



April 2024
Waterproofing Pricing



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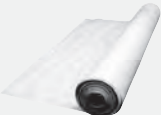


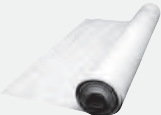




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EARTH CONTACT PRODUCTS







ECP Waterproofing

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Crawl Space Encapsulation

ECP Product #	Description	Each Price	Quantity Price	Packaging
	WTR-CVB-124	Crawl Space Vapor Barrier – 12 mil, two sheets of high strength virgin polyethylene film laminated together with a third layer of molten polyethylene. 4' x 200' roll.		
	WTR-CVB-126	Crawl Space Vapor Barrier – 12 mil, two sheets of high strength virgin polyethylene film laminated together with a third layer of molten polyethylene. 6' x 100' roll.		
	WTR-CVB-128	Crawl Space Vapor Barrier – 12 mil, two sheets of high strength virgin polyethylene film laminated together with a third layer of molten polyethylene. 8' x 100' roll.		
	WTR-CVB-12	Crawl Space Vapor Barrier – 12 mil, two sheets of high strength virgin polyethylene film laminated together with a third layer of molten polyethylene. 12' x 100' roll.		
	WTR-CVB-20	Crawl Space Vapor Barrier – 20 mil, consists of virgin outer layers of high strength polyethylene film laminated together with hot molten polyethylene. 12' x 100' roll.		
	WTR-CVB-4	Vapor Barrier Seam Tape - 4"x 180' white poly seam tape.		
	WTR-CVF-100	Mechanical fasteners used to attach vapor barrier membrane to the crawl space or basement wall, 1" thumb push fasteners.		
	WTR-CVB-VC	Crawl Space Vent Cover – closes 8" x 16" vent opening. Black.		
	WTR-CVB-BT	2"x75' double side butyl tape		











Santa Fe

ECP Product #	Description	Each Price	Quantity Price	Packaging
	WTR-SFD-110	Santa Fe Classic - 110 pints/day, sized for spaces up to 2500 SF. 10' power cord and 8' drain hose.		
	WTR-SFD-70	Santa Fe Compact 70 - 70 pints/day, sized for spaces up to 1600 SF. 9' power cord and 8' drain hose.		
	WTR-SFD-105	Santa Fe Oasis 105 - 105 pints/day, sized for spaces up to 2600 SF. 9' power cord and 8' drain hose.		
	WTR-SFD-HK	Dehumidifier Hang Kit - This kit allows the Santa Fe Compact to be hung in the joist space.		
	WTR-SFD-PK	Dehumidifier Pump Kit - Installed with a dehumidification system when condensation needs to be pumped to drain.		
WTR-SFD-FIL-CO	Santa Fe Compact Dehumidifier Filters 12-Pack.			
	WTR-SFD-FIL	Santa Fe Oasis 105 Dehumidifier Filters 12-Pack.		
WTR-SFD-FILC	Santa Fe Classic Dehumidifier Filters 12-Pack.			

Aprilaire

<i>ECP Product #</i>	<i>Description</i>	<i>Each Price</i>	<i>Quantity Price</i>	<i>Packaging</i>
 WTR-AAD-70	Aprilaire 1820, 70 ppd dehumidifier crawlspcace model			
 WTR-AAD-100	Aprilaire 1850, 100 ppd dehumidifier crawlspcace and basement model			
 WTR-AAD-HK	Aprilaire hang kit			
 WTR-AAD-PK	Condensate pump Kit			
 WTR-AAD-WIFI	Wi-Fi module for Aprilaire dehumidifiers			
WTR-AAD-PKB	Bracket kit for Condensate pump			


