



City of Needles, California Request for Council Action

☒ CITY COUNCIL/NPUA ☐ BOARD OF PUBLIC UTILITIES ☒ Regular
☐ Special

Meeting Date: August 8, 2023

Title: Authorize a replacement motor for Well #15 from Weber not to exceed \$28,250 and a sand trap from Air Treatment Corporation not to exceed \$20,000 utilizing the water asset replacement fund


Background: On July 1, 2023 Well #15 an electrical fire was reported. Cause was determined to electrical connection arched on the side of the cabinet and a bolt broke off the shaft causing damage. Weber mobilized on July 11, 2023 to make electrical repairs to the damaged motor box panel. The NPUA had a spare pump motor in inventory to replace the damaged motor. Upon inspection the well motor shaft was also damaged.

Weber electrical crews made the necessary repairs to the electrical box and installed the back-up replacement motor. Weber crews were originally set to mobilize the week of July 24th to repair the broken shaft caused by the electrical arch flash however, on Wednesday, July 19, 2023, Well 11's breaker tripped due to the extreme temperatures. Staff contacted Weber to move up the repair date to Well #15 immediately. Well #11 is planned to have the breaker box replaced and relocated with the treatment plant project to avoid this in the future.

Weber mobilized on Friday, July 21 and replaced the damaged shaft. NPUA had a back-up motor for Well #15 in stock and has requested a replacement the damaged motor.

Staff obtained a quote from Weber to purchase a new spare pump motor. In addition to the pump, the drain line on sand trap on Well #15 needs to be replaced as it is aged and corroded. The entire sand trap component on Well #15 needs to be replaced. The replacement pump from Weber is approximately \$28,250 and the sand trap from Air Treatment Corporation is approximately \$14,000 (not including sales tax or freight). The Board of Public Utilities approved the recommended action on August 1, 2023.

Fiscal Impact: The water asset replacement fund has a balance of \$280,963 as of June 2023 however this balance includes reimbursements from open grants for the L Street Booster, L Street Booster, Water Treatment and the AMI projects.

 Barbara Dileo

Recommended Action: Authorize a replacement motor for Well #15 from Weber not to exceed \$28,250 and a sand trap from Air Treatment Corporation not to exceed \$20,000 utilizing the water asset replacement fund

Submitted By: Rainie Torrance, Assistant Utility Manager

City Management Review:  **Date:** 8-3-2023

Approved: ☐

Not Approved: ☐

Tabled: ☐

Other: ☐

Agenda Item: 6



QUOTATION

| | | | |
|------------|------------------------------|-----------|--------------|
| Customer: | City of Needles | From: | Dion Waddell |
| Attention: | Bryan Hickstein | Date: | 07/10/23 |
| Phone: | 928-577-7570 | Quote No: | Well 15 |
| Email: | bhickstein@cityofneedles.com | Project: | 250HP Motor |

Weber Water Resources is pleased to offer the following service for your review and consideration:

| QTY. | DESCRIPTION | UNIT PRICE | TOTAL |
|---|--|------------|-----------------|
| 1 | Option #1: Repair existing US 250HP motor: Full rewind/rebuild of US 250HP motor | | 14,500.00 |
| 1 | Option #2: Direct Replacement of existing motor US 250HP 1780 RPM WP1 VHS 460V 3PH H445TPA | | 28,250.00 |
| 1 | Option #3: Alternative GE option: GE 250HP 1780 RPM WP1 VHS 460V 3PH 445TP20 | | 26,250.00 |
| 1 | Crane labor to transport and stage motor | | 1,400.00 |
| Notes: <ul style="list-style-type: none">- Replacement lead time is 3-5 business days.- Repair lead time is 7-10 business days.- Incoming freight to be added. | | | |
| Subtotal for Other | | | \$ |
| AMOUNT | | | TOTAL \$ |

TERMS AND CONDITIONS

Terms net 10 days from date of invoice

Partial invoice to be generated at 30%, 60% and final completion.

