

EH-004
CIRCULATION HEATER
ELECTRIC
15 KW
316L SS WETTED
460 VAC, 3 PH, 60 HZ

P-001
SUPPLY PUMP
190 mm IMPELLER
PUMP SIZED FOR 240 GPM @ 100 PSIG
316L SS
25 HP, 3500 RPM
460 VAC, 3 PH, 60 HZ

TK-100
SEPARATOR
13 GALLON WORKING
Ø10" OD x 32" SIDEWALL
316L SS WETTED
304 SS NON-WETTED
ATMOSPHERIC

P-202
CHEM #1 - ALKALINE PUMP
AIR OPERATED DIAPHRAGM
1.5 GPM @ 40 PSI
POLYPROPYLENE

P-302
CHEM #2 - ACID PUMP
AIR OPERATED DIAPHRAGM
1.5 GPM @ 40 PSI
POLYPROPYLENE

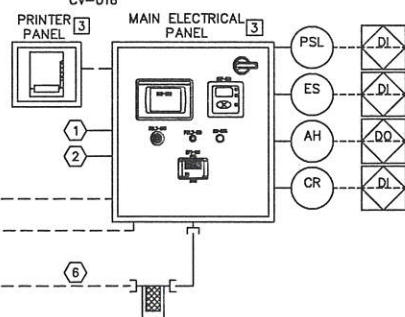
UF110 DUTY
MAX 110 GPM @ 80 PSIG
CIP SUPPLY - ZONE 1 - 2.0" TC
TARGET DUTY 1: 52 GPM @ 80 PSIG
TARGET DUTY 2: 73 GPM @ 80 PSIG
CIP SUPPLY - ZONE 2 - 2.0" TC
TARGET DUTY 3: 43 GPM @ 80 PSIG

CIP RETURN 2.0" TC

ETHERNET

460 VAC, 60 HZ, 3 PH

INSTRUMENT AIR 0.50" NPT



UTILITY REQUIREMENTS

↓ DRAIN	25 GPM	80 °C
AS AIR SUPPLY	10 SCFM	90 PSIG
PW PURIFIED WATER SUPPLY	5-20 GPM	20 PSIG 87 °C
PWS POTABLE WATER SUPPLY	20 GPM	20 PSIG 20 °C
ES ELECTRICAL SUPPLY	460 VAC	60 AMP 60 HZ 3Ø
ALK CHEM 1 - ALKALINE	-	-
ACID CHEM 2 - ACID	-	-

GENERAL NOTES:

- REFERENCE SMI DRAWINGS & DOCUMENTS:
 - XXXXXX FOR ULTRAFLOW 110 MECHANICAL DRAWING.
 - 839701 ULTRAFLOW 110 EXCEL SPREADSHEET FOR MECHANICAL BILL OF MATERIAL.
- ALL SANITARY WELDS ARE TO BE ORBITAL WELD WHERE PRACTICAL.
- SPOOL PIECES IN SANITARY HORIZONTAL LINES ARE NOT TO BE LESS THAN THE TUBE SIZE ITSELF.
- FRAME IS CONSTRUCTED OF 304 SS BOX TUBING WITH WELDS DISCOLORED.
- THE FOLLOWING ARE REQUIRED:
 - WELD DOCUMENTATIONS
 - WELD LOGS
 - WELD MAPS
 - WELD VIDEOS
 - MATERIAL CERTS FOR WETTED SURFACES
 - SURFACE FINISH CERTS FOR WETTED SURFACES
 - PASSIVATION CERT
- PROCESS LINES TO BE PITCHED 1/8" PER FOOT MINIMUM.
- RIGID CONDUIT & FITTINGS TO BE SCH 40 GALVANIZED PIPE WITH PVC COATING.
- FLEXIBLE CONDUIT TO BE PVC COATED GALVANIZED WITH PVC COATED FITTINGS.
- CONNECTIONS TO DEVICES OPERATING AT LESS THAN 50 V WILL BE CORDS. INSTRUMENTS REQUIRING CALIBRATION WILL INCLUDE 3 FT OF CORD.
- PNEUMATIC LINES TO BE CLEAR OR BLUE COLORED POLYETHYLENE WITH QUICK CONNECT FITTINGS.
- TRI-CLAMP GASKETS CLASS VI EPDM WITH SINGLE-HINGE HEAVY DUTY CLAMPS FOR 2.5" AND SMALLER LINES, 2-BOLT HEAVY DUTY CLAMPS FOR 3" AND LARGER LINES. SEPARATOR TANK GASKET CLASS VI VITON.
- APPROXIMATE WEIGHTS: EMPTY = 1,200 LBS
OPERATING = 1,300 LBS
- TUBING TO BE INSULATED WITH CHLORIDE FREE INSULATION WITH PVC SHEATHING.

P&ID NOTES:

- TO BE INSTALLED IN THE VERTICAL.
- PRIMING VALVE.
- REFER TO ELECTRICAL DRAWINGS AND BOM FOR COMPONENT TAG#S AND DESCRIPTIONS.
- AIR BREAK REQUIRED.
- SKID PROVIDED WITH ADJUSTABLE LEVELING FEET & (2) FRAME MOUNTED TUBULAR BUBBLE LEVEL
- HOSE BY OTHERS
- PIPE TO WITHIN 6" OF FLOOR.
- CHEMICAL DRIP PAN. - FULL CONTAINMENT
- SAMPLE VALVE
- BACKFLOW PREVENTION DEVICE RECOMMENDED UPSTREAM - BY OTHERS
- INSTALLED W/ 45° LATERAL TEE
- SUPPLIED BY OTHERS

AS-BUILT:

29 JUL 2020

LINE LEGEND

----- BY OTHERS

THIS DIAGRAM IS INTENDED TO EXPRESS GENERAL FEATURES OF THE SUBJECT EQUIPMENT AND THE RELATIONSHIP OF ITS INSTRUMENTS. PHYSICAL DETAILS SUCH AS THE ORIENTATION OF THE EQUIPMENT, PORT LOCATIONS ON TANKS AND ELEVATION ARE EXAMPLES OF INFORMATION BEYOND THE SCOPE OF THIS DOCUMENT. PLEASE REFER TO THE APPROPRIATE ASSEMBLY DRAWING OF THE SUBJECT EQUIPMENT FOR INFORMATION REGARDING THESE DETAILS.

This drawing and the information it contains is the property of Sani-Matic, Inc. This drawing is loaned strictly on the condition that it will not be used, produced or copied in any manner. That it will be returned to the owner immediately on demand, and that it will be used solely in connection with work being performed for, or specifically authorized in writing by Sani-Matic, Inc.

SANI-MATIC, INC.
SANI-MATIC (p)800-356-3300 · sanimatic.com
APHENA PHARMA SOLUTIONS
107657
P&ID, ULTRAFLOW 110

DR. BY: CEF	DATE: 24OCT19	DRAWING NO.: 839701	REV: D
CK. BY: N.T.S.	SCALE:		