

FIRM PROPOSAL **WATER CHAMP SYSTEM**

Project Name: NE Chlorine Contact Mixing Chamber
Project Location: Clearwater, FL
Proposal No.: 26 WC 001 FV 3
Proposal Date: 22-May-2026
Proposal Expires: 21-Jun-2026

Applications Engineer: Flora Vinson
Sales Manager: Joseph Bonessi
Manufacturer's Rep: Water Treatment & Controls - Pensacola, FL
Contact: Mike Robbins
Phone: 850.474.1805

SCOPE OF SUPPLY

Qty	Description
	Chemical Induction Mixer
1	Water Champ 5FX Chemical Induction Unit, complete with:
	316SS Franklin hi-temp motor, 6" dia. submersible type, 5HP
	titanium construction for all primary wetted components,
	propellor, 25' power cable, 460V/380-415V, 3PH, 60/50Hz
1	ALF assembly for 6" motor, with check valve and 1" male Camlock connection
	for alternate feed point of chemical to induction unit mixing zone.
1	Hose Assembly, 1" x 25 ft., w/ Camlock fittings
1	Spur Gear Winch, 1000 lbs
1	Lift cable, 3166 SS, 5/32" dia x 25 ft.
1	Guide Rail, 316SS, 6-10 ft
1	Guide Rail Cage Assembly (~12ft)
1	Universal Pivot Bracket, fits 6" Motor
1	System Control Panel, 5 HP model, 460V, 3PH, 60Hz input,
	wall-mount, NEMA 4X fiberglass enclosure with viewing window,
	fused disconnect switch, H-O-A switch for local or remote start-stop control,
	motor protection device for detecting and displaying alarm conditions,
	automatic restart for temporary fault conditions, hour meter,
	run and stop lights, dry contacts for alarm and run/stop status
	Spare Parts
1	Motor Filling Kit, Franklin, submers
1	Spare 6" Vacuum Enhancer
2	Enhancer set screws (2 per unit)
1	Spare Hose Assembly, 1" x 25 ft., w/ Camlock fittings

Price (without spare mixers): \$95,638.00

Optional Spare Adder:

Qty	Description
2	Spare Water Champ 5FX Chemical Induction Unit, complete

Spare mixers (adder price): \$59,749.00

SCOPE OF ENGINEERING

The following documentation shall be provided by Evoqua:

- Shop Drawing Submittal
 - Detailed Scope of Supply
 - Comments & Clarifications
 - Project Schedule
 - Technical Information / Equipment / Drawings
 - Catalog Cutsheets
 - Dimensional Drawings / General Assembly Drawings
 - Functional Schematics / Piping and Instrumentation Diagrams (when applicable)
 - Electrical Schematics (when applicable)
 - Control Panel Layouts, Ladder Logic Diagrams (when applicable)
 - Receiving, Handling and Storage
 - Warranty Statement
- Operation and Maintenance Manuals
 - Ordering Information
 - Warranty Statement
 - Introduction
 - Safety Precautions
 - Preventive Maintenance General Information
 - Maintenance Record Card
 - Regional Offices
 - Technical Data
 - Installation
 - Operation
 - Service
 - Illustrations
 - Preventive Maintenance Kits and Spare Parts List
 - Additional Literature

NOTE - In an effort to be environmentally responsible, one (1) hard copy of the submittal and O+M will be supplied and up to eight (8) copies will be supplied on flash drive(s). Additional hardcopies of the submittal and O+M can be supplied at a cost of \$50.00 each.

CLARIFICATIONS & EXCEPTIONS

Section	Part	Description
NOTICE		The scope of supply and pricing are based on Evoqua\Xylem's standard equipment selection, standard terms of sale and warranty terms. Any variations from these standards may affect this quotation.
Application		Only the attached application worksheet & emailed dwgs/photos were available for review during this proposal generation. Therefore, should any additional information or become available, we reserve the right to requote.

ITEMS NOT INCLUDED IN SCOPE

- Mechanical and electrical installation labor
- Civil work including supply of anchor bolts
- Interconnecting piping
- Interconnecting wiring (unless detailed above)
- Valves, fittings, appurtenances not specifically listed above
- Installation supervision
- All taxes, fees, lien waivers, certificates, bonds and licenses
- Room ventilation, air conditioning, or lighting
- Videotaping (unless a videotape agreement is signed)

COMMERCIAL OFFERING

Payment Terms:	20% Due on Approval of Submittals 70% Due on Shipment of Equipment 10% Due on Startup (not to exceed 90 days after Equipment Shipment) All payments are due 30 days from date of invoice and are not subject to retention.
FOB:	Factory
Freight to Job Site:	Included
Submittal:	6-8 weeks after receipt and approval of purchase order
Shipment:	8-10 weeks after receipt of full information and approved drawings (when required)
Startup:	2 days included over 1 trip
Training:	concurrent with startup
Extended Warranty:	Not Included
Firm Price:	<u>\$155,387.00</u>

Other Conditions:

- 1) Evoqua | Xylem proposes to furnish materials, and/or equipment for the project identified at the beginning of this proposal. Any items not shown above as detailed under (i) 'SCOPE OF SUPPLY', (ii) 'SCOPE OF ENGINEERING', or (iii) other attachments to this proposal, are EXCLUDED. In addition:
 - a. Evoqua | Xylem's price will be held valid for a period of 90 days from the date of this proposal ("Proposal Date"); provided, however, in the event (A) Evoqua receives an order from Buyer within 90 days from the Proposal Date and the percentage change in the U.S. Department of Labor Consumer's Price Index (all items) (the "Index") as it existed two months prior to the Proposal Date and the Index as it existed two months preceding the month in which Evoqua receives Buyer's order is greater than 10%, then Evoqua | Xylem shall have the right to reprice this proposal or (B) Buyer's order is received more than 90 days beyond the Proposal Date, then Evoqua | Xylem shall have the right to reprice this proposal.
 - b. Prices are in US Dollars.
 - c. Local or state taxes are not included in this proposal.
- 2) This proposal by Evoqua | Xylem is contingent upon: (i) Evoqua | Xylem's written acceptance of the purchase order or other contractual document issued in response to this proposal; and (ii) Evoqua | Xylem's satisfactory completion of an anti-corruption due diligence review, as applicable; and (iii) the enclosed terms and conditions contained in the following page(s) of this proposal, such terms to take precedence in the event of conflict with any other terms or documents incorporated into the contract arising out of this proposal unless otherwise agreed in writing.
- 3) All of the information supplied by Evoqua|Xylem in connection with this proposal (including drawings, designs and specifications) (the "Information") is confidential and/or proprietary and has been prepared for your use solely in evaluating the purchase of the equipment and/or services described herein. Transmission of all or any part of the Information to others, or use by you for any purpose other than such evaluation, is expressly prohibited without Evoqua | Xylem's prior written consent.
- 4) Please address & send your purchase order to:

Evoqua Water Technologies, LLC | Xylem
725 Wooten Road
Colorado Springs, CO 80915
Attn: Flora Vinson
ph: 719.550.2026
fax: 719.380.9424
email: flora.vinson@xylem.com

Thank you for your interest in Evoqua | Xylem. We are committed to meeting your expectations.

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1. Agreement, Integration and Conflict of Terms. "Proposal" means the Seller's quotation, proposal and/or sales form, including any special conditions expressly incorporated by reference, and these terms and conditions. "Seller" means the applicable affiliate of Xylem Inc. that is party to the Agreement. "Buyer" means the entity that is party to the Agreement with Seller. "Agreement" means the definitive agreement, comprised of the Proposal and any other documents expressly included or incorporated by reference will govern the Buyer and Seller relationship. Seller's Proposal is expressly conditioned on Buyer's acceptance of these terms and conditions. Any additional or different terms and conditions contained in Buyer's purchase order or other communication will have no effect on the Agreement unless specifically agreed to in writing by the parties; and Seller hereby objects, and any such proposed modifications will not constitute Seller's acceptance of any such modifications. Seller's commencement of performance or delivery will not be deemed or construed as acceptance of Buyer's additional or different terms and conditions. In the case of any conflict among the foregoing documents, these terms will take precedence with the exception of (i) price and delivery, which will be governed by the order acknowledgment (if any) and invoice; and (ii) the Warranty, which will be governed by Seller's product documentation. This Agreement supersedes all prior negotiations, representations, or agreements, either written or oral, between the parties and, further, can only be altered, modified or amended with the express written consent of Seller.

2. Proposal, Withdrawal, Expiration. Unless otherwise stated in writing, Proposals are valid for thirty (30) calendar days from the date of issuance, unless otherwise provided therein. Seller reserves the right to cancel or withdraw the Proposal at any time with or without notice or cause prior to acceptance by Buyer to the Proposal terms, or after Buyer's acceptance if Buyer fails to complete any actions required by the Proposal for Seller to proceed. Seller nevertheless reserves its right to accept any contractual documents

received from Buyer after this 30-day period.

3. Prices. Prices apply to the specific quantities stated in the Proposal. Prices include handling fees and standard packing according to Seller's specifications for delivery. Buyer will, as an additional charge, pay all costs and taxes for special packing requested by Buyer, including packing for exports. To the extent allowed under law, prices are subject to change without notice. The price for the goods does not include any applicable sales, use, excise, Goods and Services Tax, Value Added Tax, or similar tax, duties, tariffs, or other governmental charges. Buyer will have the responsibility for the payment of all such applicable levies.

4. Payment Terms. Seller reserves the right to require payment in advance or C.O.D. and otherwise modify credit terms should Buyer's credit standing not meet Seller's acceptance. Unless different payment terms are expressly set forth in the applicable Proposal or order acknowledgment or Sales Policy Manual, goods will be invoiced upon shipment. Buyer's payment must be in Seller's local currency, as determined by Seller's office location to which the order has been submitted. Any payment amount made by Buyer via credit card will be subject to a 3.0% charge. Payment in full is due within thirty (30) days from the invoice date ("Payment Due Date"), unless otherwise stated in Seller's documentation. Any Buyer-requested delivery delay solely affects delivery date and will not in any way alter the original Payment Due Date. If Buyer fails to make payment when due, Buyer agrees that Seller may apply a service or finance charge of the lesser of (i) one and one-half percent (1.5%) per month (eighteen percent (18%) per annum), or (ii) the highest rate permitted by applicable law, on the unpaid balance of the invoice from and after the invoice due date. Buyer is responsible for all costs and expenses associated with any checks returned due to insufficient funds. All credit sales are subject to prior approval of Seller's credit department. Export shipments will require payment prior to shipment or an appropriate Letter of Credit. If, during the

performance of the Agreement, the financial responsibility or condition of Buyer is such that Seller in good faith deems Buyer insecure, Seller may: (a) request financial assurances; (b) suspend performance and will not be obligated to continue performance under the Agreement; (c) stop goods in transit and defer or decline to make delivery of goods, except upon receipt of satisfactory security or cash payments in advance; and/or (d) terminate the order per Article 11. Seller also retains any/all rights to enforce payment defaults to the full price of the work completed and in process. Upon default by Buyer in payment when due, if Buyer fails to immediately and without demand pay to Seller the entire amount in default for any and all shipments made to Buyer, irrespective of the applicable terms and/or contract under which those shipments were as a debt due to Seller, Seller may withhold all subsequent shipments until the full amount in default is settled. Acceptance by Seller of less than full payment will not be a waiver of any of its rights hereunder. Buyer may not assign or transfer this Agreement or any interest in it, or monies payable under it, without the prior written consent of Seller and any assignment made without this consent will be null and void.

