

THE LIVERPOOL REFRIGERATION CO. LTD.

May 1st, 1934.

SPECIFICATION

OF
REFRIGERATING MACHINERY FOR
S. S. "CALUMET".

YOUR REF.

OUR REF. ALH. 4200.
JA.

Particulars of Plant.

CO2 COMPRESSOR. One horizontal duplex CO2 compressor of the double acting type, each CO2 cylinder $4\frac{1}{2}$ " dia. x 15" stroke.

STEAM CYLINDERS. 14" dia. & 24" dia.

AIR PUMP - driven off crankshaft, 12" dia. x 8" stroke of the single acting type.

R.P. ¹⁰⁰ The compressor is designed for a speed of 80 r.p.m. operating with a reduced pressure of steam 120 lbs. per sq.in.

STEAM CONDENSER. Steel shell with cast iron water ends and doors, rolled brass tube plates and solid drawn brass tubes $\frac{3}{4}$ " ext. dia. x 18 IWG. Total cooling surface 300 sq. ft.

CO2 CONDENSERS. Two (independent) each comprising 1800 ft. of 1" ext. dia. x 10 I.W.G. solid drawn copper tube in five coils fitted in cast iron split casings, fitted with wash out and mud doors.

CO2 EVAPORATORS. Two, each comprising 2000 ft. of $1\frac{5}{16}$ " ext. x 7 IWG. solid drawn steel tubes in eight coils, fitted to mild steel split casings fitted with wash out and mud doors.

ONE SEA WATER CIRCULATING PUMP - of the duplex type, cylinders 8" x 9" x 8" with solid gunmetal water end with removable liners, fitted with "Kinghorn" metallic valves and cast iron air vessel.

Duty to circulate 16,000 gallons of sea water per hour. Arrangements are being made for an alternative supply of sea water from the ship's main engine room.

TWO BRINE CIRCULATING PUMPS. - of the duplex type, cylinders 7" x 8" x 8" with special cast iron brine ends, renewable gunmetal liner, gunmetal fitted, with "Kinghorn" metallic valves.

Duty of each to circulate 12,600 gallons of brine per hour. One of the above pumps is ample for the duty required.

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AIR COOLERS & FANS.

There will be three air coolers fitted each with its own 32½" dia. "Aeroto" reversible propeller fan. Maximum duty of each fan to circulate 16,000 cubic feet of air per minute against 2" static water gauge. Speed range 2100/1670 r.p.m.

Each Fan Motor is 8.BHP. and controlled by variable speed drum type starter fitted with moving coil ammeter and pilot lamp. The electric supply being 110 volts Direct Current.

The total amount of brine piping in each cooler is 2100 ft. run of 1½" nom. bore in three separate sections, each section being fitted with a regulating valve at the inlet and outlet with brass cased thermometer at each outlet.

Total run of tube in the three coolers being 6300 ft. in nine independent sections. Each section of the coolers can be thawed off separately.

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S. S. *Calumet*

LIVERPOOL:

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