



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
COR61543

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
TARA LYLE
304-558-2544

VENDOR

RFQ COPY
 TYPE NAME/ADDRESS HERE

AQUATECH INDUSTRIES INC
5415 LYNN CREEK ROAD
LAVALLETTE, WV 25535

SHIP TO

LAKIN CORRECTIONAL FACILITY

11264 OHIO RIVER ROAD
WEST COLUMBIA, WV
25287 304-558-2036

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
12/13/2011				

BID OPENING DATE: **01/26/2012** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		890-45		
<p>***** PLEASE NOTE THERE IS A MANDATORY PRE-BID MEETING SCHEDULED FOR 01/03/2012 AT 10:30 AM AT THE LAKIN CORRECTIONAL FACILITY LOCATED AT 11264 OHIO RIVER ROAD WEST COLUMBIA, WV 25287. ***** PLEASE NOTE THE DRUG FREE WORKPLACE AFFIDAVIT AND BID BOND ARE REQUIRED WITH BID SUBMISSION. *****</p> <p>WATER SOFTENER SYSTEM</p> <p>THE WEST VIRGINIA PURCHASING DIVISION FOR THE AGENCY, WV DIVISION OF CORRECTIONS, LAKIN CORRECTIONAL CENTER, IS SOLICITING BIDS TO PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO REBUILD THE EXISTING WATER SOFTENER SYSTEM PER THE ATTACHED SPECIFICATIONS.</p> <p>INQUIRIES:</p> <p>WRITTEN QUESTIONS WILL BE ACCEPTED UNTIL CLOSE OF BUSINESS ON 01/10/2012. QUESTIONS MAY BE SENT VIA USPS, FAX, COURIER OR E-MAIL. IN ORDER TO ASSURE NO VENDOR RECEIVES AN UNFAIR ADVANTAGE, NO SUBSTANTIVE QUESTIONS WILL BE ANSWERED ORALLY. IF POSSIBLE, E-MAIL QUESTIONS ARE PREFERRED. ADDRESS INQUIRIES TO:</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Neville R. Wood</i>	TELEPHONE 304-525-9100	DATE FEB 6, 2012
TITLE PRESIDENT	FEIN 14-1963245	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO REQ. INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



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<p>TARA LYLE DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305</p> <p>FAX: 304-558-4115 EMAIL: TARA.L.LYLE@WV.GOV</p> <p style="text-align: center;">MANDATORY PRE-BID</p> <p>A MANDATORY PRE-BID WILL BE HELD ON 01/03/2012 AT 10:30 AM AT THE LAKIN CORRECTIONAL FACILITY LOCATED AT 11264 OHIO RIVER ROAD WEST COLUMBIA, WV 25287. ALL INTERESTED PARTIES ARE REQUIRED TO ATTEND THIS MEETING. FAILURE TO ATTEND THE MANDATORY PRE-BID SHALL RESULT IN DISQUALIFICATION OF THE BID. NO ONE PERSON MAY REPRESENT MORE THAN ONE BIDDER.</p> <p>AN ATTENDANCE SHEET WILL BE MADE AVAILABLE FOR ALL POTENTIAL BIDDERS TO COMPLETE. THIS WILL SERVE AS THE OFFICIAL DOCUMENT VERIFYING ATTENDANCE AT THE MANDATORY PRE-BID. FAILURE TO PROVIDE YOUR COMPANY AND REPRESENTATIVE NAME ON THE ATTENDANCE SHEET WILL RESULT IN DISQUALIFICATION OF THE BID. THE STATE WILL NOT ACCEPT ANY OTHER DOCUMENTATION TO VERIFY ATTENDANCE. THE BIDDER IS RESPONSIBLE FOR ENSURING THEY HAVE COMPLETED THE INFORMATION REQUIRED ON THE ATTENDANCE SHEET. THE PURCHASING DIVISION AND THE STATE AGENCY WILL NOT ASSUME ANY RESPONSIBILITY FOR A BIDDER-S FAILURE TO COMPLETE THE PRE-BID ATTENDANCE SHEET. IN</p>						

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<p>ADDITION, WE REQUEST THAT ALL POTENTIAL BIDDERS INCLUDE THEIR E-MAIL ADDRESS AND FAX NUMBER.</p> <p>ALL POTENTIAL BIDDERS ARE REQUESTED TO ARRIVE PRIOR TO THE STARTING TIME FOR THE PRE-BID. BIDDERS WHO ARRIVE LATE, BUT PRIOR TO THE DISMISSAL OF THE TECHNICAL PORTION OF THE PRE-BID WILL BE PERMITTED TO SIGN IN. BIDDERS WHO ARRIVE AFTER CONCLUSION OF THE TECHNICAL PORTION OF THE PRE-BID, BUT DURING ANY SUBSEQUENT PART OF THE PRE-BID WILL NOT BE PERMITTED TO SIGN THE ATTENDANCE SHEET.</p> <p>THE MODEL/BRAND/SPECIFICATIONS NAMED HEREIN ESTABLISH THE ACCEPTABLE LEVEL OF QUALITY ONLY AND ARE NOT INTENDED TO REFLECT A PREFERENCE OR FAVOR ANY PARTICULAR BRAND OR VENDOR. VENDORS WHO ARE BIDDING ALTERNATES SHOULD SO STATE AND INCLUDE PERTINENT LITERATURE AND SPECIFICATIONS. FAILURE TO PROVIDE INFORMATION FOR ANY ALTERNATES MAY BE GROUNDS FOR REJECTION OF THE BID. THE STATE RESERVES THE RIGHT TO WAIVE MINOR IRREGULARITIES IN BIDS OR SPECIFICATIONS IN ACCORDANCE WITH SECTION 148-1-4(F) OF THE WEST VIRGINIA LEGISLATIVE RULES AND REGULATIONS.</p> <p>EXHIBIT 5</p> <p>WEST VIRGINIA CODE 21-1D-5 PROVIDES THAT: ANY SOLICITATION FOR A PUBLIC IMPROVEMENT CONSTRUCTION CONTRACT REQUIRES EACH VENDOR THAT SUBMITS A BID FOR THE WORK TO SUBMIT AT THE SAME TIME AN AFFIDAVIT OF COMPLIANCE WITH THE BID. THE ENCLOSED DRUG-FREE WORKPLACE AFFIDAVIT MUST BE SIGNED AND SUBMITTED WITH THE BID AS EVIDENCE OF THE VENDOR'S COMPLIANCE WITH THE PROVISIONS OF ARTICLE 1D, CHAPTER 21 OF THE WEST VIRGINIA CODE. FAILURE TO SUBMIT THE SIGNED DRUG-FREE WORKPLACE AFFIDAVIT WITH THE BID SHALL RESULT IN DISQUALIFICATION OF SUCH BID.</p>						

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<p>NOTICE TO PROCEED: THIS CONTRACT IS TO BE PERFORMED WITHIN 60 CALENDAR DAYS AFTER THE NOTICE TO PROCEED IS RECEIVED. UNLESS OTHERWISE SPECIFIED, THE FULLY EXECUTED PURCHASE ORDER WILL BE CONSIDERED NOTICE TO PROCEED.</p> <p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE MATERIALS OR WORKMANSHIP SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM WITH THE SPECIFICATIONS OF THE BID AND CONTRACT HERE IN.</p> <p>WAGE RATES: THE CONTRACTOR OR SUBCONTRACTOR SHALL PAY THE HIGHER OF THE U.S. DEPARTMENT OF LABOR MINIMUM WAGE RATES AS ESTABLISHED FOR MASON COUNTY, PURSUANT TO WEST VIRGINIA CODE 21-5A, ET, SEQ. (PREVAILING WAGE RATES APPLY TO THIS PROJECT)</p> <p>ARBITRATION: ANY REFERENCES MADE TO ARBITRATION OR INTEREST FOR PAYMENTS DUE (EXCEPT FOR ANY INTEREST REQUIRED BY STATE LAW) CONTAINED IN THIS CONTRACT OR IN ANY AMERICAN INSTITUTE OF ARCHITECTS DOCUMENTS PERTAINING TO THIS CONTRACT ARE HEREBY DELETED.</p> <p>WORKERS' COMPENSATION: VENDOR IS REQUIRED TO PROVIDE A CERTIFICATE FROM WORKERS' COMPENSATION IF SUCCESSFUL.</p> <p>ALL OF THE ITEMS CHECKED BELOW WILL BE A REQUIREMENT OF THIS CONTRACT:</p> <p>(XX) INSURANCE: SUCCESSFUL VENDOR SHALL FURNISH PROOF OF COMMERCIAL GENERAL LIABILITY INSURANCE PRIOR TO ISSUANCE OF CONTRACT. UNLESS OTHERWISE SPECIFIED IN THE BID DOCUMENTS, THE MINIMUM AMOUNT OF INSURANCE</p>						