5. Title, Delivery, Risk of Loss, Delay. Delivery dates are estimates, and time is not of the essence. Unless otherwise specified by Seller, delivery and transfer of risk of loss for shipments to Buyers that are not Related Party Buyers will be made Ex Works (Incoterms 2020), Seller's plant or Distribution Center. Title will pass when risk of loss transfers. If Seller is required to warehouse or store goods on behalf of Buyer, due to a Buyer delay or request (see Article 23), warehouse and storage fees will be applied and payable upon invoice, as will any required maintenance throughout the delay. Risk of loss for all stored goods will be borne by Buyer from the start of this period. Seller has no obligation to the Buyer to arrange insurance while Buyer's goods are in storage at named place, with all such responsibility and insurance to be borne by Buyer accordingly. Seller will not be responsible to Buyer for any loss, whether direct, indirect, incidental or

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consequential in nature, or for any loss of profits or revenue, or liquidated damages, arising out of or relating to any failure of the goods to be delivered by the specified delivery date. In the absence of specific instructions, Seller will select the carrier. Buyer will reimburse Seller for the additional cost of its performance resulting from inaccurate or lack of delivery instructions, or by any act or omission on Buyer's part. Any such additional cost may include storage, insurance, protection, re-inspection and delivery expenses. Buyer further agrees that any payment due on delivery will be made on delivery into storage as though goods had been delivered in accordance with the order.

"Related Party Buyers" means Buyers, directly or indirectly, owned more than fifty percent (50%) by Xylem Inc. or under significant or joint control by Xylem Inc. For export shipments from the U.S.A. to Related Party Buyers, delivery and transfer of risk of loss for the goods will be DAP (Incoterms 2020), port of destination unless otherwise specified. Related Party Buyer will be importer of record for any customs clearance. For shipments to Related Party Buyers that are not export shipments from the U.S.A., delivery and transfer of risk of loss will be FCA (Incoterms 2020), Seller's plant or Distribution Center unless otherwise specified. For all Related Party Buyer transactions, title will pass to Buyer when risk of loss passes to Buyer.

Buyer grants to Seller a continuing security interest in and a lien upon the goods supplied by Seller under this Agreement and the proceeds thereof (including insurance proceeds), as security for the payment of all such amounts and the performance by Buyer of all of its obligations to Seller under the Agreement and all such other sales, and Buyer will have no right to sell, encumber or dispose of the goods. Buyer's respective insurance policy for any such Seller claim will include a waiver of subrogation in favor of Seller. Buyer will execute any and all financing statements and other documents and instruments and do and perform any and all other acts and things which Seller may consider necessary, desirable, or appropriate to establish, perfect or protect

Seller's title, security interest and lien. In addition, Buyer authorizes Seller and its agents and employees to execute any and all such documents and instruments and do and perform any and all such acts and things, at Buyer's expense, in Buyer's name and on its behalf. Such documents and instruments may also be filed without the signature of Buyer to the extent permitted by law.

6. Warranty. Except as provided above, for goods sold by Seller to Buyer(s) that are used by Buyer for personal, family or household purposes, Seller warrants the goods to Buyer on the terms of Seller's limited warranty available on Seller's website. For any other purpose, Seller warrants that the goods sold to Buyer under the Agreement (with the exception of software, membranes, seals, gaskets, elastomer materials, coatings and other "wear parts" or consumables all of which are not warranted except as otherwise provided in the Proposal) will be (i) built in accordance with the specifications referred to in the Proposal, if such specifications are expressly made a part of the Agreement, and (ii) free from defects in material and workmanship for a period of one (1) year from the date of installation or eighteen (18) months from the date of shipment (which date of shipment will not be greater than thirty (30) days after receipt of notice that the goods are ready to ship), whichever occurs first, unless a longer period is specified in the product documentation (the **"Warranty"**). For services, the warranty period will be three (3) months from the date the services are performed unless otherwise expressly set forth in the Proposal or sales form or order acknowledgment.

Seller will, at its option, either repair or replace any goods which fails to conform with the Warranty; provided, however, that under either option, Seller will not be obligated to remove the defective goods or install the replaced or repaired goods and Buyer will be responsible for all other costs, including service costs, shipping fees and expenses.

Buyer's failure to comply with Seller's repair or replacement advice will constitute a

waiver of Buyer's rights and render all warranties void. Any parts repaired or replaced by Seller under the Warranty are warranted only for the remaining balance of the warranty period. The Warranty is conditioned on Buyer giving written notice to Seller of any defects in material or workmanship of warranted goods within ten (10) days, or shorter period as dictated by the issue, of the date when any defects are first manifest. Seller will have no warranty obligations to Buyer with respect to any goods or parts of the goods that: (a) have been repaired by third parties other than Seller or without Seller's written approval; (b) have been subject to misuse, misapplication, neglect, alteration, accident, or physical damage; (c) have been used in a manner contrary to Seller's instructions for installation, operation and maintenance; (d) have been damaged from ordinary wear and tear, corrosion, or chemical attack; (e) have been damaged due to abnormal conditions, vibration, failure to properly prime, or operation without flow; (f) have been damaged due to a defective power supply or improper electrical protection; (g) have been damaged resulting from the use of accessory equipment not sold by Seller or not approved by Seller in connection with goods supplied by Seller hereunder; or (h) not sold by Seller or its authorized supplier. In any case of goods not manufactured by Seller, there is no warranty from Seller; however, Seller will extend to Buyer any warranty received from Seller's supplier of such goods.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ANY AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES, GUARANTEES, CONDITIONS OR TERMS OF WHATEVER NATURE RELATING TO THE GOODS PROVIDED HEREUNDER, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY EXPRESSLY DISCLAIMED AND EXCLUDED. BUYER'S EXCLUSIVE REMEDY AND SELLER'S AGGREGATE LIABILITY FOR BREACH OF ANY OF THE

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FOREGOING WARRANTIES ARE LIMITED TO REPAIRING OR REPLACING THE GOODS AND WILL IN ALL CASES BE LIMITED TO THE AMOUNT PAID BY THE BUYER HEREUNDER.

7. Inspection. Buyer will have the right to inspect the goods upon their receipt. When delivery is to Buyer's site or to a project site, Buyer will notify Seller in writing of any apparent shipment shortages, damages, or nonconformity of the goods within three (3) days from receipt by Buyer, unless a shorter period is required in Seller's Proposal. For all other deliveries, Buyer will notify Seller in writing of any nonconformity with this Agreement within fourteen (14) days from receipt by Buyer. Failure to give such applicable notice will constitute a waiver of Buyer's right to inspect and/or reject the goods for nonconformity and will be equivalent to an irrevocable acceptance of the goods by Buyer. Claims for loss of or damage to goods in transit must be made to the carrier, and not to Seller unless different terms are expressly set forth in Seller's Proposal

8. SELLER'S LIMITATION OF LIABILITY. EXCEPT AS OTHERWISE PROVIDED BY LAW, IN NO EVENT WILL SELLER'S LIABILITY EXCEED THE AMOUNT PAID BY BUYER UNDER THIS AGREEMENT. SELLER WILL HAVE NO LIABILITY FOR LOSS OF PROFIT, LOSS OF ANTICIPATED SAVINGS OR REVENUE, LOSS OF INCOME, LOSS OF BUSINESS, LOSS OF PRODUCTION, LOSS OF OPPORTUNITY, LOSS OF REPUTATION, LIQUIDATED, INDIRECT, CONSEQUENTIAL, INCIDENTAL, PUNITIVE, TREBLE, OR EXEMPLARY DAMAGES. THE FOREGOING LIMITATIONS OF LIABILITY WILL BE EFFECTIVE WITHOUT REGARD TO SELLER'S ACTS OR OMISSIONS OR NEGLIGENCE OR STRICT LIABILITY IN PERFORMANCE OR NON-PERFORMANCE HEREUNDER.

To the extent the Agreement provides a specified remedy for a default or breach, the given remedy will be Seller's sole liability and Buyer's sole and exclusive remedy for the default or breach to the

exclusion of any and all other remedies that may be available at law, in equity, or otherwise. The terms of this Article 8 survive expiry or termination of the Agreement and prevail over all other provisions contained in the Agreement.

9. USED GOODS. USED GOODS ARE SOLD IN AN AS IS, WHERE IS CONDITION. SELLER MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, AS TO THE NATURE, QUALITY OR CONDITION OF THE GOODS, OR ITS SUITABILITY FOR ANY USE, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, UNLESS EXPRESSLY AGREED UPON IN WRITING BETWEEN THE PARTIES. SELLER WILL HAVE NO LIABILITY TO BUYER HEREUNDER OR IN CONNECTION WITH THE GOODS, INCLUDING WITHOUT LIMITATION, FOR LOSS OF PROFIT, LOSS OF INCOME, LOSS OF PRODUCTION, LOSS OF OPPORTUNITY, INDIRECT, CONSEQUENTIAL, INCIDENTAL, PUNITIVE OR EXEMPLARY DAMAGES.

10. Force Majeure. Seller may cancel, terminate, or suspend this Agreement and Seller will have no liability for any failure to deliver or perform, or for any delay in delivering or performing any obligations, due to acts or omissions of Buyer and/or its contractors, or due to Force Majeure. "Force Majeure" means any event or circumstance beyond Seller's reasonable control, including but not limited to: (A) acts of God, such as natural disasters, drought, fire, flood, earthquake, tsunami; (B) war (declared or undeclared), riots, insurrection, rebellion, acts of the public enemy, acts of terrorism, sabotage, blockades, governmental authorities acts or inactions, embargoes; (C) disease, pandemics, epidemics; (D) currency restrictions; and (E) labor shortages or disputes, unavailability of components, materials, or parts, fuel, power, energy or transportation facilities; failures of suppliers or subcontractors to effect deliveries. In all such cases, the time for performance will be extended in an

amount equal to the period necessary for Seller to recover from the event, provided that Seller will, as soon as reasonably practicable after it has actual knowledge of the beginning of any excusable delay, notify Buyer of the delay and of the anticipated duration and consequence thereof; and, to the extent the Force Majeure impacts the pricing specified in the Proposal or Agreement, as the case may be, Seller will notify Buyer of the revised pricing and its basis. Should Buyer reject any such Force Majeure-related pricing increase, the parties will resolve in accordance with the Agreement's dispute resolution process. Seller will resume performance of its obligations hereunder with the least possible delay.

11. Cancellation; Termination. Except as otherwise provided in this Agreement, no order may be cancelled on special or made-to-order goods or unless otherwise requested in writing by either party and accepted in writing by the other. If a cancellation is requested by Buyer, Buyer will, within thirty (30) days of such cancellation, pay Seller a cancellation fee, which will include all costs and expenses incurred by Seller prior to the receipt of the request for cancellation including, but not limited to, all commitments to its suppliers, subcontractors and others, all fully burdened labor and overhead expended by Seller, plus a reasonable profit charge. Return of goods will be in accordance with Seller's most current Return Materials Authorization and subject to a minimum fifteen percent (15%) restocking fee, unless otherwise specified.