Sump Basins

ECP Product #	Description	Each Price	Quantity Price	Packaging
	WTR-SPP	Sump Basin – perforated. Patented “bell” design allows more water into basin before pump is activated. 26” tall, 18” diameter at top and 24” diameter at bottom. Clear lid included. Radon approved.		
	WTR-SPN	Sump Basin – Non-perforated. Patented “bell” design allows more water into basin before pump is activated. 26” tall, 18” diameter at top and 24” diameter at bottom. Clear lid included. Radon approved.		
	WTR-SPC	Craw I Space Sump Pit – 16” tall pit that can be used in crawl spaces or installs requiring a shallow pit. Clear lid included.		
	WTR-SPE	Sump Basin Extension – 12” extension for our sump basin. Bolted with rubber gasket for tight, sealed connection with basin.		
	WTR-SPP-22	Sump Basin – perforated Black 22” tall X 18” diameter. 20gal capacity.		
	WTR-SPL-22	Sump Basin Lid – Solid lid for 20 gal sump basin.		
	WTR-SPL-22S	Sump Basin Lid – Slotted lid for 20 gal sump basin.		
	WTR-SPS-22	Sump Basin Seal – Lid seal for 20 gal sump basin.		
	WTR-SPS-SS	Sump Basin Seal Kit – Lid seal, cord grommet, pipe grommet. Everything you need to fully seal the 20 gal sump basin.		
	WTR-SPS-22CG	Sump Basin Cord grommet.		









Sump Pumps

ECP Product #	Description	Each Price	Quantity Price	Packaging
	<p>WTR-BSP-100 (PS-C11)</p>	<p>Sump Pump-Backup Pump Combo – 1/3 hp, 2770 GPH @ 10' head, primary. 1000 GPH @ 10' head, battery operated, backup pump. 3 yr warranty.</p>		
	<p>WTR-BSP-200 (PS-C22)</p>	<p>Sump Pump-Backup Pump Combo – 1/3 hp, 2770 GPH @ 10' head, primary. 1850 GPH @ 10' head, battery operated, backup pump. 3 yr warranty.</p>		
	<p>WTR-BSP-300 (PS-C33)</p>	<p>Sump Pump-Backup Pump Combo – 1/3 hp, 3000 GPH @ 10' head, primary. 2400 GPH @ 10' head, battery operated, backup pump. 4 yr warranty.</p>		
	<p>WTR-BSP-400 (PS-C50)</p>	<p>Sump Pump-Backup Pump Combo – 1/2 hp, 3900 GPH @ 10' head, primary. 2400 GPH @ 10' head, battery operated, backup pump. 4 yr warranty.</p>		
	<p>WTR-BUP-17 (PHCC-1000)</p>	<p>Battery Backup Sump Pump System – 1000 GPH capacity @ 10' head, automatic operation when power goes out, continuous monitoring of battery and pump. 3 yr warranty.</p>		
	<p>WTR-BUP-29 (PHCC-1850)</p>	<p>Battery Backup Sump Pump System – 1850 GPH capacity @ 10' head, automatic operation when power goes out, continuous monitoring of battery and pump. 3 yr warranty.</p>		
	<p>WTR-BUP-40 (PHCC-2400)</p>	<p>Battery Backup Sump Pump System – 2400 GPH capacity @ 10' head, automatic operation when power goes out, continuous monitoring of battery and pump. 3 yr warranty.</p>		


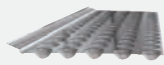


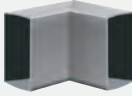

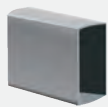



Sump Pumps

ECP Product #	Description	Each Price	Quantity Price	Packaging
	<p>WTR-BSP-53 (CIS-33V)</p>	<p>Primary Sump Pump – Cast Iron 1/3 hp 3200 GPH @ 10' head. Max head 24'. Will pass 1/2" Solids. 3 yr warranty.</p>		
	<p>WTR-BSP-46 (ST1033)</p>	<p>Primary Sump Pump – 1/3 hp, 2770 GPH @ 10' head, max head 31', 10' cord, 3 yr warranty.</p>		
	<p>WTR-BSP-20 (S2033)</p>	<p>Primary Sump Pump – 1/3 hp, 3200 GPH @ 10' head, max head 23', 10' cord, 4 yr warranty.</p>		
	<p>WTR-BSP-50 (S3033)</p>	<p>Primary Sump Pump – 1/3 hp, 3000 GPH @ 10' head, max head 30', 10' cord, 5 yr warranty. w/DFC 2.</p>		
	<p>WTR-BSP-50-1.5 (S3033)</p>	<p>Primary Sump Pump – 1/3 hp, 3000 GPH @ 10' head, max head 30', 10' cord, 5 yr warranty. w/DFC 1.5.</p>		
	<p>WTR-BSP-65 (S3050)</p>	<p>Primary Sump Pump – 1/2 hp, 3900 GPH @ 10' head, max head 33', 10' cord, 5 yr warranty. w/DFC 2.</p>		
	<p>WTR-BSP-S (SF2)</p>	<p>Sump Pump Stand – attachment for pump or combo pump, to keep pump from sitting on bottom of basin.</p>		