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<p>IN THE CASE OF STEEL ONLY, WHERE THE COST OF STEEL IS MORE THAN \$50,000 OR WHERE MORE THAN 10,000 POUNDS OF STEEL ARE REQUIRED, THE STATE WILL ACCEPT ONLY ALUMINUM GLASS, OR STEEL PRODUCTS PRODUCED IN THE UNITED STATES. IN ADDITION, ITEMS OF MACHINERY OR EQUIPMENT PURCHASED FOR USE AT THE SITE OF PUBLIC WORKS SHALL BE MADE OF DOMESTIC ALUMINUM, GLASS OR STEEL, UNLESS THE COST OF THE PRODUCT IS LESS THAN \$50,000 OR LESS THAN 10,000 POUNDS OF STEEL ARE USED IN PUBLIC WORKS PROJECTS.</p> <p>FOREIGN MADE ALUMINUM, GLASS OR STEEL PRODUCTS MAY BE ACCEPTED ONLY IF THE COST OF DOMESTIC PRODUCTS IS FOUND TO BE UNREASONABLE. SUCH COST IS UNREASONABLE IF IT IS 20% OR MORE HIGHER THAN THE BID PRICE FOR FOREIGN MADE PRODUCTS. IF THE DOMESTIC ALUMINUM, GLASS OR STEEL PRODUCTS TO BE SUPPLIED OR PRODUCED IN A "SUBSTANTIAL LABOR SURPLUS AREA", AS DEFINED BY THE UNITED STATES DEPARTMENT OF LABOR, FOREIGN PRODUCTS MAY BE SUPPLIED ONLY IF DOMESTIC PRODUCTS ARE 30% OR MORE HIGHER IN PRICE THAN THE FOREIGN MADE PRODUCTS.</p> <p>IF, PRIOR TO THE AWARD OF A CONTRACT UNDER THE ABOVE PROVISIONS, THE SPENDING OFFICER OF THE SPENDING UNIT DETERMINES THAT THERE EXISTS A BID FOR LIKE FOREIGN ALUMINUM, GLASS OR STEEL THAT IS REASONABLE AND LOWER THAN THE LOWEST BID DOMESTIC PRODUCTS, THE SPENDING OFFICE MAY REQUEST, IN WRITING, A REEVALUATION AND REDUCTION IN THE LOWEST BID FOR SUCH DOMESTIC PRODUCTS. ALL VENDORS MUST INDICATE IN THEIR BID IF THEY ARE SUPPLYING FOREIGN ALUMINUM, GLASS OR STEEL.</p> <p>REV. 3/88</p> <p>EXHIBIT 9</p>						

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				<p>NOTICE FOR ISSUANCE & ACKNOWLEDGEMENT OF CONSTRUCTION PROJECT ADDENDA</p> <p>THE ARCHITECT/ENGINEER AND/OR AGENCY SHALL BE REQUIRED TO ABIDE BY THE FOLLOWING SCHEDULE IN ISSUING CONSTRUCTION PROJECT ADDENDA FOR STATE AGENCIES:</p> <p>(1) THE ARCHITECT/ENGINEER SHALL PREPARE THE ADDENDUM AND A LIST OF ALL PARTIES THAT HAVE PROCURED DRAWINGS AND SPECIFICATIONS FOR THE PROJECT. THE ADDENDUM AND LIST SHALL BE FORWARDED TO THE BUYER IN THE STATE PURCHASING DIVISION. THE ARCHITECT/ENGINEER SHALL ALSO SEND A COPY OF THE ADDENDUM TO THE STATE AGENCY FOR WHICH THE CONTRACT IS ISSUED.</p> <p>(2) THE BUYER SHALL SEND THE ADDENDUM TO ALL INTERESTED PARTIES AND, IF NECESSARY, EXTEND THE BID OPENING DATE. ANY ADDENDUM SHOULD BE RECEIVED BY THE BUYER WITHIN FOURTEEN (14) DAYS PRIOR TO THE BID OPENING DATE.</p> <p>(3) ALL ADDENDA SHOULD BE FORMALLY ACKNOWLEDGED BY ALL BIDDERS AND SUBMITTED TO THE STATE PURCHASING DIVISION. THE SAME RULES AND REGULATIONS THAT APPLY TO THE ORIGINAL BIDDING DOCUMENT SHALL ALSO APPLY TO AN ADDENDUM DOCUMENT. THE ONLY EXCEPTION MAY BE FOR AN ADDENDUM THAT IS ISSUED FOR THE SOLE PURPOSE OF CHANGING A BID OPENING TIME AND/OR DATE.</p> <p>REV. 11/96</p> <p>EXHIBIT 10</p> <p>ADDENDUM ACKNOWLEDGEMENT</p>		

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<p>I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.</p> <p>ADDENDUM NOS.:</p> <p>NO. 1 ✓ <i>DER</i></p> <p>NO. 2 ✓ <i>DER</i></p> <p>NO. 3</p> <p>NO. 4</p> <p>NO. 5</p> <p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF TH ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF THE BIDS.</p> <p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.</p> <p>..... <i>Nancy E. Galt</i> SIGNATURE</p> <p>..... <i>AQUATECH INDUSTRIES, INC.</i> COMPANY</p> <p>..... <i>FEBRUARY 6, 2012</i> DATE</p> <p>REV. 11/96</p>						

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CONTRACTORS LICENSE						
WEST VIRGINIA STATE CODE 21-11-2 REQUIRES THAT ALL PERSONS DESIRING TO PERFORM CONTRACTING WORK IN THIS STATE MUST BE LICENSED. THE WEST VIRGINIA CONTRACTORS LICENSING BOARD IS EMPOWERED TO ISSUE THE CONTRACTORS LICENSE. APPLICATIONS FOR A CONTRACTORS LICENSE MAY BE MADE BY CONTACTING THE WEST VIRGINIA DIVISION OF LABOR CAPITOL COMPLEX, BUILDING 3, ROOM 319, CHARLESTON, WV 25305. TELEPHONE: (304) 558-7890.						
WEST VIRGINIA STATE CODE 21-11-11 REQUIRES ANY PROSPECTIVE BIDDER TO INCLUDE THE CONTRACTORS LICENSE NUMBER ON THEIR BID.						
BIDDER TO COMPLETE:						
CONTRACTORS NAME: ... <i>DAVID R. RANSBOTTOM</i> ...						
CONTRACTORS LICENSE NO.: ... <i>WV044951</i> ... <i>AL01177</i> ...						
THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FURNISH A COPY OF THEIR CONTRACTORS LICENSE PRIOR TO ISSUANCE OF A PURCHASE ORDER/CONTRACT						
APPLICABLE LAW						
THE WEST VIRGINIA STATE CODE, PURCHASING DIVISION RULES AND REGULATIONS, AND THE INFORMATION PROVIDED IN THE "REQUEST FOR QUOTATION" ISSUED BY THE PURCHASING DIVISION IS THE SOLE AUTHORITY GOVERNING THIS PROCUREMENT.						
ANY INFORMATION PROVIDED IN SPECIFICATION MANUALS, OR ANY OTHER SOURCE, VERBAL OR WRITTEN, WHICH CONTRADICTS						

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<p>OR ALTERS THE INFORMATION PROVIDED FROM THE SOURCES AS DESCRIBED IN THE ABOVE PARAGRAPH IS VOID AND OF NO EFFECT.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.</p> <p>REV. 5/2009</p> <p style="text-align: center;">NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p style="text-align: center;">DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER:-----TL/32-----</p> <p>REQ. NO.:-----COR61543-----</p> <p>BID OPENING DATE:-----01/26/2012-----</p> <p>BID OPENING TIME:-----1:30 PM-----</p>						

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PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID: <i>N/A</i>						
PLEASE PRINT OR TYPE NAME OF PERSON TO CONTACT CONCERNING THIS QUOTE: <i>DAVID R. RANSBOTTOM</i>						
***** THIS IS THE END OF RFQ COR61543 ***** TOTAL:						_____

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COR61543 - REQUEST FOR QUOTATIONS

INSTALL WATER SOFTNER SYSTEM AT LAKIN CORRECTIONAL CENTER, MASON COUNTY, WV

The Lakin Correctional Center (LCC), a West Virginia Division of Corrections Facility (DOC), is soliciting a lump sum quotation to rebuild the existing water softener system.

A mandatory pre-bid conference is scheduled for January 3, 2012 at 10:30 am at the Lakin Correctional Center.

Vendors interested in attending the pre-bid conference need to call and register with the following individual:

Name: Nathan Ball
Phone: 304-674-2440
Email: Nathan.P.Ball@wv.gov

Vendors quoting this project **SHALL** comply with the below Specifications:

SPECIFICATION SECTION 15469 – WATER SOFTENERS

PART 1 – GENERAL

1.1 SUMMARY

- A. At Lakin Correctional Center, there is an existing water softener system. The system is operated by a Fleck Softener System Model 3900. The water softener system must be rebuilt. The water quality contains high levels of hardness and is above the acceptable value of the US Geological Department and the Public Regulations.
- B. All piping and five (5) valves must be replaced and insulated.
- C. The inlets and outlets must be replaced.
- D. There are two water softeners and the Facility only uses one water softener at a time.
- E. After the resin is removed from the containers, it can be put in the Facilities dumpster.
- F. The bypass is going to stay.
- G. If the existing water softener is damaged inside, it will be the responsibility of the contractor to fix/repair the issue via a change order.
- H. If the water must be turned off, the Facility prefers for that to happen the evening time.
- I. The existing water pressure is 80 psi and the hardness is 208.
- J. The fire protection sprinkler system is not on the system, it is on a separate system.