Notwithstanding anything to the contrary in the Agreement, if the commencement by or against Buyer of any voluntary or involuntary proceedings in bankruptcy or insolvency, or if Buyer will be adjudged bankrupt, make a general assignment for the benefit of its creditors, or if a receiver will be appointed on account of Buyer's insolvency, Seller may, upon providing Buyer notice that has immediate effect upon issuance, terminate the Agreement. If Buyer fails to make any payment when due under this Agreement, or if Buyer does not correct or, if immediate correction is not

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possible, commence and diligently continue action to correct any default of Buyer to comply with any of the provisions or requirements of this Agreement within ten (10) calendar days after being notified in writing of such default by Seller, Seller may, by written notice to Buyer, without prejudice to any other rights or remedies which Seller may have, terminate its further performance of this Agreement. If any termination under this Article 11, Seller will be entitled to receive payment as if Buyer has cancelled the Agreement as per the preceding paragraph immediately and without notice as a debt due. Seller may nevertheless elect to complete its performance of this Agreement by any means it chooses. Buyer agrees to be responsible for any additional costs incurred by Seller in so doing. Upon termination of this Agreement, the rights, obligations and liabilities of the parties which will have arisen or been incurred under this Agreement prior to its termination will survive such termination.

12. Drawings. All drawings are the property of Seller. Seller does not supply detailed or shop working drawings of the goods; however, Seller will supply necessary installation drawings. The drawings and bulletin illustrations submitted with Seller's Proposal show general type, arrangement and approximate dimensions of the goods to be furnished for Buyer's information only and Seller makes no representation or warranty regarding their accuracy. Unless expressly stated to the contrary within the Proposal, all drawings, illustrations, specifications or diagrams form no part of this Agreement. Seller reserves the right to alter such details in design or arrangement of its goods which, in its judgment, constitute an improvement in construction, application or operation. After Buyer's acceptance of this Agreement, any changes in the type of goods, the arrangement of the goods, or application of the goods requested by Buyer will be made at Buyer's expense.

13. Confidential Information. Seller's designs, illustrations, drawings, specifications, technical data, catalogues,

"know-how", economic or other business or manufacturing information (collectively, "**Confidential Information**") disclosed to Buyer will be deemed proprietary and confidential to Seller. Buyer agrees not to disclose, use, or reproduce any Confidential Information without first having obtained Seller's written consent. Buyer's agreement to refrain from disclosing, using or reproducing Confidential Information will survive completion of the work under this Agreement. Buyer acknowledges that its improper disclosure of Confidential Information to any third party will result in Seller's suffering irreparable harm. Seller may also seek injunctive or equitable relief to prevent Buyer's unauthorized disclosure.

14. Installation and Start-up. Unless otherwise agreed to in writing by Seller, installation will be the sole responsibility of Buyer. Where start-up service is required with respect to the goods purchased hereunder, it must be performed by Seller's authorized personnel or agents; otherwise, the warranty is void. If Buyer has engaged Seller to provide an engineer for start-up advisory services such engineer will function in an advisory capacity only and Seller will have no responsibility for the quality of workmanship of the installation. In any event, Buyer understands and agrees that it will furnish, at Buyer's expense, all necessary foundations, supplies, labor and facilities that might be required to install and operate the goods.

15. Specifications; Back-charges. Changes in specifications requested by Buyer are subject to Seller's written approval. If such changes are approved, the price for the goods and the delivery schedule will be changed to reflect such changes. Buyer will not make purchases, nor will Buyer incur any labor that would result in a back charge to Seller without prior written consent of an authorized employee of Seller.

16. Buyer's Warranty. Buyer warrants the accuracy of any and all information relating to the details of its operating conditions, including influent quality, temperatures,

pressures, and where applicable, the nature of all hazardous materials. Seller can justifiably rely upon the accuracy of Buyer's information in its performance. Should Buyer's information prove inaccurate, Buyer agrees to reimburse Seller for any losses, liabilities, damages and expenses that Seller may have incurred as a result of any inaccurate information provided by Buyer to Seller.

17. Product Recalls. In cases where Buyer purchases for resale, Buyer will take all reasonable steps (including those measures prescribed by the Seller) to ensure: (a) all customers of the Buyer and authorized repairers who own or use affected goods are advised of every applicable recall campaign of which the Buyer is notified by the Seller; and (b) modifications notified to Buyer by Seller by means of service campaigns, recall campaigns, service programs or otherwise are made with respect to any goods sold or serviced by Buyer to its customers or authorized repairers. Should Buyer fail to perform any of the actions required under this obligation, Seller will have the right to obtain names and addresses of the Buyer's customers from Buyer and Seller will be entitled to get into direct contact with such customers.

18. GOVERNING LAW. THE TERMS OF THIS AGREEMENT AND ALL RIGHTS AND OBLIGATIONS HEREUNDER WILL BE GOVERNED BY THE LAWS OF THE JURISDICTION WHERE SELLER'S OFFICE IS LOCATED TO WHICH THIS ORDER HAS BEEN SUBMITTED (WITHOUT REFERENCE TO PRINCIPLES OF CONFLICTS OF LAWS). THE RIGHTS AND OBLIGATIONS OF THE PARTIES HEREUNDER WILL NOT BE GOVERNED BY THE 1980 U.N. CONVENTION ON CONTRACTS FOR THE INTERNATIONAL SALE OF GOODS. THIS ARTICLE 18 WILL SURVIVE ANY TERMINATION, CANCELLATION, OR EXPIRATION OF THE AGREEMENT.

19. DISPUTE RESOLUTION. Prior to the commencement of any litigation, in the event of any dispute between the Buyer and Seller arising out of or in connection

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with the Agreement or the good or services contemplated therein; Buyer and Seller agree to first make a good faith effort to resolve the dispute informally. The first attempt at dispute resolution shall be made by the technical project managers (or equivalent) of the parties. Should resolution not be reached within ten (10) business days, senior management of both parties will attempt to resolve the dispute. If the parties are still unable to resolve the dispute, the dispute will be sent to litigation. TO ENCOURAGE PROMPT AND EQUITABLE RESOLUTION OF ANY LITIGATION, EACH PARTY HEREBY IRREVOCABLY WAIVES ITS RIGHTS TO A TRIAL BY JURY IN ANY LITIGATION RELATED TO THIS AGREEMENT

20. Export Regulation. Seller's goods, including any software, documentation and any related technical data included with, or contained in, or utilized by such goods or deliverables, may be subject to applicable export laws and regulations, including United States Export Administration Regulations and Buyer will comply with all such applicable laws and regulations. In particular, the Buyer will not, and will not permit any third parties to, directly or indirectly, export, re-export or release any goods to any jurisdiction or country to which, or any party to whom, the export, re-export or release of any goods is prohibited by applicable law, regulation or rule. The Buyer will be responsible for any breach of this Article 20.

21. Privacy and Customer Data. Buyer acknowledges that Seller may collect and process personal data for the purposes outlined in the Agreement. Seller's data privacy policy is available at <https://www.xylem.com/en-us/support/privacy/>. Buyer acknowledges that it has read and understood Seller's privacy policy and agrees to the use of personal data outlined herein. The collection and use of personal data by Buyer is Buyer's responsibility. Some Seller goods are equipped with cloud communication capability resulting in these goods automatically transmitting, on an encrypted basis, data to Seller's X-

Cloud. Unless otherwise specified in the Agreement, Buyer agrees and authorizes Seller to indefinitely store any data collected from Seller goods ("**Customer Data**") on Seller's hardware, software, networking, storage, and related technology. Buyer grants Seller and Seller's affiliates a worldwide, royalty-free, non-exclusive, irrevocable right and license to access, store and use such Customer Data to: (a) provide services; (b) analyze and improve services; (c) analyze and improve any Seller or affiliate goods or software; and (d) for any other internal use, provided any such internal use is limited to using the Customer Data in an aggregated and anonymized manner that cannot be reconstituted as Buyer's Customer Data.

22. Titles; Waiver; Severability. The article titles are for reference only and will not limit or restrict the interpretation or construction of this Agreement. Seller's failure to insist, in any one or more instances, upon Buyer's performance of this Agreement, or to exercise any rights conferred, will not constitute a waiver or relinquishment of any such right or right to insist upon Buyer's performance in any other regard. The partial or complete invalidity of any one or more provisions of this Agreement will not affect the validity or continuing force and effect of any other provision.

23. Changes. Any requested change(s) to the work set forth in this Agreement, including to the delivery schedule, requires the parties to enter into a written change order that contains a description of the change(s) and all other applicable terms, including change in price, storage fees, and/or delivery schedule ("**Change Order**"). A Change Order may be requested by either party. For any Buyer-related change to the delivery schedule, including any due to a Buyer delay, the parties will enter into a Change Order and any such Change Order will state the revised delivery date(s), the revised Agreement price, storage and maintenance fees, and all other respective revisions. Seller will not be obliged to proceed with any change and no such

change will be binding or have any effect on Seller or this Agreement unless/until the parties enter into a Change Order; provided, however, that if Seller must store goods due to a buyer delay, all associated risk, expenses, and fee will nonetheless be borne by Buyer from the beginning of the delay period. Should Seller's ability to proceed with the work be altered by Buyer's delay in entering into a Change Order, Seller also will be entitled to assess late fees and suspend performance of all work for the period of delay.