Quotation valid for 10 days

Warranty: Service is warranted against defect in labor for a period of 90 days from the date of start-up. Warranty does not cover acts of God, lubrication, aggregates (sand etc.), aeration, cavitations, customer supplied or used material

Freight is FOB Jobsite

All invoices are subject to a fuel surcharge

Customer is responsible for all applicable sales tax

Invoices will be based on quantities consumed

Weber reserves the right to file 20-day preliminary lien notices on all projects

Delinquent invoices will be charged an interest rate at the highest percentage rate available by law



Thank you for the opportunity to be of service. Please sign, date and return with P.O. number and we will proceed with project.

Best Regards,

Dion Waddell
Project Coordinator

AUTHORIZED BY:

DATE:

TITLE:

PO NUMBER:

COMPANY:

QUOTE NUMBER:



To: City of Needles
Attention: Bryan Hickstein
Engineer: N/A
Project Name: Puroflux Separator

Date: March 20, 2023
Proposal # 2301-0857
Plans Dated: N/A
Addendum: N/A

We are pleased to offer the following equipment for your consideration:

ITEM A) PUROFLUX CENTRIFUGAL SEPARATOR(S)

Model: Puroflux Separator Model# PF-65-100 (Lead-time is 12-13 weeks from order)
Included:

- Fusion bonded polyester coated carbon steel vessel
- Accumulation chamber cleanout standard
- True tangential entry
- Industrial grade manual purge valve
- 1/4" manual air bleed valve
- Inlet/outlet pressure gauges
- 150 psi rated

ITEMS NOT INCLUDED:

- Dispersion tube for duct, Controls in ductwork, BMS Controls, disconnect switch, strainers, valves, seismic restraints, labor for replacement of humidifier, labor warranty and start-up.

PRICING

| ITEM | QTY | EQUIPMENT | TAG | PRICE |
|------|-----|---------------------|-----|-------------|
| A | 1 | Puroflux Separator | TBD | \$11,900.00 |
| ADD | | Electric Auto Purge | | \$ 2,100.00 |

PROPOSED EQUIPMENT IS BASED ON OUR MANUFACTURER'S STANDARD METHODS AND MATERIALS OF CONSTRUCTION, AS NO SPECIFICATIONS WERE AVAILABLE AT TIME OF BID.

Please Note:

- Freight is FOB Factory (freight allowed to first local destination)
- Taxes are not included in this proposal.
- Price is valid 30 days from date on proposal.
- See attached page for remainder of quotation terms and conditions.
- CSLB #793078

Thank you for the opportunity to offer the equipment and services listed above. We look forward to working with you on this project. If you should require additional information, please contact us.

Sincerely,

Tony Lobito
Sales Engineer
Air Treatment Corporation
714.878.4860

TERMS & CONDITIONS OF SALE

Air Treatment Corporation (hereinafter designated as Seller) hereby accepts your order with the condition that this acceptance by us is expressly made conditional on assent by you to all terms and conditions set forth below, notwithstanding that they may be in addition to or different from those contained in your order or acknowledgment. Acceptance by you of any of the material covered by this order or failure to give notice of objections to any terms set forth herein within ten (10) days of the date hereof, shall be deemed to be assent by you to these terms and conditions. It is understood and agreed that the terms and conditions contained herein constitute the complete and exclusive statement of all such terms, and supersedes all prior communications between the parties, oral or written, as relates to the equipment described on your purchase order. Where any terms herein are contrary to or inconsistent with any terms contained in your purchase order, these terms and conditions shall control. If any item in this agreement is deemed unenforceable, all other items shall remain in force and effect.