1.2 SUBMITTALS

- A. Product data.
- B. Field test reports.
 - 1. Provide field test reports of all testing of the water softener system.
 - 2. Test reports must comply with all federal, state, local testing requirements, and codes requirements.
- C. Maintenance data.
 - 1. Provide Operations and Maintenance Manual.

1.3 WARRANTY

- A. Provide cost for one (1) year on the system including parts and labor.
- B. Provide alternate cost for four (4) additional years on the system including parts and labor. This is in addition to the one (1) year warranty.
- C. Minimum requirements of the Manufacturer's warranty on equipment and material.

1.4 PERMITS

- A. Contractor shall secure and pay for any required permit and for all other permits, governmental fees, and license which are necessary for the proper execution and completion of the work as specified.

PART II – PRODUCTS

2.1 PRODUCT DATA

PART III – EXECUTION

3.1 INSTALLATION (MUST)

- A. Remove the existing head valves on each unit and replaced with non-corrosive heads and single piston controls.
- B. Re-bed the existing resin tanks with new resin.
- C. Remove the existing brine floats and brine tanks and changed out with new.

- D. Remove the header on the softener valves and re-piped with 3" scheduled 80 PVC pipe.
- E. Install a new outlet manifold piping in resin tank or riser tube/laterals.
- F. All piping, valve heads, and any other items removed that can no longer be used must be removed.

INCLUDED

3.2 TESTING

- A. Comply with all federal, state, and local testing requirements.

3.3 LABELING AND IDENTIFYING

- A. Label all piping.

PART IV – AWARD

- 4.1 This contract will be awarded to the vendor with the lowest base bid meeting all of the specifications with the most complete bid.

RFQ # COR61543**ALL LABOR, MATERIALS, EQUIPMENT, AND SUPPLIES NECESSARY TO
REBUILD THE EXISTING WATER SOFTENER SYSTEM LAKIN CORRECTIONAL
CENTER****MASON COUNTY****BID FORM**

Bidder's Company Name:

AQUATECH INDUSTRIES INC.

Bidder's Address:

5415 LYNN CREEK ROADLAVALETTE, WV 25535

Remittance Address (If different):

"SAME"Phone Number: 304-525-1100 (HOME OFFICE) 304-638-9222 (CELL)Fax Number: N/AEmail Address: DRANSBOTTOM@MSN.COMWV Contractor's License Number: WV044951 P207177

We, the undersigned, hereby propose to furnish all materials, equipment, and labor to complete all work in a workmanlike manner, as described in the Bidding Documents.

TOTAL CONTRACT BID: FIFTY-THOUSAND EIGHT-HUNDRED FIFTY-EIGHT AND $\frac{78}{100}$

(\$ 50,858.78) (Total to be written in words and numbers.)

The Bidder understands that to the extent allowed by the West Virginia Code, the OWNER reserves the right to waive any informality or irregularity in any Bid, or Bids, and to reject any or all Bids in whole or in part; to reject a bid not accompanied by the required bid security or by other data required by the Bidding Documents; to reject any conditions of the bid by the Bidder that is in any way inconsistent with the requirements, terms, and conditions of the Bidding Documents; or to reject a bid that is in any way incomplete or irregular.

Failure to use this bid form will result in automatic disqualification.

BID BOND PREPARATION INSTRUCTIONS

AGENCY (A)
RFQ/RFP# (B)

Bid Bond

- (A) WV State Agency (Stated on Page 1 "Spending Unit") Request for Quotation Number (upper right corner of page #1)
(C) Your Company Name
(D) City, Location of your Company
(E) State, Location of your Company
(F) Surety Corporate Name
(G) City, Location of Surety
(H) State, Location of Surety
(I) State of Surety Incorporation
(J) City of Surety Incorporation
(K) Minimum amount of acceptable bid bond is 5% of total bid. You may state "5% of bid" or a specific amount on this line in words.
(L) Amount of bond in figures
(M) Brief Description of scope of work
(N) Day of the month
(O) Month
(P) Year
(Q) Name of Corporation
(R) Raised Corporate Seal of Principal
(S) Signature of President or Vice President
(T) Title of person signing
(U) Raised Corporate Seal of Surety
(V) Corporate Name of Surety
(W) Signature of Attorney in Fact of the Surety
NOTE: Dated, Power of Attorney with Raised Surety Seal must accompany this bid bond.

KNOW ALL MEN BY THESE PRESENTS, That we, the undersigned, (C) of (D), (E) as Principal, and (F) of (G), (H), a corporation organized and existing under the laws of the State of (I) with its principal office in the City of (J), as Surety, are held and firmly bound unto The State of West Virginia, as Obligee, in the penal sum of (K) (\$ (L)) for the payment of which, well and truly to be made, we jointly and severally bind ourselves, our heirs, administrators, executors, successors and assigns.

The Condition of the above obligation is such that whereas the Principal has submitted to the Purchasing Section of the Department of Administration a certain bid or proposal, attached hereto and made a part hereof to enter into a contract in writing for (M)

NOW THEREFORE.

(a) If said bid shall be rejected, or

(b) If said bid shall be accepted and the Principal shall enter into a contract in accordance with the bid or proposal attached hereto and shall furnish any other bonds and insurance required by the bid or proposal, and shall in all other respects perform the agreement created by the acceptance of said bid then this obligation shall be null and void, otherwise this obligation shall remain in full force and effect. It is expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated

The Surety for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of time within which the Obligee may accept such bid: and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, Principal and Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be affixed hereto and these presents to be signed by their proper officers, this (N) day of (O), 20 (P).

Principal Corporate Seal

(R)

(U) Surety Corporate Seal

(Q) (Name of Principal)
By (S) (Must be President or Vice President)
(T) Title
(V) (Name of Surety)
(W) Attorney-in-Fact

IMPORTANT - Surety executing bonds must be licensed in West Virginia to transact surety insurance. Raised Corporate Seals must be affixed and a Power of Attorney must be attached.

Agency _____
REQ.P.O# _____

BID BOND

KNOW ALL MEN BY THESE PRESENTS, That we, the undersigned, _____
_____ of _____, _____, as Principal, and _____
_____ of _____, _____, a corporation organized and existing under the laws of the State of _____
_____ with its principal office in the City of _____, as Surety, are held and firmly bound unto the State
of West Virginia, as Obligee, in the penal sum of _____ (\$ _____) for the payment of which,
well and truly to be made, we jointly and severally bind ourselves, our heirs, administrators, executors, successors and assigns.

The Condition of the above obligation is such that whereas the Principal has submitted to the Purchasing Section of the
Department of Administration a certain bid or proposal, attached hereto and made a part hereof, to enter into a contract in writing for

NOW THEREFORE,

- (a) If said bid shall be rejected, or
- (b) If said bid shall be accepted and the Principal shall enter into a contract in accordance with the bid or proposal attached
hereto and shall furnish any other bonds and insurance required by the bid or proposal, and shall in all other respects perform the
agreement created by the acceptance of said bid, then this obligation shall be null and void, otherwise this obligation shall remain in full
force and effect. It is expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event,
exceed the penal amount of this obligation as herein stated.

The Surety, for the value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no
way impaired or affected by any extension of the time within which the Obligee may accept such bid, and said Surety does hereby
waive notice of any such extension.

IN WITNESS WHEREOF, Principal and Surety have hereunto set their hands and seals, and such of them as are corporations
have caused their corporate seals to be affixed hereunto and these presents to be signed by their proper officers, this
_____ day of _____, 20____.

Principal Corporate Seal

(Name of Principal)

By _____
(Must be President or
Vice President)

(Title)

Surety Corporate Seal

(Name of Surety)

Attorney-in-Fact

**IMPORTANT – Surety executing bonds must be licensed in West Virginia to transact surety insurance. Raised corporate seals
must be affixed, a power of attorney must be attached.**



State of West Virginia
DRUG FREE WORKPLACE CONFORMANCE AFFIDAVIT
West Virginia Code §21-1D-5

STATE OF WEST VIRGINIA

COUNTY OF WAYNE, TO-WIT:

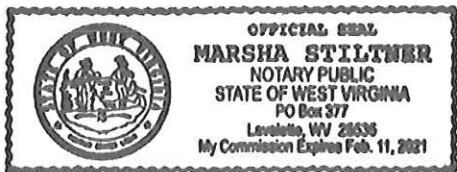
I, DAVID R. RANSBOTHAM, after being first duly sworn, depose and state as follows:

- 1. I am an employee of AQUATECH INDUSTRIES INC.; and,
(Company Name)
- 2. I do hereby attest that AQUATECH INDUSTRIES INC.
(Company Name)

maintains a valid written drug free workplace policy and that such policy is in compliance with **West Virginia Code** §21-1D-5.

The above statements are sworn to under the penalty of perjury.

