



for Concrete Fiberglass and Vinyl Pools





Installation Guide

U.S. Patent No.: 6,810,537 Model: Xport Series 004-XXX-XXXX-YY 2½" / 004-XXX-XXXX-YY 75mm Listed by IAPMO Research & Testing, Inc. File No. SP-4370

IMPORTANT SAFETY INSTRUCTIONS READ AND FOLLOW ALL INSTRUCTIONS SAVE THESE INSTRUCTIONS

© 2005 Pentair Water Pool and Spa Incorporated. All rights reserved.

1620 Hawkins Ave., Sanford, NC 27330 • (919) 566-8000 10951 West Los Angeles Ave., Moorpark, CA 93021 • (805) 523-2400

Information in this document is subject to change without notice.

Pentair Water Pool and Spa is a registered trademark of Pentair Water Pool and Spa Incorporated. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Pentair Water Pool and Spa disclaims proprietary interest in marks and names of others.

004-027-8763-00 Rev C - April 2005

Contents

i

IMPORTANT SAFETY PRECAUTIONS	ii
Xport Drain System Installation Steps Summary	iv
Technical Support	
General Overview	
Xport Drain System Design	1
Xport Drain System for Concrete (Required installation method for the state of Florida)	2
Xport Drain System for Fiberglass (Required installation method for the state of Florida)	2
Xport Drain System for Vinyl (Required installation method for the state of Florida)	3
Hydrostatic Fitting Requirements	5
Winterization Procedure	5
Xport Drain System Installation Methods	5
Steel and Concrete Installation Methods	5
Fiberglass Installation Options	5
Vinyl Installation Options	5
Xport Pressure Test	6
Installation and Replacement Parts List (Concrete Pools)	7
Steel and Concrete Xport Drain Installation Methods	9
Vacuum Breaker in Steel and Concrete (Method 1)	9
Vacuum Breaker in Steel and Concrete (Method 2)	. 10
Vacuum Breaker in Steel and Concrete (Method 3)	. 11
Vacuum Breaker in Steel and Concrete (Method 4)	. 11
Steel and Concrete Installation	. 12
Plumbing Requirements	. 12
Pressure Test	. 13
Sump Installation	. 13
Concrete Ring Installation	. 14
Funnel Installation	. 14
Xport Drain System Replacement Parts List (Concrete)	. 15
Installation and Replacement Parts List (Fiberglass Pools)	. 17
Fiberglass Xport Drain Installation Methods	. 19
Vacuum Breaker Installation Methods for Fiberglass	. 19
Fiberglass Installation	. 20
Sump Installation to Fiberglass Pool Shell	. 20
Pressure Test	. 20
Funnel Installation	. 21
Xport Drain System Replacement Parts List (Fiberglass)	. 22
Installation and Replacement Parts List (Vinyl Pools)	. 25
Vinyl Drain Installation Methods	. 27
Vacuum Breaker Installation Methods for Vinyl	. 27
Vinyl Installation	. 28
Plumbing Requirements	. 28
Pressure Test	. 28
Vinyl Installation to Pool Base	. 28
Liner Installation	
Funnel Installation	. 29
Xport Drain System Replacement Parts List (Vinyl)	. 30

IMPORTANT SAFETY PRECAUTIONS

Important Notice:

Attention Installer: This manual contains important information about the installation, operation and safe use of this product. This information should be given to the owner and/or operator of this equipment.

WARNING - RISK OF ENTRAPMENT IF INSTRUCTIONS ARE NOT FOLLOWED. Before installing this product, read and follow all warning notices and instructions which are included. Failure to follow safety warnings and instructions can result in severe injury, death, or property damage. Call (800) 831-7133 for additional free copies of these instructions.

A WARNING - POOL PUMP SUCTION IS HAZARDOUS. IMPROPER INSTALLATION OR USE OF THIS PRODUCT MAY PRESENT A RISK OF HAIR OR BODY ENTRAPMENT AND DROWNING. Install this suction outlet in accordance with the instructions provided. Use only with the components and mounting hardware provided. FAILURE TO FOLLOW THESE INSTRUCTIONS AND/OR USE WITH COMPONENTS NOT PROVIDED BY PENTAIR WATER POOL AND SPA AND INTENDED TO BE USED WITH THIS PRODUCT MAY RESULT IN IMPROPER POSITIONING OR FUNCTIONING OF DRAIN COVER AND MAY CAUSE SEVERE PERSONAL INJURY OR DEATH.

WARNING - DO NOT EXCEED MAXIMUM FLOW RATE. Do not use these suction outlets with a pumping system rated for more than 90 GPM. USE OF THESE SUCTION OUTLETS IN POOL OR SPA SYSTEMS WITH FLOW RATES GREATER THAN 90 GPM CAN RESULT IN HAIR OR BODY ENTRAPMENT, WHICH CAN CAUSE SEVERE PERSONAL INJURY OR DEATH. If in doubt about the maximum flow rating of your system, consult a qualified pool or spa professional or call Pentair Water Pool and Spa at (800) 831-7133.

WARNING - INSTALL AT LEAST TWO SUCTION OUTLETS. The suction outlet connected to a swimming pool or spa pump can pull a high vacuum if it is blocked. Therefore, if only one suction outlet is used, anyone blocking the suction outlet with their body can be trapped and held against the suction outlet. Disembowelment or drowning can result. To prevent this entrapment, install at least the suction outlets provided with Xport for each pump in the plumbing system. Separate these suction outlets as described and shown in the installation instructions in this manual. Use of these multiple suction outlets is required for proper Xport operation and to reduce risk of entrapment.

IMPORTANT SAFETY PRECAUTIONS (continued)

A WARNING - USE ONLY APPROVED COVERS TO PREVENT HAIR ENTRAPMENT.

The covers used on suction outlets should be approved to the currently published version of ANSI/ ASME A1121.19.8 Standard covering Suction Fittings for use in Swimming Pools, Wading Pools, Spas and Hot Tubs. These covers should be inspected regularly and replaced if cracked, broken or older than the design lifetime indicated on them by the manufacturer. The design flow rate of the pool and spa should be less than or equal to the maximum flow rate indicated on the cover by the manufacturer. THE USE OF UNAPPROVED COVERS OR ALLOWING USE OF THE POOL OR SPA WHEN COVERS ARE CRACKED OR BROKEN CAN RESULT IN HAIR ENTANGLEMENT WHICH CAN RESULT IN DEATH.

For additional information on proper drain installation refer to National Spa and Pool Institute Standards ANSI/NSPI 1 through 7, the US Consumer Product Safety Commission Guidelines for Entrapment Hazard Pub. No. 363-009801 and ANSI/ASME A112.19.8 Standard.

Xport Drain System Installation Steps Summary

The recommended installation steps for the Xport Drain System is as follows:



5

Review the Xport Drain System Design (page 1): Review this important information before installing the Xport Drain System.

2 Review Hydrostatic Fitting Requirements (page 5): Before installing the Xport sump, review the hydrostatic fitting requirements. Also review the winterization information.

Review the Xport Drain System Installation Methods (page 5): Choose the type of installation method: Steel and concrete, fiberglass, or vinyl.

4 **Pressure test the Xport Drain System (page 6):** Review the pressure test instructions. This test should be performed before installing the Xport Drain System.

Install the Xport Drain System: Install the Xport sump in steel and concrete (page 9), fiberglass (page 19), or vinyl (page 27).

Technical Support

Contact Technical Support at:

Sanford, North Carolina (8 A.M. to 5 P.M.)

Phone: (800) 831-7133

Fax: (919) 566-8920

Moorpark, California (8 A.M. to 5 P.M.)

Phone: (800) 831-7133 (Ext. 6502)

Fax: (805) 530-0194

Web site

visit www.pentairpool.com

Xport Drain System Design

Before installing the Xport Drain System please read the following important information

SECOND SUCTION OUTLET: The Xport Drain System requires the proper installation of all antientrapment features including a second suction outlet with a listed suction outlet fitting and one of the following three vacuum breaker installation methods:

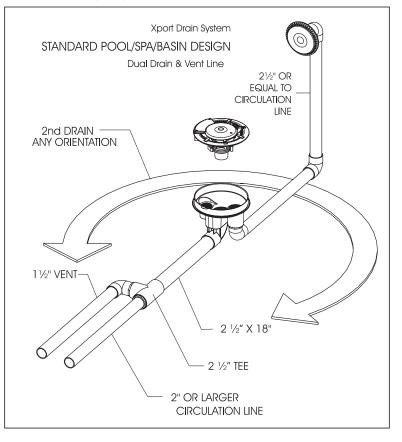
- Vacuum Breaker for Steel and Concrete Refer to one of the four installation methods illustrated on pages 9, 10, and 11.
- Vacuum Breaker for Fiberglass Refer to one of the three installation methods illustrated on page 19.
- Vacuum Breaker for Vinyl Refer to one of the three installation methods illustrated on page 27.

These Xport instructions provide four design methods to choose from. Your local codes may require additional safety measures. Pentair Water Pool and Spa and its representatives cannot recommend or endorse installation methods other than those provided in these Xport instructions.

SUCTION PLUMBING - Install a 2¹/₂" pipe between the Xport suction outlet and the debris collection point, which could be the optional debris canister, a self-priming pump or in-line strainer basket.

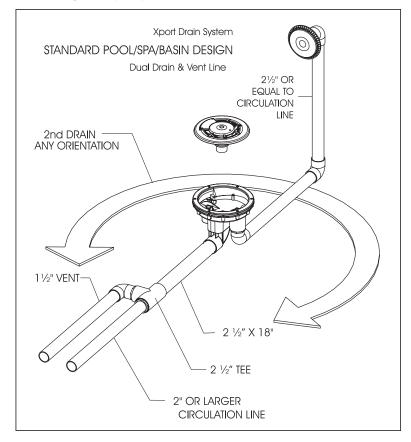
WARNING - **Maximum Pump Size:** Xport is rated for a maximum of 90 GPM. While system flow rate will vary with pump size and the Total Head Loss for a given system, virtually any modern pump is capable of exceeding this limit. Therefore it is the responsibility of the system designer to make sure it is not possible to exceed 90 GPM.

IMPORTANT NOTE: 18" of 2½" pipe is required for connection to the center outlet of the Xport Drain System. The Pentair Water Pool and Spa Xport Drain System kit includes an 18" x 2½" length of pipe and a coupler. It is recommended the 2½" pipe be used throughout the suction side of the system for optimum performance.



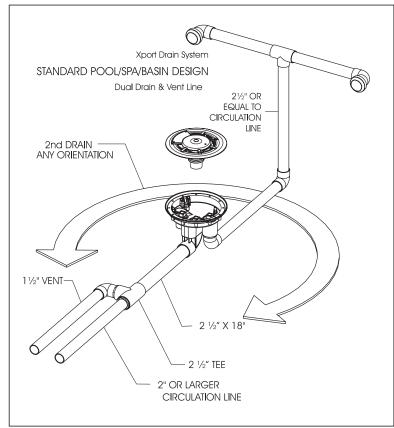
Xport Drain System for Concrete (Required installation method for the state of FLORIDA)

Xport Drain System for Fiberglass (Required installation method for the state of FLORIDA)



2

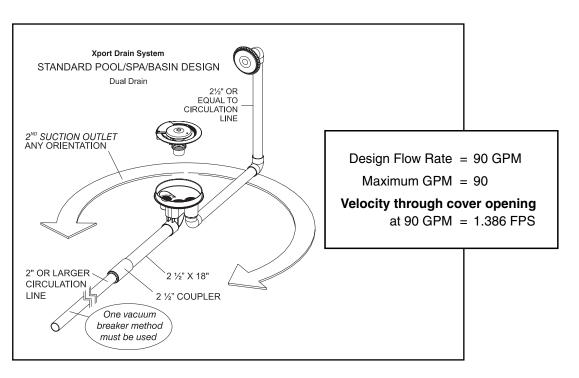




IMPORTANT INSTALLATION INSTRUCTIONS FOR THE STATE OF FLORIDA: The Xport Drain System requires the proper installation of all anti-entrapment features including the **second Suction Outlet** and 1½"**Vent Line** or approved Safety Vacuum Relief System (SVRS).* Install 2½" pipe between Xport sump and the debris collection point which may be the optional debris canister, or a self-priming pump basket.