PAYMENT TERMS: 1% 10 Days/ Net 30 are available upon approval of credit. Acceptance of Purchase Orders does not guarantee payment terms as stated until approved by the Credit Dept. We retain the right to revise all credit terms until said equipment has been shipped. Purchaser agrees to accept responsibility for payment of equipment whether or not payment has been made to purchaser on the project. Should payment not be made in accordance with Seller's payment terms, purchaser agrees to pay to Seller a one and one-half percent (1 ½%) per month service charge on any unpaid balance due. Any retention for start-up should reflect the actual cost of start-up and not a percentage of the invoice. Prior consent from the Seller is required. No other retention shall be acceptable. No rights of lien are waived.

ACCEPTANCE: This quotation is offered for acceptance for a period of 30 days, subject to extension on upon written agreement of Seller in writing. This quotation is subject to revision on notice. In those instances where the Manufacturer reserves order acceptance prerogative, final acceptance shall be so governed.]

PLANS AND SPECIFICATIONS: All equipment and/or materials are sold in accordance with manufacturers' specifications and/or approved submittal data and not necessarily in accordance with "Plans and Specifications." Seller is a vendor only and is not bound to the contractor under any provisions of general contract provisions including payment terms, retention "hold," delay, arbitration and/or cancellations provisions. On plan and specification work, any reference to plans and specifications shall pertain alone to the technical portions of such plans and specifications, including the approved submittals, the latter of which shall determine ultimate responsibility and scope of Seller's obligations. Seller makes no representation as to design, application and/or fitness for a particular purpose.

LEAD TIMES, DELAY: Shipment lead times reflect current production schedules based upon current release to production. Seller shall not be responsible to purchaser (or ultimate user) for delays in delivery due to acts of God, strikes, fires, accidents, unavailability of equipment and/or materials, or any other causes beyond Seller's control. In the event of any such delay occasioned by such events, the date of delivery shall be extended for a length of time reasonably equivalent to the period of the delay, and with no penalty to Seller.

DAMAGES DISCLAIMER: No provision for liquidated, incidental or consequential damages in the event of any breach of this contract by the Seller shall apply to this sale, and any provision for liquidated, incidental or consequential damages shall be of no force and effect unless specifically agreed to by the Seller in writing signed by an officer of the corporation. Seller will not accept any back charge without its consent. Seller shall not be liable to purchaser for costs, damages, expenses or consequential damages arising out of, or resulting from, the purchase or use of equipment and/or materials, or claims made under Manufacturer's written Limited Warranty.

DELIVERY: All shipping information is approximate, and shipping dates are based on prompt receipt of all necessary information at Manufacturers' plant. Deliveries shall be made FOB manufacturers' factory. Title and risk of loss shall pass to the Buyer at FOB point. Buyer agrees to accept delivery of any part or all of the manufactured material upon completion of same and failure of the Buyer to furnish Seller shipping instructions shall in no way alter the terms of the payment of Seller's invoice. Seller shall not be responsible for any storage for any reason unless agreed to in writing before such action is deemed necessary. Where an allowance for freight is included, only the first destination will be allowed. In no event shall Seller be liable for special or consequential damages due to delay.

REQUIRED DELIVERY SCHEDULE: Seller and Purchaser agree that for a "required delivery schedule" to be binding upon Seller or Seller's source of supply, a separate written confirmation to purchaser, confirming the required delivery schedule, must be provided to be binding on either Seller or Seller's source of supply.

CLAIMS: Buyer shall notify Seller in writing, within (10) days of delivery if equipment is defective or nonconforming. Seller shall have the option of reinspection before allowing or rejecting the Buyer's claim. Failure to make such claim within ten (10) days of delivery shall constitute acceptance. Expenses incurred in connection with claims for which the Seller is not liable will be paid by Buyer. Any claim for corrective work done upon the equipment covered hereunder must be approved beforehand, in writing, and signed by an officer of the Seller. Defects that do not impair the operation or performance of the goods provided shall not be cause for rejection by the Buyer.