AQUATECH INDUSTRIES INC.
(Company Name)



By: David R. Ransbotham

Title: PRESIDENT

Date: FEBRUARY 6, 2012

Taken, subscribed and sworn to before me this 6 day of February.

By Commission expires Feb. 11, 2021

(Seal)

Marsha Stiltnier
(Notary Public)

THIS AFFIDAVIT MUST BE SUBMITTED WITH THE BID IN ORDER TO COMPLY WITH WV CODE PROVISIONS. FAILURE TO INCLUDE THE AFFIDAVIT WITH THE BID SHALL RESULT IN DISQUALIFICATION OF THE BID.

RFQ No. COR61543

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (*West Virginia Code §61-5-3*), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: AQUATECH INDUSTRIES INC.

Authorized Signature: *David L. Roberts* Date: FEBRUARY 6, 2012

State of WV

County of Wayne, to-wit:

Taken, subscribed, and sworn to before me this 6 day of February, 2012

My Commission expires Feb. 11, 2021, 2021.

AFFIX SEAL HERE

NOTARY PUBLIC *Marsha Stiltner*





State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
COR61543

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
TARA LYLE
304-558-2544

*A13092041 304-525-7100

VENDOR

AQUATECH INDUSTRIES IC
 5415 LYNN CREEK RD

LAVALETTE WV 25535

SHIP TO

LAKIN CORRECTIONAL FACILITY

11264 OHIO RIVER ROAD
 WEST COLUMBIA, WV
 25287 304-558-2036

DATE PRINTED 01/30/2012	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
BID OPENING DATE: 02/09/2012		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 2						
1. QUESTIONS AND ANSWERS ARE ATTACHED.						
2. PRE-BID SIGN IN SHEET ATTACHED.						
3. ADDENDUM ACKNOWLEDGEMENT IS ATTACHED. THIS DOCUMENT SHOULD BE SIGNED AND RETURNED WITH YOUR BID. FAILURE TO SIGN AND RETURN MAY RESULT IN DISQUALIFICATION OF YOUR BID.						
END OF ADDENDUM NO. 2						
0001	1	JB		890-45		<u>\$50,858.78</u>
				WATER SOFTENER SYSTEM		
***** THIS IS THE END OF RFQ COR61543 *****						TOTAL: <u>\$50,858.78</u>

RECEIVED
 2012 FEB -8 A 9:55
 PURCHASING DIVISION
 STATE OF WV

SEE REVERSE SIDE FOR TERMS AND CONDITIONS			
SIGNATURE <i>David L. ...</i>	TELEPHONE 304-525-7100	DATE FEB. 6, 2012	
TITLE PRESIDENT	FEIN 14-1963245	ADDRESS CHANGES TO BE NOTED ABOVE	

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

EXHIBIT 10

REQUISITION NO.:

ADDENDUM ACKNOWLEDGEMENT

I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED
ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY
PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.

ADDENDUM NO.'S:

NO. 1 ✓ ORR

NO. 2 ✓ ORR

NO. 3

NO. 4

NO. 5

I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE
ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS. VENDOR
MUST CLEARLY UNDERSTAND THAT ANY VERBAL
REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY
ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES
AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE
INFORMATION ISSUED IN WRITING AND ADDED TO THE
SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.

.....
SIGNATURE

.....
COMPANY

.....
DATE

THIS DOCUMENT CONTAINS A WATERMARK ON THE BACK. THE FRONT OF THE DOCUMENT HAS A MICRO-PRINT SIGNATURE LINE. ABSENCE OF THESE FEATURES WILL INDICATE A COPY.

Cashier's Check

The Huntington National Bank
Columbus, Ohio 43219



No. 1251819472

25-2
440

Remitter DAVID RANSEBOTTOM

Date 02/07/12

066805-42

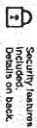
Pay \$2,542 DOLLARS & 94 CTS

\$ 2,542.94

To the Order Of

STATE OF WEST VIRGINIA
COR 61543

Drawer: The Huntington National Bank
Columbus, Ohio 43219



Security Features
Included
Details on back.

BY

Authorized Signer

MP

DRAWEE: The Huntington National Bank
Columbus, Ohio 43219

AQUATECH INDUSTRIES INC.

WATER TREATMENT SYSTEMS AND SOLUTIONS

February 7, 2012

Tara Lyle
State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
P. O. Box 50130
Charleston, WV 25305-0130

RFQ: COR 61543

PROPOSAL FOR LAKIN CORRECTIONAL FACILITY WATER SOFTENER REBUILD

CONTROL VALVE REPLACEMENT

We propose to replace the existing Fleck 3900 control valves with new Fleck 3900/1800/NXT System 14 valves. These valves are basically the same type and style valve with the exception of programmable electronic timers and switching. The system 14 indicates that the valves will alternate service of the two (2) softeners, but will also act as a demand type system. Demand recall will allow for one unit to be in service with the second unit in regeneration or stand-by. If the demand (programmable) is exceeded for the on-line unit, the standby unit will come on-line to pick up the additional flow rate required to meet the additional demand. Once the demand is satisfied and decreases the standby unit will return to the standby mode, until needed to meet a higher flow rate demand again.

WATER METER REPLACEMENT

Each 3900/1800/NXT will be monitored and controlled individually with a 3" electronic water meter. The meters will measure the amount of water used and signal an exhausted unit to regenerate based on water usage (programmable). The meters also monitor the water flow to adjust to the demand recall (programmable) described above.

RESIN REPLACEMENT and UNDERBED (GRAVEL) REPLACEMENT

The resin we propose is PUROLITE SST-60. This is really a high capacity resin. SST-60 can be regenerated with 20-25% less salt than other conventional resins and still have the same total exchange capacity. Exchange capacity is only one benefit. Other advantages is less rinse times which is less water wasted for disposal and the disposal cost. SST-60 is also more resistant to degradation from chlorine attack, which is the most common problem that affect the life of a water softener. We will also install new support gravel under bedding before the resin. We will use two (2) grades of gravel support in each unit. Based on information obtained from the facility this could result in a minimum savings of 10,000# of salt, or nearly \$ 2,000.00 per year.

5415 LYNN CREEK ROAD
HOME: 304-525-7100

LAVALETTE, WV 25535
MOBILE: 304-638-9222

RFQ: COR 61543

**PROPOSAL FOR LAKIN CORRECTIONAL FACILITY
WATER SOFTENER REBUILD**

HUB AND LATERAL DISTRIBUTOR SYSTEM

New Bayonet style hub and lateral distributor system will be installed in each resin tank, including a new riser tube. The Bayonet style is a commercial grade hub and lateral design made of reinforced type polypropylene.

BRINE FLOAT ASSEMBLY

We will install a new ¾" brine float assembly to control proper brine draw and refill of the existing brine tank. This assembly will allow for proper brine draw during regeneration and has a safety float to prevent over filling of the brine tank.

**ADDITIONAL ITEM
PIPE, VALVES AND FITTINGS**

The most extensive part of this project will be the installation of new pipe, valves and fittings. We will replace the required pipe and fittings with Schedule 80 socket weld fittings. We recommend that the by-pass valve and the inlet/outlet valves for both units be brass ball valves or 3" flanged butterfly valves. Using 3" Schedule 80 PVC ball valves is not a good idea. Even though they are extremely corrosion resistant, they are also very susceptible to seizing after being in service for even short periods of time. Once they seize, whether open or closed they are almost impossible to operate.

SHUTTING WATER SUPPLY OFF

To accomplish the task of replacing all pipe, valves and fittings with new Schedule 80 PVC will require that the water supply to the facility be shut down temporarily. Once the system is shut down we only have a few hours to install a new by-pass and service valve connection to get the system back on according to the facilities requirements. We plan to visit the project site again before any work is started to assess exactly the items needed to accomplish this task effectively and in the time required. All fittings and valves necessary to complete the tie-ins will be shop assembled and ready for installation. It may be possible to do the by-pass tie in in one night, but we actually think we will have to shut the water system down two (2) separate nights to do the tie ins properly and maintain a proper water supply for the correctional facility.

PIPE INSULATION AND LABELING

Once all pipe, valves and fittings have been installed and the system is operational with no leaks we will install new insulation on all pipe, valves and fittings a required. We will also apply new identifying labels for the water supply, by-pass and softener inlet/outlet for both units.

WARRANTY

Standard manufacturers warranty will apply for all new items installed. This includes all new parts and components of this contract as bid. All parts and components bid with this project are covered for defects in material and workmanship for a period of one year. None of the parts or components are covered by any labor considerations. Failure of any component from normal operation is considered normal wear and tear and is not warranted by any of the manufacturers or by AQUATECH INDUSTRIES, INC.

RFQ: COR 61543

**PROPOSAL FOR LAKIN CORRECTIONAL FACILITY
WATER SOFTENER REBUILD**

COMPLETION OF PROJECT

Once material is ordered, which is normally two (2) weeks, and on hand we expect the project to be completed within an additional two (2) weeks.

DELIVERY

Once we receive the order to proceed all material will be ordered and shipped to our facilities. We will deliver material to the facility as needed with our own service vehicles. No material will need to be stored except for material we will be using during the project.