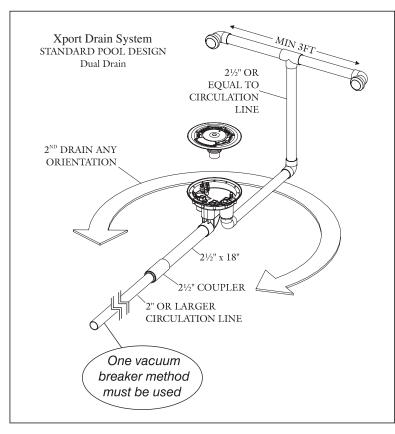
Note: (*) The Xport Drain System instructions provide two design options to choose from; Vent Line or approved SVRS. Follow all regulations requiring specific plumbing solutions and you may use officially approved vacuumbreaker products and vacuum breaker methods.

Note: The Xport Drain System is rated for a maximum of 90 GPM. While system flow rate will vary with pump size and the Total Head Loss for a given system, virtually any modern pump is capable of exceeding this limit, therefore it is the responsibility of the system designer to make sure it is not possible to exceed 90 GPM.



Xport Drain System for Concrete and Fiberglass

Xport Drain System for Vinyl



Note: The Xport Drain System is rated for a maximum of 90 GPM. While system flow rate will vary with pump size and the Total Head Loss for a given system, virtually any modern pump is capable of exceeding this limit, therefore it is the responsibility of the system designer to make sure it is not possible to exceed 90 GPM.

Xport Drain System Installation Guide

Hydrostatic Fitting Requirements

The hydrostatic fitting requirements for concrete, fiberglass, and vinyl are as follows:

• The hydrostatic port inside the Xport Sump is a **2'' female adapter** and a **2'' slip fitting** outside the Xport Sump. For non-hydrostatic installations, install the 2" plug that is provided. Note: For concrete installation, the sump elevation should be 1" below the interior finish.

Winterization Procedure

Optional positioning of second suction outlet

Outlet may be placed low on the pool wall below the frost depth to avoid having to winterize or high on the pool wall for easy access to the blow line.

To winterize the Xport Drain System:

- 1. Blow out and air lock the vacuum breaker line and second suction outlet.
- 2. Blow out and air lock the main $2\frac{1}{2}$ " line to the pump.

Xport Drain System Installation Methods

This manual describes recommended Xport installation methods. Other methods may be available depending on your local codes. Follow all National Standards and local regulations requiring specific plumbing solutions and use approved vacuum-breaker products and vacuum breaker methods. Any of these methods may be used as long as it is NOT possible for a swimmer to be exposed to single-point-suction when drains are fully disassembled.

For additional information on proper drain installation refer to National Spa and Pool Institute Standards ANSI/NSPI 1 through 7, the US Consumer Product Safety Commission Guidelines for Entrapment Hazard Pub. No. 363-009801 and ANSI/ASME A112.19.8 Standard.

Note: Pentair Water Pool and Spa and its representatives can not recommend nor endorse installation methods beyond those provided in this manual.

Steel and Concrete Installation Methods

• Vacuum Breaker in Steel and Concrete (four methods) - see page 9, 10, and 11.

Fiberglass Installation Methods

• Vacuum Breaker for Fiberglass (three methods) - see page 19.

Vinyl Installation Methods

• Vacuum Breaker for Vinyl (three methods) - see page 27.

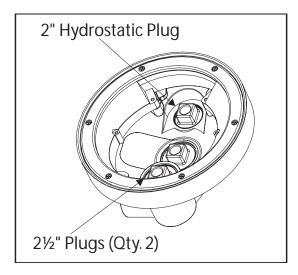
Xport Pressure Test

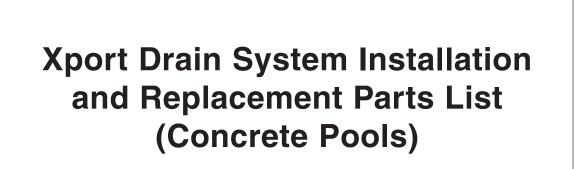
The pressure test should be performed before installing the Xport Drain System. Use the two pressure plugs included with the kit to perform this test.

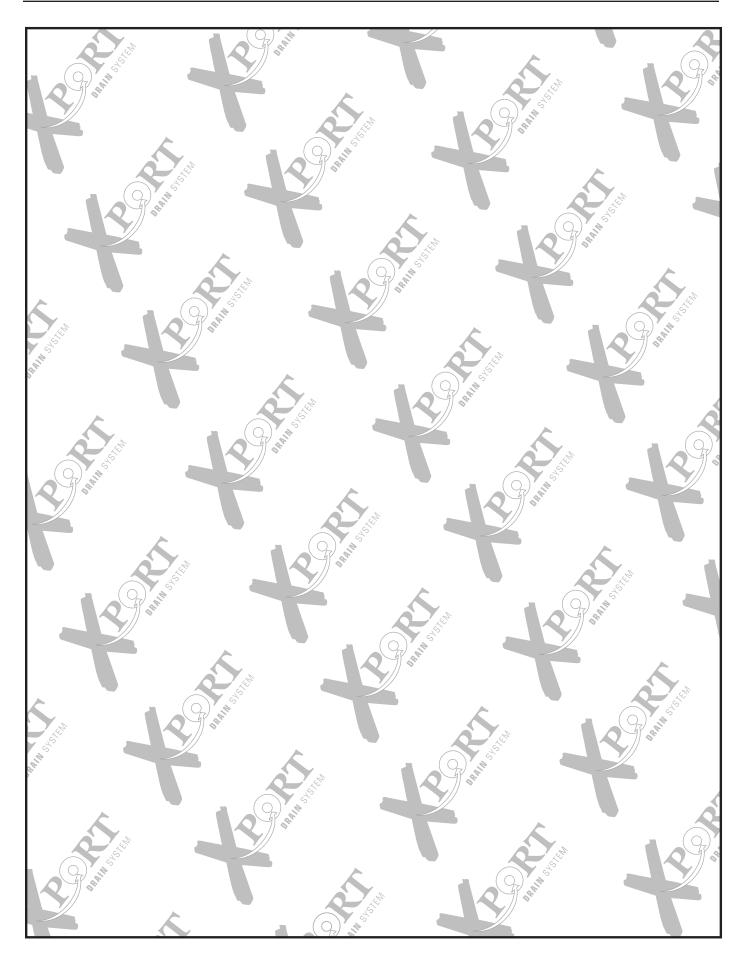
To pressure test the Xport sump:

- 1. Install a plug into both $2\frac{1}{2}$ " ports of the Xport Sump.
- 2. Install a pressure stack to both lines at a location away from the Xport Sump.
- 3. Pressure should remain on the system throughout the construction until the liner is installed and interior cleanup.
- 4. Release the pressure on the system, then remove the plugs from both sump ports.

A WARNING - Release pressure on the system before removing plugs.





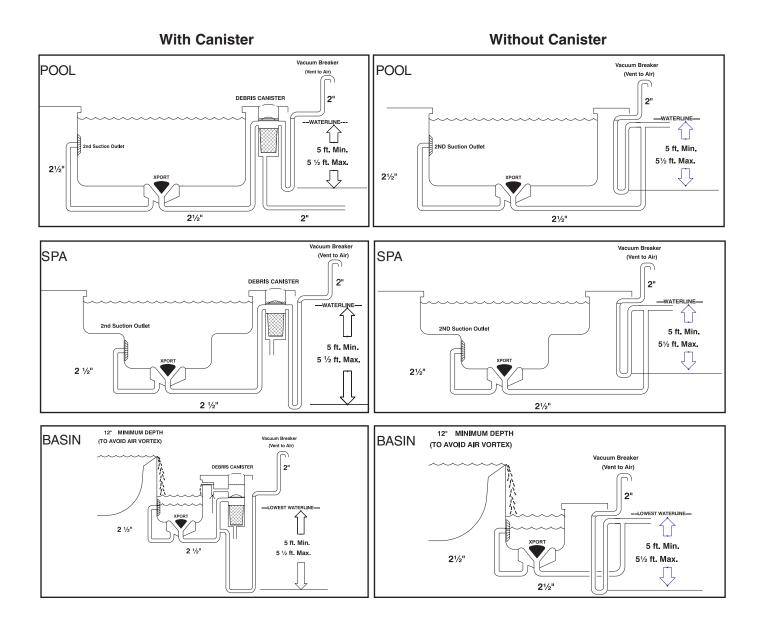


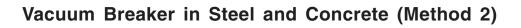
Steel and Concrete Xport Drain Installation Methods

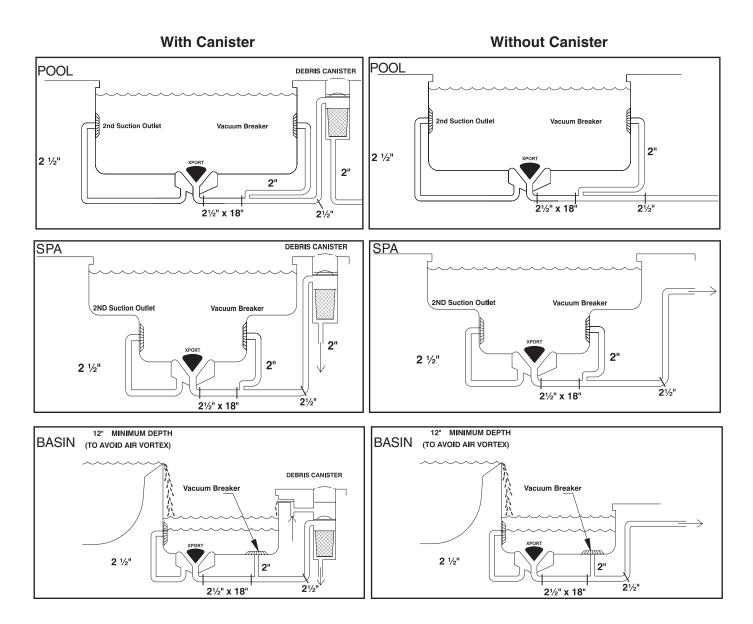
There are four methods that can be used to install the Xport drain system in steel and concrete. The following illustrations show the different methods.