CHANGES, CANCELLATIONS, RETURNS: Notice from the buyer to suspend work, delay delivery or terminate this order shall entitle Seller to payment from the Buyer for all costs, direct and indirect, incurred by the Seller on the balance of the order to the date of receipt of such notice, and which, in the event of cancellation of such order, shall result in payment to Seller of an amount not less than 15% of the face amount of the order. Any return for goods and equipment must be authorized by the Seller or Seller's source of supply and may be subject to restocking and/or other incidental charges. All orders placed on hold must be the subject of written amendment to the purchase order, and must detail the parties' agreement regarding storage arrangements and costs.

TAXES: Purchaser agrees to pay all sales, excise or other taxes, which may be applicable to the sale of the equipment and/or materials.

WARRANTY: It is understood and agreed that the only warranty the subject of this order shall be the Manufacturer's written Warranty in effect at the time of shipment, and as specifically relates to such equipment the subject of this order, and which Seller shall supply to Buyer. Buyer acknowledges there are no implied or expressed warranties by Seller, other than those of the Manufacturer, and in no case will the amount of the warranty or liability exceed the amount of the order. Seller accepts no consequential liability of any nature, and in no case will Seller be liable for damages beyond the purchase price of the defective items. Further, Buyer agrees to defend, indemnify and hold harmless Seller, from and against any and all Claims of Damage(s), Expense(s) Cost(s) or Consequential Damages alleged or claimed by virtue of the equipment. Buyer agrees that in the event of an alleged Warranty Claim made, either through Buyer or Buyer's customer, or otherwise, which in truth and fact turns out to be a Non-Warranty item and is attributable to the acts of others, failure to maintain equipment, or other reasons not the fault of the Manufacturer or Seller, that Seller and/or Manufacturer shall be reimbursed in full by Buyer for all expenses incurred in ascertaining the alleged Warranty Claim, including all legal costs and fees incurred.

DISPUTES, ATTORNEY'S FEES: In the event Seller is compelled to bring any action to enforce any part of these Terms and Conditions including, but not limited to, any action to collect monies due hereunder, purchaser agrees to pay Seller's reasonable attorney's fees and costs. In any proceeding to enforce these Terms and Conditions, the law of the State of California shall control, and venue shall be deemed proper only in any court of competent jurisdiction in the County of Orange, California.

PF-65-100 SPECIFICATION SHEET

FLANGED SEPARATOR

Features:

- True tangential entry
- 150 psi working pressure
- Five year limited warranty
- Electrically actuated ball valve
- 22 1/2° Profile vessel

Options:

- Manual purge
- Isolation valve kit
- Wall mounting brackets/legs
- Inspection port

SYSTEM COMPONENTS

Separator :

- Carbon steel construction
- Fusion-bond polyester coated vessel
- Manual air bleed valve
- Inlet/Outlet pressure gauges

Electrical Controls :

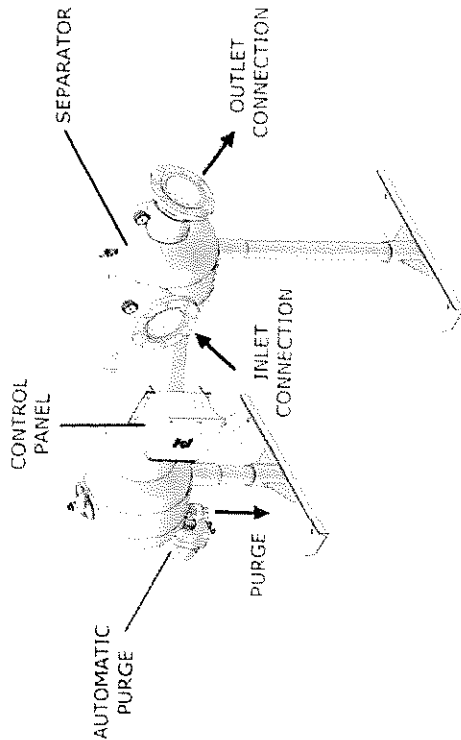
- NEMA 4X Enclosure
- Short circuit protection
- Purge switch selector
- Adjustable purge timer

| PRESSURE DROP vs. FLOW RATE | | | | | | | |
|-----------------------------|-------|-------|-------|-------|--------|--------|-----------|
| Pressure Drop | 3 psi | 4 psi | 6 psi | 8 psi | 10 psi | 12 psi | CV Factor |
| Flow (GPM) | 1965 | 2269 | 2779 | 3902 | 3587 | 3930 | 1134.4 |

