

DRAWINGS

FOR

**INTUTECH OZONATION MODULE  
Z11-11PC-1GC-2OS-1TM-1DO-0PH-2CF**

FOR

**INSTALLATION**

RELEASE #1

JULY 29, 2022

REV	DATE	BY	DESCRIPTION	DIMENSIONAL TOLERANCES ARE AS FOLLOWS, UNLESS OTHERWISE SPECIFIED		TITLE: PROCESS & INSTRUMENTATION DIAGRAM	
1				 <p>THIS DRAWING IS THE INTELLECTUAL PROPERTY OF INTUITECH AND MAY NOT BE REPRODUCED IN FULL OR IN PART FOR ANY PURPOSE</p>	FRAC: ± 1/16	0.XX: ± 0.01	<b>SYMBOL LEGEND</b> CLIENT: PROJECT: DRAWN BY: DRAWN DATE: DRAWING NAME: 0000-XXRL-01.VSD P.O.:
2			ANGLES: ± 1°		0.XXX: ± 0.005		
3							

**DEVICE SYMBOLS**

- FIELD MOUNTED DEVICE
- ENCLOSURE MOUNTED DEVICE
- BACKPLANE MOUNTED DEVICE
- PROGRAMMABLE OPERATOR INTERFACE (ENCLOSURE MOUNTED)
- PROGRAMMABLE LOGIC CONTROLLER (BACKPLANE MOUNTED)

**MISCELLANEOUS**

- MINOR PROCESS LINE
- MAJOR PROCESS LINE
- ELECTRICAL SIGNAL
- WATER SURFACE
- DOUBLE WALL PIPE
- MAJOR ARROW
- MINOR ARROW
- PROCESS VALUE POINT
- DRAIN WITH AIR BREAK
- PROCESS BOUNDARY
- CONDUIT SEAL-OFF
- 

**INSTRUMENTATION**

- VARIABLE AREA FLOWMETER
- PADDLE WHEEL/ TURBINE FLOWMETER
- MAGNETIC FLOWMETER
- LAMINAR FLOWMETER
- VORTEX SHEDDING FLOWMETER
- THERMAL DISPERSION FLOWMETER
- ULTRASONIC LEVEL DEVICE
- OPTICAL DISTANCE TRANSMITTER
- FLOAT LEVEL DEVICE
- SIGHT LEVEL DEVICE
- GUIDED WAVE RADAR LEVEL DEVICE
- PRESSURE DEVICE
- CAPACITIVE LEVEL DEVICE

**PROCESS EQUIPMENT**

- ELECTRIC MIXER
- HEAT EXCHANGER
- HEATER
- STATIC MIXER
- PIPE WEIR WITH AIR BREAK
- EDUCTOR
- FILTER / STRAINER
- COALESCING FILTER
- ORIFICE PLATE
- RUPTURE DISK
- PRESSURE GAUGE ISOLATOR
- PIPE REDUCER
- FLOW THROUGH CELL
- INSPECTION LIGHT

**PUMPS/ BLOWERS**

- BLOWER
- CENTRIFUGAL PUMP
- DIAPHRAGM PUMP
- FLEXIBLE IMPELLER PUMP
- BI-DIRECTIONAL FLEXIBLE IMPELLER PUMP
- PERISTALTIC PUMP
- PROGRESSIVE CAVITY PUMP
- ROTARY LOBE PUMP
- GEAR PUMP
- COMPRESSOR

**CONTROL FUNCTIONS**

- PROPORTIONAL, INTEGRAL & DERIVATIVE
- FLOW PACING
- SUBTRACTION
- PULSE WIDTH MODULATION
- CALCULATION
- SELECTION
- SUMMATION
- MULTIPLEXER
- TRIM
- SET POINT LIMITING

**VALVES**

- NEEDLE VALVE
- BUTTERFLY VALVE
- BALL VALVE
- CHECK VALVE
- GLOBE VALVE
- DIAPHRAGM VALVE
- GATE VALVE
- 3-WAY BALL VALVE
- 3-WAY GENERAL VALVE
- PLUG VALVE
- GENERAL VALVE
- AIR RELIEF VALVE
- VACUUM RELIEF VALVE
- PRESSURE / SAFETY RELIEF VALVE

**CONTROL PHILOSOPHY**

- SEQUENCER STEP
- DECISION
- OPERATOR INPUT
- PROCESS
- REFERENCE TO A DIFFERENT PAGE
- IF CONDITION IS TRUE CONTINUE

**ACTUATORS**

- PRESSURE REGULATING ACTUATOR
- AIR-TO-OPEN/ SPRING TO CLOSE ACTUATOR
- AIR-TO-OPEN/ AIR-TO-CLOSE ACTUATOR
- AIR-TO-CLOSE/ SPRING-TO-OPEN ACTUATOR
- ELECTRIC ACTUATOR
- SOLENOID ACTUATOR
- HAND ACTUATOR
- LEVEL ACTUATOR



**ELECTRICAL**

	WIRING PROVIDED BY OTHERS		RESISTOR
	INTERNAL WIRING OR COMPONENTS		VARISTOR
	NON-WIRE JUMPERS		CAPACITOR
	STRANDED COPPER WIRE		HAND-OFF-AUTO SWITCH
	TWISTED PAIR CABLE WITH SHIELD & DRAIN		TWO POSITION SWITCH
	MOLDED CABLE		FLOW SWITCH
	SPECIAL CABLE		LIQUID LEVEL SWITCH
	INTEGRAL CABLE		TEMPERATURE SWITCH
	CAT5E CABLE		NORMALLY OPEN PUSH-BUTTON
	PANEL BOUNDARY		NORMALLY CLOSED PUSH-BUTTON
	DEVICE AND COMPONENT BOUNDARIES		LINE REACTOR
	VARIABLE FREQUENCY DRIVE		SIGNAL POLE SWITCH
	SEAL-OFF CONNECTOR		PRESSURE SWITCH
	SURGE PROTECTION DEVICE		WIRELESS LINK
	LOAD		
	MOTOR		
	TRANSFORMER		
	SHIELD		
	PLUG CONNECTOR		
	INLINE CONNECTOR (SPLICE, WIRE NUT, ETC)		
	GROUND		
	TERMINAL		
	COIL		
	LIGHT WITH COLOR		
	CIRCUIT BREAKER		
	FUSE		
	NORMALLY OPEN CONTACT		
	NORMALLY CLOSED CONTACT		
	OVERLOAD RELAY		

