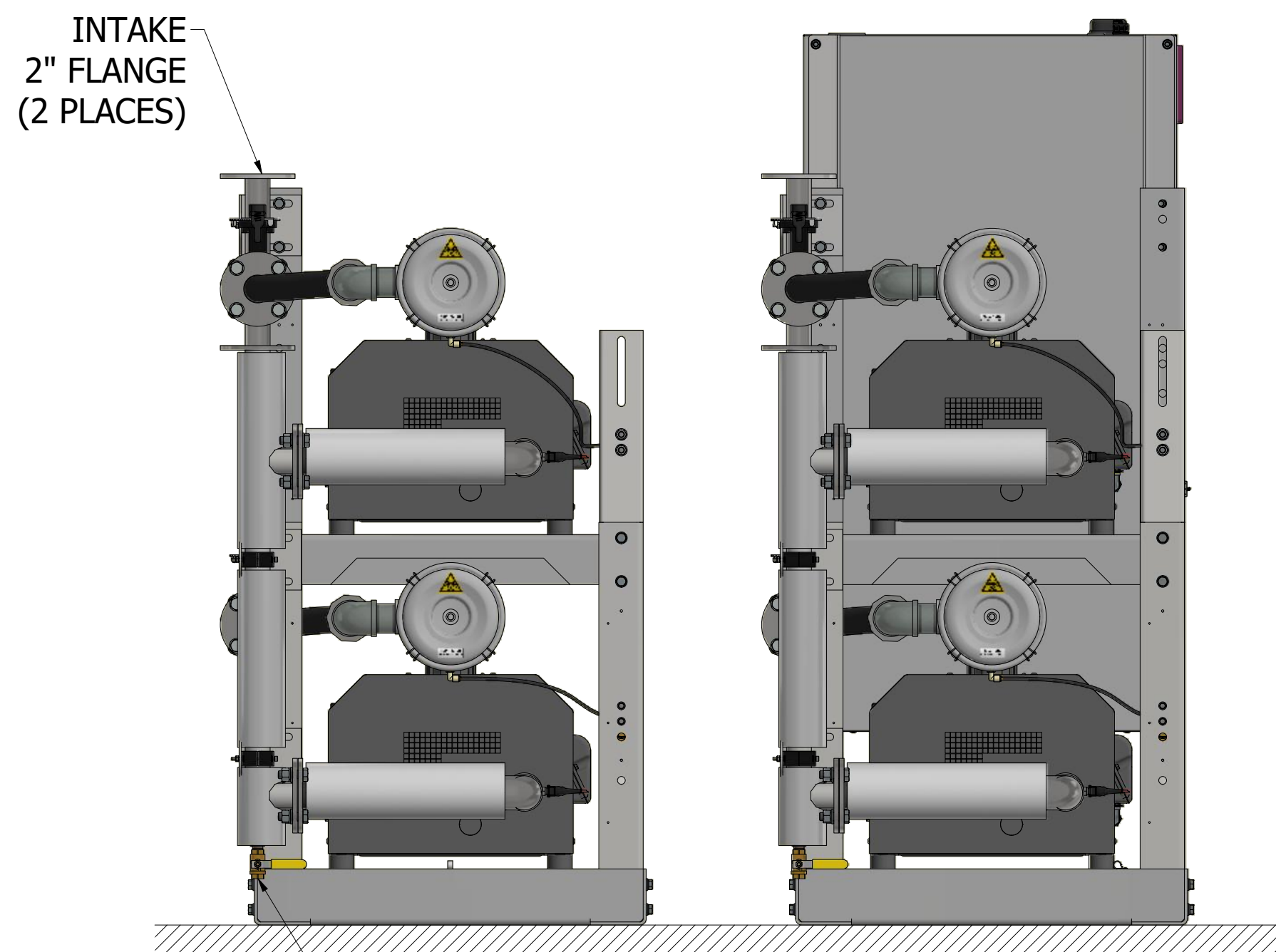


NOTES:

1. ALL INTERCONNECTING PIPE AND FITTINGS SHALL BE INSTALLED BY THE CONTRACTOR.
2. ALL PIPING SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 99, 2005 EDITION. 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.
3. 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.
4. THE ROOM REQUIRES DEDICATED MECHANICAL VENTILATION WITH AN ALLOWABLE TEMPERATURE VARIANCE OF 40° TO 105°F. (FOR HIGHER AMBIENTS, CONSULT FACTORY)
5. ELECTRICAL POWER SHALL BE SUPPLIED FROM THE EQUIPMENT SYSTEM BRANCH OF THE ESSENTIAL ELECTRICAL SYSTEM (EMERGENCY POWER).
6. EQUIPMENT, INSTALLATION, AND TESTING OF THE MEDICAL VACUUM SYSTEM SHALL COMPLY WITH NFPA 99, 2005 EDITION, AND ALL STATE AND LOCAL CODES OR ORDINANCES.
7. WIRE LAG PUMP RUNNING ALARM REMOTE CONTACTS IN THIS CONTROL SYSTEM TO MASTER ALARM SYSTEM AS REQUIRED BY NFPA 99.
8. ALL ACCESSORIES, PIPE AND FITTINGS, EXCEPT DISCHARGE SILENCERS, BEYOND INLET AND DISCHARGE PORTS ARE SUPPLIED AND INSTALLED BY OTHERS.
9. WHEN DETERMINING THE TOTAL PIPE LENGTH, ADD ALL THE STRAIGHT LENGTHS OF PIPE TOGETHER IN ADDITION TO THE NUMBER OF ELBOWS TIMES THE EFFECTIVE PIPE LENGTH FOR THAT PIPE SIZE. (SEE EQUIVALENT PIPE LENGTH TABLE & EXAMPLE CALCULATION IN THE O&M MANUAL)
10. 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.
11. 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.
12. ALWAYS CONSIDER SURROUNDING OCCUPANCIES FOR ALL ROTATING EQUIPMENT. ADDITIONAL ISOLATION/ TO SYSTEM LOCATION SHOULD BE DETERMINED AND PROVIDED BY OTHERS.

EXHAUST PIPE SIZE TABLE (SEE NOTE 9)			
UNIT SIZE	PIPE LENGTH		
	0-75'	76'-350'	351'-500'
QX 6.4	3.00" NPT	4.00" NPT	5.00" NPT
UNIT SIZE	PIPE LENGTH		
	0-200'	201'-500'	
QX 7.5	4.00" NPT	5.00" NPT	
UNIT SIZE	PIPE LENGTH		
	0-150'	151'-500'	
QX 8.7	4.00" NPT	5.00" NPT	

EFFECTIVE PIPE LENGTHS FOR ELBOWS			
PIPE SIZE (IN)	3.00" NPT	4.00" NPT	5.00" NPT
EFF. PIPE LENGTH (FT)	7.9	10	11.9



(RECEIVER REMOVED FOR CLARITY)

DRIP LEG VALVE
(2 PLACES)