Vacuum Breaker in Steel and Concrete (Method 1)

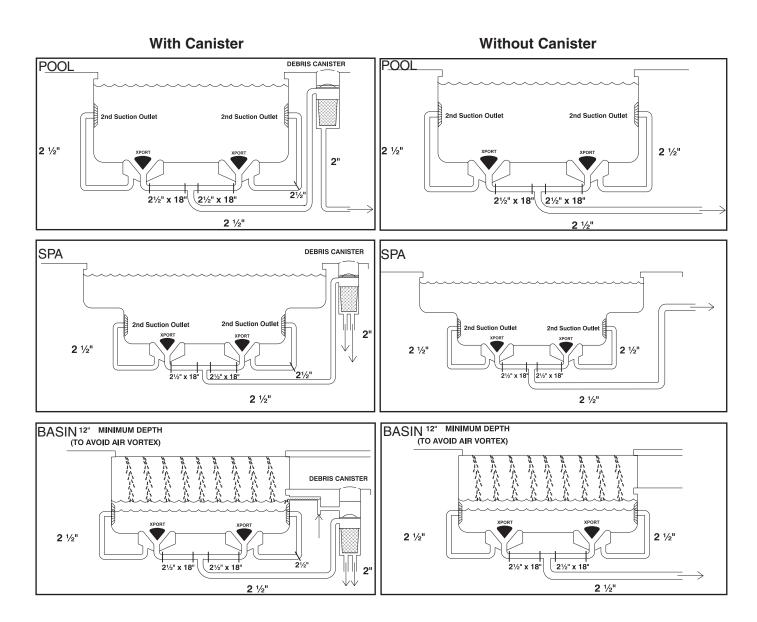
Method one is recommended for best debris removal performance.







Vacuum Breaker in Steel and Concrete (Method 3)

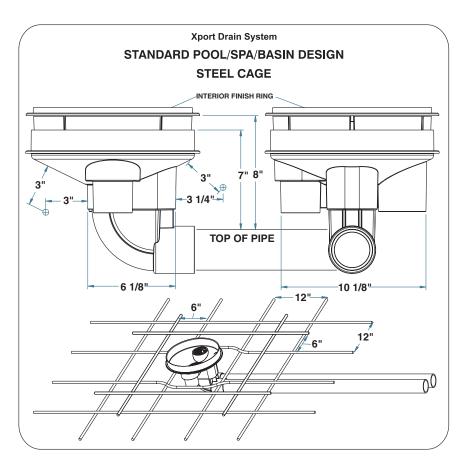


Vacuum Breaker Installation in Steel and Concrete (Method 4)

Suction vacuum release device, mechanical, or electromechanical, venting or non-venting, may be used provided it is tested and listed by a nationally recognized testing laboratory in accordance with ANSI/ ASME A112.19.17 – *Manufactured SVRS for Residential and Commercial Swimming Pool*.

Steel and Concrete Installation

Use the following instructions to install the Xport sump into steel and concrete.

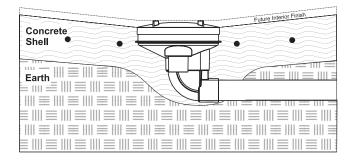


Plumbing Requirements

Note: KEEP REBAR 3" AWAY FROM XPORT SUMP.

The Xport Drain System plumbing requirements are:

- 1. Position the Xport Sump 1" below the finished depth of the pool, spa or basin.
- 2. Position the <u>required</u> second Suction Outlet on a sidewall of the pool, spa or basin. If necessary, the second Suction Outlet may be positioned on the floor a <u>minimum</u> of three (3) feet away from the Xport Sump.

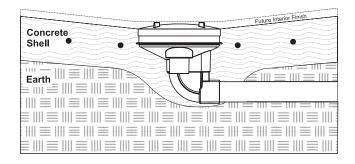


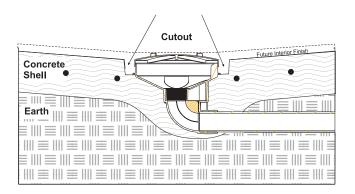
Pressure Test

• Perform the pressure test using the provided pressure plugs. For instructions, see "Xport Pressure Test," on page 6.

Sump Installation

- 1. Clear the dirt to completely expose the sweep elbow. This allows the sump to be fully encased in concrete.
- 2. Pack concrete around and under the sump to ensure a strong seal and strengthen the shell.

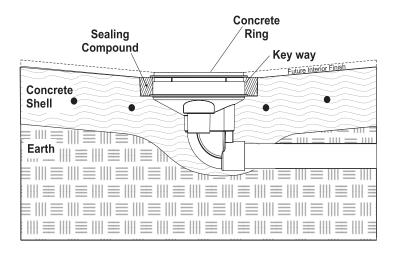




- 3. Angle the shell downward to the sump.
- 4. Make a cutout around the sump.
- 5. Proceed with "Concrete Ring Installation" on page 14.

Concrete Ring Installation

The concrete ring **must** be attached to the Xport Drain sump before finishing the interior surface of the pool, spa, or basin.



To install the concrete ring:

- 1. Align the concrete ring key way with the sump alignment key.
- 2. Align the elevation and the angle of the concrete ring with the finished interior surface of the pool, spa, or basin.
- 3. Use a sealing compound compatible with the interior surface to lock the concrete ring in place. Make sure the seal is water tight.
- Recommended sealing compounds: Topping mix cement, hydraulic cement, and ThoroAcryl[®] 60 by ChemRex[®] or equivalent.
- 4. Continue with the **Funnel installation** instructions below.

Funnel Installation

Note: Assemble the drain before adding water.

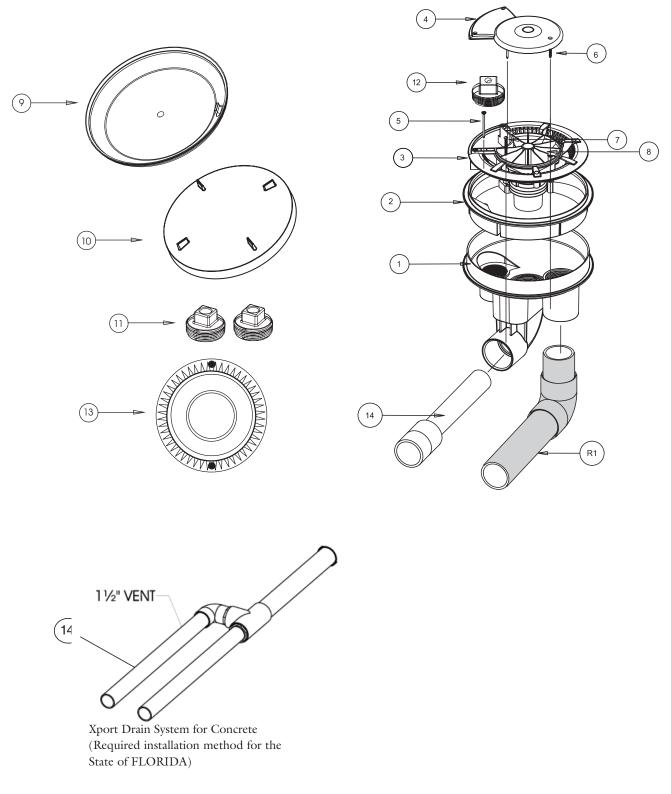
To install the funnel assembly: (For Xport replacement parts identification (i.e. No. 3), refer to illustration on page 16).

- 1. Install the funnel assembly (No. 3) into the concrete ring (No. 2) by pressing the flexible funnel adapter inside the center 2¹/₂" female threaded fitting. Press down and hold the funnel assembly and install the screws.
- 2. Use a T25 screwdriver to install the two large screws (No. 5) in the support (No. 8).
- 3. Use a T25 screwdriver to install the two medium screws (No.6) in the funnel assembly (No. 3). Tighten the screws until the funnel assembly (No. 3) contacts the interior finish of the pool, spa, or basin.
- 4. Place the Xport cover (No. 4) on the funnel assembly (No. 3). Use a Phillips screwdriver to secure the cover in place with the three small screws (No. 7).
- 5. The Xport drain system installation is complete.

Xport Drain System Replacement Parts List (Concrete)