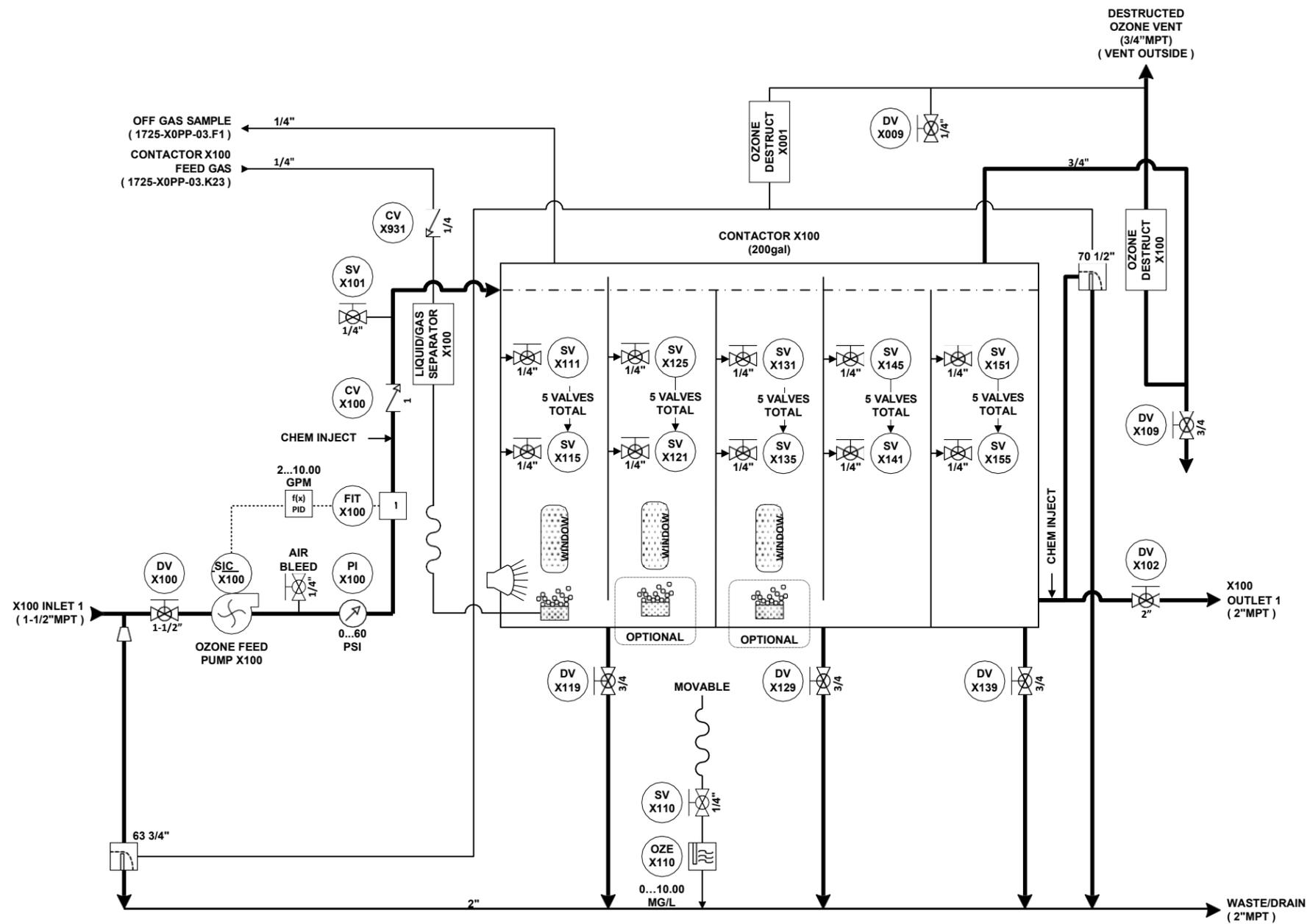
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DIMENSIONAL TOLERANCES ARE AS FOLLOWS, UNLESS OTHERWISE SPECIFIED	
FRAC: ± 1/16	0.XX: ± 0.01
ANGLES: ± 1°	0.XXX: ± 0.005

TITLE: <b>ELECTRICAL SYMBOL LEGEND</b>	
CLIENT:	PROJECT:
DRAWN BY:	DRAWN DATE:
DRAWING NAME: 0000-XXRL-03.VSD	P.O.:



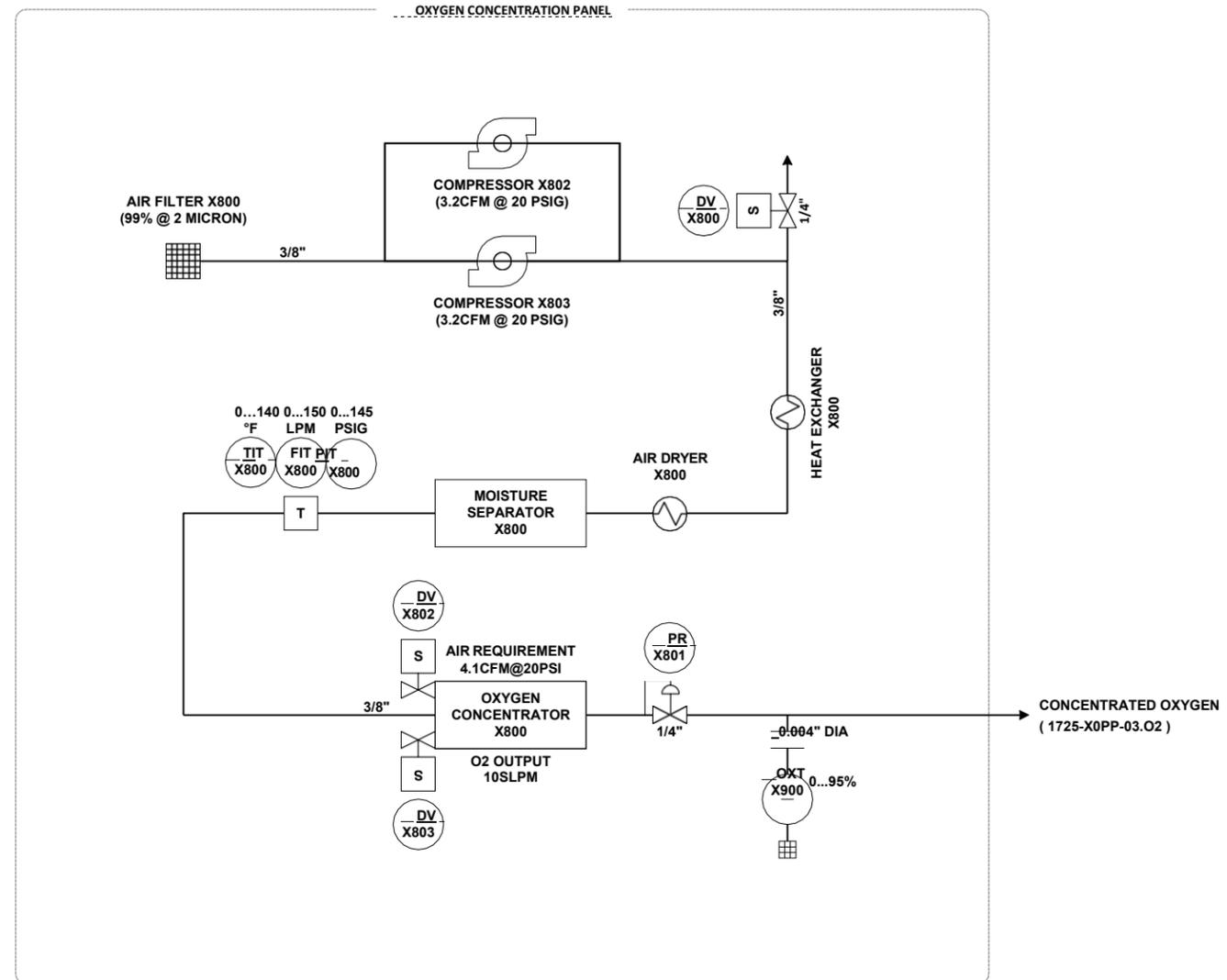
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<b>TITLE: OZONE MODULE Z11-11PC-1GC-2OS-1TM-1DO-0PH-2CF</b> <b>PROCESS &amp; INSTRUMENTATION DIAGRAM - PROCESS</b>	
CLIENT: INTUITECH	PROJECT: NEW BUILD
DRAWN BY: AJB	DRAWN DATE: 07/29/22
DRAWING NAME: 1725-X0PP-01	P.O.:
SCALE: NONE	REVISION: 0



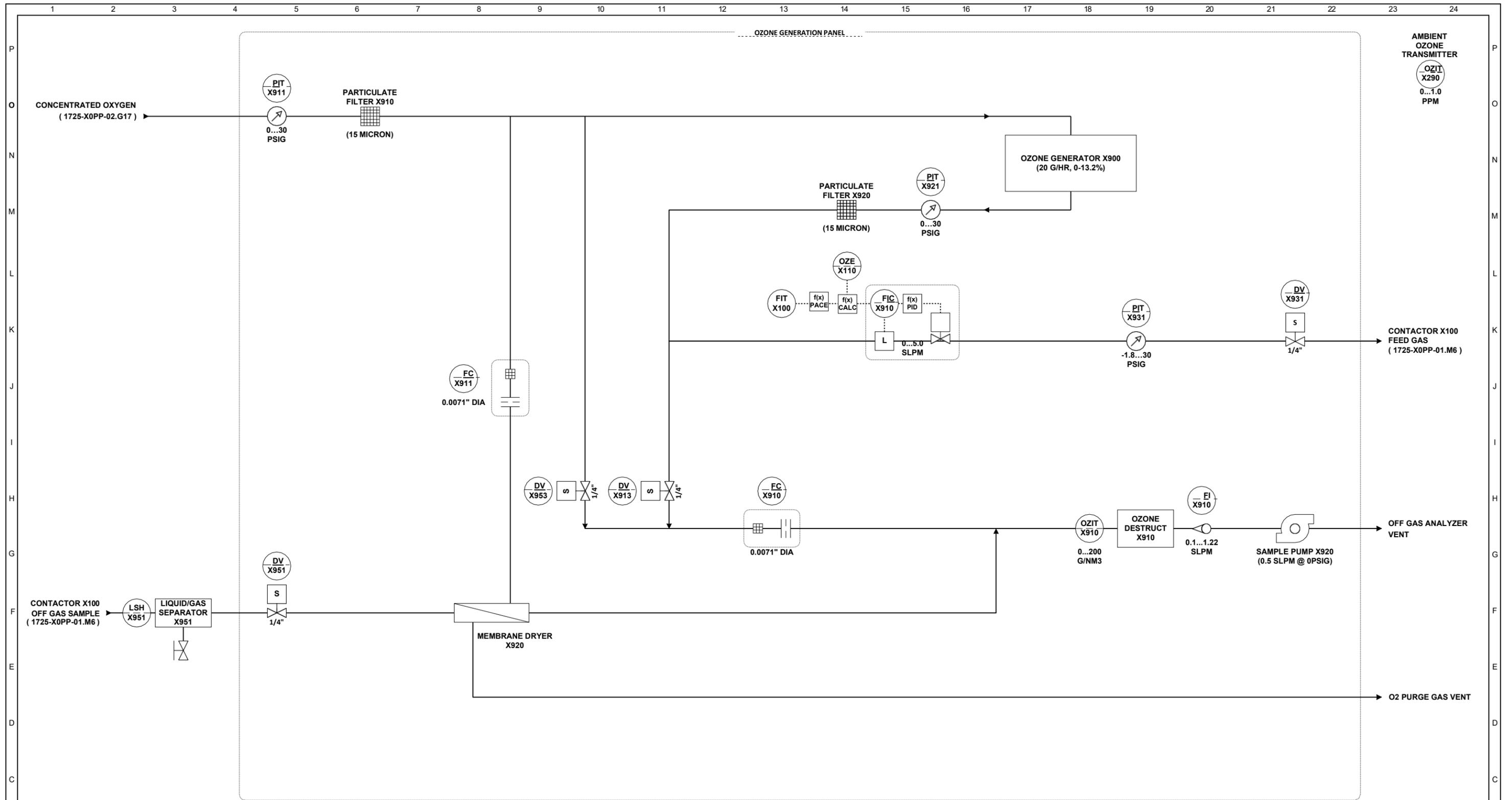
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 ANGLES: ± 1°    0.XXX: ± 0.005