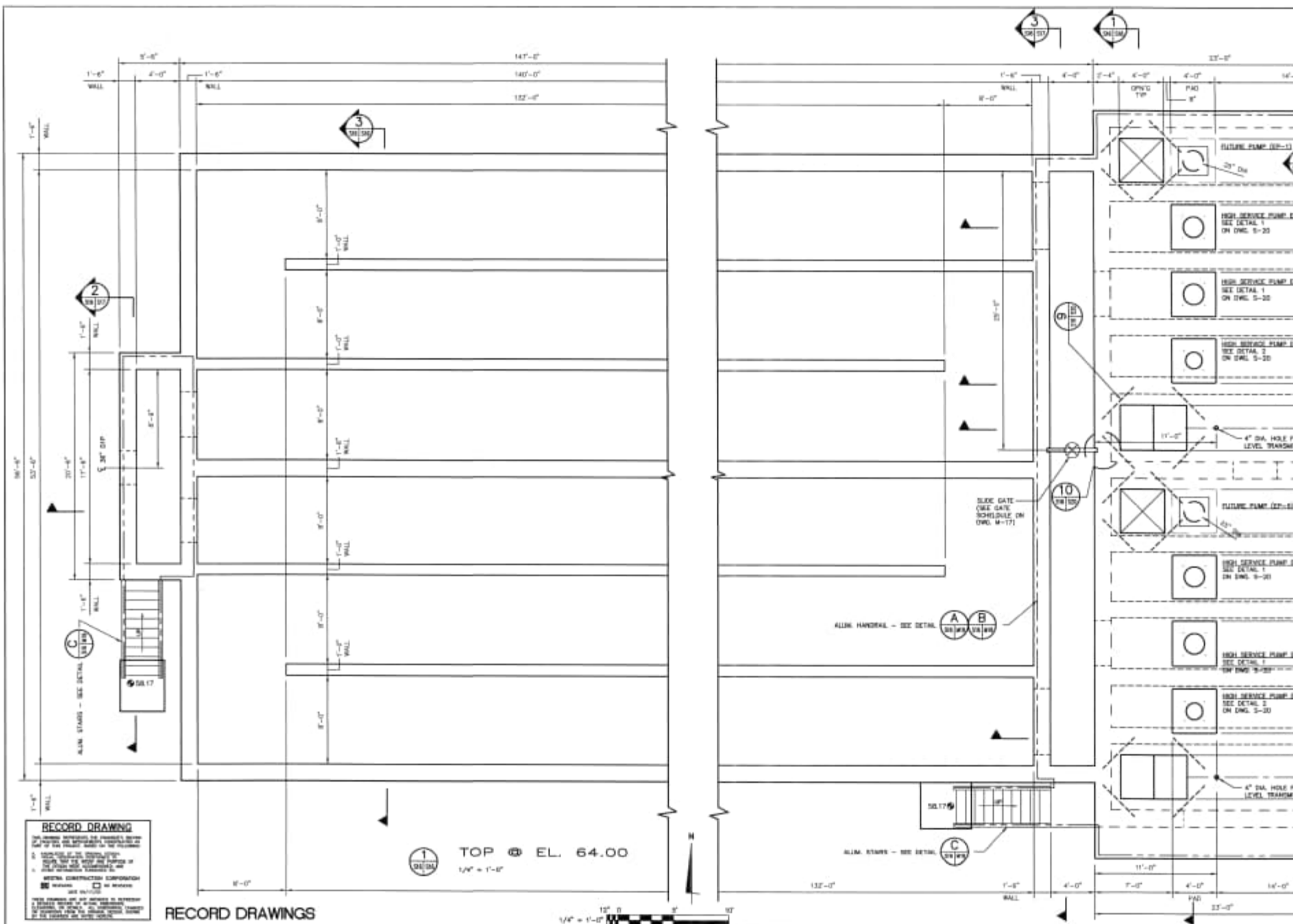
Water Champ® Applications Worksheet



Evoqua Water Technologies LLC
725 Wooten Road
Colorado Springs, CO 80915

			Date:	1/26/2026
Sales Rep:	Mike Robins	Sales Manager:		
Project Name:	NE Chlorine Contact Mixing Chamber	Location:	3290 FL-580 Clearwater, FL 33761	
Customer: Company: Address: Telephone: Fax: E-Mail:	Lauren Hart City of Clearwater 100 S Myrtle Ave Clearwater FL 33756 727-294-2121 lauren.hart@myclearwater.com	Engineer: Company: Address: Telephone: Fax: E-Mail:		

<u>Market:</u> Municipal ☒ Industrial ☐	<u>Segment:</u> Wastewater ☒ Water ☐	Budget Quote ☐ Firm Bid ☒	Bid Date: ASAP
<u>Project Type:</u> New Construction ☐ Retrofit ☒	<u>Process Flow:</u> Primary Screened ☐ Tertiary ☒ Raw Water ☐	<u>Plant Flow:</u> Peak: 1.1 11 Avg: 5.1 Min: 3.1	<u>Power:</u> Voltage: 120 Phase: Other:
<u>Liquid Feed Application:</u> Chemical: NaOCl % Solution: 12.5% Feed Rate: 6GPH Metering Device: Delco Chlorine Analyzer Hardness*: Do not test for *provide for Hypochlorite, Ammonia or Caustic feed applications where scaling may be a concern.		<u>Gas Feed Application:</u> Vacuum Line Size: Material of Construction: Vacuum Line Length: Vacuum Head Loss Calculation:	
<u>Open Channel Info:</u> Max Water Level (ft): 11.5 Min Water Level (ft): 11 Avg Water Level (ft): 11.25 Channel Width (ft): 8 Channel wall height (ft): 12 Water Velocity (ft/sec): Inlet Pipe size (in.) 32in? Can channel be drained for service & installation? Yes ☐ No ☒		<u>Describe Application and Recommendations:</u>	



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REVISIONS:

NO.	DATE	DESCRIPTION
1	01/15/2010	ISSUED FOR PERMIT
2	01/15/2010	ISSUED FOR CONSTRUCTION
3	01/15/2010	ISSUED FOR RECORD

RECORD DRAWINGS

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DIA. 17

TOP @ EL. 64.00

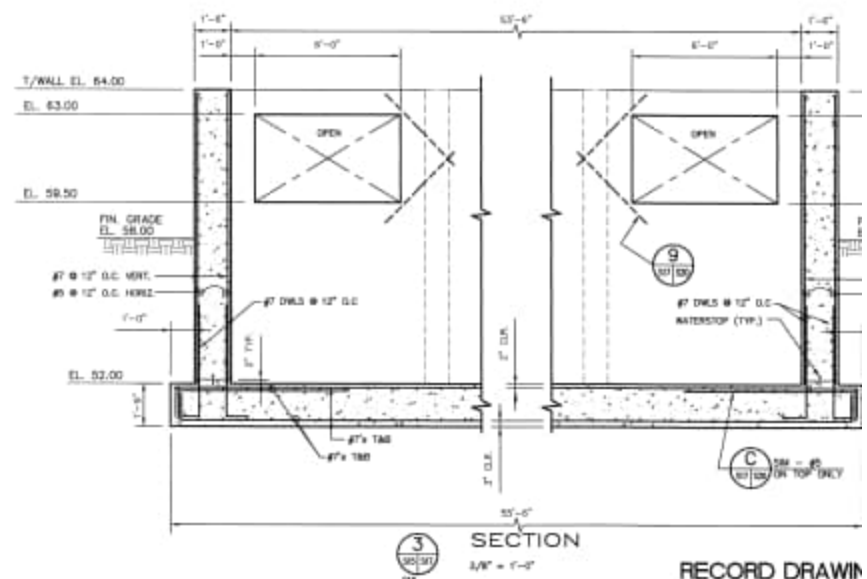
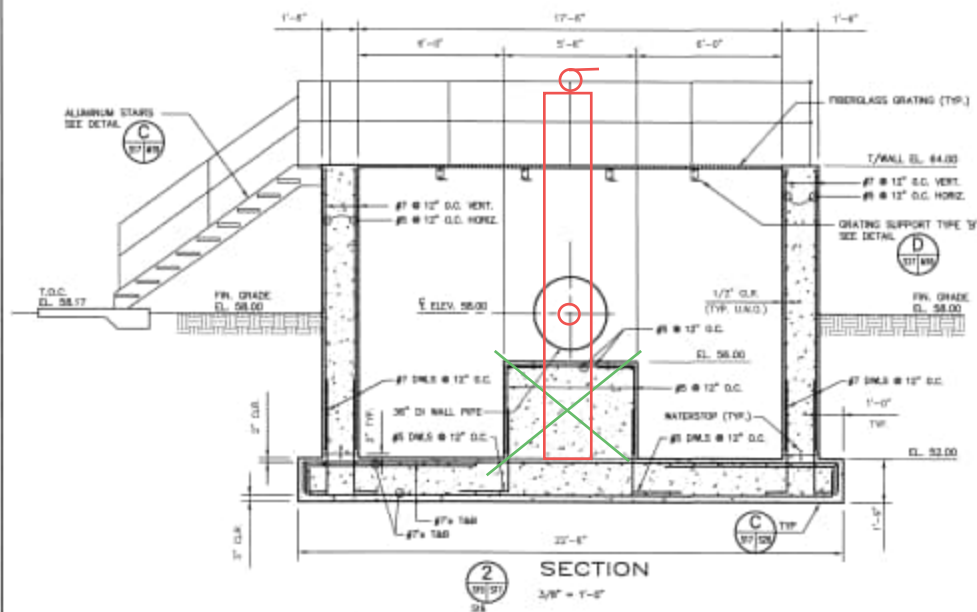
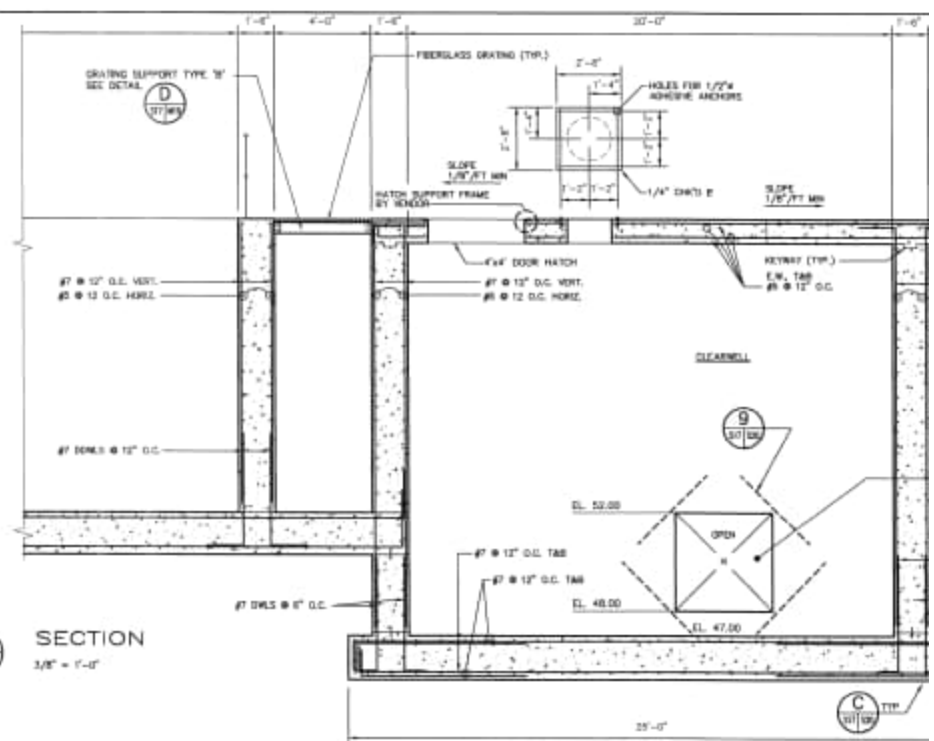
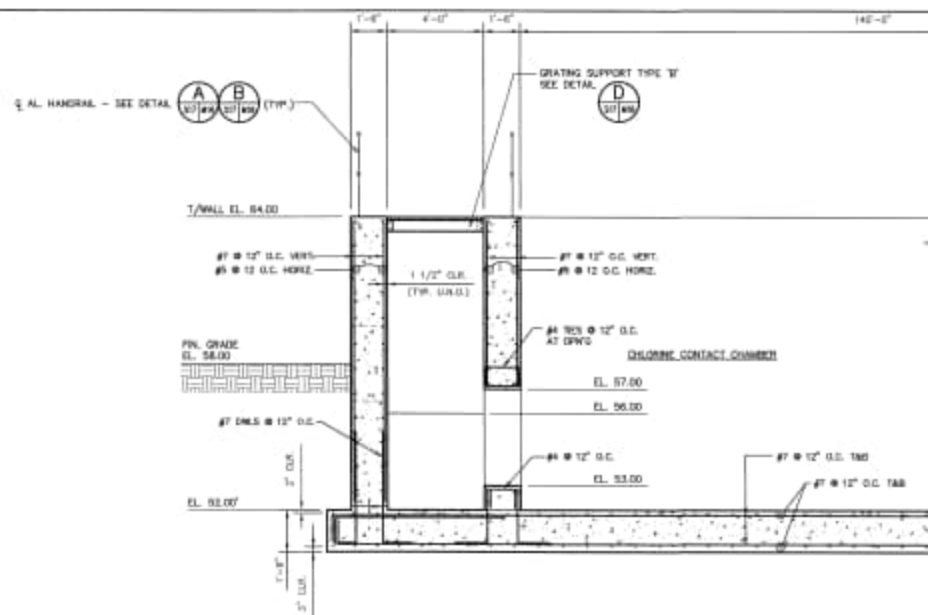
1/4" = 1'-0"

