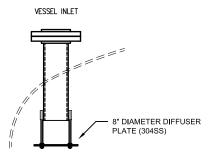


VALVE OPERATION MODE														
MODE OF OPERATION	VLV A1	VLV A2	VLV A3	VLV A4	VLV A5	VLV A6	VLV B1	VLV B2	VLV B3	VLV B4	VLV B5	VLV B6	VLV A7	VLV B7
UNIT A (ONLY) OPERATION	OPEN	CLOSE	CLOSE	OPEN	CLOSE									
UNIT B (ONLY) OPERATION	CLOSE	CLOSE	CLOSE	CLOSE	CLOSE	CLOSE	OPEN	CLOSE	CLOSE	OPEN	CLOSE	CLOSE	CLOSE	CLOSE
SERIES FLOW OPERATION UNIT A TO UNIT B	OPEN	CLOSE	CLOSE	CLOSE	CLOSE	OPEN	CLOSE	CLOSE	OPEN	OPEN	CLOSE	CLOSE	CLOSE	CLOSE
SERIES FLOW OPERATION UNIT B TO UNIT A	CLOSE	CLOSE	OPEN	OPEN	CLOSE	CLOSE	OPEN	CLOSE						
PARALLEL FLOW OPERATION UNIT A & UNIT B	OPEN	CLOSE	CLOSE	CLOSE	CLOSE									
UNIT A (ONLY) BACKWASH / ISOLATE B	CLOSE	OPEN	CLOSE	CLOSE	OPEN	CLOSE	OPEN	CLOSE	CLOSE	OPEN	CLOSE	CLOSE	OPEN	CLOSE
UNIT B (ONLY) BACKWASH / ISOLATE A	OPEN	CLOSE	CLOSE	OPEN	CLOSE	CLOSE	CLOSE	OPEN	CLOSE	CLOSE	OPEN	CLOSE	CLOSE	OPEN
UNIT A (ONLY) FILTER TO WASTE / ISOLATE B	OPEN	OPEN	OPEN	CLOSE	CLOSE	OPEN	OPEN	CLOSE	CLOSE	OPEN	CLOSE	CLOSE	CLOSE	CLOSE
UNIT B (ONLY) FILTER TO WASTE / ISOLATE A	OPEN	CLOSE	CLOSE	OPEN	CLOSE	CLOSE	OPEN	OPEN	OPEN	CLOSE	CLOSE	OPEN	CLOSE	CLOSE



UPPER DIFFUSER DETAIL

ASSEMBLY MATERIALS

VALVES
PROCESS & BACKWASH: Keystone 221, 4" CI Butterfly (wafer) with 316SS Disc, EPDM seat, 416SS Stem with Pneumatic Actuator (Fail Closed)

DRAIN: J&M Model 32SS, 2" SS Full Port Ball Valve, 2 Piece 150# Flanged Body, PTFE Seat, SS Stem and Ball VENT: J&M Model 511, 1/2" SS Reduced Port Ball Valve, 1 Plece Thd Body, PTFE Seat, SS Stem and Ball with Lever Handle

PRV: Kunkle Spec # 910BGGM01, 100 PSIG Set Press

4" PROCESS: CI Tees & Elbows 125#, ASTM A53 Steel Pipe Sch 40 with A105 Flanges 150#

1" VENT: A-53 Sch80 Pipe, Screwed Ends

INSTRUMENTATION & OTHER DEVICES

HUB: 4" FNPT Hub with (8) 1-1/2" Lateral Connections, PVC Construction

LATERALS: 1-1/2" Wedge Wire Screen x 30" OAL (.012" Slot Opening), PVC80 Construction PRESSURE GAUGES: Trerice Model 700LFSS-25-04-L-A-110, Liquid Filled 2-1/2" Process Gauge with SS Body

PRESSURE TRANDUCERS: Dwyer Model 626-10-CH-P1-S1, 0-100 PSIG, 4-20 mA Output

DIFFUSER PLATE: 304SS removable splash plate mounted to upper nozzle

Grade and Manufactuer to be determined. GAC Loaded on-site after hydrotest and disinfection.

GENERAL NOTES

1. System and supplied components utilize components and media acceptable to ANSI/NSF requirements for municipal potable water applications.

NOZZLE SCHEDULE OF OPENINGS								
/lark	Size	Rating	Type	Qty	Nozzle Description / or Service			
N1	4"	150#	FFSO	1	RAW WATER INLET			
N2	4"	150#	FFSO	1	TREATED WATER DISCHARGE			
N3	4"	150#	FF	1	BACKWASH FEED			
N4	4"	150#	FF	1	BACKWASH DISCHARGE			
N 5	2"	150#	FFSO	2	DRAIN			
N6	1"	150#	FFSO	2	VENT			
N7	20"	150#	RFSO	2	BED ACCESS			
N8	12x16	n/a	ELLIP	2	BED ACCESS			
	VESSEL DESIGN DATA							

VESSEL DESIGN DATA NATIONAL BOARD # = Year Built ASME Sec VIII, Div 1, 2007 Edition, No Addenda essel Serial Number nternal Design Pressure 100 PSIG Capacity (Volume) Head: 96 ft3 Shell: 301 ft3 ernal Design Temperature 140 Deg F. Shipping Weight (Empty) Vessels: 5,630 lbs (each) Plping: 2,857 lbs 15 PSI Operational Weight NOT APPLICABLE perating Pressure Nominal GAC Capacity 7,000 lbs (each) Operating Temperature NOT APPLICABLE /lin. Design Metal Temp. 0 Deg F. AT 100 PSIG //AWP (New & Cold) 100 PSIG (LIMITED BY HEAD) AWP (Hot & Corroded) 100 PSIG (LIMITED BY HEAD) Access: EPDM (Ring) Piping: Red Rubber (Full Face Hydrostatic Test Pressure 130 PSIG AT AMBIENT TEMP. / Medium = WATER Studs and Nuts SA-193-R7 / SA-194-2H Internal SSPC-SP10 (2-3 mil), External (SSPC-SP10 urface Prep. Radlography NONE Internal Coating S, Williams Duraplate 235 NSF 12 mils DFT (SYS #2) Post Weld Heat Treat NOT APPLICABLE S. Williams Macropoxy 646 5 mils DFT External Paint or Coating S. Williams Macropoxy 646 5 mils DFT (ANSI Lt. Grey EXEMPT PER UG 20(f) 1-5 Material Impact Tests Insulation (type & thickness) NOT APPLICABLE

Continental Carbon Group

Stoney Creek, ON L8E-0C5 Tel: 905-643-7615 info@continental-carbon.com | www.continental-carbon.com Multi-Media Filter Unit GENERAL ASSEMBLY