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

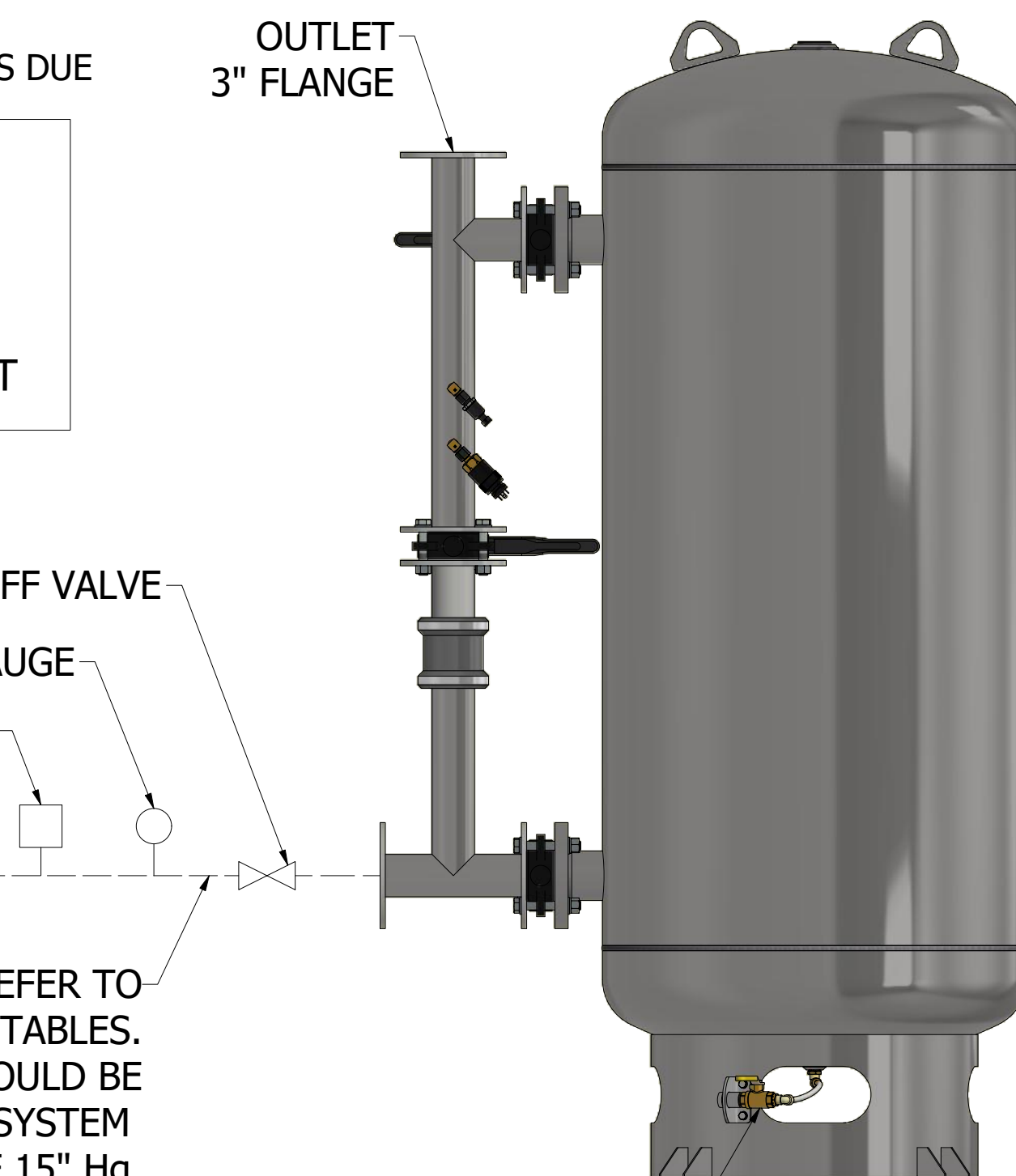
Diagram illustrating the connection from the hospital to the main line vacuum switch, main vacuum gauge, and source shutoff valve.

The diagram shows a horizontal dashed line representing the vacuum line. From left to right, the components are:

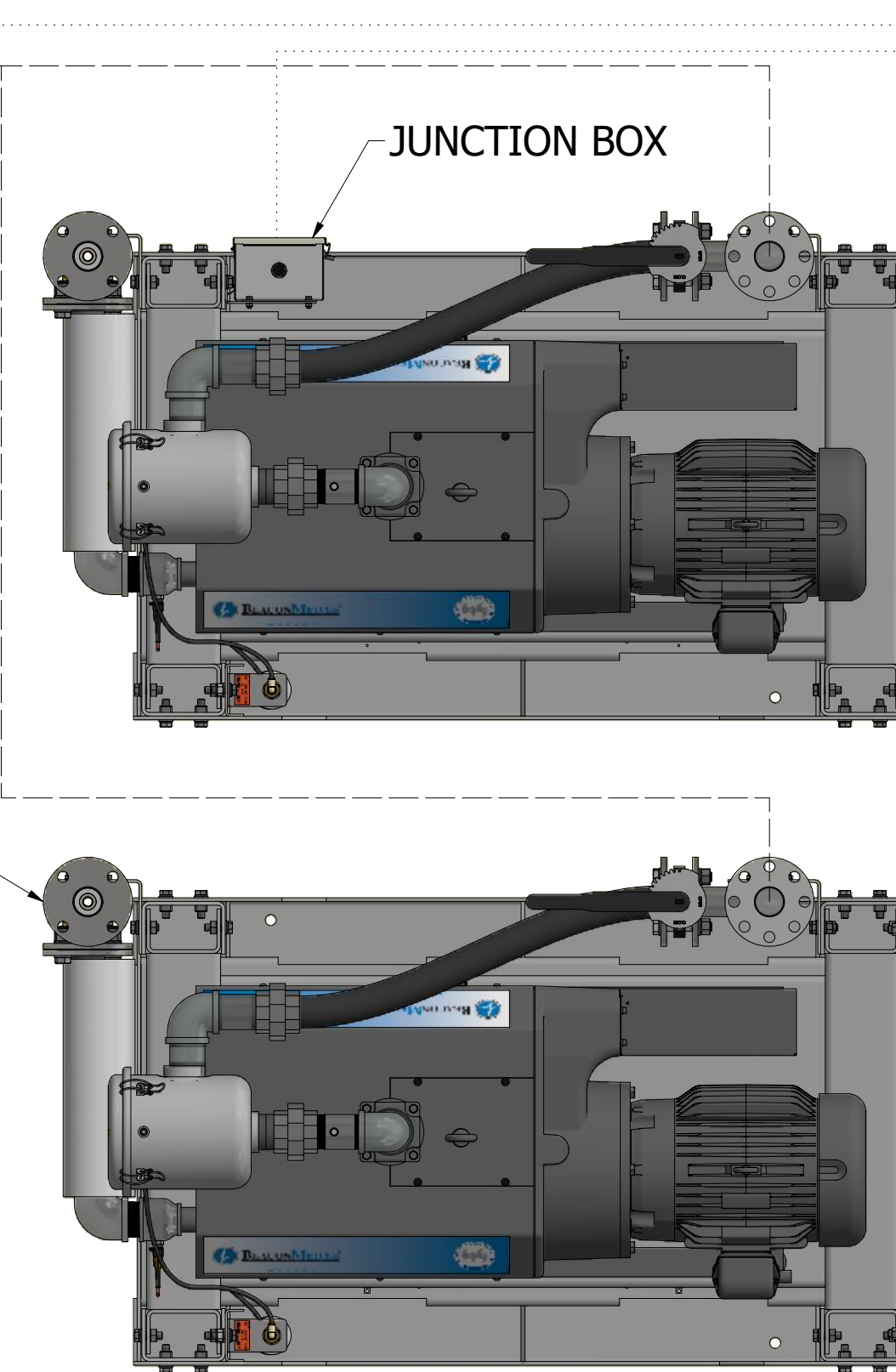
- FROM HOSPITAL**: Indicated by a dashed line with an arrow pointing right.
- MAIN LINE VACUUM SWITCH**: A square symbol connected to the main line.
- MAIN VACUUM GAUGE**: A circular symbol connected to the main line.
- SOURCE SHUTOFF VALVE**: A circular symbol connected to the main line.

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.

TANK DRAIN CONNECTION



DISCHARGE
2" FLANGE
(2 PLACES)



JUNCTION BOX

PUMP MODULE
CONTROL WIRING
(SEE NOTE 10)