15' 0"
1/4" = 1'-0"

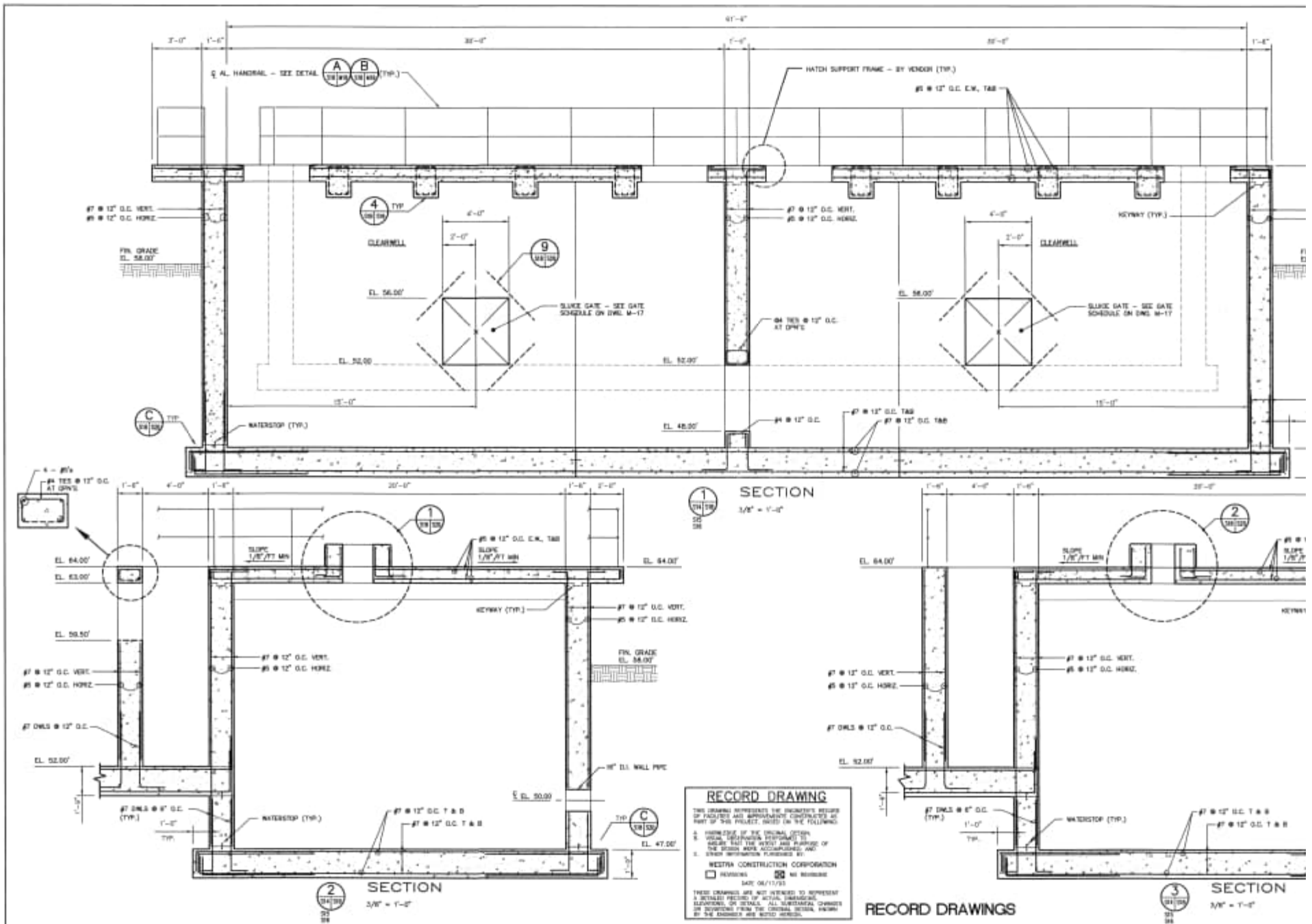
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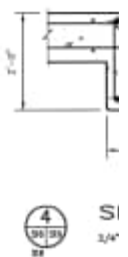
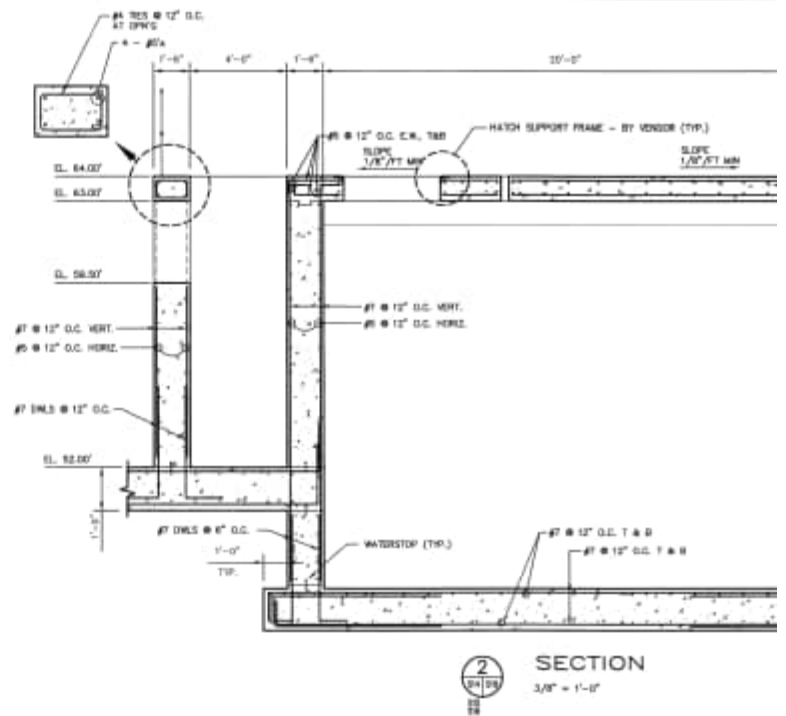
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NORTHEAST ADVANCED POLLUTION

CHLORINE CONTACT TANK



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SPAIN
 ESTIMATED

CITY OF CLEARWATER
NORTHEAST ADVANCED POLLUTION

CHLORINE CONTACT TANK

Water Champ Application Sizing Calculations

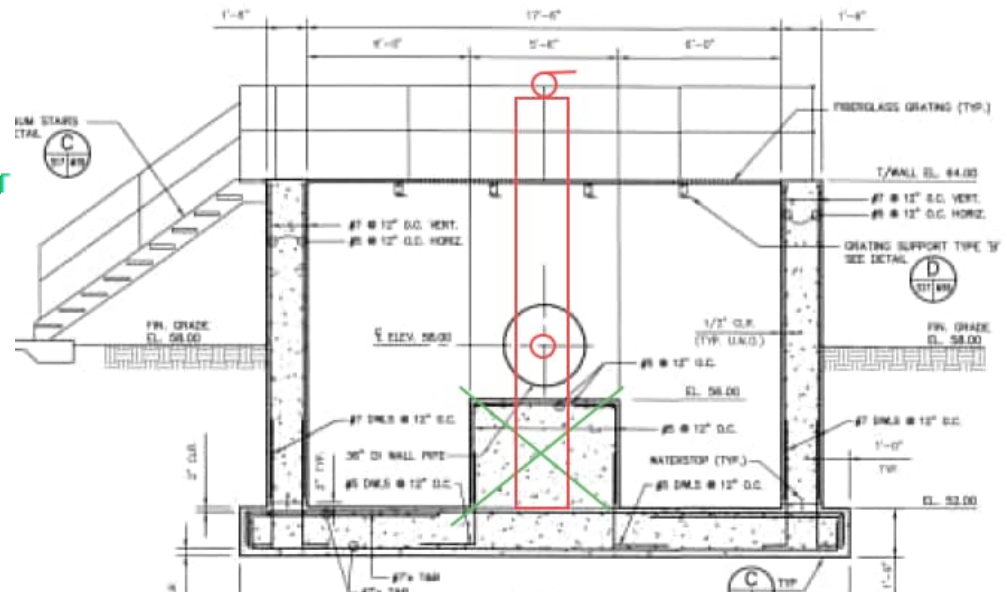
Peak Plant Flow (MGD): 11
 Avg Plant Flow (MGD): 5.1
 Min Plant Flow (MGD): 3.1
 Water Champ HP-to-MGD ratio: 0.31
 Required HP: 3.41
 Water Champ Size (hp): **5**

Channel Depth (ft): 12
 Channel Length (ft): 4
 Channel Width (ft): 17.5
 Max Water Level (ft): 11.5
 Min Water Level (ft): 11
 TOC to top of platform (ft) = cage length: 8
 Outlet pipe diam. (ft): 2.67

Max Water Velocity @32" pipe (ft/s): 3.05 **OK**
 Min Water Velocity @32" pipe (ft/s): 0.86 **OK**

Test Cone Diam. (ft): 2.67
 G-Value @ D=2.67ft (/s): 5,068 **EXCELLENT**

G-Values for 5HP Water Champ					
s (ft)	h (ft)	d (ft)	D (ft)	V (ft ³)	G (sec(- ¹))
1.158	1	0.3542	1.508	0.77	11,968
2.308	2	0.3542	2.667	4.28	5,067
3.458	3	0.3542	3.817	12.6	2,954
4.583	4	0.3542	4.975	27.9	1,986
5.775	5	0.3542	6.125	52.11	1,453
6.925	6	0.3542	7.283	87.57	1,121
8.083	7	0.3542	8.437	136.2	899
9.238	8	0.3542	9.592	200.1	741
10.39	9	0.3542	10.75	281.6	625
11.55	10	0.3542	11.9	382.1	537





WATER CHAMP® FX CHEMICAL INDUCTION SYSTEM

WATER CHAMP® FX CHEMICAL INDUCTION SYSTEM

The Water Champ® FX Chemical Induction System is an innovative device designed for the application of a variety of chemicals used for treating potable water and wastewater. The unique feature of the Water Champ FX System is its ability to provide instantaneous mixing and diffusion of chemicals.

The Water Champ FX System offers the highest quality of design and construction of any submersible chemical induction unit. The motor is a hermetically-sealed 316 stainless steel (SS) motor for the highest level of durability and performance required for chemical feed applications. Most wetted materials are constructed from Grade 2 titanium (unalloyed) and are designed for use with most treatment chemicals. The innovative mounting bracket is configured for mounting in open-channel applications and can be easily retrofitted to existing basins and tanks.

Features:

- Titanium wetted parts
- Rugged construction
- Heavy duty bearing design
- Motor protection device

Full Feature Chemical Induction System

Capacities to 10,000 lb/day (60 gpm)

The Water Champ FX System is available at the following gas or liquid feed capacities:

Model	Capacity*	
	Gas	Liquid
Water Champ 5FX	3,000 PPD	25 gpm
Water Champ 7.5FX	4,500 PPD	30 gpm
Water Champ 10FX	6,000 PPD	40 gpm
Water Champ 15FX	8,000 PPD	50 gpm
Water Champ 20FX	10,000 PPD	60 gpm
Water Champ 25FX	10,000 PPD	60 gpm

*Feed rates are application dependent (consult factory).

