



Mobile Engineered Solutions

50HP COMPRESSED AIR SYSTEM ENCLOSURE



System Specs

Compressor Horsepower	50
Air Flow Rate @ 125 psi	233
Maximum Pressure	135
Power Requirements	460 VAC, 3-Ph , 150 Amps
Air Connection Size	2-inch MNPT
Shipping Dimensions	20 ft – 11 in (L) x 8 ft- 2 in (W) x 8 ft – 10 IN
System Weight	15,000 lbs

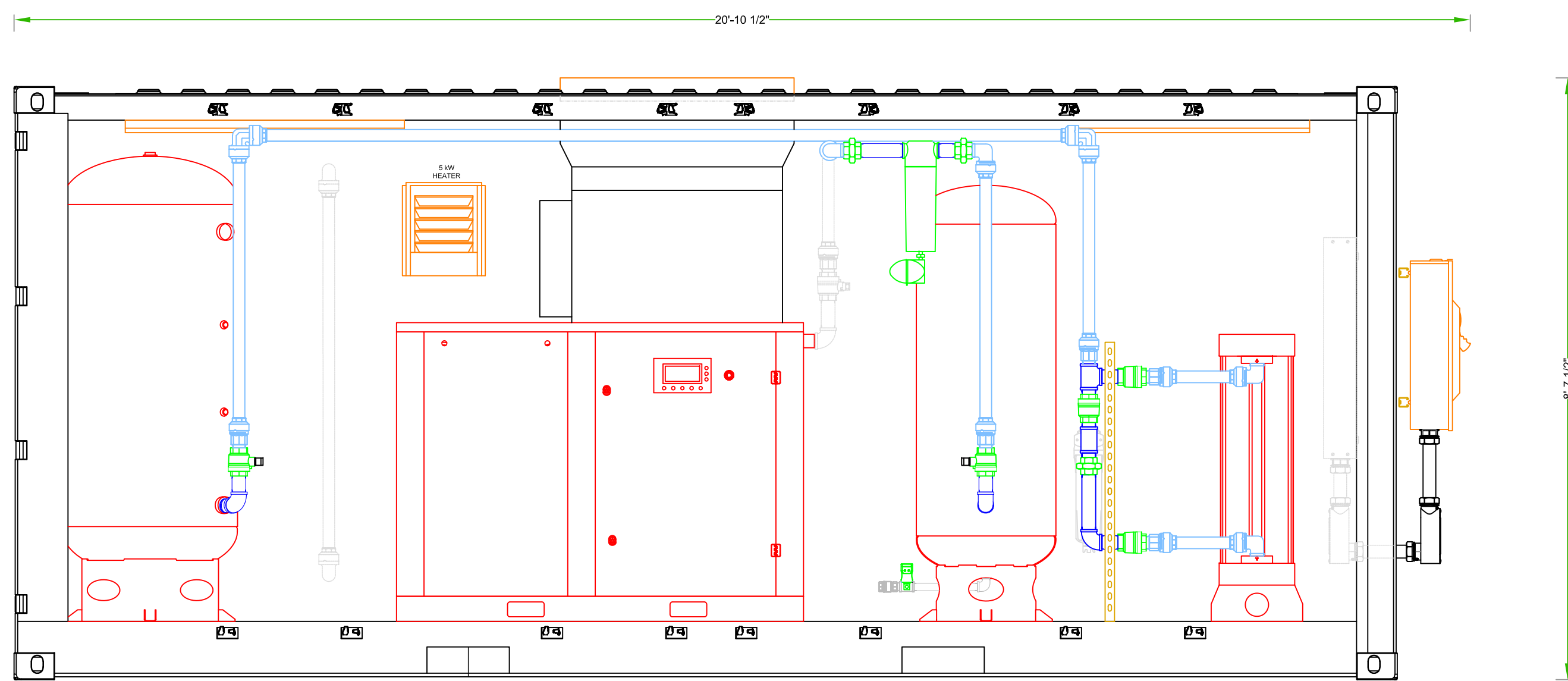
50HP COMPRESSED AIR SYSTEM ENCLOSURE

System Description

Air Compressor	•Kaishan Rotary Screw Model KRSD50-125 •50hp, 460 VAC, 3-Ph, TEFC Premium Efficient Motor •Direct drive design •Modulating inlet valve •3-Stage oil filtration •High efficiency air intake filtration
Dryer	•Nano Model NDL-2110F •High density desiccant cartridge design •Standard (-40 F) dew point design •PLC controls and digital display •Energy Saving dew point monitor option included
Oil Water Separator	•Sterling Model CRS450 •Visual time in service indicator •4000-hour service life
Enclosure	•Rated for 100 mph wind load. 50 psf snow load •Fully insulated, sheathed, and equipped with weather hoods. •Double rear and full side enclosure access. •Multiple lifting locations
Electrical	•External 150 Amp, 3-Ph disconnect •480 VAC, 3-Ph Main distribution panel •Step down transformer •240/120 VAC, 1-Ph Accessories distribution panel •EMT Conduit
Enclosure Accessories	•Thermostatically controlled heater & ventilation fan •Digital temperature controller •Gravity intake and discharge cooling shutters
Piping	•AST Aluminum piping •Isolation valve •External process (air and condensate) connections