Backup Batteries/Pump Accessories

<i>ECP Product #</i>	<i>Description</i>	<i>Each Price</i>	<i>Quantity Price</i>	<i>Packaging</i>
 WTR-BAT-MF (B12-90)	Backup Battery – maintenance free, 12 VDC, 6.5-10 hours of continuous run time.			
 WTR-BWA (PWA)	Water Alarm – includes 6' of wire for remote sensor monitoring. For use in utility room, kitchen, bath and basement. Battery operated.			
 WTR-BSP-CV	1 ½" Check Valve – swing operated, white.			
 WTR-BSP-CVP	Pro Series Check Valve - screws directly to any 1-1/2" pump discharge and has rubber connection to discharge pipe.			
 WTR-BSP-FRZ	Sump Discharge Freeze Protector - 1 1/2" to 4" fitting, installed at ground level of discharge pipe, it allows water to be pumped even if the line is frozen or blocked.			
 WTR-BSP-WiFi	Sends emails or text notifications and status alerts to your phone, tablet or computer.			
 WTR-BSP-WS	High water sensor alarm			
 WTR-BSP-PSMP	Quick connect main pipe w/ check valve			








Interior Drainage

ECP Product #	Description	Each Price	Quantity Price	Packaging
 WTR-SDS-WC	Water Channel - An interior basement floor drainage system for new construction and retrofitting. Creates a break between the footing and slab allowing water to pass freely. 8.5" wide, 6' long.			
 WTR-SDS-WCLP	Low Profile Water Channel - An interior basement floor drainage system for new construction and retrofitting. Creates a break between the footing and slab allowing water to pass freely. 8.5" wide, 6' long.			
 WTR-SDS-400	2.25" x 4" Rectangular shaped, perforated drain pipe. Comes in 6' lengths of rigid PVC construction.			
 WTR-SDS-400D	2.25" x 4" Rectangular shaped, perforated drain pipe. Comes in 6' lengths with 5/8" holes drilled every 4"			
 WTR-SDS-90	90° Elbow fitting for SDS drainage system. Rigid PVC construction.			
 WTR-SDS-45	45° Elbow fitting for SDS drainage system. Rigid PVC construction.			
 WTR-SDS-C	SDS Coupling Fitting - rigid PVC construction.			
 WTR-SDS-O	SDS Outlet Fitting - allows connection of round pipe to SDS.			
 WTR-SDS-CO	SDS Clean Out Assembly - Fitting installed to allow for service of system.			
 WTR-SDS-CJ	Cove channel cap – molded J channel gives finished look to the cove channel. 1/4" x 8' pcs.			


Drain Pipe and Fittings

ECP Product #	Description	Each Price	Packaging
 WTR-SDE-300	3" Corrugated Drain Pipe - surrounded by polystyrene aggregate and enclosed in a geotextile mesh. Pipe, aggregate and mesh in one.		
 WTR-SDE-400	4" Corrugated Drain Pipe - surrounded by polystyrene aggregate and enclosed in a geotextile mesh. Pipe, aggregate and mesh in one.		
 WTR-SDE-NP	Polystyrene aggregate and enclosed in a geotextile mesh.		
 WTR-SDE-3C	3" Coupling - for corrugated drain pipe system.		
 WTR-SDE-4C	4" Coupling - for corrugated drain pipe system.		
 WTR-SDE-3EC	3" End Cap - for corrugated drain pipe system.		
 WTR-SDE-4EC	4" End Cap - for corrugated drain pipe system.		