Key Benefits:

- Quality diffusion/mixing
- No chemical off-gassing
- Elimination of carrier/make-up water
- Efficient energy transfer
- Vacuum gas feed to 10,000 PPD
- Non-vacuum liquid feed to 60 gpm
- Innovative mounting system

Operating Design Principles

Chemical induction system operation is enhanced by these core design principles:

- The unique airfoil design of the propeller enables the Water Champ® FX System to achieve maximum energy transfer.
- The lightweight design and non-corrosive moving parts make the Water Champ FX System easy to install.
- All chemically wetted components are constructed of corrosion-resistant Grade 2 titanium or better.
- The hermetically-sealed motor is constructed of 316 SS for the highest level of durability and performance.
- The Water Champ FX System provides significant chemical and energy savings.

Easy Installation and Maintenance

Application Flexibility:

The Water Champ FX System is suited for retrofit applications or installation in existing chlorination contact basins and channels due to the flexible guiderail and pivot bracket design combination. The guiderail can be positioned in the process to optimize the zone of influence for mixing, while the universal pivot bracket can be field configured to orient the axial mixing geometry directly into the process flow, to achieve maximum performance. The Water Champ FX System can be configured for gas or liquid applications, vacuum or non-vacuum feed. An Alternate Liquid Feed (ALF) assembly can be added for dual feed of chemicals in applications such as chloramination.

Less Maintenance and Reduced Downtime:

The Water Champ FX System utilizes a close-coupled connection between the vacuum body/propeller and the submersible motor. This innovative design isolates the motor shaft from the process, yet allows for authorized service technicians to perform services such as motor replacement in the field. Serviceable components are limited to motor, stationary bushings and o-ring seals. Flexible chemical feed hose and electrical cables to the induction unit make for easy placement in and out of service.

Modular System:

The chemical induction unit is shipped pre-assembled and submergence tested to verify vacuum, flow and electrical load under simulated operating conditions. The guiderail system is designed to fit each application, requiring minimal downtime to install. Once the rail system is installed, the channel does not need to be drained to place the Water Champ FX System into operation or to remove it for inspection and service. Customized guiderail cage designs are available in specific applications where drainage is not possible for the initial guiderail installation.

The electrical supply is connected to the motor control panel, as is the power cable from the chemical induction unit.

Process connections are made via flexible PVC-hose and couplings to the chemical induction unit. Inline ball check valves (for vacuum applications) or back pressure valves (for non-vacuum) are available for preventing backflow or ensuring anti-siphon under normal operating conditions.

The chemical induction unit is lowered into operation by the use of a davit crane or other rated lifting device once all the necessary connections are made.

Technical Data

Horsepower Rating:

5 HP (3.7 kW) – 25 HP (18.5 kW)

Dimensions:

6" D x 34" L (87 cm) – 44" L (112 cm),
depending on capacity

Weight:

90 lb (41 kg) – 145 lb (66 kg)
depending on capacity

Consult Evoqua for Technical Data Sheets on each selected capacity model.



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WT-055-330-UA-DS-0514

Technical data

Water Champ® 5FX	
Capacity:	
▪ Gas Induction – Max Capacity	3000 lb/day (1350 kg/d)
▪ Gas Induction – Nominal at 8' Depth* ¹	2600 lb/day (1180 kg/d)
▪ Liquid Induction – non vacuum	25 gpm (95 l/m)
Horsepower Rating* ²	5 HP (3.7 kW)
Process requirements:	
▪ Cooling water flow rate, suggested	0.5 ft/s (0.1 m/s)
▪ Maximum flow	5 – 8 ft/s (1.5 – 2.5 m/s) Depends on mixing zone geometry. Contact Evoqua
Propeller Type	Airfoil design, 4-blade, high camber
Materials of Construction	
▪ Propeller	Grade 2 (unalloyed) Titanium, machined
▪ Shaft Extension	Grade 5 Titanium with CANADIZE® coating
▪ Vacuum Body	Grade 2 Titanium, machined
▪ Motor Casing	316 stainless steel
▪ Lift Collar Assembly	316 stainless steel
▪ Universal Pivot Bracket	316 stainless steel
▪ Alternate Liquid Feed (optional)	Grade 2 Titanium
Electrical supply	460 V, 60 Hz, 3Φ or 380-415 V, 50 Hz, 3Φ
Enclosure type	Submersible, hermetically sealed motor
Ambient operating temperature, max. * ³	30 °C (86 °F) water
Storage and transport temperature	2 – 40 °C (35 – 104 °F) air
Connections	
Chemical Hose Assembly	1-1/2" FPT
Power Cable	SOOW Cable, 12 AWG Wire; consult drawings
Installation recommendations	
Chemical Feed Lines	Material PVC or CPVC. For vacuum applications a Ball Check Valve is installed inline. For non-vacuum (liquid) applications a Back-Pressure or Anti-Siphon valve is required. Refer to drawings for arrangement and installation detail.
Orientation of Water Champ	Vertical or Horizontal using universal pivot bracket. Vertical: Aim downward for upflow conditions or in a vault (box) structure. Horizontal: Counter-flow is ideal. Co-flow is suitable for multiple flow convergence with single discharge. Water Champ Should always be located in centerline of average daily flow liquid level in channels. Consult Evoqua for assistance in determining positioning and placement.
Submerged depth	Minimum 18" depth below low water level to avoid flashing off of gasses or chemical during operation.
Redundancy	
Duty/Redundant configuration	Two units of same capacity can be installed in parallel on separate guiderails, in duty/redundant configuration.
Shelf Spare	Recommend at minimum one spare CIU with Pivot Bracket attached for fast and easy replacement. Quick disconnect fittings may be used on the power cable if properly rated for the electrical load and environment.

use hi-temp
motor specs
instead

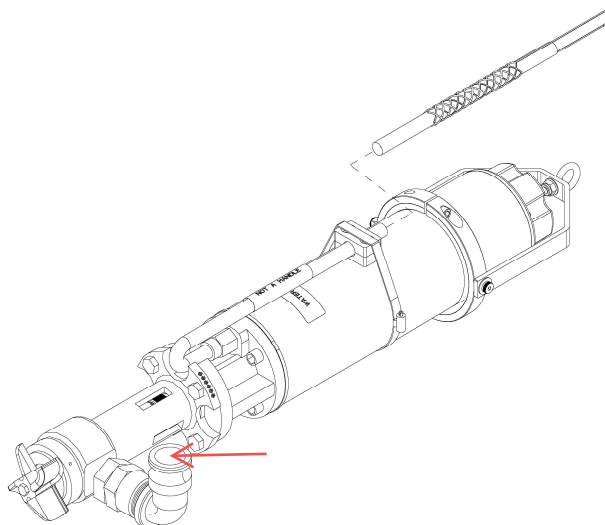
*¹ In vacuum applications, feed rate capabilities are affected by submerged depth. Consult Evoqua Water Technologies for details.

*² For 60 Hz frequency motors. Rating is reduced in 50 Hz applications.

*³ Class F insulation motor is standard. In some areas, Class H insulation high temperature motors may be available.

Motor Data	
Manufacturer	Franklin Electric
Model Number	236610-4020
▪ Frame	6" Dia.
▪ Horsepower	5 HP (3.7 kW)
▪ Electrical Requirement	460 V, 60 Hz, 3ph (380-415 V, 50 Hz, 3ph)
▪ Rotations Per Minute	3450 RPM (2875 RPM @ 50 Hz)
▪ Service Factor	1.15 (SF 1.0 @ 50 Hz)
▪ Full Load Amps	7.5 A (4.7 kW)
▪ Locked Rotor Amps	43 A
▪ KVA Code	H
▪ Insulation Class	F
▪ Efficiency	75%
▪ Thrust load	1500 Lb (6672 N)
▪ Temp Rise	30 °C (86 °F)
Time Rating	Continuous Duty
NEMA Design Code	B
Motor enclosure, material	Submersible, 316 SS
Country of Origin	Made in USA
Storage and transport temperature	2 – 40 °C (35 – 104 °F)

Assembly Drawing



Dimensions	
Water Champ® Chemical Induction Unit	6" Diameter x 34" Length
Weight	90 lbs. (41 kg)
Power Cable Length	25'

Evoqua Water Technologies

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WATER CHAMP® SYSTEM CONTROL PANEL

General Description

The Water Champ® System Control Panel is specifically designed to offer ultimate protection for your submersible Water Champ Chemical Induction System. The Control Panel includes the new Motor Protection Device (MPD).

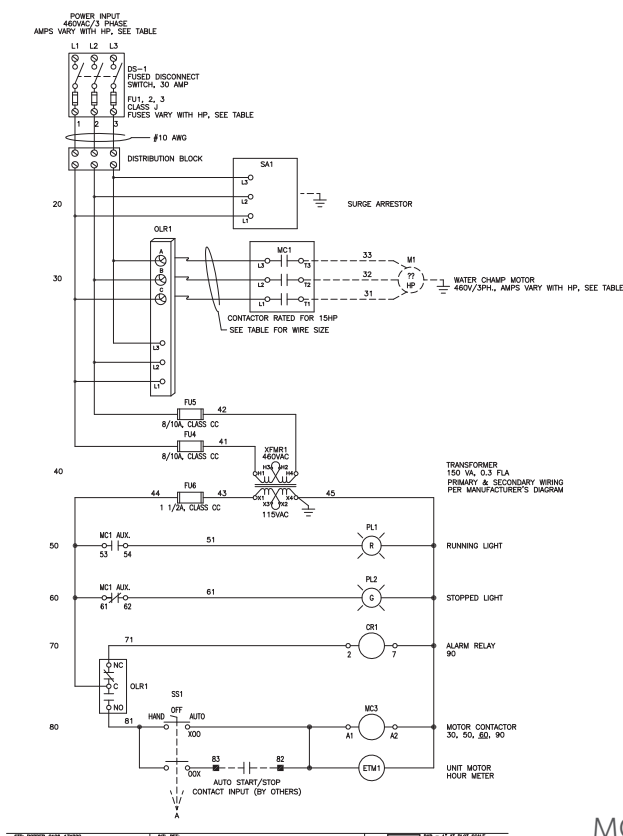
Computer technology is applied to provide a unique system of detecting overloads, underloads, rapid cycling, ground faults, temperature, current and voltage unbalance. The Motor Protection Device will turn off the Water Champ system should any of these faults occur and provide a visual display of the fault condition. In addition, the Motor Protection Device offers automatic restart when the problem is temporary, or can signal an alarm or backup system if it is constant.

The Water Champ Control Panel is housed in a NEMA 4X corrosion resistant enclosure with a viewing window for all operator usable functions and diagnostics.

The easy access control panel allows the user to adjust the reset time and provides real-time voltage and current status to ensure peak performance.