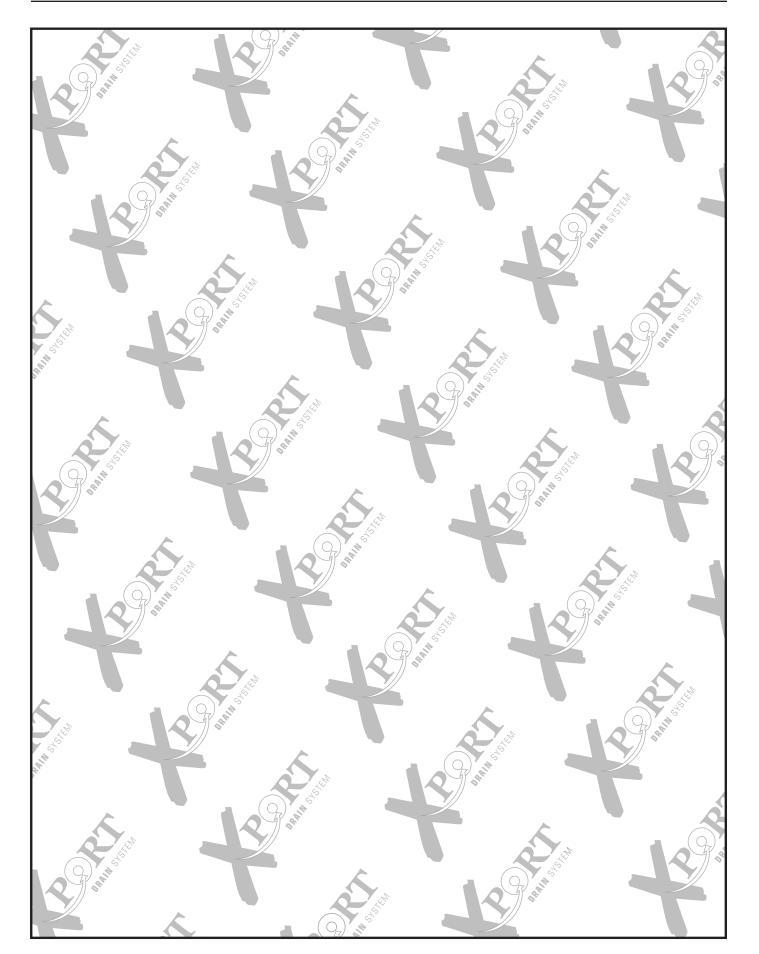
Part Number Description 540120 Xport Kit, Concrete, White 540121 Xport Kit, Concrete, Black 540122 Xport Kit, Concrete, Light Blue 540123 Xport Kit, Concrete, Light Blue 540124 Xport Kit, Concrete, Light Blue 540125 Xport Kit, Concrete, Black 540126 Xport Kit, Concrete, Black 540127 Xport Kit, Concrete, T5 MM, Grey 540128 Xport Kit, Concrete, 75 MM, Grey 540130 Xport Kit, Concrete, 75 MM, Grey 540131 Xport Kit, Concrete, 75 MM, Grey 540130 Xport Kit, Concrete, 75 MM, Black 540131 Xport Kit, Concrete, 75 MM, Grey 540180 Concrete Leveling Ring 640149 Funnel Assembly with Cap, 2½° (3 pieces) PVC - 1 540180 Concrete Leveling Ring S40148 540150 Funnel Assembly, Black S40156 540150 Funnel Assembly, Black S40156 540153 XPort Cover with Screws, Grey 316-SS 540153 Screw: No.10, 78' Phillips Head, (12 pieces) 316-SS 540153 Screw: No.10, 78' Phillips Head, (12 pieces)			Xport Assembly Kit (Concrete)	
540121 Xport Kit, Concrete, Biack 540122 Xport Kit, Concrete, Biack 540123 Xport Kit, Concrete, Light Blue 540124 Xport Kit, Concrete, Light Blue 540125 Xport Kit, Concrete, Biack 540126 Xport Kit, Concrete, Black 540127 Xport Kit, Concrete, Black 540128 Xport Kit, Concrete, 75 MM, Grey 540130 Xport Kit, Concrete, 75 MM, Grey 540131 Xport Kit, Concrete, 75 MM, Black 540130 Xport Kit, Concrete, 75 MM, Black 540131 Xport Kit, Concrete, 75 MM, Light Blue em Part Number Description Material Sump Assembly with Cap, 2½° (3 pieces) PVC - 1 540168 Concrete Leveling Fling Material 540168 Concrete Leveling Fling PVC - 1 540150 Funnel Assembly, Black PVC - 1 540151 Funnel Assembly, Black PVC - 1 540153 XPort Cover with Screws, Grey S40158 540154 XPort Cover with Screws, Grey S40159 540158 XPort Cover with Scre			Description	
540122 Xport Kit, Concrete, Black 540123 Xport Kit, Concrete, Ught Blue 540124 Xport Kit, Concrete, Grey 540125 Xport Kit, Concrete, Black 540126 Xport Kit, Concrete, Black 540127 Xport Kit, Concrete, Ight Blue 540128 Xport Kit, Concrete, 75 MM, Grey 540130 Xport Kit, Concrete, 75 MM, Grey 540131 Xport Kit, Concrete, 75 MM, Black 540130 Xport Kit, Concrete, 75 MM, Black 540131 Xport Kit, Concrete, 75 MM, Grey 540131 Xport Kit, Concrete, 75 MM, Black 540132 Sport Kit, Concrete, 75 MM, Speces) 540131 Xport Kit, Concrete, 75 MM, Grey 540148 Funnel Assembly with Cap, 2½* (3 pieces) 540156 Concrete Leveling Ring 540156 Funnel Assembly, Black 540157 Funnel Assembly, Black 540158 XPort Cover with Screws, Black 540159			-	
540123 Xport Kit, Concrete, Light Blue 540124 Xport Kit, Concrete, Grey 540125 Xport Kit, Concrete, Black 540126 Xport Kit, Concrete, Ight Blue 540127 Xport Kit, Concrete, Ight Blue 540128 Xport Kit, Concrete, 75 MM, Grey 540130 Xport Kit, Concrete, 75 MM, Grey 540131 Xport Kit, Concrete, 75 MM, Grey 540130 Xport Kit, Concrete, 75 MM, Grey 540131 Xport Kit, Concrete, 75 MM, Grey 540130 Xport Kit, Concrete, 75 MM, Grey 540131 Xport Kit, Concrete, 75 MM, Grey 540130 Xport Kit, Concrete, 75 MM, Grey 540140 Experimental Mathematic Concrete, 75 MM, Grey 540141 Sump Assembly with Cap, 2½* (3 pieces) PVC - 1 540150 Sump Assembly, White Support Support Mathematic Cap, 2½* (3 pieces) PVC - 1 540148 Funnel Assembly, Blue Support Cover with Screws, Stape Support Support Cover with Screws, Stape Support Cover with Screws, Stape 540151 Funnel Assembly, Blue Support Cover with Screws, Stape Support Support Cover with Screws, Stape 54				
540124 Xport Kit, Concrete, White 540125 Xport Kit, Concrete, Grey 540127 Xport Kit, Concrete, Iight Blue 540128 Xport Kit, Concrete, 75 MM, White 540129 Xport Kit, Concrete, 75 MM, Grey 540130 Xport Kit, Concrete, 75 MM, Grey 540131 Xport Kit, Concrete, 75 MM, Light Blue em Part Number Description Material em Part Number Sump Assembly without Cap, 2½* (3 pieces) PVC - 1 * Sump Assembly without Cap, 2½* (3 pieces) PVC - 1 * Sump Assembly without Cap, 2½* (3 pieces) PVC - 1 \$40148 Funnel Assembly, Blue			•	
540125 Xport Kit, Concrete, Grey 540126 Xport Kit, Concrete, Black 540127 Xport Kit, Concrete, Jight Blue 540128 Xport Kit, Concrete, 75 MM, Grey 540130 Xport Kit, Concrete, 75 MM, Grey 540131 Xport Kit, Concrete, 75 MM, Black 540130 Xport Kit, Concrete, 75 MM, Light Blue em Part Number Description Material * Sump Assembly withot Cap, 2½" (3 pieces) PVC - 1 * Sump Assembly Withot Cap, 2½" (3 pieces) PVC - 1 * Sump Assembly Withot Cap, 2½" (3 pieces) PVC - 1 * Sump Assembly Withot Cap, 2½" (3 pieces) PVC - 1 * Sump Assembly Withot Cap, 2½" (3 pieces) PVC - 1 * Sump Assembly, Black Sump Assembly, Grey Sump Assembly, Grey 540148 Funnel Assembly, Black Sump Assembly, Grey Sump Assembly, Grey 540150 Funnel Assembly, Grey Sump Assembly, Grey Sump Assembly, Grey 540153 Xport Cover with Screws, Black Sump Assembly, Grey Sump Assembly, Grey 540153 <td< td=""><td></td><td></td><td></td><td></td></td<>				
540126 Xport Kit, Concrete, Black 540127 Xport Kit, Concrete, T5 MM, White 540128 Xport Kit, Concrete, 75 MM, Grey 540130 Xport Kit, Concrete, 75 MM, Black 540131 Xport Kit, Concrete, 75 MM, Light Blue em Part Number Description Material * Sump Assembly with Cap, 2½* (3 pieces) PVC - 1 * Sump Assembly without Cap, 2½* (3 pieces) PVC - 1 \$40168 Concrete Leveling Ring Honei Assembly, White - \$40150 Funnel Assembly, Black - - \$40157 XPort Cover with Screws, Grey - - \$40158 XPort Cover with Screws, Light Blue - - \$40159 XPort Cover with Screws, Black - - \$40159 XPort Cover with Screws, Light Blue - - \$40163 Screw: No.10, 7/8' Phillips Head, (12 pieces) 316-SS * - <			-	
540127 Xport Kit, Concrete, T5 MM, White 540128 Xport Kit, Concrete, 75 MM, White 540130 Xport Kit, Concrete, 75 MM, Grey 540130 Xport Kit, Concrete, 75 MM, Black 540131 Xport Kit, Concrete, 75 MM, Black 540130 Xport Kit, Concrete, 75 MM, Light Blue sm Part Number Description Material * Sump Assembly with Cap, 2½" (3 pieces) PVC - 1 * Sump Assembly without Cap, 2½" (3 pieces) PVC - 1 540168 Concrete Leveling Ring 540168 540149 Funnel Assembly, Black 540150 540150 Funnel Assembly, Blue 540156 540156 XPort Cover with Screws, White 540157 540158 XPort Cover with Screws, Upht Blue 540158 540158 XPort Cover with Screws, Security Head (12 pieces) 316-SS 540163 Screw: No.10, 7/8" Security Head, (12 pieces) 316-SS * Screw: No.10, 7/8" Security Head, (12 pieces) 316-SS N/A Support Cap Xport Plaster (12 pieces) 316-SS *			• • • • •	
540128 Xport Kit, Concrete, 75 MM, White 540129 Xport Kit, Concrete, 75 MM, Black 540130 Xport Kit, Concrete, 75 MM, Black 540131 Xport Kit, Concrete, 75 MM, Light Blue em Part Number Description Material * Sump Assembly with Cap, 2½" (3 pieces) PVC - 1 * Sump Assembly without Cap, 2½" (3 pieces) PVC - 1 540168 Concrete Leveling Ring Port Number Port Number 540148 Funnel Assembly, Grey 540149 Funnel Assembly, Black 540150 Funnel Assembly, Blue S40156 XPort Cover with Screws, Mhite 540156 XPort Cover with Screws, Black 540158 XPort Cover with Screws, Light Blue 540158 XPort Cover with Screws, Light Blue S40153 Screw: No.10, 7/8" Countersink, Security Head (12 pieces) 316-SS * Screw: No.10, 7/8" Countersink, Security Head (12 pieces) 316-SS N/A * Screw: No.10, 7/8" Phillips Head, (12 pieces) 316-SS Screw: No.10, 7/8" Phillips Head, (12 pieces) 316-SS * Screw: No.10, 7/8" Phillips Head, (12 pieces) 316-SS Screw: No.10, 7/8" Phillips Head, (12 pieces) 316-SS<			-	
540129 Xport Kit, Concrete, 75 MM, Grey 540130 Xport Kit, Concrete, 75 MM, Black 540131 Xport Kit, Concrete, 75 MM, Light Blue em Part Number Description Material * Sump Assembly with Cap, 2½" (3 pieces) PVC - 1 * Sump Assembly without Cap, 2½" (3 pieces) PVC - 1 540168 Concrete Leveling Ring Port Number Port Sump Assembly, Withe 540148 Funnel Assembly, Grey Sump Assembly, Black Sump Assembly, Black 540150 Funnel Assembly, Black Sump Assembly, Black Sump Assembly, Black 540156 XPort Cover with Screws, White Sump Assembly, Black Sump Assembly, Black 540157 XPort Cover with Screws, Light Blue Sump Assembly, Black Sump Assembly, Black 540158 XPort Cover with Screws, Light Blue Sump Assembly, Black Sump Assembly, Black 540158 XPort Cover with Screws, Black Sump Assembly, Black Sump Assembly, Black 540159 XPort Cover with Screws, Light Blue Sump Assembly, Black Sump Assembly, Black 540153 Screw: No.10, 17/8" Securit			•	
540130 Xport Kit, Concrete, 75 MM, Black 540131 Xport Kit, Concrete, 75 MM, Light Blue em Part Number Description Material * Sump Assembly with Cap, 2½" (3 pieces) PVC - 1 540168 Concrete Leveling Ring PVC - 1 540168 Concrete Leveling Ring PVC - 1 540149 Funnel Assembly, White PVC - 1 540150 Funnel Assembly, Black Store 540151 Funnel Assembly, Black Store 540156 XPort Cover with Screws, White Store 540157 XPort Cover with Screws, Black Store 540158 XPort Cover with Screws, Light Blue Stores 540163 Screw: No.10, 17/8" Security Head, (12 pieces) 316-SS 540163 Screw: No.10, 17/8" Security Head, (12 pieces) 316-SS * Screw: No.10, 7/8" Phillips Head, (12 pieces) 316-SS * Screw: No.10, 7/8" Phillips Head, (12 pieces) 316-SS * Screw: No.10, 7/8" Phillips Head, (12 pieces) 316-SS * Screw: No.10, 7/8" Phillips Head, (12 pieces) 316-SS * Screw: No.10, 7/8" Phil			-	
540131 Xport Kit, Concrete, 75 MM, Light Blue Part Number Description Material - Sump Assembly with Cap, 2½" (3 pieces) PVC - 1 540168 Concrete Leveling Ring PVC - 1 540148 Funnel Assembly, White PVC - 1 540149 Funnel Assembly, Grey PVC - 1 540150 Funnel Assembly, Grey PVC - 1 540151 Funnel Assembly, Black S40155 540156 XPort Cover with Screws, Grey S40157 540157 XPort Cover with Screws, Black S40158 540158 XPort Cover with Screws, Black S40159 540159 XPort Cover with Screws, Light Blue S40163 540159 XPort Cover with Screws, Stack S40159 540159 XPort Cover with Screws, Stack S40159 540163 Screw: No.10, 7/8" Security Head, (12 pieces) 316-SS 540163 Screw: No.10, 7/8" Phillips Head, (12 pieces) 316-SS N/A Support Screw: No.10, 7/8" Phillips Head, (12 pieces) 316-SS N/A Support Plaster (12 pieces)				
Part NumberDescriptionMaterialSump Assembly with Cap, 2½" (3 pieces)PVC - 1Sump Assembly with Cap, 2½" (3 pieces)PVC - 1S40168Concrete Leveling RingS40148Funnel Assembly, WhiteS40149Funnel Assembly, WhiteS40150Funnel Assembly, BlackS40151Funnel Assembly, BlueS40156XPort Cover with Screws, WhiteS40157XPort Cover with Screws, WhiteS40158XPort Cover with Screws, GreyS40159XPort Cover with Screws, Light BlueS40159XPort Cover with Screws, Light BlueS40159XPort Cover with Screws, Light BlueS40159Screw: No.12, 2 5/8" Countersink, Security Head (12 pieces)S40153Screw: No.10, 7/8" Phillips Head, (12 pieces)S40154Screw: No.10, 7/8" Phillips Head, (12 pieces)S40155Screw: No.10, 7/8" Security Head (12 pieces)S40154SupportS40155Cap Xport PlasterS40155Cap Xport Sump ConstructionS40152Plug Pressure Test, NPT 2½" (4 pieces)S40153Drain Second, BlackS40153Drain Second, BlackS40153Drain Second, GreyS40153Drain Second, GreyS40153Drain Second, GreyS40153Drain Second, GreyS40153Drain Second, GreyS40153Drain Second, CapS40153Drain Second, GreyS40153Drain Second, GreyS40153Security, T-25			-	
 * Sump Åssembly with Cap, 2½" (3 pieces) PVC - 1 Sump Åssembly without Cap, 2½" (3 pieces) PVC - 1 S40168 Concrete Leveling Ring S40148 Funnel Assembly, White S40150 Funnel Assembly, Grey S40151 Funnel Assembly, Black S40156 XPort Cover with Screws, White S40157 XPort Cover with Screws, Grey S40163 Screw Kit, Concrete (Includes items 5, 6, 7) * Screw: No.12, 2 5/8" Countersink, Security Head (12 pieces) 316-SS * Screw: No.10, 17/8" Phillips Head, (12 pieces) 316-SS N/A Support * Cap Xport Plaster * Cap Xport Plaster * Cap Xport Plaster * Cap Xport Sump Construction * Cap Xport Sump Construction * Cap Xport Sump Construction * Plug Pressure Test, NPT 2½" (4 pieces) \$40152 * Drain Second, Grey * Sump Asport, Light Blue \$40133 Drain Second, Grey * Sump Asport Plaster * Sump Xport Sump Construction (6 pieces) * Plug 2" NPT (6 PK) * Sump Second, Grey * Sump Asport Kit Required to Reduce Pipe Size * PVC, SCH. 40 * NTA * Sump Adaptor Kit Required to Reduce Pipe Size * PVC, SCH. 40 * Kaptor Kit Required to Reduce Pipe Size 		540131	Xport Kit, Concrete, 75 MM, Light Blue	
 Sump Assembly with Out, 2/2 (C) pieces) FVC - 1 Sump Assembly, Whitout Cap, 2/2" (3 pieces) PVC - 1 S40168 Concrete Leveling Ring S40148 Funnel Assembly, White S40149 Funnel Assembly, White S40150 Funnel Assembly, Blue S40151 Funnel Assembly, Blue S40156 XPort Cover with Screws, White S40157 XPort Cover with Screws, Ught Blue S40158 XPort Cover with Screws, Light Blue S40163 Screw: No.12, 2 5/8" Countersink, Security Head (12 pieces) 316-SS * Screw: No.10, 1 7/8" Security Head, (12 pieces) 316-SS * Screw: No.10, 1 7/8" Phillips Head, (12 pieces) 316-SS * Screw: No.10, 7/8" Phillips Head, (12 pieces) 316-SS * Screw: No.10, 7/8" Phillips Head, (12 pieces) 316-SS * Cap Xport Plaster Cap Xport Plaster Cap Xport Sump Construction Cap Xport Sump Construction (5 pieces) * Plug 2" NPT (6 PK) S40133 Drain Second, Black S40153 Drain Second, Grey 4 * Sump Assemble Review of Review of Review of Review PVC, SCH. 40 R1 N/A REQUIRED CONNECTION TO A 2nd Suction Outlet 2½" pipe PVC, SCH. 40 	Item		•	
