NOTES: INTAKE 2" FLANGE 1. 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 -FUTURE EXPANSION RESPONSIBLE FOR FIELD VERIFICATION AND COORDINATING ACTUAL LOCATION WITH ALL OTHER TRADES. PUMP 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. -PUMP MODULE **CONTROL WIRING** 4. THE ROOM REQUIRES DEDICATED MECHANICAL VENTILATION WITH AN ALLOWABLE TEMPERATURE (SEE NOTE 10) VARIANCE OF 40° TO 105°F. (FOR HIGHER AMBIENTS, CONSULT FACTORY) DISCHARGE TO -**VACUUM PUMP MODULE** 5. ELECTRICAL POWER SHALL BE SUPPLIED FROM THE EQUIPMENT SYSTEM BRANCH OF THE ESSENTIAL 3" FLANGE ELECTRICAL SYSTEM (EMERGENCY POWER). -SINGLE POINT POWER WIRING ACCESS 6. EQUIPMENT, INSTALLATION, AND TESTING OF THE MEDICAL VACUUM SYSTEM SHALL COMPLY WITH NFPA DISCHARGE-99, AND ALL STATE AND LOCAL CODES OR ORDINANCES. WIRE TRANSDUCER-2" FLANGE AND BACKUP SWITCH TO CONTROL PANEL 7. WIRE LAG PUMP RUNNING ALARM REMOTE CONTACTS IN THIS CONTROL SYSTEM TO MASTER ALARM (SEE NOTE 10) 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 TIME THE THE EFFECTIVE PIPE LENGTH FOR THAT PIPE SIZE. -ALARM WIRING ACCESS (SEE EQUIVALENT PIPE LENGTH TABLE & EXAMPLE CALCULATION IN THE O&M MANUAL) -ETHERNET WIRING ACCESS 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 PIPE EXHAUST OUTSIDE, TURN DOWN VOLTAGE AND HIGH VOLTAGE WIRING MUST ALSO BE MAINTAINED INSIDE THE CONTROL PANEL AND SCREEN PER NFPA 99 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. **EXHAUST PIPE SIZE TABLE** SOURCE SHUTOFF VALVE (SEE NOTE 9) MAIN VACUUM GAUGE-PIPE LENGTH MAIN LINE VACUUM SWITCH-**UNIT SIZE** 0-200' 201'-500' QX 10 HP 4.00" NPT 5.00" NPT FROM HOSPITAL----**EFFECTIVE PIPE LENGTH FOR ELBOWS** 4.00" NPT PIPE SIZE (IN) 5.00" NPT EFF. PIPE -NO VIBRATION PADS ARE HOSPITAL CONNECTION-FOR INTAKE PIPE SIZING REFER TO STANDARD 11.9 10 LENGTH (FT) **NECESSARY AT THIS LOCATION** 3" FLANGE PRESSURE DROP TABLES. TOTAL PRESSURE DROP SHOULD BE LESS THAN 2" Hg AT A SYSTEM VACUUM LEVEL OF 15" Hg. FIELD PIPING INLET NO FOUNDATION OR INERTIA PAD IS REQUIRED ======= FIELD PIPING OUTLET TANK DRAIN CONNECTION DRIP LEG VALVE (HOUSEKEEPING PAD IS OPTIONAL) — 24 VDC ELECTRICAL 4107 8523 27 INSTALLATION DIAGRAM 10HP HOP230842 TX-X-QX LUBE VAC MOD Sheet 1 of 1 DO NOT SCALE THE DOCUMENT Form F-007 Rev. 01 8