S	tep 6.	
Step 8		
Insert PVC tee into PVC stand and turn in alignment.	ı at least a quarter inch until the ma	rks (see Step 5) are
Step 9		
Repeat steps 5 through 8 for each stand. and the clear water pump. 1.25" unions ar		e siphon/sludge pump
Step 10		
Cut an 8" section of 1.25" Schedule 40 PV in the top of the PVC tee.	<sup>/</sup> C pipe and repeat steps 5 through 8 t	o make a connection
Step 11		
Install 1 25" DVC can on top of each stand	thy rangating stans 6 through 8	

# $\hfill \Box$ Cut the pipe off the aerator stand 3" from the top of the aerator riser clip.

☐ Lower the stands into the tank and clip the stands into place. Connect the siphon/sludge pump and the clear water pump.

<ul><li>Step 14</li><li>☐ Install the barbed fitting on the top of the aerator stand by repeating</li></ul>	ng steps 6 through 8.
Step 15  ☐ Floats can be installed on either pump stand. The timer enable (be 28" from tank bottom. The high water alarm float must be installed See section 3.4 of the PuraSys SBR Reference Manual for emergence	per the design plan.
Wiring and Air Hose Connections	
<ul> <li>□ Flat-head screwdriver</li> <li>□ Wire zip ties</li> <li>□ Wire stripper</li> <li>□ Wire nuts or heat shrink connectors</li> <li>□ Electrical coating or liquid electrical tape</li> <li>□ Heat gun</li> <li>□ 2" hole saw</li> <li>□ Slip joint pliers</li> </ul>	Installer Note The air tube must exit to the atmosphere in order to obtain fresh oxygen to inject into the aerator.
<ul> <li>Step 1</li> <li>□ If the ambient air temperature is below 75°F, heat the end of the vir</li> <li>Step 2</li> <li>□ Place the 2.5" SS clamp over the end of the tubing.</li> <li>Insert tubing into the barbed fitting in the aerator stand. Tighten the</li> </ul>	
Step 3  Use the hole saw to drill a 2" hole into the side of the riser.  A grommet and piping must be provided.	ie 33 clamp to secure the tubing.
Step 4  Install the vent and tighten the retainer nut on the bottom of the ve	ent with slip joint pliers.
Step 5  Direct the end of the tubing into the vent housing and cut to the provided rest inside of the vent housing without impeding air flow to the	
Step 6  ☐ Direct all cables to the junction box and tie them in place using wire to Run cable ends through the appropriate cord grip in the junction box	
Step 7  Run wires from the junction box to the control panel according to inside the smart control panel. In junction box, splice wires together nuts, or heat shrink connectors. If using standard wire nuts, use electape on the connections to ensure a waterproof connection. After made in the junction box and smart control panel, ensure the electabox to the smart control panel is properly sealed off.	the wiring instructions located er with wire nuts, waterproof wire ectrical coating or liquid electrical all electrical connections are

## **Pretreatment Tank Pre-drilled Siphon Pipe Installation**

	PVC primer/cleaner
	PVC cement
	Tape measure
_	1.25" Schedule 40 PVC coupler
_	1.25" Schedule 40 PVC 90 degree elbow
	1.25" Schedule 40 PVC pre-drilled siphon pipe with pre-glued 90 degree elbow
St	ep 1
	The kit comes with a 90 degree elbow pre-glued to the bottom of the pre-drilled siphon pipe.
	The pre-drilled siphon pipe must be installed at a relative height from the bottom of the
	pretreatment tank as outlined in Table 2 on page 7 of the <i>PuraSys SBR Reference Manual</i> .
St	ep 2
	The top siphon hole must be installed at a height from the inside top of the tank as indicated on
	the design plan. Mark the pre-drilled siphon pipe at the correct height.
	Cut the pre-drilled siphon pipe, leaving enough room to glue on a 1.25" PVC coupler.
St	ep 3
	Apply primer to the end of the 1.25" PVC pre-drilled siphon pipe and 1.25" PVC coupler female
	slip socket.
St	ep 4
	Apply PVC cement in the same order as Step 3.
St	ep 5
	Insert 1.25" PVC pre-drilled siphon pipe into 1.25" PVC coupler female slip socket and turn at least a
	quarter inch.
St	ep 6
	Cut a length of 1.25" PVC Schedule 40 pipe (not included in the kit) at a height sufficient to clear the
	baffle wall.
St	ep 7
	Repeat Steps 4 and 5 for gluing the other end of the 1.25" PVC coupler to the 1.25" PVC pipe.
St	ep 8
	Repeat steps 4 and 5 for gluing the 1.25" PVC 90 degree elbow to the 1.25" PVC pipe.
СТ	
<b>Σ</b> τ	ep 9
	Repeat Steps 4 and 5 for gluing the other end of the 1.25" PVC 90 degree elbow to the 1.25" siphon/sludge pump line.

If you require further information, please contact customer service at:



P.O. Box 77457 • Greensboro, NC 27417 • T: 336.547.9338 • F: 336.547.8559 info@anuainternational.com



Only modules bearing the NSF® logo and designated PS1-XX are certified to NSF/ANSI Standards 40 and 245