540168 Concrete Leveling Ring 540148 Funnel Assembly, White 540149 Funnel Assembly, Grey 540150 Funnel Assembly, Black 540151 Funnel Assembly, Blue 540156 XPort Cover with Screws, White 540157 XPort Cover with Screws, Grey 540158 XPort Cover with Screws, Black 540159 XPort Cover with Screws, Light Blue 540163 Screw Kit, Concrete (includes items 5, 6, 7) * Screw: No.12, 2 5/8" Countersink, Security Head (12 pieces) 316-SS Screw: No.10, 1 7/8" Security Head, (12 pieces) * Screw: No.10, 7/8" Phillips Head, (12 pieces) * Cap Xport Sump Construction *<	1			
540148 Funnel Assembly, White 540149 Funnel Assembly, Grey 540150 Funnel Assembly, Black 540151 Funnel Assembly, Blue 540156 XPort Cover with Screws, White 540157 XPort Cover with Screws, Grey 540158 XPort Cover with Screws, Ight Blue 540158 XPort Cover with Screws, Ight Blue 540163 Screw Kit, Concrete (includes items 5, 6, 7) * Screw: No.12, 2 5/8' Countersink, Security Head (12 pieces) 316-SS * Screw: No.10, 1 7/8' Security Head, (12 pieces) 316-SS * Screw: No.10, 1 7/8' Phillips Head, (12 pieces) 316-SS * Screw: No.10, 1 7/8' Phillips Head, (12 pieces) 316-SS * Screw: No.10, 7/8'' Phillips Head, (12 pieces) 316-SS N/A Support * Cap Xport Plaster * Cap Xport Sump Construction * Plug Pressure Test, NPT 2½" (4 pieces) * Plug 2'' NPT (6 PK) 3 <t< td=""><td></td><td>*</td><td>Sump Assembly without Cap, 21/2" (3 pieces)</td><td>PVC - 1</td></t<>		*	Sump Assembly without Cap, 21/2" (3 pieces)	PVC - 1
540149 Funnel Assembly, Grey 540150 Funnel Assembly, Black 540151 Funnel Assembly, Blue 540156 XPort Cover with Screws, White 540157 XPort Cover with Screws, Grey 540158 XPort Cover with Screws, Black 540159 XPort Cover with Screws, Black 540158 XPort Cover with Screws, Light Blue 540163 Screw Kit, Concrete (includes items 5, 6, 7) * Screw: No.12, 2 5/8" Countersink, Security Head (12 pieces) 316-SS * Screw: No.10, 1 7/8" Security Head, (12 pieces) 316-SS * Screw: No.10, 7/8" Phillips Head, (12 pieces) 316-SS N/A Support * * Cap Xport Plaster * * Cap Xport Sump Construction * * Cap Xport Sump Construction (6 pieces) * * Plug 2" NPT (6 PK) * * Sto133 Drain Second, L	2	540168	Concrete Leveling Ring	
540150 Funnel Assembly, Black 540151 Funnel Assembly, Blue 540156 XPort Cover with Screws, White 540157 XPort Cover with Screws, Grey 540158 XPort Cover with Screws, Black 540159 XPort Cover with Screws, Black 540163 Screw Kit, Concrete (includes items 5, 6, 7) * Screw: No.12, 2 5/8" Countersink, Security Head (12 pieces) 316-SS Screw: No.10, 1 7/8" Security Head, (12 pieces) * Screw: No.10, 7/8" Phillips Head, (12 pieces) * Cap Xport Plaster * Cap Xport Sump Construction * Cap Xport Sump Construction (6 pieces) * Plug Pressure Test, NPT 2½" (4 pieces) 2 * \$40132 Drain Second, Black \$40133 Drain Second, Grey	3	540148	Funnel Assembly, White	
540151Funnel Assembly, Blue540156XPort Cover with Screws, White540157XPort Cover with Screws, Grey540158XPort Cover with Screws, Black540159XPort Cover with Screws, Black540163Screw Kit, Concrete (includes items 5, 6, 7)*Screw: No.12, 2 5/8" Countersink, Security Head (12 pieces)*Screw: No.10, 1 7/8" Security Head, (12 pieces)*Screw: No.10, 1 7/8" Security Head, (12 pieces)*Screw: No.10, 7/8" Phillips Head, (12 pieces)*Screw: No.10, 7/8" Phillips Head, (12 pieces)*Cap Xport Plaster*Cap Xport Plaster (12 pieces)*Cap Xport Sump Construction*Cap Xport Sump Construction*Cap Xport Sump Construction (6 pieces)*Plug 2" NPT (6 PK)3540132540152Drain Second, Black540153Drain Second, Grey4*Sump Adaptor Kit Required to Reduce Pipe SizePVC, SCH. 40R1N/AKAScrewdriver Security, T-25		540149	Funnel Assembly, Grey	
540156XPort Cover with Screws, White540157XPort Cover with Screws, Grey540158XPort Cover with Screws, Black540159XPort Cover with Screws, Light Blue540163Screw Kit, Concrete (includes items 5, 6, 7)*Screw: No.12, 2 5/8" Countersink, Security Head (12 pieces)*Screw: No.10, 1 7/8" Security Head, (12 pieces)*Screw: No.10, 1 7/8" Security Head, (12 pieces)N/ASupport*Cap Xport Plaster*Cap Xport Plaster (12 pieces)*Cap Xport Sump Construction*Cap Xport Sump Construction (6 pieces)*Plug 2" NPT (6 PK)*Plug 2" NPT (6 PK)540153Drain Second, Black540152Drain Second, Grey44*Sump Adaptor Kit Required to Reduce Pipe SizePVC, SCH. 40R1N/AREQUIRED CONNECTION TO A 2nd Suction Outlet 2½" pipe PVC, SCH. 40Ka540166Screwdriver Security, T-25		540150	Funnel Assembly, Black	
540157XPort Cover with Screws, Grey540158XPort Cover with Screws, Black540159XPort Cover with Screws, Light Blue540163Screw Kit, Concrete (includes items 5, 6, 7)*Screw: No.12, 2 5/8" Countersink, Security Head (12 pieces)*Screw: No.10, 1 7/8" Security Head, (12 pieces)*Screw: No.10, 1 7/8" Security Head, (12 pieces)*Screw: No.10, 7/8" Phillips Head, (12 pieces)*Screw: No.10, 7/8" Phillips Head, (12 pieces)*Screw: No.10, 7/8" Phillips Head, (12 pieces)N/ASupport*Cap Xport Plaster*Cap Xport Plaster (12 pieces)*Cap Xport Sump Construction*Cap Xport Sump Construction (6 pieces)*Cap Xport Sump Construction (6 pieces)*Plug Pressure Test, NPT 2½" (4 pieces)*Plug 2" NPT (6 PK)*Statin Second, Black*Statin Second, Light Blue*Statin Second, Light Blue*Statin Second, Grey*Sump Adaptor Kit Required to Reduce Pipe Size*Sump Adaptor Kit Required to Reduce Pipe Size* <t< td=""><td></td><td>540151</td><td>Funnel Assembly, Blue</td><td></td></t<>		540151	Funnel Assembly, Blue	
540158XPort Cover with Screws, Back540159XPort Cover with Screws, Light Blue540163Screw Kit, Concrete (includes items 5, 6, 7)*Screw: No.12, 2 5/8" Countersink, Security Head (12 pieces) 316-SS*Screw: No.10, 1 7/8" Security Head, (12 pieces) 316-SS*Screw: No.10, 7/8" Phillips Head, (12 pieces) 316-SS*Screw: No.10, 7/8" Phillips Head, (12 pieces) 316-SS*Screw: No.10, 7/8" Phillips Head, (12 pieces) 316-SSN/ASupport*Cap Xport Plaster*Cap Xport Plaster (12 pieces)*Cap Xport Sump Construction*Cap Xport Sump Construction (6 pieces)*Plug Pressure Test, NPT 2½" (4 pieces)2*\$40132Drain Second, Black540152Drain Second, Light Blue540153Drain Second, Grey4*\$40166Screwdriver Security, T-25	4	540156	XPort Cover with Screws, White	
540159XPort Cover with Screws, Light Blue540163Screw Kit, Concrete (includes items 5, 6, 7)*Screw: No.12, 2 5/8" Countersink, Security Head (12 pieces)316-SS*Screw: No.10, 1 7/8" Security Head, (12 pieces)316-SS*Screw: No.10, 7/8" Phillips Head, (12 pieces)316-SS*Screw: No.10, 7/8" Phillips Head, (12 pieces)316-SSN/ASupport316-SS*Cap Xport Plaster5000000000000000000000000000000000000		540157	XPort Cover with Screws, Grey	
540163Screw Kit, Concrete (includes items 5, 6, 7)*Screw: No.12, 2 5/8" Countersink, Security Head (12 pieces) 316-SS*Screw: No.10, 1 7/8" Security Head, (12 pieces) 316-SS*Screw: No.10, 7/8" Phillips Head, (12 pieces) 316-SS*Screw: No.10, 7/8" Phillips Head, (12 pieces) 316-SSN/ASupport*Cap Xport Plaster*Cap Xport Plaster (12 pieces)*Cap Xport Sump Construction*Cap Xport Sump Construction*Cap Xport Sump Construction (6 pieces)*Plug Pressure Test, NPT 2½" (4 pieces)2**Plug 2" NPT (6 PK)3540132Drain Second, Black540152Drain Second, Crey540153Drain Second, Grey4*Sump Adaptor Kit Required to Reduce Pipe SizePVC, SCH. 40R1N/AREQUIRED CONNECTION TO A 2nd Suction Outlet 2½" pipe PVC, SCH. 40		540158	XPort Cover with Screws, Black	
 * Screw: No.12, 2 5/8" Countersink, Security Head (12 pieces) 316-SS * Screw: No.10, 1 7/8" Security Head, (12 pieces) 316-SS * Screw: No.10, 7/8" Phillips Head, (12 pieces) 316-SS N/A Support * Cap Xport Plaster * Cap Xport Plaster (12 pieces) * Cap Xport Sump Construction * Cap Xport Sump Construction (6 pieces) * Plug Pressure Test, NPT 2½" (4 pieces) * Plug 2" NPT (6 PK) 540132 Drain Second, Black 540152 Drain Second, Grey * Sump Adaptor Kit Required to Reduce Pipe Size PVC, SCH. 40 R1 N/A REQUIRED CONNECTION TO A 2nd Suction Outlet 2½" pipe PVC, SCH. 40 		540159	XPort Cover with Screws, Light Blue	
 * Screw: No.10, 17/8" Security Head, (12 pieces) 316-SS * Screw: No.10, 7/8" Phillips Head, (12 pieces) 316-SS N/A Support * Cap Xport Plaster * Cap Xport Plaster (12 pieces) * Cap Xport Plaster (12 pieces) * Cap Xport Sump Construction * Cap Xport Sump Construction (6 pieces) * Plug Pressure Test, NPT 2½" (4 pieces) * Plug 2" NPT (6 PK) 540132 Drain Second, Black 540152 Drain Second, Light Blue 540152 Drain Second, Grey * Sump Adaptor Kit Required to Reduce Pipe Size PVC, SCH. 40 R1 N/A REQUIRED CONNECTION TO A 2nd Suction Outlet 2½" pipe PVC, SCH. 40 		540163	Screw Kit, Concrete (includes items 5, 6, 7)	
*Screw: No.10, 7/8" Phillips Head, (12 pieces)316-SSN/ASupport*Cap Xport Plaster*Cap Xport Plaster (12 pieces)*Cap Xport Sump Construction*Cap Xport Sump Construction (6 pieces)*Cap Xport Sump Construction (6 pieces)*Plug Pressure Test, NPT 2½" (4 pieces)2*Plug 2" NPT (6 PK)3540132540132Drain Second, Black540152Drain Second, Light Blue540153Drain Second, Grey4*Sump Adaptor Kit Required to Reduce Pipe SizePVC, SCH. 40R1N/AREQUIRED CONNECTION TO A 2nd Suction Outlet 2½" pipe PVC, SCH. 40	5	*	Screw: No.12, 2 5/8" Countersink, Security Head (12 pieces)	316-SS
N/ASupportSites of the second procession*Cap Xport Plaster*Cap Xport Plaster (12 pieces)*Cap Xport Plaster (12 pieces)*Cap Xport Sump Construction*Cap Xport Sump Construction (6 pieces)*Plug Pressure Test, NPT 2½" (4 pieces)*Plug 2" NPT (6 PK)3540132540133Drain Second, Black540152Drain Second, Light Blue540152Drain Second, Grey4*Sump Adaptor Kit Required to Reduce Pipe SizePVC, SCH. 40R1N/AREQUIRED CONNECTION TO A 2nd Suction Outlet 2½" pipe PVC, SCH. 40	6	*	Screw: No.10, 1 7/8" Security Head, (12 pieces)	316-SS
*Cap Xport Plaster*Cap Xport Plaster (12 pieces)0*Cap Xport Sump Construction*Cap Xport Sump Construction (6 pieces)*Cap Xport Sump Construction (6 pieces)*Plug Pressure Test, NPT 2½" (4 pieces)2*Plug 2" NPT (6 PK)3540132540133Drain Second, Black540152Drain Second, Light Blue540153Drain Second, Grey4*Sump Adaptor Kit Required to Reduce Pipe SizePVC, SCH. 40R1N/AREQUIRED CONNECTION TO A 2nd Suction Outlet 2½" pipe PVC, SCH. 40/AS40166Screwdriver Security, T-25	7	*	Screw: No.10, 7/8" Phillips Head, (12 pieces)	316-SS
 * Cap Xport Plaster (12 pieces) * Cap Xport Sump Construction * Cap Xport Sump Construction (6 pieces) * Cap Xport Sump Construction (6 pieces) * Plug Pressure Test, NPT 2½" (4 pieces) * Plug 2" NPT (6 PK) 540132 540133 Drain Second, Black 540152 Drain Second, Light Blue 540153 Drain Second, Grey * Sump Adaptor Kit Required to Reduce Pipe Size PVC, SCH. 40 R1 KA Ka Screwdriver Security, T-25 	В	N/A	Support	
*Cap Xport Sump Construction*Cap Xport Sump Construction (6 pieces)*Plug Pressure Test, NPT 2½" (4 pieces)*Plug 2" NPT (6 PK)*Plug 2" NPT (6 PK)540132Drain Second, Black540133Drain Second, Light Blue540152Drain Second, White540153Drain Second, Grey4*Sump Adaptor Kit Required to Reduce Pipe SizePVC, SCH. 40R1N/AStorewdriver Security, T-25	9	*	Cap Xport Plaster	
 * Cap Xport Sump Construction (6 pieces) * Plug Pressure Test, NPT 2½" (4 pieces) * Plug 2" NPT (6 PK) 540132 Drain Second, Black 540133 Drain Second, Light Blue 540152 Drain Second, White 540153 Drain Second, Grey 4 * Sump Adaptor Kit Required to Reduce Pipe Size PVC, SCH. 40 R1 N/A REQUIRED CONNECTION TO A 2nd Suction Outlet 2½" pipe PVC, SCH. 40 		*	Cap Xport Plaster (12 pieces)	
*Plug Pressure Test, NPT 2½" (4 pieces)2*Plug 2" NPT (6 PK)3540132Drain Second, Black540133Drain Second, Light Blue540152Drain Second, White540153Drain Second, Grey4*Sump Adaptor Kit Required to Reduce Pipe SizePVC, SCH. 40R1N/AREQUIRED CONNECTION TO A 2nd Suction Outlet 2½" pipe PVC, SCH. 40	10	*	Cap Xport Sump Construction	
2*Plug 2" NPT (6 PK)3540132Drain Second, Black540133Drain Second, Light Blue540152Drain Second, White540153Drain Second, Grey4*Sump Adaptor Kit Required to Reduce Pipe SizePVC, SCH. 40R1N/AREQUIRED CONNECTION TO A 2nd Suction Outlet 2½" pipe PVC, SCH. 40/A540166Screwdriver Security, T-25		*	Cap Xport Sump Construction (6 pieces)	
3 540132 Drain Second, Black 540133 Drain Second, Light Blue 540152 Drain Second, White 540153 Drain Second, Grey 4 * Sump Adaptor Kit Required to Reduce Pipe Size PVC, SCH. 40 R1 N/A REQUIRED CONNECTION TO A 2nd Suction Outlet 2½" pipe PVC, SCH. 40 /A 540166 Screwdriver Security, T-25	11	*	Plug Pressure Test, NPT 21/2" (4 pieces)	
3 540132 Drain Second, Black 540133 Drain Second, Light Blue 540152 Drain Second, White 540153 Drain Second, Grey 4 * Sump Adaptor Kit Required to Reduce Pipe Size PVC, SCH. 40 R1 N/A REQUIRED CONNECTION TO A 2nd Suction Outlet 2½" pipe PVC, SCH. 40 /A 540166 Screwdriver Security, T-25	12	*		
540133Drain Second, Light Blue540152Drain Second, White540153Drain Second, Grey4*Sump Adaptor Kit Required to Reduce Pipe SizePVC, SCH. 40R1N/AREQUIRED CONNECTION TO A 2nd Suction Outlet 2½" pipe PVC, SCH. 40/A540166Screwdriver Security, T-25	13	540132		
540152 Drain Second, White 540153 Drain Second, Grey 4 * Sump Adaptor Kit Required to Reduce Pipe Size PVC, SCH. 40 R1 N/A REQUIRED CONNECTION TO A 2nd Suction Outlet 2½" pipe PVC, SCH. 40 /A 540166 Screwdriver Security, T-25				
540153Drain Second, Grey4*Sump Adaptor Kit Required to Reduce Pipe SizePVC, SCH. 40R1N/AREQUIRED CONNECTION TO A 2nd Suction Outlet 2½" pipe PVC, SCH. 40/A540166Screwdriver Security, T-25				
* Sump Adaptor Kit Required to Reduce Pipe Size PVC, SCH. 40 R1 N/A REQUIRED CONNECTION TO A 2nd Suction Outlet 2½" pipe PVC, SCH. 40 /A 540166 Screwdriver Security, T-25				
R1N/AREQUIRED CONNECTION TO A 2nd Suction Outlet 2½" pipe PVC, SCH. 40/A540166Screwdriver Security, T-25	14	*	· · · · · · · · · · · · · · · · · · ·	PVC, SCH. 40
A 540166 Screwdriver Security, T-25	 **R1	N/A		
	N/A		•••	-,
			· · · · · · · · · · · · · · · · · · ·	