*Flow rate / CV values may vary slightly

To determine the approximate pressure drop at flow rates not shown in this chart, use the following formula $\Delta P = (\text{FLOW RATE} / \text{CV})^2$

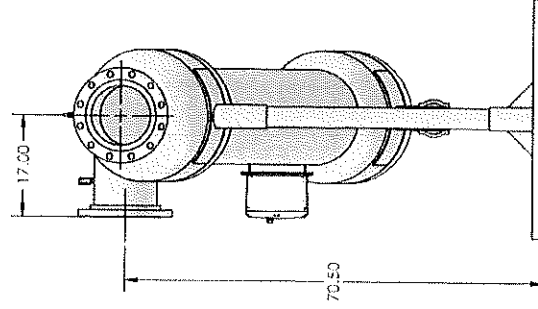
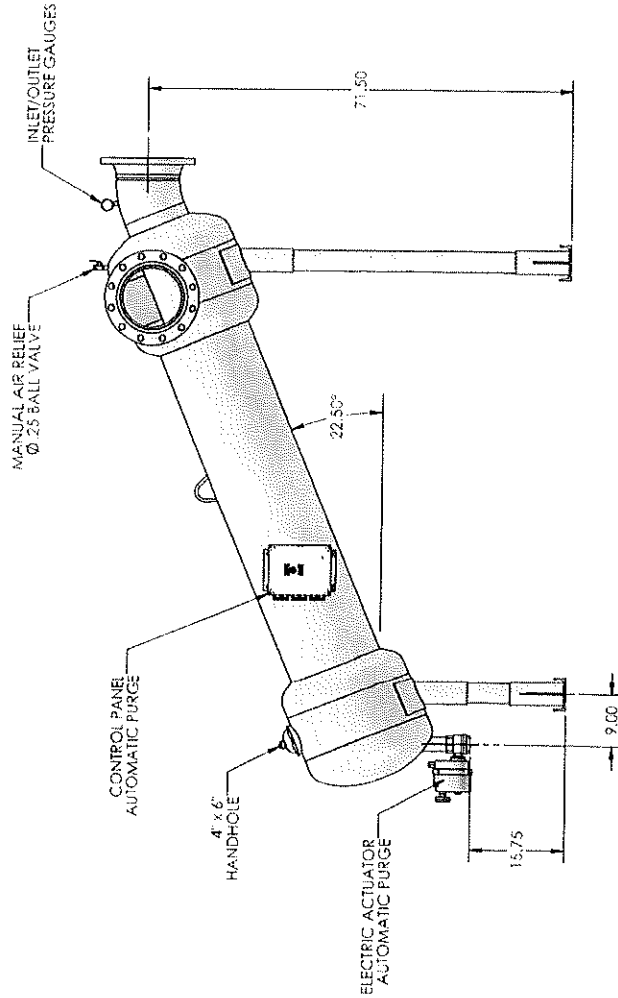
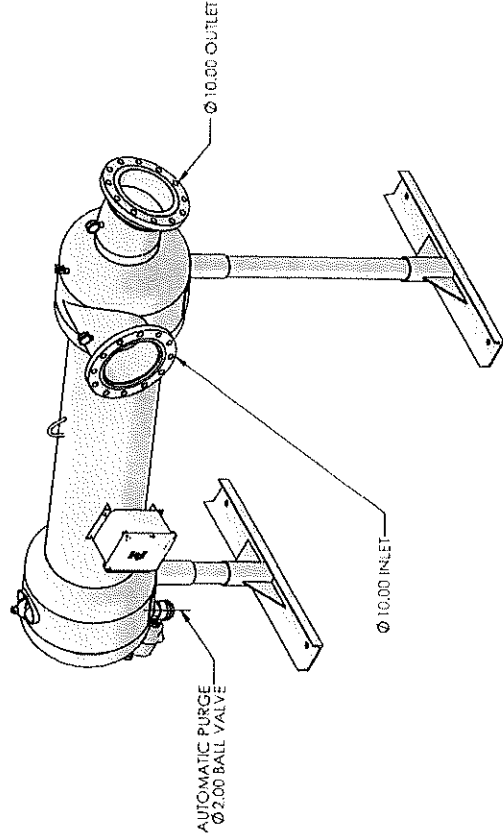
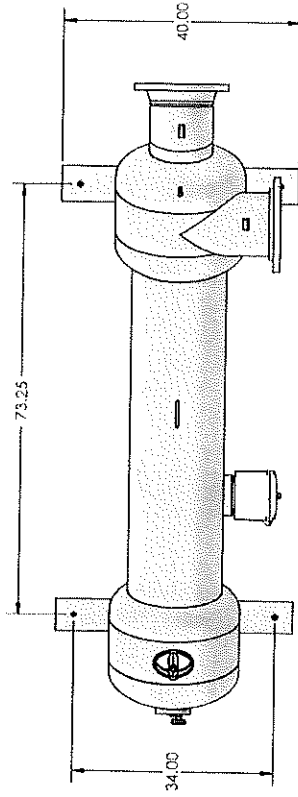
CV Factor: CV is defined as the flow in gallons per minute (GPM) that will produce a one pound pressure drop across the separator