<b>TITLE: OZONE MODULE Z11-11PC-1GC-2OS-1TM-1DO-0PH-2CF</b>	
<b>PROCESS &amp; INSTRUMENTATION DIAGRAM - OXYGEN</b>	
CLIENT: INTUITECH	PROJECT: NEW BUILD
DRAWN BY: AJB	DRAWN DATE: 07/29/22
DRAWING NAME: 1725-X0PP-02	P.O.:
SCALE: NONE	REVISION: 0



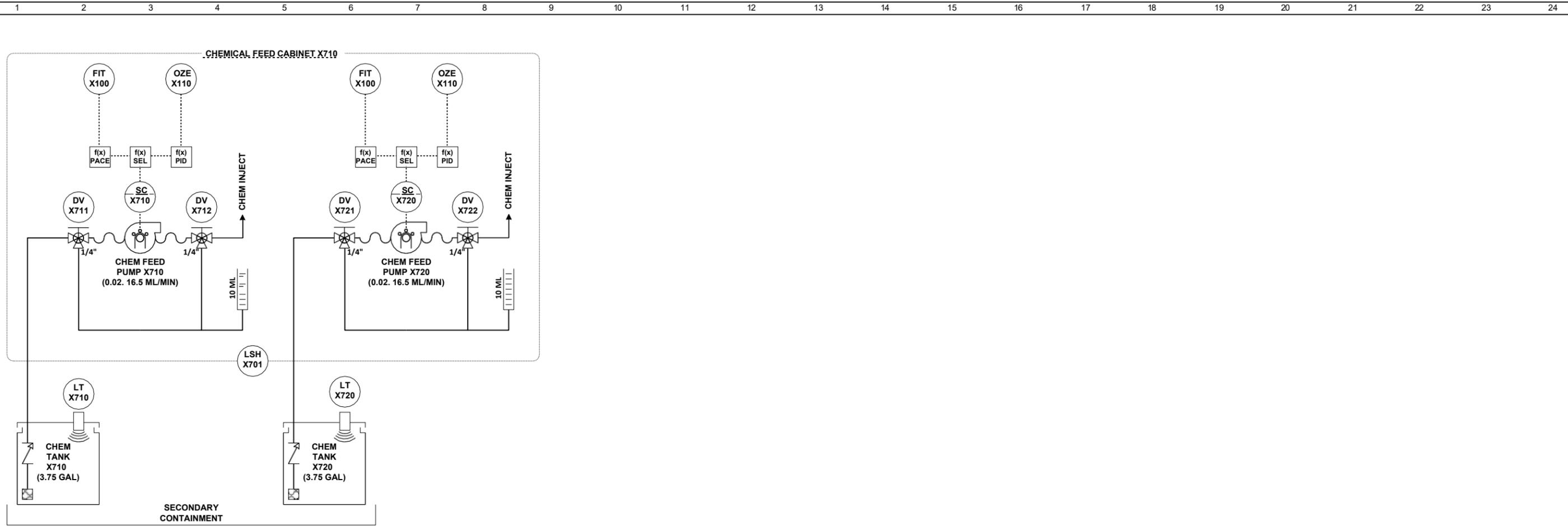
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 ANGLES: ± 1°    0.XXX: ± 0.005

<b>TITLE: OZONE MODULE Z11-11PC-1GC-2OS-1TM-1DO-0PH-2CF</b>	
<b>PROCESS &amp; INSTRUMENTATION DIAGRAM - OZONE</b>	
CLIENT: INTUITECH	PROJECT: NEW BUILD
DRAWN BY: AJB	DRAWN DATE: 07/29/22
DRAWING NAME: 1725-X0PP-03	P.O.:
SCALE: NONE	REVISION: 0



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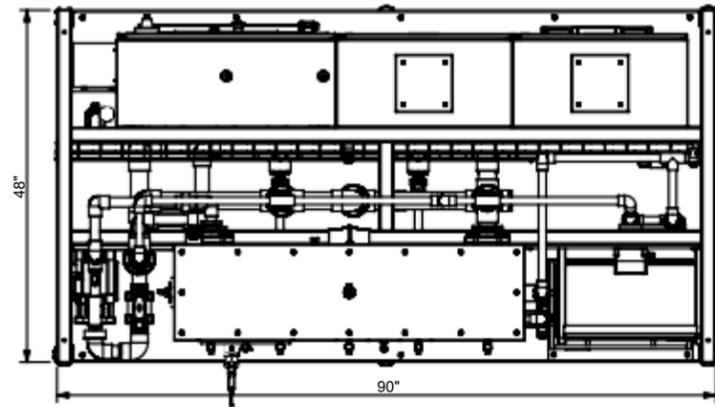
  
