

Notes:

- ALL INTERCONNECTING PIPE AND FITTINGS SHALL BE INSTALLED BY THE CONTRACTOR.
- ALL PIPING SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 99. PIPING LAYOUT IS DIAGRAMMATIC ONLY. FINAL ARRANGEMENT WILL BE SITE SPECIFIC. CONTRACTOR WILL BE RESPONSIBLE FOR FIELD VERIFICATION AND COORDINATING ACTUAL LOCATION WITH ALL OTHER TRADES.
- CONTRACTOR SHALL VERIFY MOTOR VOLTAGE, PHASE AND AMP RATINGS BEFORE STARTING ELECTRICAL INSTALLATION; AND MAKE CERTAIN THE VOLTAGE SUPPLIED BY THE HOSPITAL IS THE SAME.
- THE ROOM REQUIRES DEDICATED MECHANICAL VENTILATION WITH AN ALLOWABLE TEMPERATURE VARIANCE OF 40° TO 105°F. (FOR HIGHER AMBIENTS, CONSULT FACTORY)
- ELECTRICAL POWER SHALL BE SUPPLIED FROM THE EQUIPMENT SYSTEM BRANCH OF THE ESSENTIAL ELECTRICAL SYSTEM (EMERGENCY POWER).
- EQUIPMENT, INSTALLATION, AND TESTING OF THE MEDICAL VACUUM SYSTEM SHALL COMPLY WITH NFPA 99, AND ALL STATE AND LOCAL CODES OR ORDINANCES.
- WIRE LAG PUMP RUNNING ALARM REMOTE CONTACTS IN THIS CONTROL SYSTEM TO MASTER ALARM SYSTEM AS REQUIRED BY NFPA 99.
- ALL ACCESSORIES, PIPE AND FITTINGS, EXCEPT DISCHARGE SILENCERS, BEYOND INLET AND DISCHARGE PORTS ARE SUPPLIED AND INSTALLED BY OTHERS.
- WHEN DETERMINING THE TOTAL PIPE LENGTH, ADD ALL THE STRAIGHT LENGTHS OF PIPE TOGETHER IN ADDITION TO THE NUMBER OF ELBOWS TIME THE THE EFFECTIVE PIPE LENGTH FOR THAT PIPE SIZE. (SEE EQUIVALENT PIPE LENGTH TABLE & EXAMPLE CALCULATION IN THE O&M MANUAL)
- PUMP MODULE CONTROL WIRING IS LOW VOLTAGE WIRING (24Vdc). LOW VOLTAGE WIRING MUST BE ROUTED SEPARATELY FROM HIGH VOLTAGE WIRING (200-480Vac). SEPARATION OF LOW VOLTAGE AND HIGH VOLTAGE WIRING MUST ALSO BE MAINTAINED INSIDE THE CONTROL PANEL. 24Vdc LOW VOLTAGE FIELD WIRING TO BE A MINIMUM OF 22 GAUGE, 75 DEG C COPPER WIRE.
- ALL MOTOR WIRING MUST BE RUN IN SEPARATE CONDUIT FROM LOW VOLTAGE WIRING AND ENTER THE CONTROL PANEL ON THE BOTTOM RIGHT SIDE, USING THE KNOCK OUTS PROVIDED.

EXHAUST PIPE SIZE TABLE (SEE NOTE 9)		
UNIT SIZE	PIPE LENGTH	
	0-350'	351'-500'
TX 10 HP	4.00" NPT	5.00" NPT

EFFECTIVE PIPE LENGTH FOR ELBOWS		
PIPE SIZE (IN)	4.00" NPT	5.00" NPT
EFF. PIPE LENGTH (FT)	10	11.9

-----	FIELD PIPING INLET
=====	FIELD PIPING OUTLET
.....	24 VDC ELECTRICAL

SOURCE SHUTOFF VALVE
MAIN VACUUM GAUGE
MAIN LINE VACUUM SWITCH
FROM HOSPITAL
FOR INTAKE PIPE SIZING REFER TO STANDARD PRESSURE DROP TABLES. TOTAL PRESSURE DROP SHOULD BE LESS THAN 2" Hg AT A SYSTEM VACUUM LEVEL OF 15" Hg.
HOSPITAL CONNECTION 3" FLANGE
TANK DRAIN CONNECTION