| SPECIFICATIONS | PF-65-100 |
|--------------------------------|---------------|
| Flow Range | 1965-3930 GPM |
| System Inlet Connection | 10" Flg |
| System Outlet Connection | 10" Flg |
| Purge Connection | 2" fpt |
| Manual Air Bleed Valve | 1/4" fpt |
| Volume | 98 GAL |
| Est. Weight, Dry | 1056 lbs |
| Est. Weight, Operating | 1870 lbs |
| Handhole – Inspection/Cleanout | 4" x 6" |

NOTES: UNLESS OTHERWISE SPECIFIED

1. DIMENSIONS ARE IN INCHES
2. DIMENSIONS MAY VARY SLIGHTLY - DO NOT USE FOR CONSTRUCTION
3. SEPARATOR SYSTEM IS RATED FOR 150 PSI WORKING PRESSURE
4. VESSEL CONSTRUCTION: CARBON STEEL TANK
EPOXY COATED EXTERIOR



| | | | | |
|------------------------------|-------------------------------------|----------|-----------|-----|
| PROPERTY AND CONFIDENTIAL | PF-65-100-AP HYDROCYCLONE SEPARATOR | | | |
| | 1965 - 3930 GPM - 22.5 PROFILE | | | |
| | REV | DATE | BY | CHK |
| | C | 651-0011 | A. CARTER | B |
| SCALE | | N/A | | |



WWW.PUROFLUX.COM

SHEET 1 OF 1

WARNING !!!!!

THE EXTERNAL HAND WHEEL LOCATED ON THE PURGE ACTUATOR IS ONLY TO BE USED WHEN THERE IS NO POWER TO THE ACTUATOR. DISCONNECT POWER TO THE CONTROL PANEL BEFORE USING THIS FEATURE OR DAMAGE MAY OCCUR TO THE ACTUATOR.

THIS FEATURE IS FOR EMERGENCIES ONLY!

IF VALVE DOES NOT OPEN OR CLOSE FULLY ADJUST ACTUATOR CAMS TO CORRECT THE PROBLEM.