Crack Injection Resins

ECP Product #	Description	Each Price	Quantity Price	Packaging
	WTR-022-ECR	Epoxy Crack Paste – epoxy paste primarily used for sealing cracks prior to injection. Low odor, 30 minute set time, 22 oz dual tube cartridge.		
	WTR-256-ECR	Epoxy Crack Paste – epoxy paste primarily used for sealing cracks prior to injection. Low odor, 30 minute set time, 2 gallon kit.		
	WTR-022-HYF	Hydrophilic Polyurethane Injection Resin – low viscosity, flexible. 22 oz dual tube cartridge.		
	WTR-022-P1C	Polyurethane Injection Resin - low viscosity, one part, semi-flexible foam. 22 oz dual tube cartridge.		
	WTR-022-ANC	Epoxy Anchoring Adhesive - Excellent ASA Epoxy mortar grout for patching and filling large cavity anchoring holes.		
	WTR-016-ELV	Epoxy Injection Resin - low viscosity. 100% solids, two component, moisture insensitive, epoxy.		
	WTR-016-EMV	Epoxy Injection Resin - medium, viscosity. 100% solids, two component, moisture insensitive, epoxy.		
	WTR-016-EHV	Epoxy Injection Resin - high viscosity. 100% solids, two component, moisture insensitive, epoxy.		







Crack Injection Accessories

ECP Product #	Description	Each Price	Quantity Price	Packaging
 WTR-025-SM	Static Mixing Nozzle – ¼” mixing tube for lower viscosity resins.			
 WTR-050-SM	Static Mixing Nozzle – ½” mixing tube for higher viscosity resins.			
 WTR-025-N	Static Mixer Locking Nut – reusable nut used with ¼” or ½” static mixer nozzle.			
 WTR-025-P	Injection Surface Ports – for use with epoxy and polyurethane injection resins. 50/bag.			
 WTR-025-MGD	Manual Dispensing Gun – dual tube set up with ability to dispense 2:1 or 1:1 cartridge.			




Surface Drainage

ECP Product #	Description	Each Price	Packaging
	WTR-400-PUE	4" Pop-Up Emitter – center drive popup with spring retract, UV inhibitor, PVC 90° elbow with ¼" drain hole. 40 GPM.	
	WTR-600-PUE	6" Pop-Up Emitter – center spring loaded drive pop-up with UV inhibitor. 100 GPM.	
	WTR-400-GRA	4" Round Grate – structural foam polyolefin grate with UV inhibitor. Open surface area 3.85", 5.04 GPM. Green.	
	WTR-600-GRA	6" Round Grate – structural foam polyolefin grate with UV inhibitor. Open surface area 9.10", 11.92 GPM. Green.	
	WTR-400-ATR	4" Atrium Grate – flat top structural foam polyolefin atrium grate with UV inhibitors. Open surface area 17.00", 22.27 GPM. Green.	
	WTR-601-CB	6" Round Catch Basin – one or two outlets, fits 3" or 4" sewer and drain pipe and 3" or 4" corrugated pipe. Black.	
	WTR-090-CBK	9" x 9" Square Catch Basin Kit - Kit includes catch basin, grate, two outlets and one plug.	
	WTR-120-CBK	12" x 12" Square Catch Basin Kit - Kit includes catch basin, grate, two outlets and one plug.	



Drainage Connection Fittings

ECP Product #	Description	Each Price	Packaging
	WTR-234-DSA	Downspout Adapter – PVC offset downspout adapter fits 2" x 3" downspout to 4" pipe. White.	
	WTR-344-DSA	Downspout Adapter – PVC offset downspout adapter fits 3" x 4" downspout to 4" pipe. White.	
	WTR-400-CBA	Basin Adapter – universal 4" adapter, fits 3" & 4" corrugated and sewer and drain pipe. For use with catch basins. Black.	
	WTR-400-BLO	Basin Locking Outlet – 3" and 4" universal locking outlet. For use with catch basins. Black.	
	WTR-400-BAP	Basin Adapter Plug – universal plug. For use with catch basins. Black.	
	WTR-400-BO	Basin Outlet – universal 4" outlet, fits 3" & 4" corrugated and sewer and drain pipe. For use with catch basins. Black.	