FREIGHT TERMS

All freight is prepaid and is included in all bid pricing. No additional freight or handling charges will be incurred.

ADDITIONAL SERVICES PROVIDED

We will, as an added service, provide you with one day of class room instruction for any personnel you wish to have knowledge of the water softening units and the operation of the system. The class room instruction will give your personnel the knowledge of basic water softening. Once the class room instruction is completed we will give your personnel some hands on operating instruction and trouble shooting guidance. These systems can be complicated, but with the proper instruction and information many problems can be solved on site with your personnel. AQUATECH INDUSTRIES, INC. is always available to assist you with your water softening requirements. We also have a reliable supply of parts for most any Fleck control valve, including most electronic timer assemblies and normal parts for routine service.

We will provide two (2) sets of operating and parts manual with typical trouble shooting guides. We will provide, if needed, an easy to use Hach field test kit for total hardness testing of the system. This kit will run 100 test, plus we will supply additional reagents for the first year of operation.

ALTERNATE BID #1

This is for the additional four (4) years of parts and service. We will provide this as stated in original contract We can provide any and all parts, service and repairs for this softener system. AQUATECH INDUSTRIES, INC. maintains a reliable supply of normal parts for repair of many types and sizes of Fleck valves. (see Itemized Price Sheet and Bid

RFQ: COR 61543

**PROPOSAL FOR LAKIN CORRECTIONAL FACILITY
WATER SOFTENER REBUILD**

ESTIMATED PROJECT SCHEDULE

Our expected project schedule from start to completion of this project will be as follows: This schedule is after all material is received and ready to begin which is normally about two (2) weeks.

- Day 1 Shut down facility water supply and do first connection of new by-pass and service valve inlets.*
- Day 2 Shut down facility water supply and complete by pass outlet and outlet valves for softeners.*
- Day 3 & 4 Remove resin, gravel and old distributor assembly from softener tanks.
Install new hub/lateral distributor assemblies.
Install new support gravel and resin in both units.*
- Day 5 Install new control valve heads, including new rubber 'O' Ring gaskets for top flange adapter.
Install new SS flange bolts, washers and nuts as needed. Start connecting piping to inlet/outlet
of water softener units.*
- Day 6 Finish inlet/outlet connections to the softener units. Install and calibrate new safety brine float
assembly. Begin start-up of softeners, programming, adjusting all flow rates, timing cycles and
and controls.*
- Day 7 Finish any start-up needed. Recheck all programming for alternating service and demand recall.

We will actually run both units through the regeneration cycles to confirm proper cycle times
needed and that the units are making soft water.*
- Day 8 Complete piping insulation and pipe markings.*
- Day 9 We will provide hands on instruction for your operating personnel.*

RFQ: COR61543

LAKIN CORRECTIONAL FACILITY WATER SOFTENER REBUILD

ESTIMATED BILL OF MATERIALS - SOFTENER PARTS

2	3900/1800/NXT	3" ELECTRONIC SOFTENER VALVE
2	60617	3" ELECTRONIC WATER METERS
2	60711	2" BACKWASH FLOW CONTROLS
2	5673	3" BAYONET STYLE HUB & LATERALS
2	10566	FLANGE ADAPTER X 4"-8UN THREAD
2		SETS (12/SET) 1/2" SS TANK FLANGE NUTS, BOLTS
50		FT3 PUROLITE SST-60 ION EXCHANGE RESIN
800		POUNDS, SUPPORT GRAVEL 1/2 x 1/4 & 1/4 x 1/8"
1		BRINE SAFETY FLOAT ASSEMBLY

RESIN, GRAVEL AND OLD DISTRIBUTOR REMOVAL

1	REMOVAL OF RESIN AND ALL INTERNAL COMPONENTS
---	--

ESTIMATED BILL OF MATERIALS - PIPE, VALVES AND FITTINGS

2	3" HYMAX BAND CONNECTORS
3	3" COPPER SWEAT FLANGE
4	3" BRASS THREADED FLANGE
5	3" BRASS THREADED BALL VALVE
4	3" BRASS THREADED UNION
12	3" BRASS THREADED NIPPLES
3	3" SCH 80 PVC PIPE (20 FT. JOINTS)
16	3" SCH 80 PVC SW FLANGE
4	3" SCH 80 PVC SW UNION
6	3" SCH 80 PVC SW TEE
6	3" SCH 80 PVC SW EL 90
2	2" SCH 80 PVC PIPE (20 FT. JOINTS)
2	2" SCH 80 PVC TEE
6	2" SCH 80 PVC EL 90
3	2" SCH 80 PVC UNION
2	2" SCH 80 PVC FEMALE ADAPTERS
1	LOT PIPE INSULATION AN PIPE MARKINGS
1	MISC. PIPE HANGERS, FLANGE PACKS, ETC.

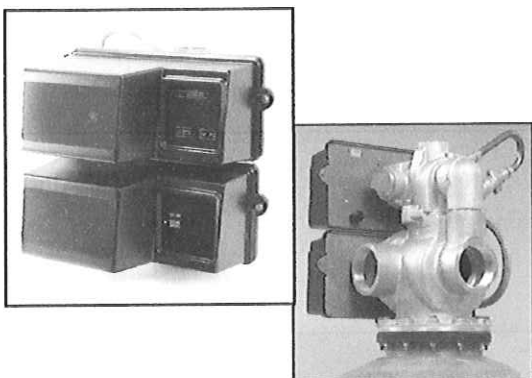
PREPAID FREIGHT

LABOR

4	SOFTENER REBUILD	\$41,258.78
	ADDITIONAL FOUR YEAR WARRANTY	\$9,600.00
	TOTAL BID PRICE	\$50,858.78

Model 3900

3" Control Valve



Features

- Fully adjustable, 5-cycle control delivers upflow back wash, downflow brining, slow rinse, rapid rinse and down flow service
- Designed for single tank or multi-tank systems, alternating or interlocking
- Continuous flow rate of 250 GPM
- Protective NEMA 3R enclosure is water-resistant, corrosion-resistant, and UV stable
- Choice of 7 or 12 day clock or meter initiated regeneration

Options

- Meter delayed or immediate initiated regeneration
- Upflow regeneration
- Service valve operator
- No hard water bypass
- Auxiliary switches
- Side mount

Valve Specifications

Valve material	Lead-free brass*
Inlet/Outlet	3" NPT
Cycles	5

Flow Rates (50 psi Inlet) - Valve Alone

Flow rate (50 psi Inlet)	Top mount
Continuous (15 psi drop)	250 GPM
Peak (25 psi drop)	325 GPM
Cv (flow at 1 psi drop)	65
Max. backwash (25 psi drop)	100 GPM

Regeneration

Downflow/Upflow	Both
Adjustable cycles	Yes
Time available	Electromechanical: 164 minutes 3200NXT: 240 minutes per cycle 3214NXT: 240 minutes per cycle XT: 240 minutes per cycle

Meter Information

Meter accuracy	7 - 300 GPM +/- 5%
Meter capacity range (gal.)	Standard: 3,750 - 63,750 Extended: 18,750 - 318,750 3200NXT: 9,900,000 3214NXT: 9,900,000 XT: 9,900,000

Dimensions

Distributor pilot	3" O.D.
Drain line	2" NPTF
Injector brine system	1"
Mounting base	Top: 6" - 8 threaded or flanged
Height from top of tank	15"

Additional Information

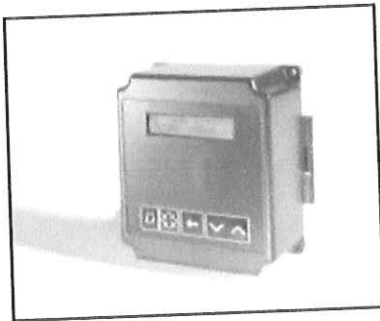
Electrical rating	24 v, 110 v, 200 v - 50 Hz, 60 Hz
Estimated shipping weight	Time clock: 93 lbs. Metered value: 115 lbs.
Pressure	Hydrostatic: 300 psi Working: 20 - 125 psi
Temperature	34° - 110° F

* As defined in the U.S. EPA Safe Drinking Water Act; the product also meets California Proposition 65 Standards



Model 3214NXT

Demand Flow Network Controller



The 3214NXT Demand Flow Network Controller is available to configure with all commercial Fleck® 2750, 2850, 2900, 3150, and 3900 Control Valves. This demand flow system can be programmed to bring multiple units to the service position and back to standby based on system demand flow. The 3214NXT Demand Flow Network Controller uses on-board communication capabilities to link multiple valves via standard CAT3, CAT5, or better communication cables.