TANK DRAIN CONNECTION

DRIP LEG VALVE

DISCHARGE 3" FLANGE

DISCHARGE TO VACUUM PUMP MODULE 3" FLANGE

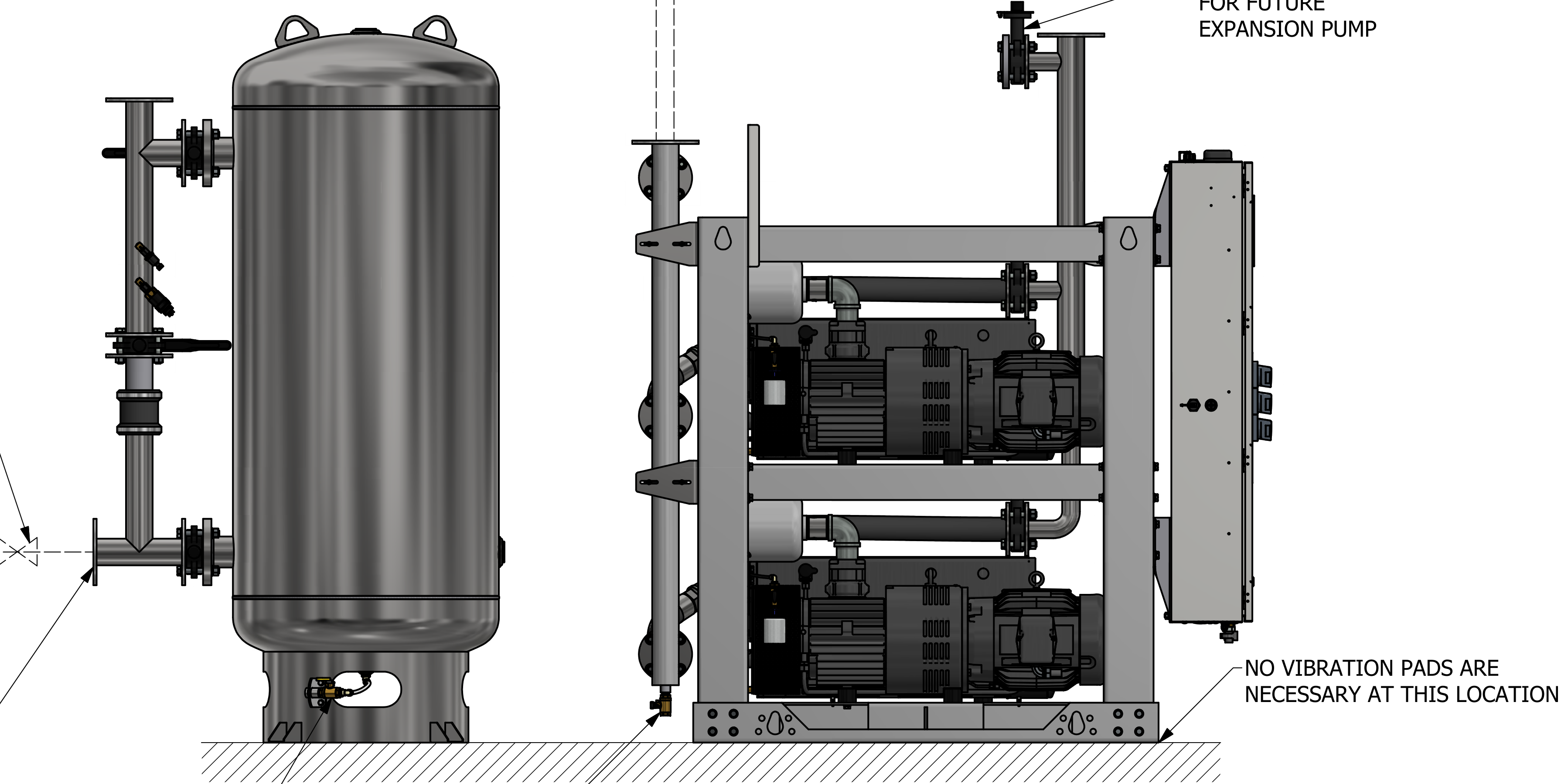
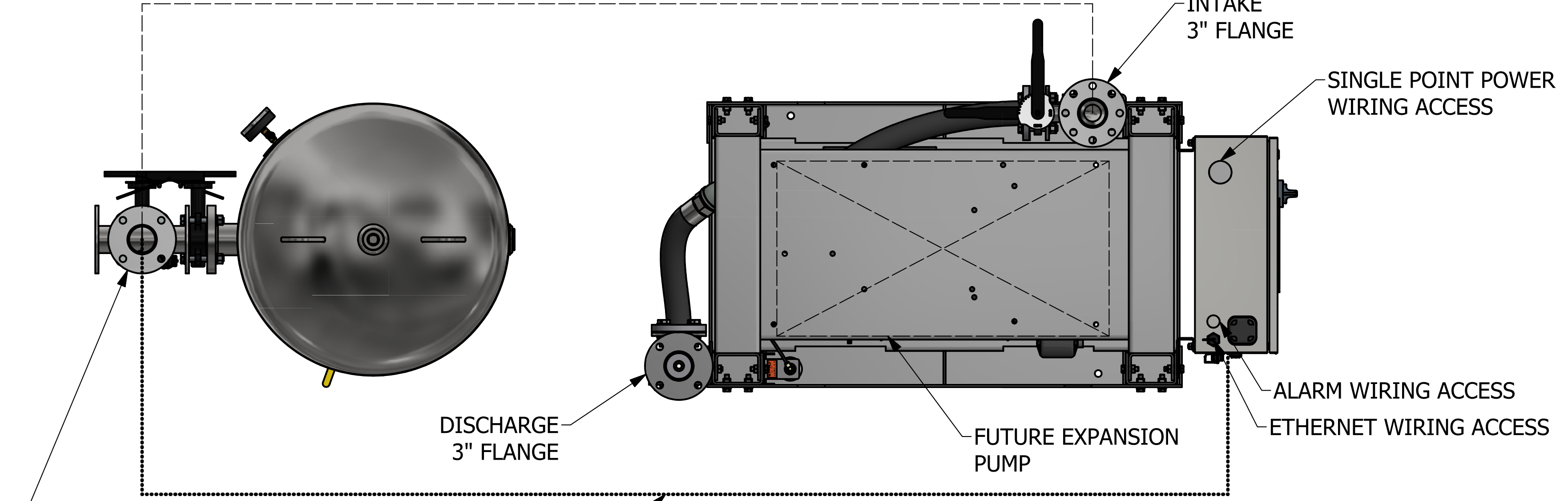
WIRE TRANSDUCER AND BACKUP SWITCH TO CONTROL PANEL (SEE NOTE 10)

PIPE EXHAUST OUTSIDE, TURN DOWN AND SCREEN PER NFPA 99

ISOLATION VALVE FOR FUTURE EXPANSION PUMP

NO VIBRATION PADS ARE NECESSARY AT THIS LOCATION

NO FOUNDATION OR INERTIA PAD IS REQUIRED (HOUSEKEEPING PAD IS OPTIONAL)



Revised: APS	Date: 3/30/2023	Drawn: JEB	Date: 11/17/2010
BEACONMED-ES		Scale: D	
Description: INSTALLATION DIAGRAM 10HP DX-X-TX LUBE VAC MOD		Part Number: 4107 8523 25	Rev: 05
Sheet 1 of 1		DO NOT SCALE THIS DOCUMENT	