(**) Not part of kit



Xport Drain System (Concrete)

Xport Drain Installation and Replacement Parts List (Fiberglass Pools)

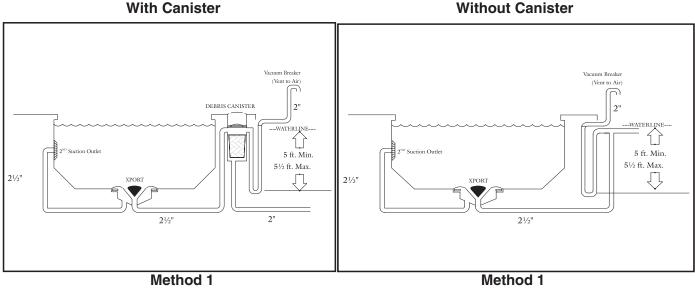


Fiberglass Xport Drain Installation Methods

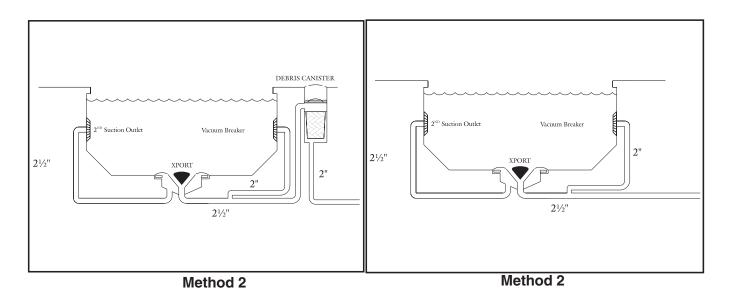
There are three methods that can be used to install the Xport drain system in fiberglass. The following illustrations show the different methods.