Features

- Network two to four valves
- Simple, on-site network programming
- Easy installation with plug-in wiring harnesses
- Shift key allows digit selecting in programming
- 2x16 character LCD backlit display (letter or digit codes not needed)
- Valve, piston, and cam type default storage
- User and master programming modes
- Diagnostic mode:
 - Current flow rate
 - Peak flow rate (can be reset)
 - Totalizer (can be reset)
 - Hours between last two regenerations
 - Hours since last regeneration
 - Volume remaining (adjustable)
 - Valve addresses

Options

- CAT 3 networking cable kit
- Remote lock
- Programmable for Fleck® and generic meters
- Programmable auxiliary relay output:
 - Dry contact relay (fused at 3 amps)
 - Program entire regeneration or during any part of regeneration
 - Chemical pump output (volume and time)

Three programming levels

- User mode
- Master programming
- Diagnostic mode

System Types

System Type 14	2 - 4 Valves (meter on each valve)
----------------	------------------------------------

Regenerant Flow

Downflow, Upflow Brine Draw First, Upflow Refill First

Regeneration Type

Meter Immediate

Generic Meter Guidelines

Open collector output.

Board will sink up to 1-mA @ 5 V DC.

Support for meter outputs in the range of 1-255 gallons (25.5 m³) for every 1-255 pulses. Example: 35 gallons/100 pulses (= 3.5 gallons/10 pulses, = 0.35 gallons/1 pulse).

Electrical Rating

24 VAC Pentair® Transformers:

115 VAC +/- 20% input, 24 VAC output

230 VAC +/- 20% input, 24 VAC output

Humidity

95% RH, Non-Condensing

Meters

A metered softener is the most efficient method of monitoring water usage and initiating timely regenerations. It can result in salt savings.

Average to extreme water hardness indicates the use of a standard range meter, while lower than average water hardness indicates the use of an extended range meter.

- Demand regeneration yields benefits on virtually any system. Available in sizes from 3/4" to 3", including standard or extended range as well as Remote Reset meters. Econominder controls can be used with single or multiple tank softeners with application ranges from 125 to 63,750 gallons (standard range), and 625 to 318,750 (extended range) requiring immediate or delayed regeneration.
- Made of lead-free brass or tough, corrosion-resistant Noryl[®] to provide dependable service.
- Simple and sound mechanical design has only one in-stream moving part - the meter impeller. Flow accuracy range is +/- 5% from 0.25-300 GPM. Cv range is 6.8-135 GPM.
- Water flow drives mechanics - meter registers even during power outages.
- Meter is on conditioned water.

Residential Applications

Residential applications include those households with large volume water usage, increasing or decreasing water usage or situations demanding soft water 100% of the time.



Commercial/Industrial Applications

System 4 (Single tank with meter control)

Delayed regeneration: When meter zeros out, unit remains in service until 2:00 a.m., then regenerates automatically.

Immediate regeneration: When meter zeros out, unit goes immediately into regeneration.

System 5 - Interlock (Two to five tanks with metered control)

All units in service at the same time. When one meter zeros out, that unit starts regeneration. Other units remain in service even if they zero out during this time.

System 6 - Series (Two to five tanks with controls, one Remote Reset meter)

All units in service at the same time. The Remote Reset meter monitors the entire system's capacity. When meter zeros out, the "lead" unit regenerates. Upon returning to service, subsequent units regenerate as needed.

System 7 - Alternating (Two to five tanks with controls, one Remote Reset meter)

One unit is on stand-by and all other units are in service. When meter zeros out, the stand-by unit goes into service, and one of the units in service goes into a regeneration cycle.

Remote Reset Meters

Remote Reset meters, although available for any commercial/industrial installation, are generally used to signal regenerations on series or alternating multiple tank systems. Remote Reset meter options include immediate or delayed regeneration, and standard or extended range.

Inlet/Outlet	Max. Flow Rate	Pressure Drop @ Max. Flow Rate	Accuracy Range +/- 5%	Standard Range	Extended Range	Cv	Valve Compatibility
3/4"	15 GPM	4.9 psi	.25 - 15 GPM	125 - 2,125 gal.	625 - 10,625 gal.	6.8	1500, 2500, 2700, 5000, 5600, 6600, 6700, 8500, 9000
3/4" turbine	15 GPM	2.3 psi	.25 - 15 GPM	1 - 9,999,999 gal.	N/A	10	5600SE, 6700, TwinFlo100
1"	40 GPM	5.0 psi	.7 - 40 GPM	310 - 5,270 gal.	1,550 - 26,350 gal.	18	2750, 9000
1 1/2"	75 GPM	5.0 psi	1.5 - 75 GPM	625 - 10,625 gal.	3,125 - 53,125 gal.	36	2850, 9500
2"	150 GPM	4.6 psi	3.0 - 150 GPM	1,250 - 21,250 gal.	6,250 - 106,250 gal.	70	2900, 3150
3"	300 GPM	5.0 psi	7.0 - 300 GPM	3,750 - 63,750 gal.	18,750 - 318,750 gal.	100	3900

SST-60

Salt Saving Technology
Softening Resin

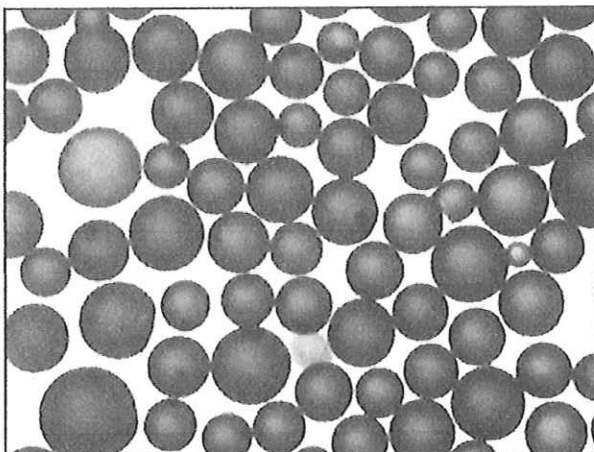
Technical Data

PRODUCT DESCRIPTION

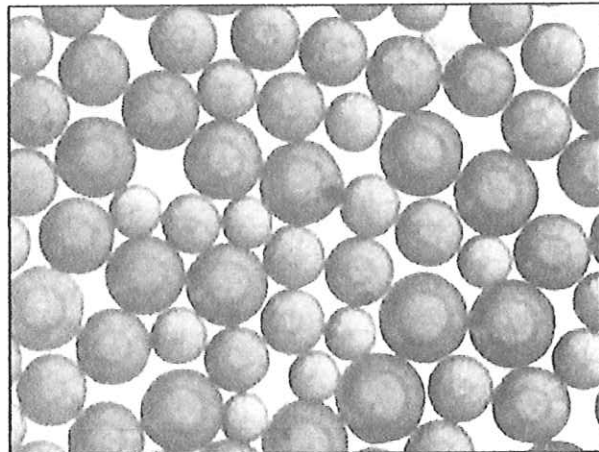
The Purolite SST family of high efficiency softening resins is based on shallow shell technology. Simply stated, the shorter the diffusion path, the more rapid the softening exchange occurs. This is particularly important during regeneration. Reducing the depth of penetration required to cleanse the resin allows for a more complete regeneration and provides a higher, more efficient utilization of the regenerant. The result is a group of resins

with unsurpassed salt efficiency, lower leakage, and reduced rinse water requirements. When compared to conventional softening resins, regenerant reductions of 2 to 4 lbs. per cubic foot of resin per regeneration is possible without sacrificing capacity or increasing leakages. This translates to a salt savings of 700 to 1,400 lbs. per cubic foot per year based on daily regenerations.

Typical Physical & Chemical Characteristics	
Polymer Matrix Structure	Polystyrene crosslinked with Divinylbenzene
Physical Form and Appearance	Clear Spherical beads
Whole Bead Count Functional Groups	90% min.
Functional Groups	Polystyrene sulphonate
Ionic Form, as shipped	Na ⁺
% Moisture	38 - 46
Min. Weight Capacity	> 3.8 meq/g
Shipping weight (approx.)	50 lb/ft ³
Particle Size	+1.2 mm < 5%, -0.3 mm < 1%
pH Limits	0 - 14
Specific Gravity, Na ⁺ Form	1.20



PUROLITE C-100 Standard Resin



PUROLITE SST-60 Resin

Under a microscope, **PUROLITE SST** resins look different than other resins. That's because the resins have inert centers. Only the outer shell is functionalized. (See Figure 1)

By shortening the diffusion path (See Figure 2) through the use of shallow shell technology, each resin bead presents the same depth of functionality which leads to more efficient use of regenerant and therefore, better regeneration. This in turn leads to higher capacities, lower leakages and better handling of iron.

PUROLITE SST resins exhibit superior toughness and durability of osmotic shock versus conventional resins. This is key in industrial applications and portable exchange units where the resin sees a lot of physical handling. These resins save water too. The shallow shell technology of **PUROLITE SST** products regenerate with about 50% less water and rinse very quickly to quality.