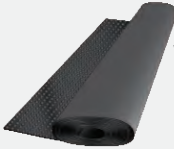


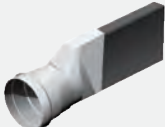
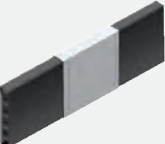
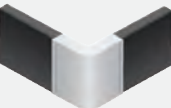
Drywell and Channel Drain

ECP Product #	Description	Each Price	Packaging
	WTR-DW	<p>Drywell System - structural foam, round drywell system. 24" diameter, 28.75" high, 49 gal. with 1.5" knockout leaching ports and 4.5" knockout inlet ports. Fits 4" pipe.</p>	
	WTR-DWB	<p>Drywell Bottom - 24" diameter with six 1.5" leaching ports and a 4.5" center knockout.</p>	
	WTR-DWI	<p>Drywell Surface Inlet - 6" diameter grate with 4" inlet. 9" high.</p>	
	WTR-500-CD	<p>5" Channel Drain Kit - high impact PVC grate and channel for light traffic. 39.75" long x 5" wide, includes 1 end cap and 1 end outlet. Bottom outlet fits 3" & 4" S&D fittings.</p>	
	WTR-300-CD	<p>PVC Mini Channel - 3 1/16" wide x 6' long channel made for a 2 3/4" wide grate. grate.</p>	
	WTR-300-GRA	<p>Mini Channel Grate - 3' long pieces x 2 3/4" wide. 14.8 GPM per foot. ADA compliant / heel proof.</p>	
	WTR-345-GRA	<p>Pre-Fabricated Mini Channel 45° Elbow - Grate Included.</p>	
	WTR-390-GRA	<p>Pre-Fabricated Mini Channel 90° Elbow - Grate Included.</p>	
	WTR-300-C	<p>Mini Channel Coupling - Used to connect two pieces of Mini Channel.</p>	
	WTR-300-EC	<p>Mini Channel End Cap - Makes the end of the Mini Channel.</p>	
	WTR-300-O	<p>Mini Channel Outlet.</p>	
	WTR-300-S	<p>Stainless Steel Screws - FH #4 x 5/8". Used to attach grate to channel.</p>	





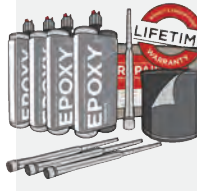
Sub-Surface Exterior Waterproofing

ECP Product #	Description	Each Price	Quantity Price	Packaging
	WTR-DDB-HLM			
<p>MasterSeal HLM 5000 - one-component, moisture-curing, bitumen-modified polyurethane elastomeric waterproofing membrane for exterior below-grade or between-slab applications. 5 gallon bucket.</p>				
	WTR-DDB-MEM			
<p>Waterproofing Membrane - heavy-duty, elastomeric foundation waterproofing membrane. The added rubber polymers give a high degree of elongation to span foundation shrinkage cracks to protect the interior from water penetration.</p>				
	WTR-DDB-250			
<p>Waterproofing Membrane - heavy-duty, elastomeric emulsion membrane that is applied to any poured wall foundation. Spray or roller applied. 250 gallon liquid tote.</p>				
	WTR-DDB-SUM			
<p>ArmorSheet 600 – Self adhering sheet membrane, 60 mil, suitable for installations where the ambient temperature is 40F or above. 215 sqft/roll.</p>				
	WTR-DDB-P			
<p>CCW-702 is a quick-drying, solvent-based, high-tack adhesive specifically designed to promote maximum adhesion of CCW Membrane Waterproofing products.</p>				
	WTR-DDB-MAS			
<p>362 All Season Mastic – Heavy bodied trowel grade coating. Excellent for patching tie holes, filling honeycombed areas, and helping seal peel and stick membranes.</p>				
	WTR-DDB-TS			
<p>Waterproofing Membrane - 10 ft. aluminum termination strip for peel and stick membrane.</p>				