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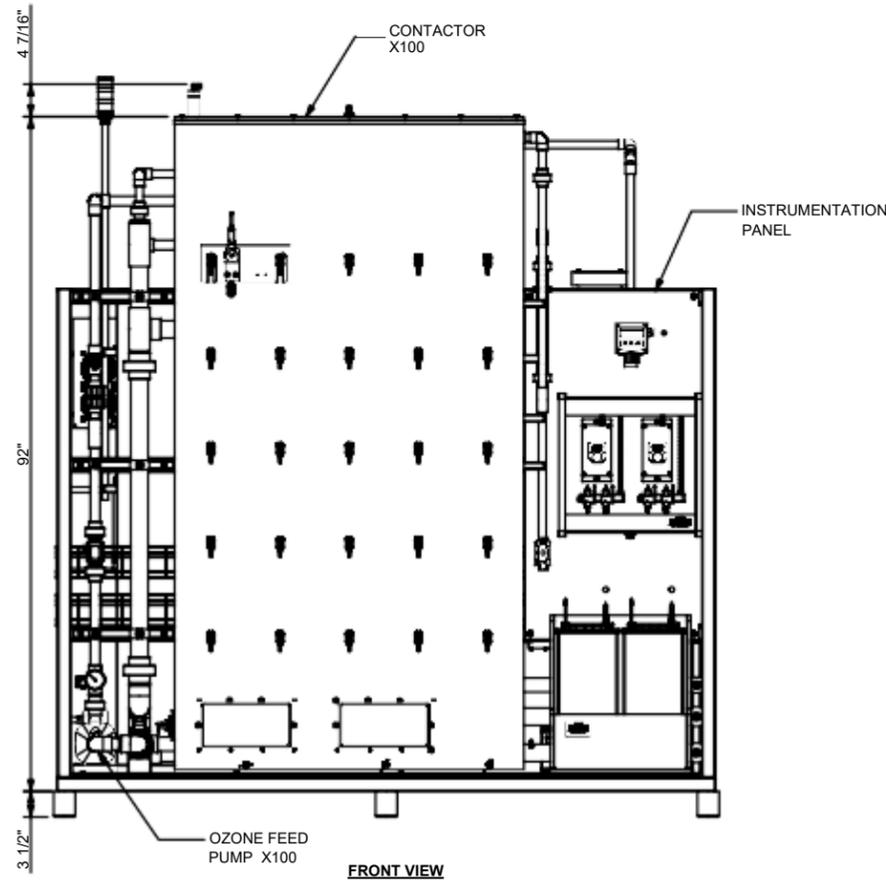
DIMENSIONAL  
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 FOLLOWS, UNLESS  
 OTHERWISE SPECIFIED

FRAC: ± 1/16    0.XX: ± 0.01  
 ANGLES: ± 1°    0.XXX: ± 0.005

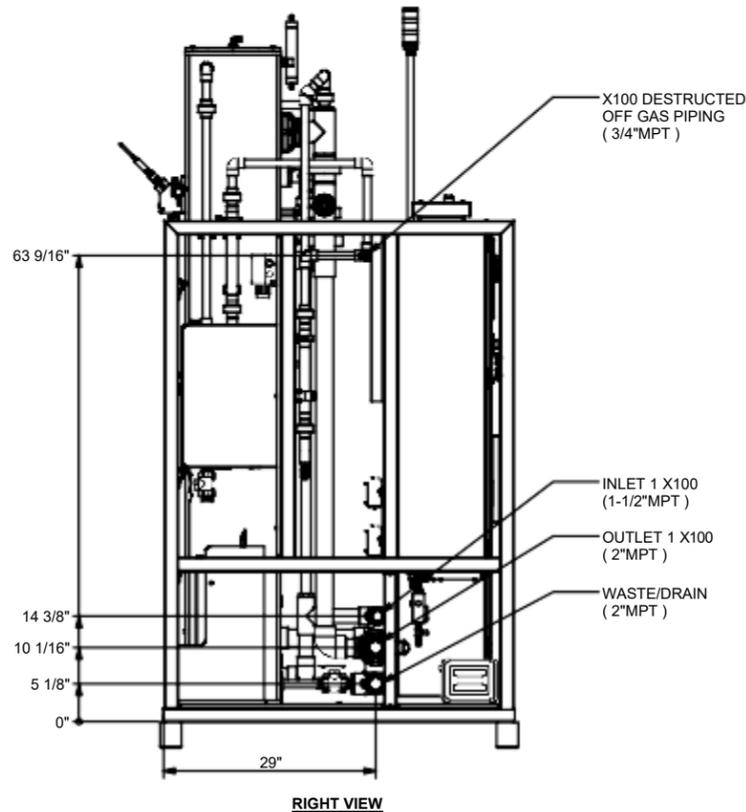
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<b>PROCESS &amp; INSTRUMENTATION DIAGRAM - CHEMICAL</b>	
CLIENT: INTUITECH	PROJECT: NEW BUILD
DRAWN BY: AJB	DRAWN DATE: 07/29/22
DRAWING NAME: 1725-X0PP-04	P.O.:
SCALE: NONE	REVISION: 0