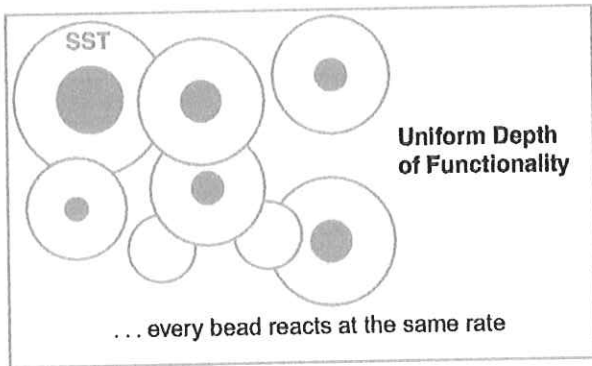


Fig. 1 Uniform Depth of Functionality

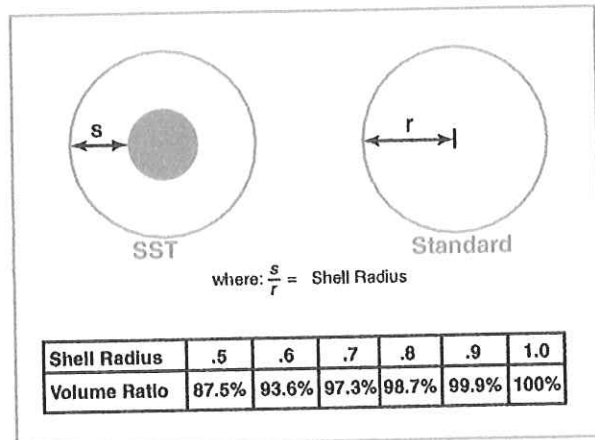


Fig. 2 Diffusion Path

SST-60 ADVANTAGES

- Higher Recovered Capacity Per Pound of Salt
- Lower Leakages at All Regenerant Levels
- Better Iron Removal
- Lower Rinse Requirements
- No equipment Modifications Needed
- Less Susceptible to Iron Fouling
- Shorter Regeneration Cycles
- Superior Physical Strength
- More Resistant to Oxidation
- Non-Solvent Sulfonated

Standard Operating Conditions (Co-current Softening of Water)				
Operation	Rate	Solution	Minutes	Amount
Service	8 - 60 BV/h 1.0 - 7.5 gpm/ft ³	Influent water	per design	per design
Backwash	Refer to Fig. 4	Influent water 5° - 30°C (40° - 80°F)	5 - 20	1.5 - 4 BV 10 - 20 gal/ft ³
Regeneration	2 - 7 BV/h 0.25 - 0.9 gpm/ft ³	8 - 20% NaCl	10 - 30	32 - 340 g/l 2 - 15 lb/ft ³
Rinse, (slow)	2 - 7 BV/h 0.25 - 0.90 gpm/ft ³	Influent water	12 - 60	1.5 - 2 BV 10 - 15 gal/ft ³
Rinse, (fast)	8 - 40 BV/h 1.0 - 5.0 gpm/ft ³	Influent water	6 - 30	1 - 5 BV 8 - 40 gal/ft ³

Backwash Expansion 50% to 75%
Design Rising Space 100%
"Gallons" refer to U.S. Gallon = 3.785 liters

Fig. 3 PRESSURE DROP VS FLOW RATE

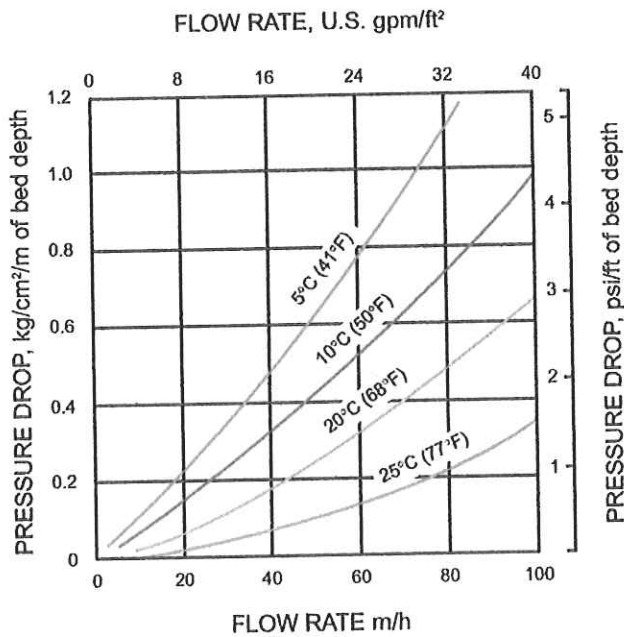
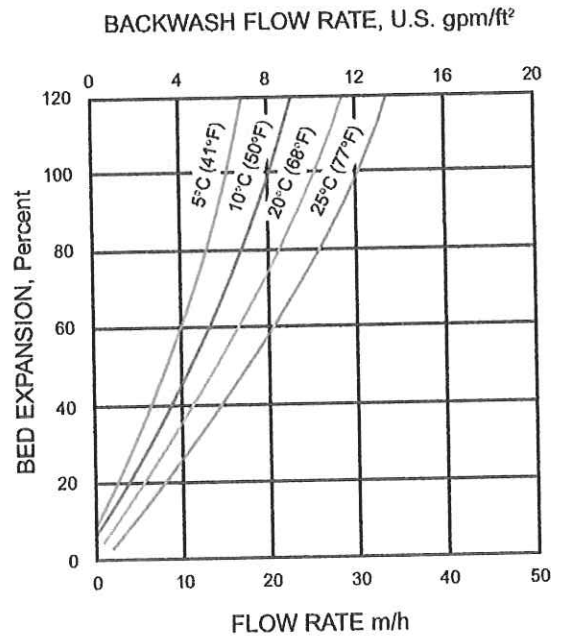
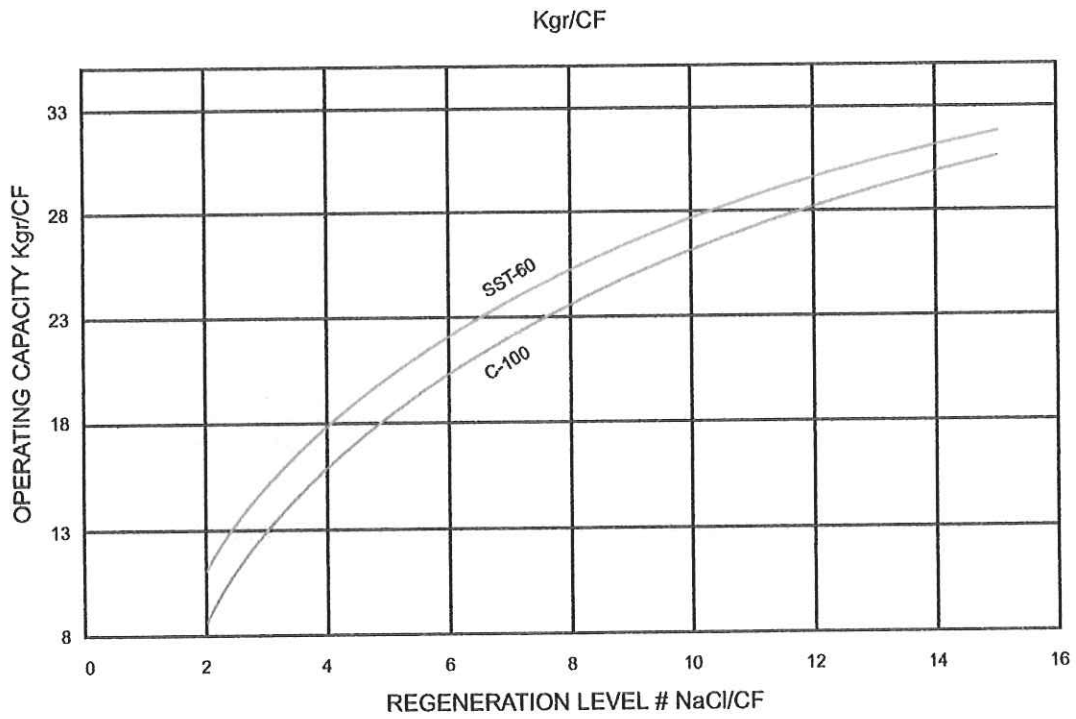