Sub-Surface Exterior Waterproofing

<i>ECP Product #</i>	<i>Description</i>	<i>Each Price</i>	<i>Quantity Price</i>	<i>Packaging</i>
 <p>WTR-DDB-400</p>	<p>Dimple Drainage Board With Fabric residential composite sheet drainage system, 4' x 50' rolls.</p>			
 <p>WTR-DDB-800</p>	<p>Dimple Board Sheet Drain - 8' x 65.5' rolls (524 SF), without filter fabric.</p>			
 <p>WTR-SSD-600</p>	<p>6" Strip Drain - three dimensional, high flow, drainage core that is wrapped with a non-woven filter fabric. 6" wide x 165' long rolls, 1" thickness.</p>			
 <p>WTR-SSD-EO</p>	<p>6" Strip Drain End Out Connector - used to make the connection from 6" strip drain to 4" plastic pipe.</p>			
 <p>WTR-SSD-S</p>	<p>6" Strip Drain Splice Connector - used to connect two sections of 6" strip drain.</p>			
 <p>WTR-SSD-CF</p>	<p>6" Corner Fitting Connection - Used to make corner turns of two pieces of 6" strip drain.</p>			







Carbon Fiber Repair

ECP Product #	Description	Each Price	Quantity Price	Packaging
 WTR-RCF-7	Components: (3) 7 Foot Carbon Fiber Straps (2) Tubes of Rhino Epoxy Adhesive (3) Sill Plate Brackets (3) Shear Pin Kits Bolts, washers, epoxy nozzle, gloves and instructions.			
 WTR-RCF-8	Components: (3) 8.5 Foot Carbon Fiber Straps (2) Tubes of Rhino Epoxy Adhesive (3) Sill Plate Brackets (3) Shear Pin Kits Bolts, washers, epoxy nozzle, gloves and instructions.			
 WTR-RCF-9	Components: (3) 9.5 Foot Carbon Fiber Straps (2) Tubes of Rhino Epoxy Adhesive (3) Sill Plate Brackets (3) Shear Pin Kits Bolts, washers, epoxy nozzle, gloves and instructions.			
 WTR-RCF-10	Components: (3) 10.5 Foot Carbon Fiber Straps (3) Tubes of Rhino Epoxy Adhesive (3) Sill Plate Brackets (3) Shear Pin Kits Bolts, washers, epoxy nozzle, gloves and instructions.			
 WTR-RCF-CNR	Components: (4) 10 Foot Rhino Carbon Fiber Straps (4) Tubes of Rhino Epoxy Adhesive Static Epoxy Nozzle, Gloves and Instructions.			






Carbon Fiber Repair

ECP Product #	Description	Each Price	Quantity Price	Packaging
 WTR-RCF-CRK	Crack Repair Kit Components: (1) 9.5' of 12" Wide Carbon Fiber (2) Tubes of Rhino Epoxy Adhesive Static Epoxy Nozzle, Gloves and Instructions.			
 WTR-RCF-8BD	Crack Repair Kit Components: (1) 8' of 12" Wide Carbon Fiber (2) Tubes of Rhino Epoxy Adhesive Static Epoxy Nozzle, Gloves and Instructions.			
 WTR-RCF12-164	164' x 12" Bi-directional bulk roll kit with 30 tubes of epoxy			
 WTR-RCF12-164N	164' x 12" Bi-directional bulk roll kit w/o epoxy			
 WTR-RCF-CLK	Crack Lock Kit Components: (20) Concrete Crack Locks (1) Tube Of Rhino High Strength Epoxy Paste, Nozzle, Gloves, Instructions.			
 WTR-RCF-W	Rhino wipes remove epoxy and practically anything from hands and most surfaces.			
 WTR-RCF-EPX	Epoxy adhesive for carbon fiber fabric			
 WTR-RCF-HSP	Epoxy paste for crack lock and void fill.			