Key Benefits

- Control start/stop of Water Champ® System (locally and remotely)
- Phase reversal protection
- Three phase disconnect with lockout capability
- Surge arrester which exceeds ANSI / IEEE standard C62.11



MOTOR PROTECTION DEVICE SYSTEM

Motor Protection Device: How It Works

A microprocessor is the main element of the Motor Protection Device system. It continuously monitors the motor's operating condition. The Motor Protection Device will immediately shut down the motor if a fault condition occurs. To assure that conditions are not temporary, the Motor Protection Device will attempt to restart the motor. If the alarm condition still exists after three restart attempts, a manual restart is required.

The Motor Protection Device protects the Water Champ® System from a variety of application conditions by monitoring some very simple inputs. The Motor Protection Device monitors motor current draw and trips if the amps are either too high, too low, or unbalanced (both overload and underload trip points are field adjustable). In the event of a fault, the Motor Protection Device forces the motor to remain disengaged at least three minutes between run cycles.



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ST.070.318.SCP.IE.DS.0514



WATER CHAMP® CHEMICAL INDUCTION UNIT MOTOR PROTECTION DEVICE

The MPD is a fully-programmable electronic overload relay. An alphanumeric LED display provides programming and diagnostic information. Seventeen parameters can be programmed in the MPD.

1. Low Voltage Set Point
2. High Voltage Set Point
3. Voltage Unbalance Set Point
4. CT Size/Loop Setting
5. Overcurrent Trip Point
6. Undercurrent Trip Point
7. Current Unbalance Trip Point
8. Trip Class (5,10,15,20,30)
9. Rapid Cycle Timer (RD1)
10. Overload Restart Delay (RD2)
11. Underload Restart Delay (RD3)
12. No. of restarts after an overload (Manual or Automatic)
13. RS485 Address
14. No. of restarts after an underload fault
15. Underload Trip Delay

16. Ground Fault Trip Point

17. Temperature Monitoring Sensor

Features

- Recordable voltage, current, last 4 faults, KWh usage, and power factor is available when using communications package
- Digitally programmable for precise customizing.
- Seventeen set points can be programmed for maximum protection
- Last fault memory provides instant troubleshooting diagnostics
- UL® and CE listed as an overload relay
- RS-485 communication port for use with computerized systems using Modbus protocol

Key Benefits

- Overload or underload motor protection
- Over or under voltage change protection
- Protects against single-phasing or unbalanced voltage/current
- Built-in time prevents rapid cycling

SPECIFICATIONS

Electrical	
Input voltage	200-480 VAC, 3-ph (Standard) 500-600 VAC for model MPD-575
Frequency	50-60 Hz
Motor full load amp range	2-25A, 3 ph (loops required) 25-90A, 3 ph (direct) 80-800A, 3 ph (external CT's)
Power consumption	10W (maximum)
Output contact rating SPDT (Form C)	Pilot duty rating: 480 VA @ 240 VAC General purpose: 10 A @ 240 VAC
Expected Life	
Mechanical	1 x 10 ⁶ operations
Electrical	1 x 10 ⁵ operations at rated load
Accuracy at 77° F (25°C)	
Voltage	± 1%
Current	± 3% (< 100A direct)
GF Current	± 15%
Timing	5% ± 1% second
Repeatability	
Voltage	± 0.5% of nominal voltage
Current	± 1% (<100A direct)
Trip times (those not shown have user selectable trip times.)	
Ground Fault Trip Time	<u>Trip time</u>
101%-200% of Setpoint	8 seconds 41 second
201%-300% of Setpoint	4 seconds 41 second
301%-400% of Setpoint	3 seconds 41 second
401% or Greater	2 seconds 41 second
Current Unbalance Trip Times	
% Over Setpoint	<u>Trip time</u>
1%	30 seconds
2%	15 seconds
3%	10 seconds
4%	7.5 seconds
5%	6 seconds
6%	5 seconds
10%	3 seconds
15%	2 seconds

Safety Marks	
UL® Standards	UL508, UL1053
CE	IEC 60947-1, IEC 60947-5-1
Standards Passed	
Electrostatic Discharge (ESD)	IEC 1000-4-2, Level 3, 6kV contact, 8kV air
Radio Frequency Immunity (RFI), Conducted	IEC 1000-4-6, Level 3 10V/m
Radio Frequency Immunity (RFI), Radiated	IEC 1000-4-3, level 3 10V/m
Fast transient burst	IEC 1000-4-4, Level 3, 3.5 kV input power
Surge	
IEC	1000-4-5 Level 3, 2kV line-to-line; Level 4, 4kV line-toground
ANSI/IEEE	
Hi-potential test	Meets UL508 (2x rated V +1000V for 1 minute)
Mechanical	
Dimensions	3.0"H x 5.1"D x 3.6"W
Terminal torque	7 in lbs.
Enclosure material	Polycarbonate
Weight	1.2 lbs
Maximum conductor size through MPD	0.65" with insulation
Environmental	
Temperature range	Ambient Operating: -4° - 158°F (-20° -70° C)
Class of protection	IP20, NEMA 1
Relativity humidity	10-95%, non-condensing per IEC 68-2-3



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6" HI-TEMP 90C SUBMERSIBLE MOTORS

Three-Phase 5-40 hp

Motors

Drives

Controls

Protection

Application Data:

Some pumping applications require more – and Franklin's Hi-Temp Motor line delivers just that. The Hi-Temp motor was designed and built in response to many requests for a motor that operates dependably in wells with high temperatures and/or low flow conditions.

The 6-inch Hi-Temp 90C motor utilizes a new, premium encapsulation process and new water soluble coolant to allow continuous operation in water temperatures of up to 90 °C.* In addition, this design is capable of handling thrust loads 25% higher than a standard motor without using oil.

Franklin's Hi-Temp 90C is the right choice for your demanding, high temperature well applications.

* Provided minimum allowable rates of flow past the motor are maintained

Basic Features:

- Up to 194 °F (90 °C) ambient temperature.
- 100% increase in upthrust capability at 30 °C
- 25% increase in downthrust capability at 30 °C
- Wet Well, Reservoir, Low Flow approved in 12" diameter or larger wells with ambient water up to 87 °F (30 °C)
- High temperature leads
- Hermetically sealed stator
- Innovative high temperature winding encapsulation system
- FES92 exclusive water soluble, high temperature bearing lubrication
- Double-flange NEMA mounting for ease of handling and pump mounting
- Stainless steel splined shaft for maximum shaft/coupling contact
- Full 3450 RPM 60Hz design point for superior pump performance
- Sand Fighter™ Sealing System
- Franklin Electric's exclusive Water-Bloc™ lead connection
- 316 SS and Y-Δ - consult factory
- Extended warranty available when used with FE Submonitor overload protection

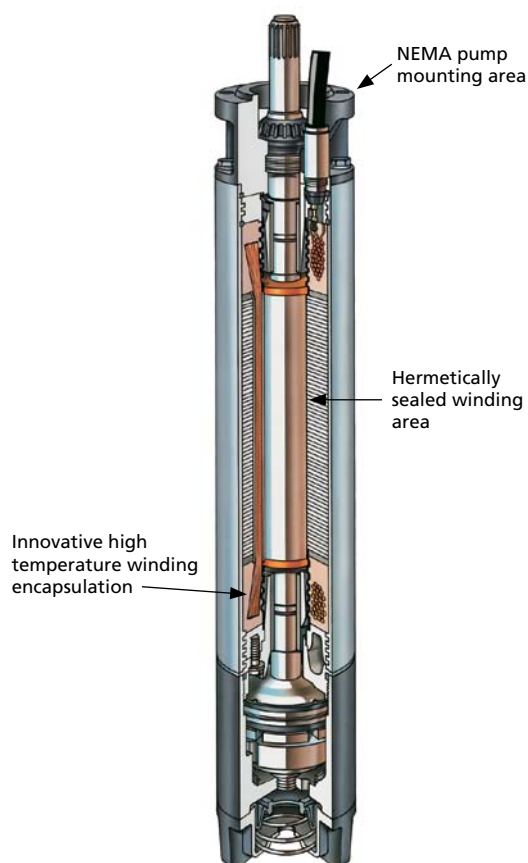


Franklin Electric

Availability

Three-Phase, 60 Hz - 3450 RPM, 50 Hz - 2875 RPM

HP	KW	DOWNWARD THRUST @ 30 °C	VOLTS	HZ	SERVICE FACTOR
5	3.7	4500 lbs. 20000 N	200	60	1.15
			230	60	1.15
			380	60	1.15
			460/380	60/50	1.15/1.0
7.5	5.5	4500 lbs. 20000 N	575	60	1.15
			200	60	1.15
			230	60	1.15
			380	60	1.15
10	7.5	4500 lbs. 20000 N	460/380	60/50	1.15/1.0
			575	60	1.15
			200	60	1.15
			230	60	1.15
15	11	4500 lbs. 20000 N	380	60	1.15
			460/380	60/50	1.15/1.0
			575	60	1.15
			200	60	1.15
20	15	4500 lbs. 20000 N	230	60	1.15
			380	60	1.15
			460/380	60/50	1.15/1.0
			575	60	1.15
25	18.5	7500 lbs. 33000 N	200	60	1.15
			230	60	1.15
			380	60	1.15
			460/380	60/50	1.15/1.0
30	22	10000 lbs. 45000 N	575	60	1.15
			200	60	1.15
			230	60	1.15
			380	60	1.15
40	30	10000 lbs. 45000 N	460/380	60/50	1.15/1.0
			575	60	1.15
			380	60	1.15
			460/380	60/50	1.15/1.0



Construction Materials

Hi-Temp 90C Component	Water Well	Stainless Steel
1 Castings	Gray Iron	316 SS
2 Stator Shell	301 SS	316 SS
3 Stator Ends	Low Carbon Steel	316 SS
4 Shaft Extension	303 SS, Except 17-4 SS on 25-40 hp	17-4 SS
5 Fasteners	300 & 400 Series SS	316 SS
6 Seal Cover	304 SS & Sintered Bronze	316 SS
7 Seal	Sand Fighter™ Sealing System	Sand Fighter™ Sealing System
8 Diaphragm	Viton	Viton
9 Diaphragm Plate	304 SS	316 SS
10 Diaphragm Spring	302 SS	17-7 SST
11 Slinger	Viton	Viton
12 Lead Wire (or Cable)	XLPO	XLPO
13 Lead Potting	Epoxy	Epoxy
14 Pipe Plug	316 SS	316 SS