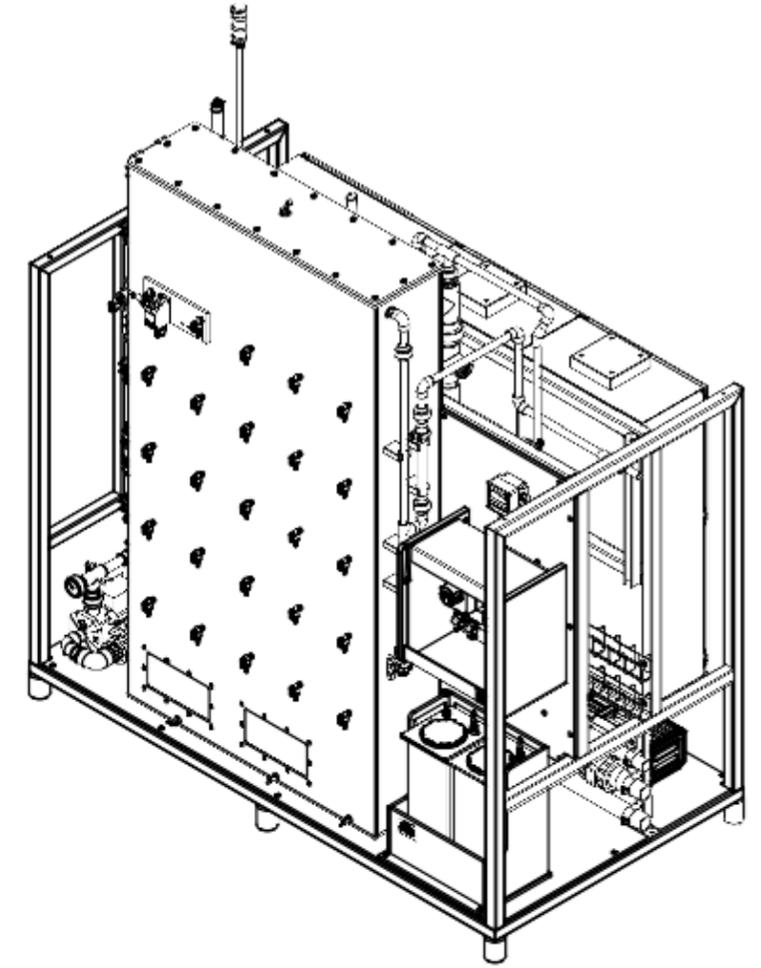
TOP VIEW



FRONT VIEW



RIGHT VIEW



**NOTES:**

1. ESTIMATED DRY WEIGHT: 1,950 LBS.
2. ESTIMATED WET WEIGHT: 3,600 LBS.
3. ESTIMATED SHIP WEIGHT: 2,050 LBS.

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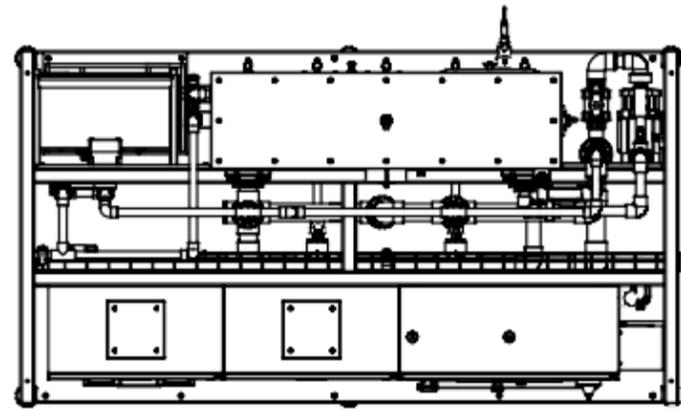
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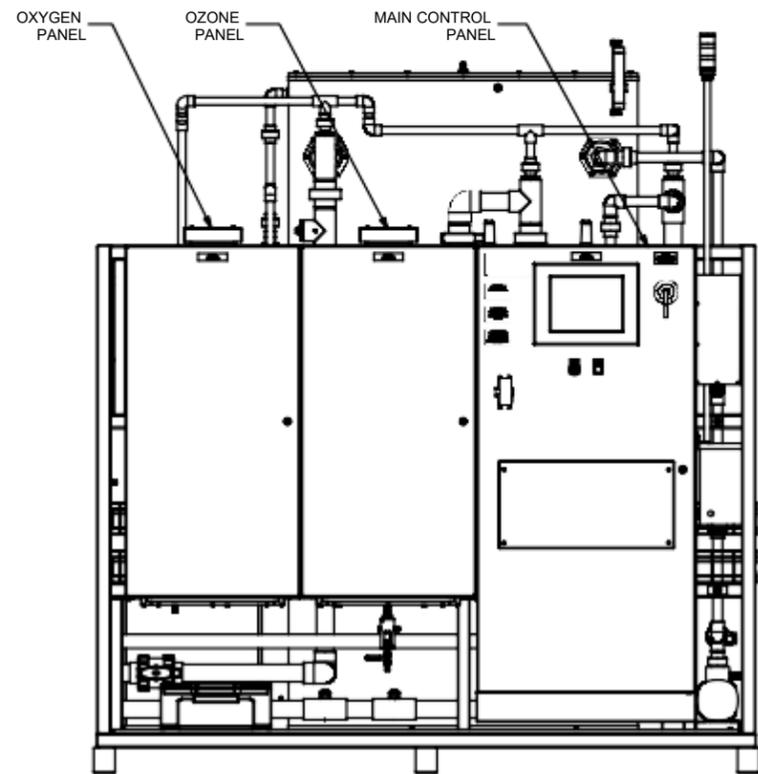
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ANGLES:	±1°	0.XXX: ±0.005

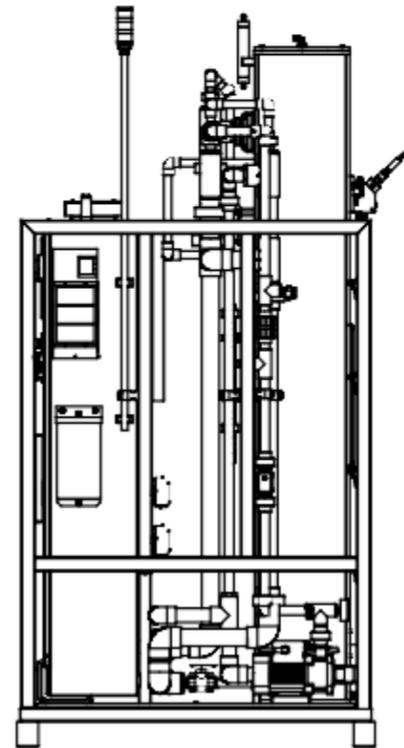
<b>TITLE:</b> OZONE MODULE Z11-11PC-1GC-2OS-1TM-1DO-0PH-2CF - GENERAL ARRANGEMENT	
<b>CLIENT:</b> INTUITECH	<b>PROJECT:</b> NEW BUILD
<b>DRAWN BY:</b> MRM	<b>DRAWN DATE:</b> 07/29/2022
<b>DRAWING NAME:</b> 1725-X0GA-01	<b>P.O.:</b>
<b>SCALE:</b> NONE	<b>REVISION:</b> 0