Carbon Fiber Repair

ECP Product #	Description	Each Price	Quantity Price	Packaging
	WTR-CFS-12-164B	164' of 660 gsm 12" bidirectional carbon fiber, 30 tubes of CFS Saturant Structural Epoxy, 30 pairs of gloves, 6 trowels		
	WTR-CFS-12-164U	164' of 400 gsm 12" unidirectional carbon fiber, 30 tubes of CFS Saturant Structural Epoxy, 30 pairs of gloves, 6 trowels		
	WTR-CFS-6-164B	164' of 600 gsm Bidirectional 6" carbon fiber, 15 tubes of CFS Saturant Structural Epoxy, 3 trowels, 15 pairs of gloves		
	WTR-CFS-6-164U	164' of 400 gsm unidirectional 6" carbon fiber, 15 tubes of CFS Saturant Structural Epoxy, 3 trowels, 15 pairs of gloves		
	WTR-CFS-4U	54' of 400 gsm unidirectional 6" carbon fiber, 6 tubes of CFS saturant epoxy, 6 SupportLocks 6" long (top connection), 6 CFS SupportBars 18" long (base connection), 6 top plate brackets, 6 lower support bars, lag bolts w/ washers, gloves, putty knife.		
	WTR-CFS-6B	54' of 600 gsm bi-directional 6" carbon fiber, 6 tubes of CFS saturant epoxy, 6 SupportLocks 6" long (top connection), 6 CFS SupportBars 18" long (base connection) 6 top plate brackets, 6 lower support bars, lag bolts w/ washers, gloves, putty knife.		

Carbon Fiber Repair

ECP Product #	Description	Each Price	Quantity Price	Packaging
	WTR-CRKB	(1) 10' of 600 gsm bi-directional 12" carbon fiber, 2 tubes of CFS saturant epoxy, gloves, putty knife		
	WTR-CFS-EPX	Single cartridge of structural epoxy, mixing nozzle, gloves		
	WTR-CFS-EPX12	12 pack of saturant structural epoxy, mixing nozzles, gloves		
	WTR-CFS-HSP	single cartridge of epoxy paste used for leveling, mixing nozzle, gloves		
	WTR-CFS-HSP12	12 pack of epoxy paste used for leveling, mixing nozzles, gloves		

Total Dynamic Head and Sump Pumps

ECP Product #

Description

Each Price

Quantity Price

Packaging

Total Dynamic Head (TDH) = Static Head (SH) + Friction Head (FH)

Determine Static Head

Static Head is the vertical height that the water rises through the discharge pipe.

SH = 10'

Determine Friction Head

Friction Head is "the equivalent length of pipe" plus the actual length of pipe multiplied by the "friction loss" divided by 100.

$$FH = \frac{(EL + VL) FL}{100}$$

Step 1. Determine Equivalent Length of Pipe

The equivalent length of pipe is determined by how many pipe fittings are required in your system.

Step 2. Determine the Vertical Pipe Length

The actual pipe length is the length of pipe running horizontally.

VL = 4'

Step 3. Determine Friction Loss

Friction loss = amount of friction from water moving through the pipe at a determined volume.

FL = 6.74

Now, enter the found values into the TDH equation

$$FH = \frac{(EL + VL) FL}{100} = FH = \frac{(24 + 4) 6.74}{100} = 1.89$$

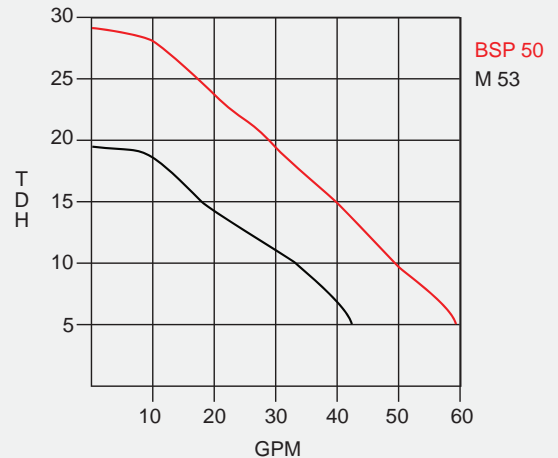
To complete the Total Dynamic Head equation, remember:

Total Dynamic Head = Static Head + Friction Head

$$TDH = 10' + 1.89' = 12'$$

At 12' TDH the BSP50 = 48 GPM and the M53 = 30 GPM

Dynamic Static Head

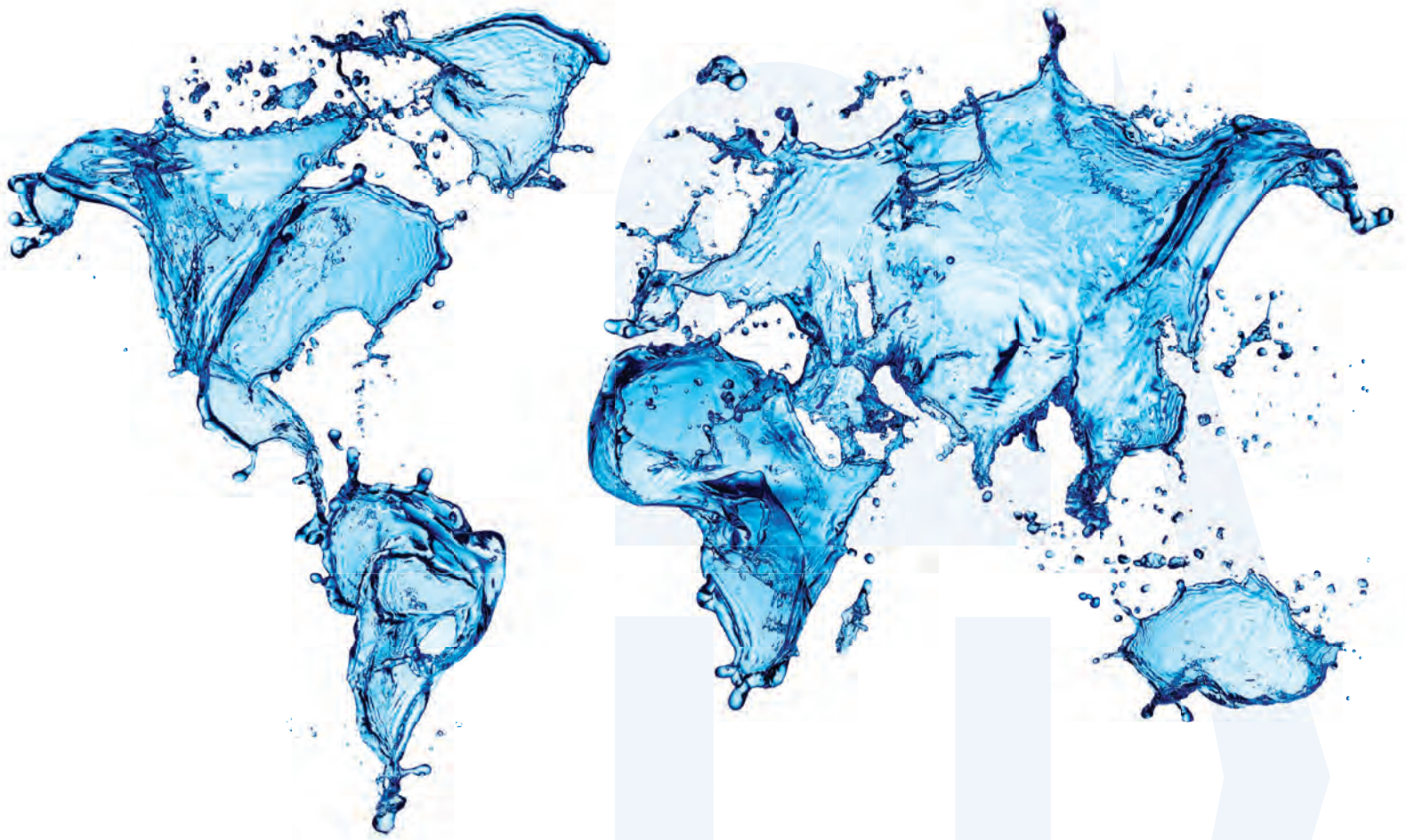


Pipe Fitting Equivalent

	90°	45°	Coupler	T or Wye	Check Valve
1-1/2"	4	2	1.5	8	11.5

Friction Loss of Pipe

GPA	1-1/2"
10	.88
15	1.87
20	3.18
25	4.81
30	6.74



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