TIMER SETTINGS

THE PUROFLUX AUTO PURGE TIMER IS EQUIPPED WITH CONTROL DIALS TO PROGRAM THE PURGING CYCLES TO MATCH YOUR SPECIFIC NEEDS.

** POWER SHOULD BE TURNED OFF BEFORE CHANGING SETTINGS **

OPERATION MODE

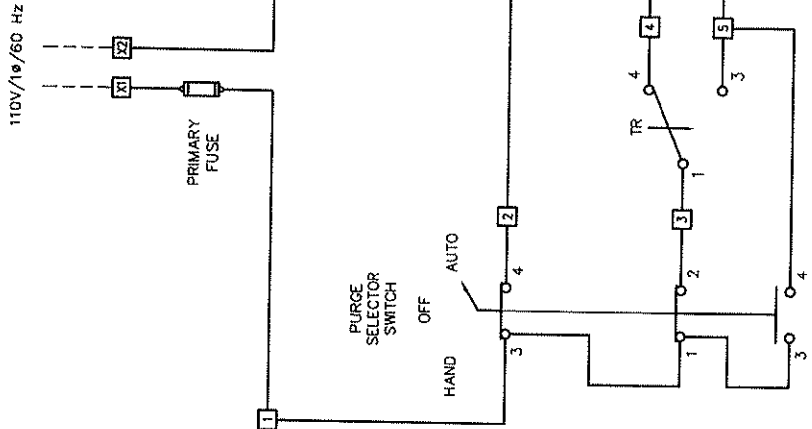
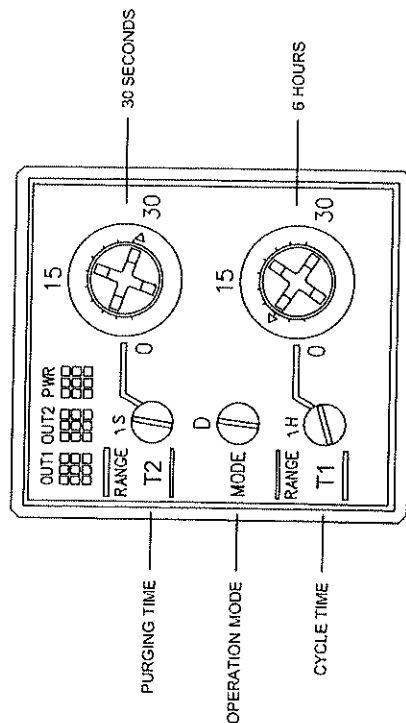
MIDDLE DIAL (MODE) : TIMER OPERATION MODE
FACTORY SETTING : "D"

CYCLE TIME

LOWER DIAL (T1) : FREQUENCY OF PURGING
RANGE (1H) : 36 MINUTES TO 30 HOURS
FACTORY SETTING : EVERY 6 HOURS

PURGING TIME

UPPER DIAL (T2) : DURATION OF PURGING
RANGE (1S) : 0.6 TO 30 SECONDS
FACTORY SETTING : 30 SECONDS



PANEL WIRING

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED
IN THIS DRAWING IS THE SOLE
PROPERTY OF PUROFLUX CORPORATION.
IT IS TO BE USED FOR THE PROJECT
AND NO PART OF IT IS TO BE
REPRODUCED OR TRANSMITTED IN
ANY FORM OR BY ANY MEANS
WITHOUT THE WRITTEN
PERMISSION OF PUROFLUX CORPORATION.
IT IS STRICTLY PROHIBITED.

WIRING DIAGRAM : 120V/1ø/60Hz
AUTOMATIC PURGE PANEL - VALBIA

SIZE DWG NO. 612-0046
C
REV A
DRAWN K. CARTER
RELEASE DATE 02-01-02
SCALE NONE

PUROFLUX CORPORATION

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SHEET 1 OF 1

July 1, 2023