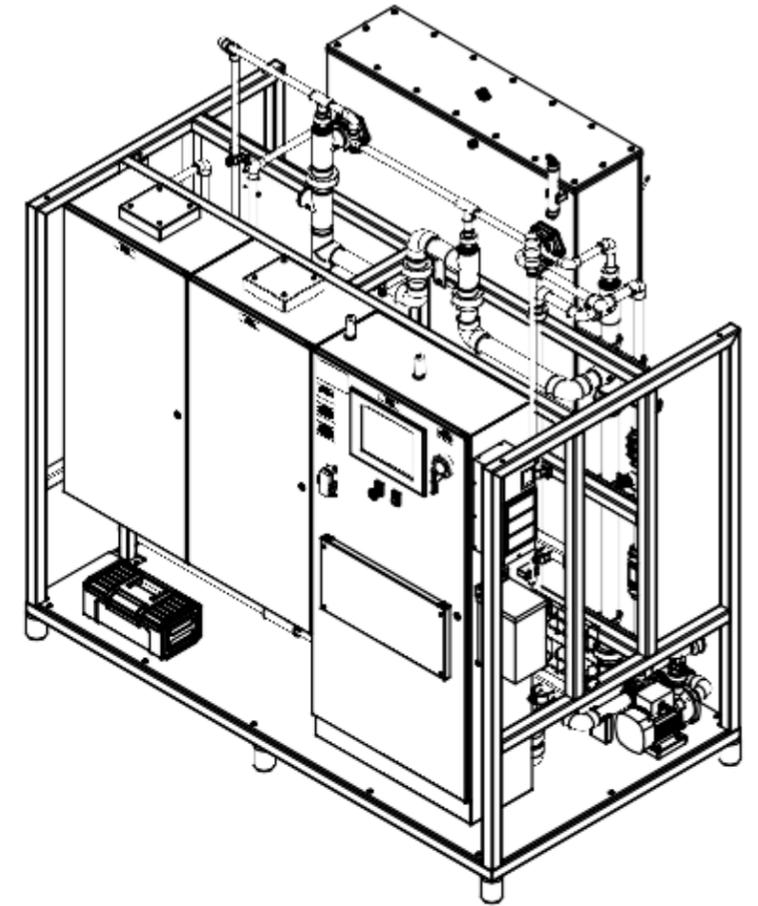
TOP VIEW



FRONT VIEW



LEFT VIEW



**NOTES:**

1. ALL PANELS MOUNT TO FRAME WITH 3/8"-16 X 1" STUDS, SEALING WASHERS AND NYLOCK NUTS

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FRAC: ±1/16 0.XX: 0.001

ANGLES: ±1° 0.XXX: 0.005

**TITLE: OZONE MODULE Z11-11PC-1GC-2OS-1TM-1DO-0PH-2CF - GENERAL ARRANGEMENT**

**CLIENT: INTUITECH**

**PROJECT: NEW BUILD**

**DRAWN BY: MRM**

**DRAWN DATE: 07/29/2022**

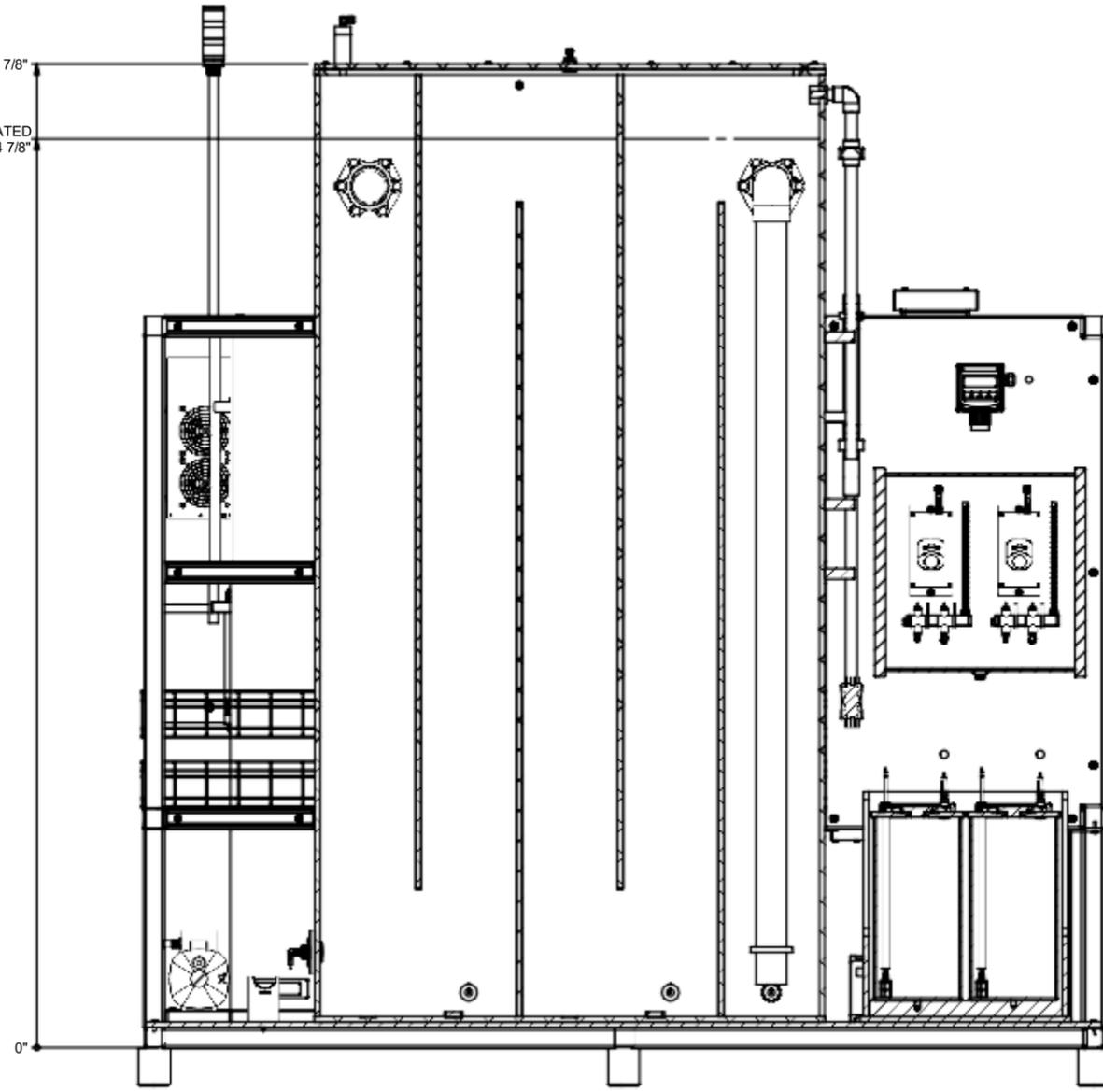
**DRAWING NAME: 1725-X0GA-02**

**P.O.:**

**SCALE: NONE**

**REVISION: 0**

TOP OF CONTACTOR TANK 91 7/8"  
 CONTACTOR X100 ANTICIPATED  
 WORKING HEIGHT 84 7/8"



ELEVATION VIEW

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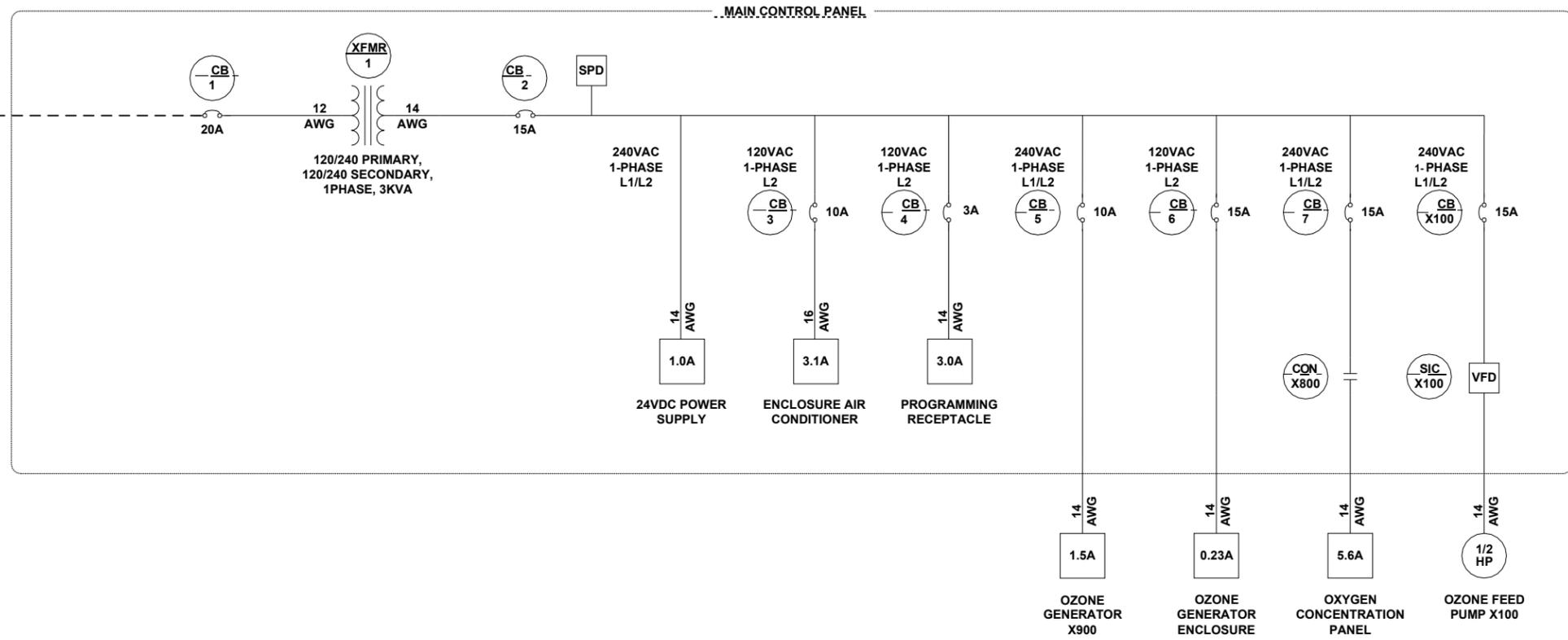


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 FRAC: ±1/16 0.XX: 0.01  