Vacuum Breaker Installation Methods for Fiberglass

Use one of the following methods to install the XPort Drain System into a fiberglass base.



This method is recommended for best debris removal performance.



Vacuum Breaker Installation in Fiberglass (Method 3)

Suction vacuum release device, mechanical, or electromechanical, venting or non-venting, may be used provided it is tested and listed by a nationally recognized testing laboratory in accordance with ANSI/ ASME A112.19.17 – *Manufactured SVRS for Residential and Commercial Swimming Pool*.

Fiberglass Installation

Use the following instructions to install the Xport Drain System into a fiberglass shell.

Sump Installation to Fiberglass Pool Shell

Shell Preparation

- 1. Determine the location of the sump in the shell and mark the center point.
- 2. Draw an 11¹/₄" circle and cut it out using a jigsaw.
- 3. Insert the seal ring into the hole and point keyway to the back wall. **Note:** The Keyway aligns with the sweep ninety that needs to point to the back wall).
- 4. Mark the location of the six holes in the flange and drill with a $\frac{1}{4}$ " bit.
- 5. Make sure that the bottom surface around the hole is flat.
- 6. Continue with Sump Installation to Shell below.

Pressure Test

• Perform the pressure test using the provided pressure plugs. For instructions, see "Xport Pressure Test," on page 6.

Sump Installation to Shell

To install the sump with high flange into the pool shell:

- 1. Apply sealing compound to the top surface of the Xport sump flange.
- 2. From the outside of the pool shell, align the sump with screw holes in the mounting ring and sweep ninety pointing to the back wall of pool shell. Refer to "Sump Installation to Shell" on page 23 for illustration.
- 3. Apply a small bead of sealing compound to the bottom surface of the seal ring flange.
- 4. From the inside of pool shell, align the seal ring keyway with the tab in the sump, and press into place.
- 5. Secure the seal ring and sump together with the six $12" \times 1\frac{1}{2}"$ flathead screws.
- 6. Secure the second Suction Outlet fitting through the sidewall in the desired locations.
- 7. Make the plumbing connection between the second Suction Outlet and the 2¹/₂" outlet on the bottom of the Xport sump. The pipe must be equal to circulation line.
- 8. Proceed with the Funnel installation instructions on the following page.

 Fiberglass Shell

Sump Installation to Shell

Funnel Installation

Note: Assemble the drain before adding water.

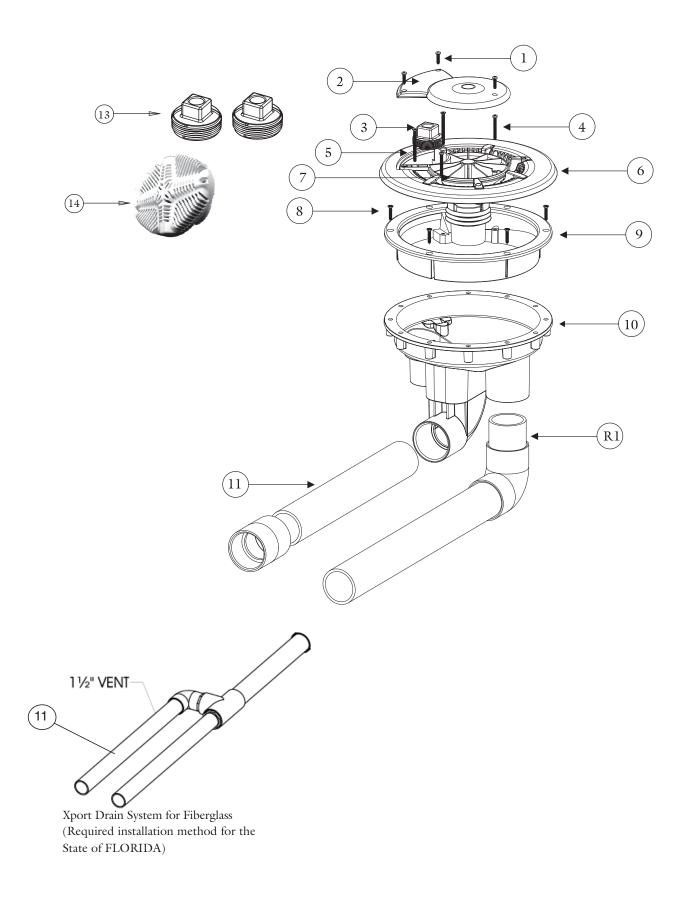
To install the funnel assembly: (For Xport replacement parts identification (i.e. No. 6), refer to illustration on page 23).

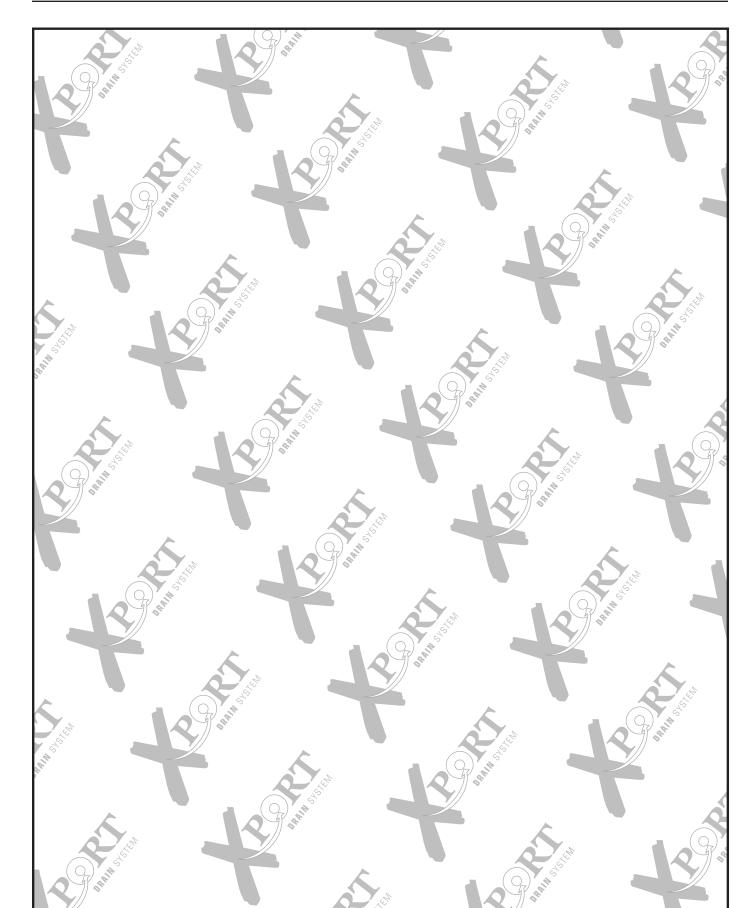
- 1. Install the funnel assembly (No. 6) into the sump (No. 11) by pressing the flexible funnel adapter inside the center 2¹/₂" female threaded fitting. Press down and hold the funnel assembly to install screws.
- 2. Use a T25 screwdriver to install the two large screws (No. 5) in the support (No. 7).
- 3. Use a T25 screwdriver to install the two medium screws (No.4) in the funnel assembly (No. 6). Tighten the screws until the funnel assembly (No. 6) contacts the interior finish of the pool, spa, or basin.
- 4. Place the Xport cover (No. 2) on the funnel assembly (No. 6). Use a Phillips screwdriver to secure the cover in place with the three small screws (No. 1).
- 5. The Xport drain system installation is complete.

Xport Drain System Replacement Parts List (Fiberglass)

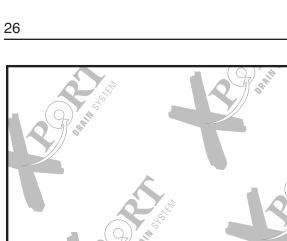
	Xport /	Assembly Kit (Fiberglass)	
	Part Number	Description	
	540141	Xport Kit, Fiberglass, Bolt On, White	
	540142	Xport Kit, Fiberglass, Bolt On, Light Blue	
	540145	Xport Kit, Fiberglass, 75 MM, Bolt On, White	
	540146	Xport Kit Fiberglass, 75 MM, Bolt On, Light Blue	
Item	Part Number	Description	Material
1	*	Screw, No. 10-7/8" Phillips Head, (12 pieces)	316-SS
2	540156	XPort Cover with Screws, White	
	540157	XPort Cover with Screws, Grey	
	540158	XPort Cover with Screws, Black	
	540159	XPort Cover with Screws, Light Blue	
3	*	Plug 2" NPT (6 pieces)	
	540164	Screw Kit, Fiberglass (includes item 4, ,5 and 8)
4	*	Screw, No. 10-1 7/8" Security Head, (12 pieces)	, 316-SS
5	*	Screw, 12 x 2-5/8" Security Head (12 pieces)	316-SS
6	540154	Funnel Assembly, Bolt On, White	
	540155	Funnel Assembly, Bolt On, Light Blue	
7	N/A	Support	
8 9	*	Screw, 12-14 x 1½" (12 pieces)	316-SS
•	540176 *	Seal Ring	PVC - 1
10	*	Sump Assembly - 21/2"	PVC - I
11		Sump Adaptor Kit Required to Reduce Pipe Size	PVC, SCH. 40
13	*	Plug Pressure Test 21/2" NPT (4 pieces)	
14	540140	Drain Second, White	
	540143	Drain Second, Light Blue	
**R1	N/A	REQUIRED CONNECTION TO	
		• •	PVC, SCH. 40
N/A	540166	Screwdriver Security, T-25	
(*) Part of main a	assembly		