WIRE PRESSURE
TRANSDUCER AND
BACKUP SWITCH
TO PANEL

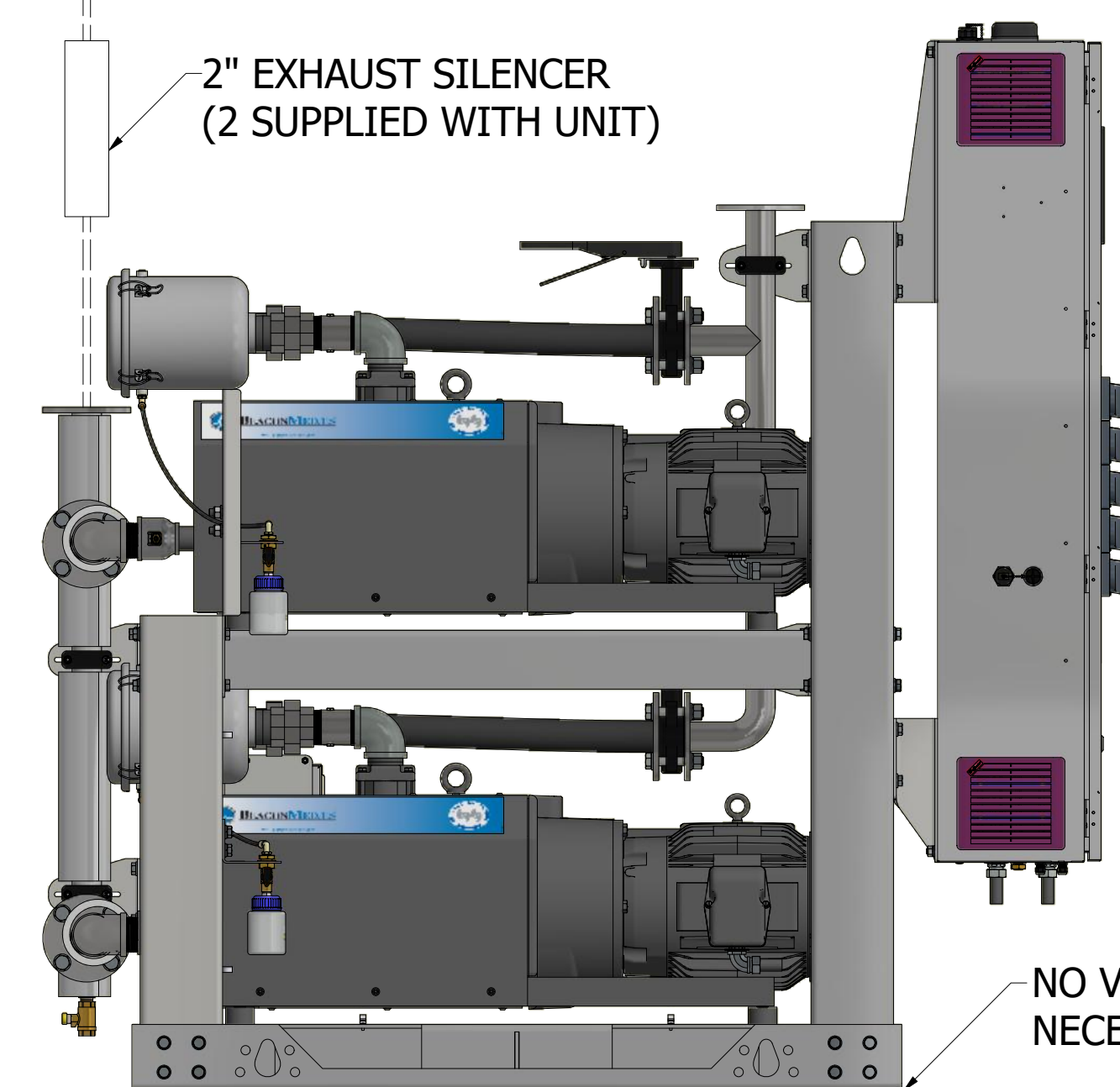
SINGLE POINT
POWER WIRING
ACCESS

ALARM WIRING ACCESS


ETHERNET WIRING ACCESS

PIPE EXHAUST OUTSIDE,
TURN DOWN AND SCREEN
PER NFPA 99

2" EXHAUST SILENCER
(2 SUPPLIED WITH UNIT)



NO VIBRATION PADS ARE
NECESSARY AT THIS POINT

Revised:	LHG	Date:	11-30-2023	Drawn:	MDB	Date:	04-20-2011
 BEACONMEDES		This drawing and the information contained therein remain the property of BeaconMedes and may not be used for other than the purpose for which it is loaned without the expressed written permission from BeaconMedes Engineering.				Scale: 1/11	
Description:		Part Number:		407 8516 34			
INSTALLATION DIAGRAM 6.4-8.7HP QX CLAW VSD VAC MOD STANDARD & O2 ASSURED		DN: 30730420		Rev: 07		DO NOT SCALE THIS DOCUMENT	
		Sheet		1 of 1			

(8.7HP WITH 200 GALLON RECEIVER SHOWN)