 ANGLES: ±1° 0.XXX: 0.005

<b>TITLE:</b> OZONE MODULE Z11-11PC-1GC-2OS-1TM-1DO-0PH-2CF - SKID WITH COMPONENTS - ELEVATION	
<b>CLIENT:</b> INTUITECH	<b>PROJECT:</b> NEW BUILD
<b>DRAWN BY:</b> MRM	<b>DRAWN DATE:</b> 07/29/2022
<b>DRAWING NAME:</b> 1725-X0ML-03	<b>P.O.:</b>

SUPPLY VOLTAGE:  
120VAC, 1PHASE, 60HZ, 20A OR  
240VAC, 1PHASE, 60HZ, 10A  
SCCR 10KA



NOTES:  
1. THE AVAILABLE SHORT CIRCUIT CURRENT SUPPLIED TO THIS EQUIPMENT SHALL NOT EXCEED THE MARKED SHORT CIRCUIT CURRENT RATING (SCCR) OF THIS EQUIPMENT  
2. NEMA 5-20P (120 VAC) OR NEMA 6-15 (240 VAC)

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ANGLES: ± 1°    0.XXX: ± 0.005

TITLE: OZONATION MODULE Z11-11PC-1GC-2OS-1TM-1DO-0PH-2CF MAIN CONTROL PANEL ONE LINE DIAGRAM	
CLIENT: INTUITECH	PROJECT: NEW BUILD
DRAWN BY: BNL	DRAWN DATE: 07-29-22
DRAWING NAME: 1725-X0LD-01	P.O.:
SCALE: NONE	REVISION: 0