



ISCO Scope of Work

Enclosure

- a) 360"L x 132"W x 135"T
- b) 90DbA at 7 meters freefield – ground level
- c) One piece welded roof construction – center peak
- d) SBT – 100 construction (sheet metal bolt together construction), 14 gauge construction
- e) Gravity discharge louvers
- f) Motorized intake louvers, spring open, motor close – 240 VAC
- g) Hinged and pad locking doors with gasketing and drip ledges
- h) Personnel doors on the circuit breaker box side to line up in front of the circuit breaker box
- i) 2 - Personnel doors per side with interior emergency release from inside when door is locked
- j) Chrome plated steel exterior handles
- k) Zinc plated strap hinges
- l) Heavy duty slam latch cooler door handles, single point latching
- m) Radiator fill access cap screw on
- n) Weather skirting around exterior at base and enclosure seam
- o) Wall construction – including:
 - 1) 3" deep wall
 - 2) Semi rigid insulation
 - 3) 22 gauge galvanized perforated liner
 - 4) Interior liner will not be painted
- p) 2' deep intake sound baffle with rodent screens
- q) 21" deep discharge sound baffle
- r) Standard Enamel Painting MAB 074 Line – customer to advise color

Fuel Tank Base

- a) 360"L x 132"W x 18"T
- b) U. L. 142 Label for main tank and rupture basin
- c) I- Beam side rails
- d) 1000 Gallon Main tank capacity with low fuel level switch wired to the unit mounted control panel and contacts for remote indication

- e) 1100 Gallon rupture basin capacity with rupture basin alarm switch wired to the unit mounted control panel and contact for remote indication
- f) Float switches for remote pump
- g) Tank supply and overflow extended to exterior base edge – 1”NPT
- h) 4” manual fill
- i) Manual Sight gauge – Krueger with kick guard
- j) Stewart Warner electric fuel gage
- k) Engine pick up and return ports in tank, both extended to within ½” of tank bottom
- l) Engine supply and Tank supply equipped with anti-siphon valves
- m) Engine return and tank return equipped with check valves
- n) Normal and emergency relief venting
- o) Normal vents to be equipped with ball plungers
- p) 2” NPT drain ports in tank and rupture basin
- q) Conduit stub up through base for load cable access with removable cover plate for customer use.
- r) 3/16” diamond deck floor plate
- s) 6 Point lifting
- t) 2 – Extra 2” NPT couplings in tank and rupture basin – spares
- u) Standard Enamel Painting MAB 074 line – Customer to provide paint color

Exterior exhaust mounting kit

- a) Silencer brackets - steel construction including flanges and hardware
- b) Exhaust flex
- c) Exhaust extension with rain cap- Ship loose
- d) Nut, bolt and gaskets kits – ship loose
- e) Roof skirt – ship loose
- f) Exhaust silencer -- residential grade-GT Exhaust Systems #201-4116

AC enclosure engine package

- a) 30KVA 480 – 120/208 Mini Power Zone Transformer with AC distribution panel with 100 amp main and branch breakers for all AC interior items. All breakers for all AC interior items. All breakers to be snap in style. The distribution panel shall be:
 - 1) 120/208V
 - 2) 3 phase
 - 3) 4 wire
 - 4) All wiring shall be per the National Electric codes
 - 5) All ISCO supplied wiring to be in EMT thinwall rigid conduit and fittings.
- b) 4 – A.C. interior incandescent lights with 2 switches and 2 GFI duplex receptacle located at entrance door on each side of enclosure.
- c) 2 – D.C. interior lights with 0-60 minute timer – one each side
- d) 2 – Exterior NEMA 3R emergency breakglass stations – 1 per side – fitted and installed, removed for shipment.
- e) 1- 5KW space heater with t-stat and engine cut-out relay.

Circuit breaker kit

- a) IFBB Freestanding box – Nema 1 construction
- b) ABB 4000 amp 100% rated circuit breaker – generator main – ISCO to supply. Ref. past w/o 8255
- c) Isolated neutral bar with disconnect link
- d) Load side buss
- e) Ground bar – isolated
- f) 24VDC Shunt trip
- g) 2A/2B contacts for main circuit breaker
- h) Bottom feed configuration
- i) External zero sequence GFI – ISCO to provide light for local annunciation.
- j) Equipment ground from ground bar in circuit breaker box to generator rail
- k) Two Hole Copper Compression lugs for customer's load side connection- customer to advise feeder schedule. ISCO to bolt lugs onto buss for shipment and take picture.
- l) Gortex Flex connection for C/B box to generator.
- m) 4 – point lifting rings
- n) Hinged door with gasketing
- o) Standard enamel paint – MAB 074 Line – Match generator

Testing

- a) ISCO to submit test procedure
- b) 8 hour load test at unity power factor
- c) 1 hour at 25%, 1 hour at 50%, 1 hour at 75%, 5 hours at 100%
- d) ISCO will perform standard transient load steps and provide strip chart recordings – ISCO will perform this recording prior to any heat runs, not during heat runs.
- e) Test reports with readings taken every 15 minutes during 1 hour loads and every 30 minutes during 5 hour heat run.
- f) ISCO Standard safety check test of engine safety devices will be performed.

Miscellaneous

- a) Oil and water drains extended to exterior of enclosure will valves. ¼" NPT
- b) Fumes disposal tube extended to front of enclosure
- c) Clean, paint, prepare to ship.