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A	AS-BUILT	01-20-25	CJJ
REV	DESCRIPTION	DATE	APPROVED
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		TITLE					
DRWN BY	DATE	50 HP COMPRESSOR ENCLOSURE					
CJJ	01-20-25						
CHK BY	DATE	O/A 105 INDUSTRIAL BLVD BROCKTON, MA 02301				JOB NO. 24-116	
APPR BY	DATE	SCALE NTS	SIZE D	DWG NO. M-2	SHEET 1 OF 1		REV A

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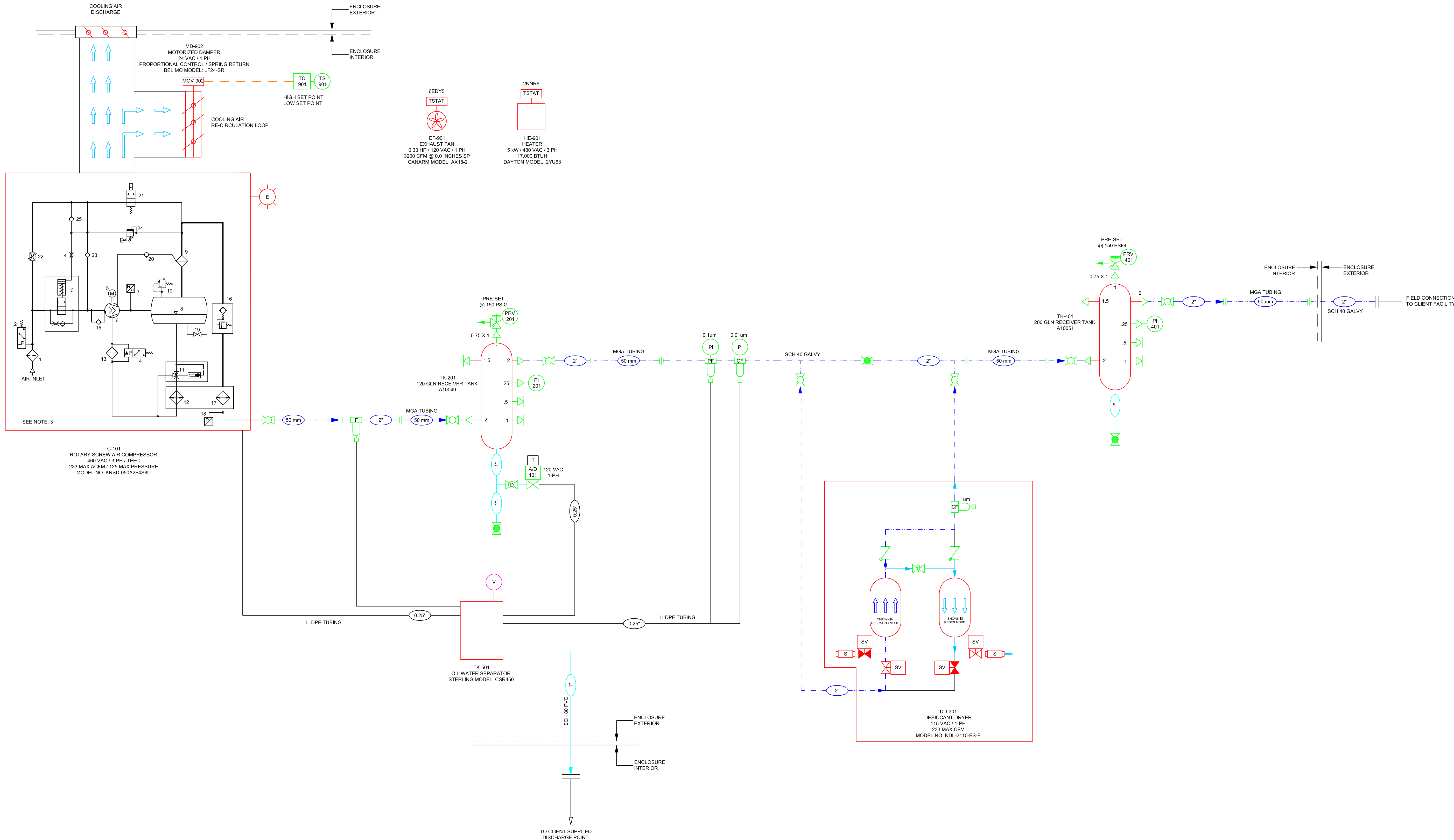
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GENERAL NOTES:
1. PROCESS & INSTRUMENTATION DIAGRAM IS A REPRESENTATIVE DRAWING SHOWING EQUIPMENT SPECIFICATIONS, PROCESS PIPING, VALVES AND INSTRUMENTATION NOT TO BE INTERPRETED AS A LAYOUT DRAWING DEPICTING PLUMBING LOCATION, CONNECTIONS, OR FITTINGS.
2. NEC ELECTRICAL CLASSIFICATION
- ALL ENCLOSURE INTERIORS AND EXTERIORS DESIGNED AS NON-CLASSIFIED LOCATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
3. SEE MANUFACTURERS O&M MANUAL FOR ROTARY SCREW COMPRESSOR P&ID LEGEND

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TITLE
PROCESS & INSTRUMENTATION DIAGRAM

DRWN BY CJJ	DATE 01-20-25	SCALE NTS	SIZE D	DWG NO. M-2	SHEET 1 OF 1	REV A
A	AS-BUILT	10-09-23	CJJ			
REV	DESCRIPTION	DATE	APPROVED			
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SINGLE STAGE ROTARY

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SINGLE STAGE ROTARY

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