TANDEM MODEL TRAC- 20D AIR COOLED CONDENSER DUAL REFRIGERATION CIRCUIT

TOTAL HEAT OF REJECTION: 323,451 btu, 161,725 btu per circuit.

DESIGN CONDITIONS: 95 F ambient air, condensing at 120 F with a 25 F temperature difference.

THESE ARE SOME OF OUR STANDARD BENEFITS.

- 2 YEAR PARTS WARRANTY ON THE WHOLE UNIT.
- DUAL REFRIGERATION CIRCUITS
- COPPER TUBES WITH ALUMINUM FINS.
- FABRICATED FORM HEAVY GAUGE LONG LASTING GALVANIZED STEEL.
- QUIET MULTI-BLADED HIGH EFFICIENCY PROPELLER FANS.
- WEATHER RESISTANT FAN MOTORS WITH INTERNAL OVER HEAT PROTECTION IN EACH WINDING.

CORROSION RESISTANT HOUSING: All our models employ mill galvanized steel fan sections and coil sides, "C" section side supports and legs of heavy mill galvanized steel with all bolted construction.

HIGH EFFICIENCY COIL: Copper tubes are mechanically expanded into corrugated full collared aluminum fins spaced 10 fins per. Coils are pressure tested under water with 400 psig dry air and are shipped pressurized. On units with one to five fans 3/8" grooved copper tubes are used, on the six fan unit ½" smooth bore copper tubes is used.

A liquid subcooling circuit is incorporated in all condensers and is designed to subcool the liquid 15 F.

COMPUTERIZED COIL CIRCUITING: Our computerized coil circuiting program is designed to minimize the condenser refrigerant charge and maximize subcooling. Every condenser is custom circuited to precisely meet each chiller requirement.

UNIQUE COIL DESIGN: The unique coil support system utilizes stainless steel tubes to isolate refrigerant tubes from the unit. Coil support is transferred from the fins to the stainless steel tubes and truncated tube plates which ride freely in "C" channels. Tubes expand and contract without interference, resulting in elimination of contact and friction wear.

This unique coil design not only reduces wear but reduces sound. Fan and coil vibration is isolated from the cabinet, so it is not transmitted to the condenser frame and building supports.

CONDENSER FANS: Quiet multi-bladed propeller fans provide uniform air distribution through the coil. Venturi fan orifices optimize efficiency. Condenser is two fans wide (one for each circuit) and has two fans in each row, for a total of four.

Individual fan compartments allow for individual fan cycling while preventing off-fan "windmilling". Fan compartments come complete with large clean-out access doors.

FAN MOTORS: Our 1/2 hp 850 rpm condenser motors are designed for outdoors with ball bearings, inherent overheat protection in each phase, shaft slingers, enclosure, hardware and lubrication for all weather conditions.

WEATHER RESISTANT CONTROL PANEL: Standard weather resistant enclosure is mounted to the frame, control panel is compete with 120V control voltage transformer, primary and secondary fuses, fan contactors, fan cycling control thermostats, three-phase fuses for fan motors and pre-wired to fan motors. All that is required is a signal from the chiller that the compressor is operating and the condenser automatically controls the head pressure.

HEAD PRESSURE CONTROL: Minimum requirement for head pressure control is fan cycling, the lowest operating temperature with fan cycling depends on the number of fans in the row, the firs fan does nut cycle, with two fans the lowest operating temperature will be 62 F (16.6 C). with three fans it is 56 F (13.3 C), four fans is 49 F (9.4 C), five fans is 40 F (4.4 C), six fans is 17 F (-8.3 C).

We recommend that fan speed control of the first fan be used along with fan cycling, this will allow the condenser to operate down to 0 F (-17.7 C) ambient during the winter months.

SIZE: 00"l x 00"w x 49"h.

WEIGHT: 0,000 lbs.

VOLTAGE: 230/460/575V, 3 phase, 60 hertz.
200/380V, 3 phase, 50 hertz.

WARRANTY: 2 YEAR parts warranty on the whole unit.

OPTIONS (add):

Fan speed control of the first for low ambient control of head pressure down $ to 0 F (-17.7 C) ambient during the winter months.

Flooded condenser with pressure control valves for low ambient control $ of head pressure down to -20 F (-28.8 C).