Fig. 4 BACKWASH EXPANSION



PUROLITE SST-60 vs C-100 CAPACITY

Fig. 5 OPERATING CAPACITY

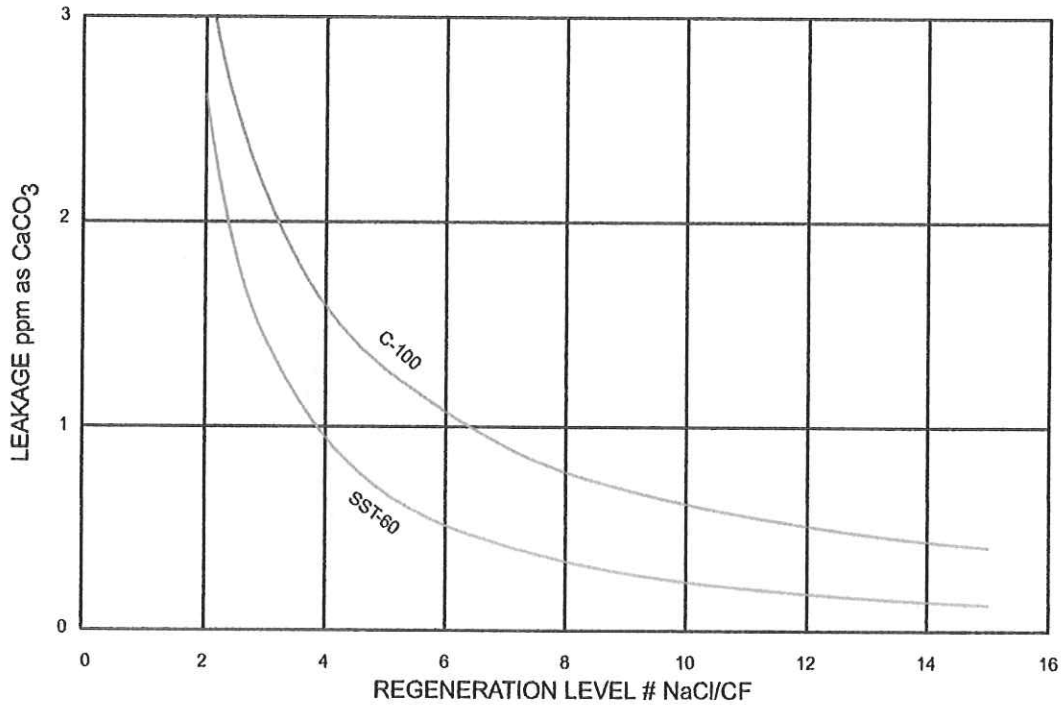


NaCl (#/CF)	SST-60 Op. Cap (Kgr/CF)	C-100 Op. Cap (Kgr/CF)
2	11.2	9.2
3	14.8	12.8
4	18.0	15.2
5	20.0	18.2
6	22.5	19.5
7	24.5	22.3
8	25.0	24.3
9	26.2	25.6
10	27.4	26.9
12	30.0	28.5
15	31.1	29.4

PUROLITE SST-60 vs C-100 LEAKAGE

Fig. 6 LEAKAGE VS. REGENERATION LEVEL

LEAKAGE VS. REGENERATION LEVEL



NaCl (#/CF)	SST-60 Leakage (ppm)	C-100 Leakage (ppm)
2	2.1	3.7
3	1.3	2.1
4	0.9	1.4
5	0.7	1.2
6	0.6	1.1
7	0.5	0.9
8	0.4	0.8
9	0.35	0.7
10	0.3	0.6
12	0.2	0.5
15	0.1	0.4

Fig. 7 SOFTENING CO-FLOW

CAPACITY CORRECTION FOR SODIUM

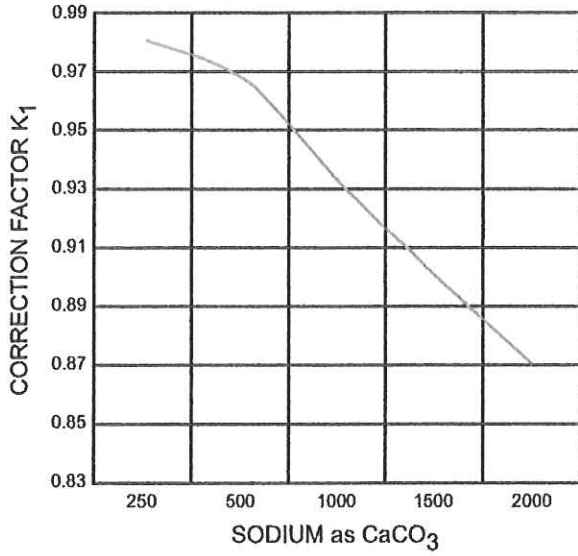


Fig. 8 SOFTENING CO-FLOW

CAPACITY CORRECTION FOR TOTAL HARDNESS

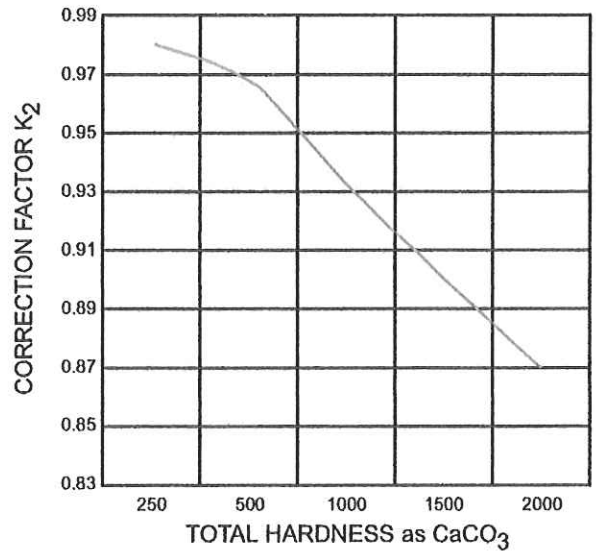


Fig. 9 SOFTENING CO-FLOW

CAPACITY CORRECTION FOR FLOW RATE

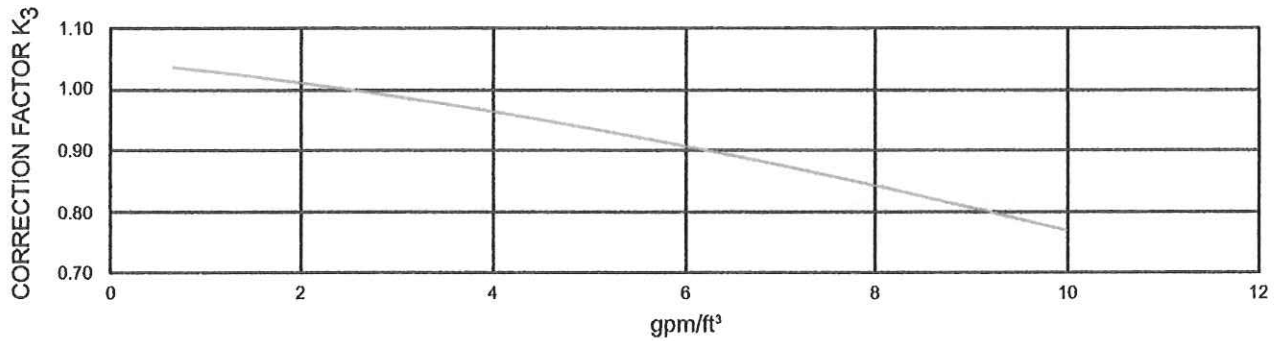
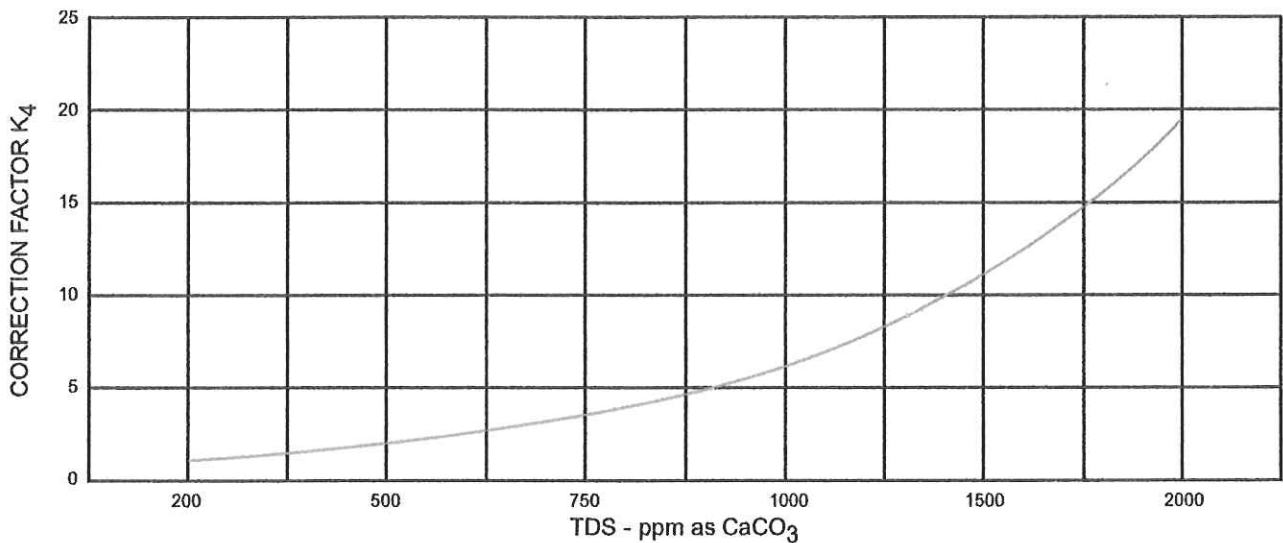


Fig. 10 SOFTENING CO-FLOW

LEAKAGE CORRECTION FOR TDS



Purolite was founded in 1981 and is a leading manufacturer of ion exchange, catalyst, adsorbent and specialty resins. Headquartered in Bala Cynwyd, PA, the company has ISO-9001 certified manufacturing facilities in the USA, China, and Romania and operates dedicated R&D centers in the USA, China, Romania, Russia, and the UK (HQ). Purolite, the only company focused exclusively on the ion exchange market, has 40 sales offices in more than 30 countries.

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