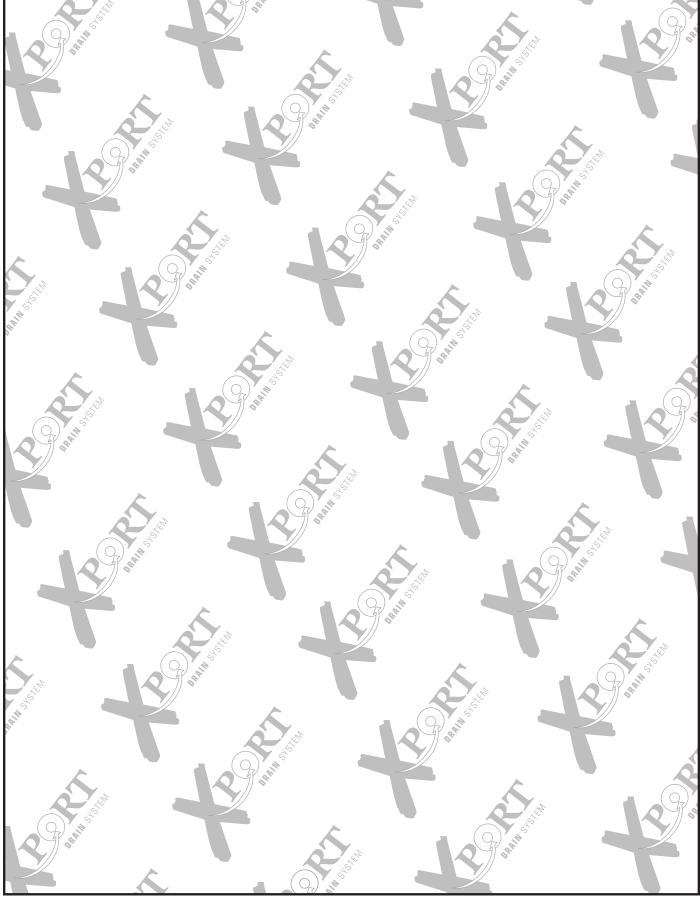
(**) Not part of kit





Xport Drain Installation and Replacement Parts List (Vinyl Pools)



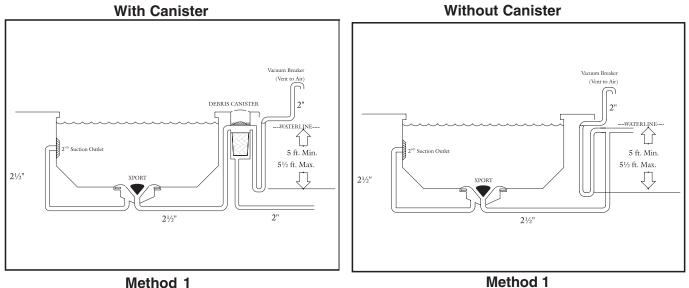


Vinyl Xport Drain Installation Methods

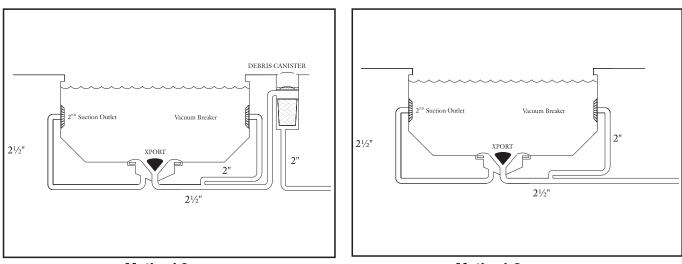
There are three methods that can be used to install the Xport drain system in vinyl. The following illustrations show the different methods.

Vacuum Breaker Installation Method for Vinyl

Use one of the following methods to install the XPort Drain System into a vinyl shell.



Method 1 This method is recommended for best debris removal performance.



Method 2

Method 2

Vacuum Breaker Installation in Vinyl (Method 3)

Suction vacuum release device, mechanical, or electromechanical, venting or non-venting, may be used provided it is tested and listed by a nationally recognized testing laboratory in accordance with ANSI/ ASME A112.19.17 – *Manufactured SVRS for Residential and Commercial Swimming Pool*.

Vinyl Installation

Use the following instructions to install the XPort Drain System into a vinyl shell.

Plumbing Requirements

The Xport Drain System plumbing requirements for vinyl pools are:

- 1. Position the Xport Sump flush with the finished depth of the pool, spa, or basin (see illustration below for details).
- 2. Whichever pool base is used, the drain sump must be encased in concrete as shown to anchor it in place.
- 3. Position the <u>required</u> second Suction Outlet on a sidewall of the pool, spa or basin. If necessary, the second Suction Outlet may be positioned on the floor a <u>minimum</u> of three (3) feet away from the Xport Sump.

Pressure Test

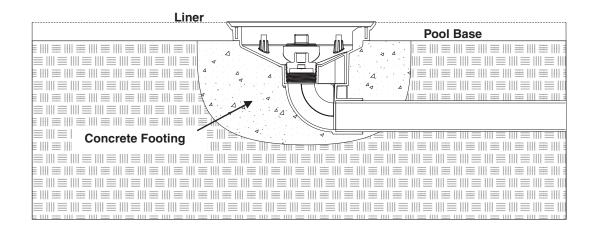
• Perform the pressure test using the provided pressure plugs. For instructions, see "Xport Pressure Test," on page 6.

Xport Sump Installation to Pool Base

• Finish pool base flush with upper edge of Xport sump as shown below.

Liner Installation

- 1. Make sure the bottom gasket is in place before installing the liner.
- 2. Set the liner in the pool and draw tight with the vacuum.
- 3. Install the top gasket, seal ring, and 12 screws.
- 4. Cut out the liner inside the sump.
- 5. Proceed with the Funnel Installation instructions on the following page.



Funnel Installation

Note: Assemble the drain before adding water.

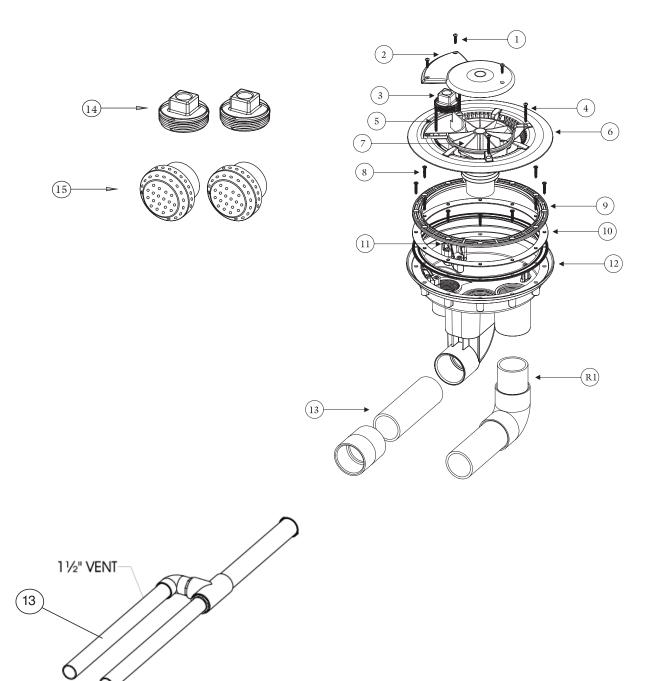
To install the funnel assembly: (For Xport replacement parts identification (i.e. No. 6), refer to illustration on page 31)

- 1. Install the funnel assembly (No. 6) into the sump (No. 12) by pressing the flexible funnel adapter inside the center 2¹/₂" female threaded fitting. Press down and hold the funnel assembly to install screws.
- 2. Use a T25 screwdriver to install the two large screws (No. 5) in the support (No. 7).
- 3. Use a T25 screwdriver to install the two medium screws (No.4) in the funnel assembly (No. 6). Tighten the screws until the funnel assembly (No. 6) contacts the interior finish of the pool, spa, or basin.
- 4. Place the Xport cover (No. 2) on the funnel assembly (No. 6). Use a Phillips screwdriver to secure the cover in place with the three small screws (No. 1).
- 5. The Xport drain system installation is complete.

Xport Drain System Replacement Parts List (Vinyl)

	Part Number	Description	
	540134	Xport Kit, Vinyl, White	
	540135	Xport Kit, Vinyl, Grey	
	540136	Xport Kit, Vinyl, Black	
	540137	Xport Kit, Vinyl, Light Blue	
	-		
tem	Part Number		erial
	540162	Screw Kit, Concrete (includes item 1, 4, 5, 8)	
1	*	Screw, No. 10-7/8" Phillips Head, (12 pieces)	316-SS
2	540156	XPort Cover with Screws, White	
	540157	XPort Cover with Screws, Grey	
	540158	XPort Cover with Screws, Black	
	540159	XPort Cover with Screws, Light Blue	
3	*	Plug 2" NPT (6 pieces)	
4	*	Screw, No. 10-1 7/8" Security Head, (12 pieces),	316-SS
5	*	Screw, 12 x 2-5/8" Security Head (12 pieces)	316-SS
6	540152	Funnel Assembly, White	
_	540153	Funnel Assembly, Light Blue	
7	*	Support	
8	*	Screw, 12-14 x 1 ¹ / ₂ " Vinyl Sump (12 pieces)	316-SS
9	540175	Seal Ring	
10 11	540173 *	Vinyl Gaskets (2 pieces) Support Bracket (2 pieces)	
12	*	Support Bracket (2 pieces) Sump Assembly - 2½"	PVC - 1
12	*	Sump Adaptor Kit Required to Reduce	FVC-1
10		Pipe Size	PVC, SCH. 40
14	*	Plug Pressure Test 2½" NPT (4 pieces)	
15	540138	Drain, Second, White	
	540139	Drain, Second, Light Blue	
**R1	N/A	REQUIRED CONNECTION TO A 2nd	
		Suction Outlet 2½" pipe PVC	, SCH. 40
*N/A	540166	Screwdriver Security, T-25	
	in assembly (**) Not part		

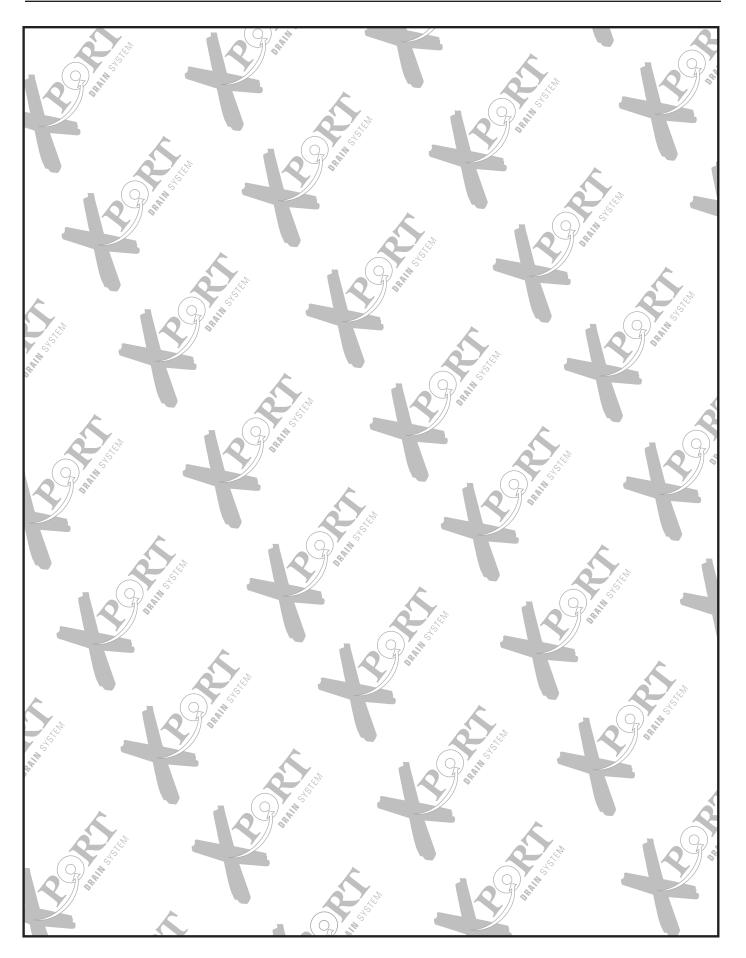
(*) Part of main assembly (**) Not part of kit



Xport Drain System for Vinyl (Required installation method for the State of FLORIDA)

Xport Drain System (Vinyl)





Notes

34

Notes