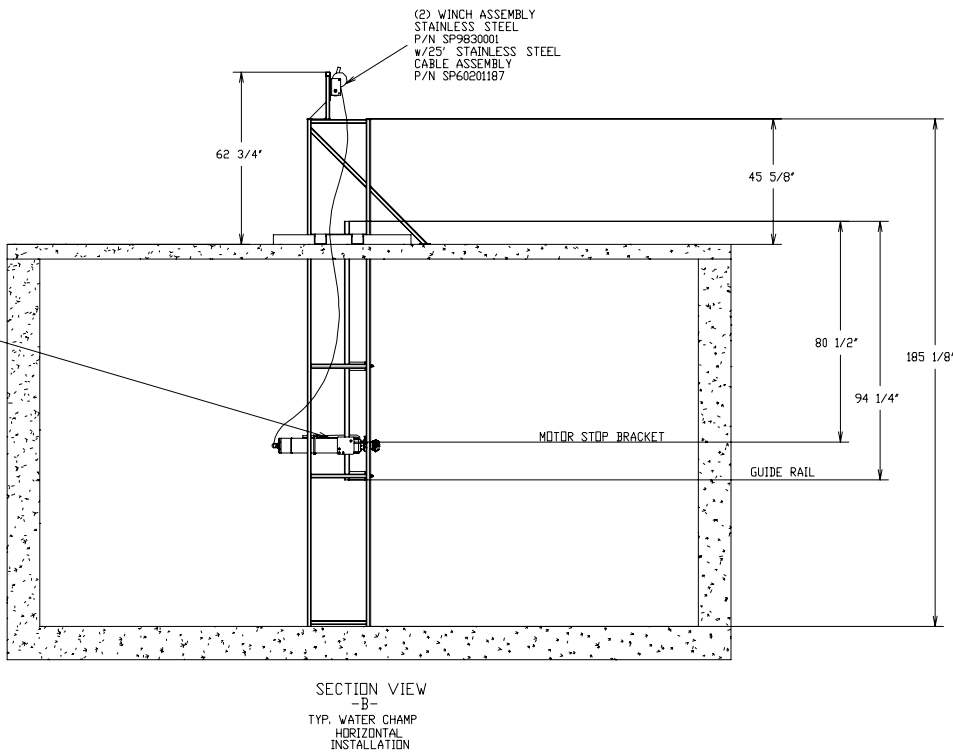
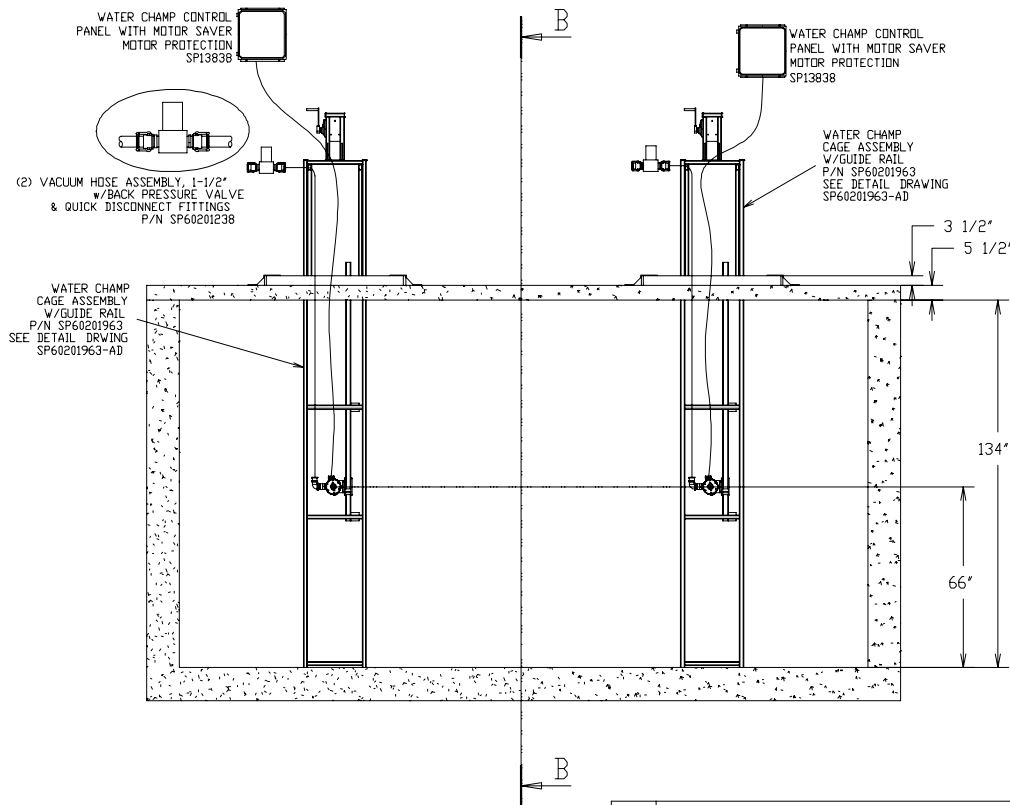
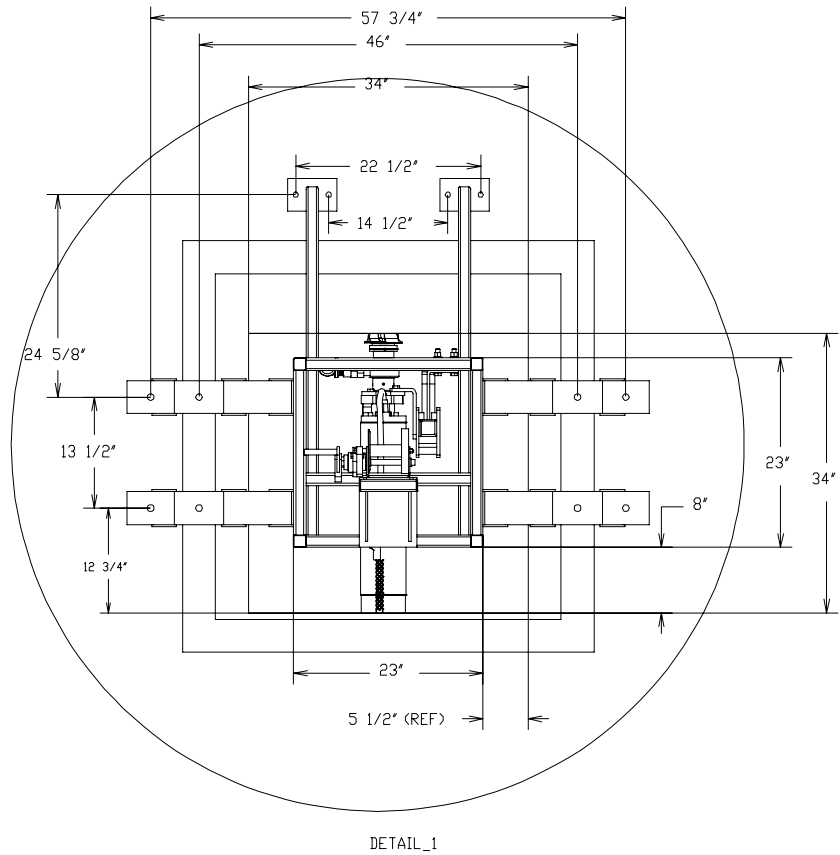
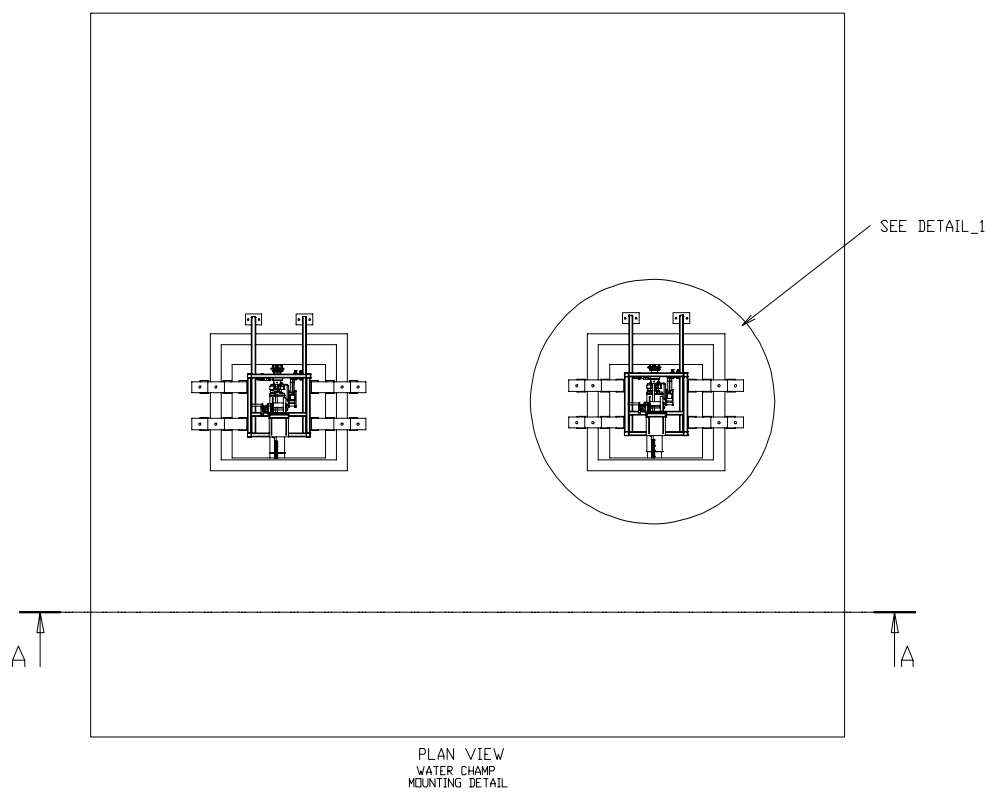
Specifications subject to change without notice. Contact Franklin Electric if current material types are required for bid specifications.



Franklin Electric

400 East Spring Street, Bluffton, Indiana 46714 • Tel: 260.824.2900 Fax: 260.824.2909 • www.franklin-electric.com

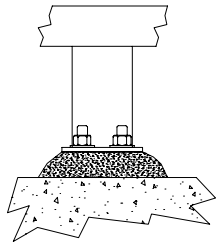
Sample Cage Rail design for application where channel cannot be drained



NOTES:

1. UNIT MUST BE SUBMERSED NO LESS THAN 18 INCHES DURING OPERATION.
2. CABLES AND HOSES NOT SHOWN IN ALL VIEWS FOR CLARITY.
3. CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING:
 - A. ASSURING THE RAIL SYSTEM IS PLUMB AND THAT THE MOTOR TRAVERSES THE RAIL SYSTEM FREE FROM BINDING.

GROUT FOOT BRACKET MOUNTS AS NEEDED TO ASSURE RAIL SYSTEM IS PLUMB.



B. LOCATING, MOUNTING, PUNCHING AND HOOKUP OF THE CONTROL PANEL. SEE THE CONTROL PANEL SECTION OF THE SUBMITTAL OR THE O&M FOR ADDITIONAL INFORMATION.

C. CUTTING, MODIFYING OR RELOCATING HANDRAILS AS TO ALLOW ACCESS TO THE WATER CHAMP AND HOIST.

D. INFORMATION REGARDING ELEVATIONS, MOUNTING SURFACES AND OBSTRUCTIONS MUST BE VERIFIED TO INSURE PROPER INSTALLATION.

SECTION VIEW
-A-
TYP. WATER CHAMP
HORIZONTAL
INSTALLATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
DECIMALS/FRACTIONS

.X	±0.1
.XX	±0.01
.XXX	±0.003
ANGLES	±1.0°-0"
SURFACES	125 ✓

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DESIGNER K SCHUETTE	DATE 08/12/2005	TITLE WATER CHAMP ASSEMBLY EVERETT, WA GENERAL ARRANGEMENT DRAWING
CHECKER GG	DATE 08/15/2005	CLIENT EVERETT, WA (TMG SERVICES, INC.)
ENGINEER GG	DATE 01/01/2009	
MANAGER	DATE 01/01/2009	
FILE: DWCD-2109_0	PROJECT 240299	CODE SP60201963
SCALE: 1:70	DRAWING DWCD-2109	SHEET 1 OF 1
		REV -



Water Technologies
Colorado Springs,
CO 719-550-2100