DCA DEHUMIDIFIER CORPORATION OF AMERICA

ALL ORC SERIES REMOTE CONDENSERS
SPECIFICATION DATA

A. GENERAL INFORMATION
All DCA dehumidifiers are manufactured to be remote condenser ready with all valves and electrical devices in place to be connected to an outdoor remote condenser. Air cooled remote condensers are used to reject excess heat to the outdoors if the heat generated by the dehumidifier cannot be used for room air heating or pool water heating. This condenser can supplement the room A/C system or be the sole source of room cooling. This condenser shall be large enough to reject all the recovered heat outdoors without simultaneously rejecting heat into the pool water or room air. This condenser shall be capable of operation down to -20°F.

B. CABINET CONSTRUCTION
The base panel shall be 12 gauge galvanized steel with 12 gauge welded supports on the bottom side for maximum support. The frame panels, removable access doors and top panels shall be 18to 20gauge galvanealed steel. Removable access doors will provide fingertip access to all major and minor replaceable components of the unit. The electrical compartment shall be separated from the mechanical area with access with its own door from outside of the cabinet. This cabinet shall be for outdoor installation with the appropriate weather shielding in place.

C. PAINT AND CABINET FINISH
All metal parts shall be galvanealed coated steel in its raw state. All metal cabinet parts shall be painted by the following process.

1. Metal pretreatment using phosphate cleaning and rinsing.
2. Moisture removal via warm air oven.
3. Primer application.
4. Primer curing via high temperature oven.
5. Finish coat applied using a high solids liquid or powder coat material.
6. Finish coat cured using a high temperature curing oven.

D. CONDENSER COIL
This coil shall be constructed with seamless drawn, rifle tube design, copper tubing, hydraulically expanded into the fin collars to form a metal bond for maximum heat transfer and overall stability. Coils shall be 3/8" or 1/2" OD copper arranged in a staggered design. Coil fins shall be tempered aluminum with extruded collars and accurately spaced at 10 fins per inch. All headers shall be constructed from heavy wall copper tubing. Coil casing shall be made from at least 18 gauge galvanized steel. Coil testing shall be leak tested with at least 420 psig nitrogen gas and then sealed to avoid contamination.

E. ELECTRICAL CONTROL PANEL
The electrical control panel shall be readily accessible from one side of the unit. All necessary motor starters and protection devices shall be housed in this panel.

F. AIR BLOWER ASSEMBLY
The blower shall be a double inlet, forward curve, centrifugal, low RPM type that is dynamically and statically factory balanced. Permanently lubricated ball bearings to provide at least 200,000 hours of average life. The blower shall be vibration isolated when mounted to the cabinet floor.

G. BLOWER MOTOR
The blower motor shall be a totally enclosed fan cooled design (TEFC) with class B insulation, continuous duty, 40 degree C ambient with overload protection. It shall have permanently lubricated ball bearings, a key slotted shaft with a rigid or resilient mount. It shall carry a UL or CSA listing. Blower motor shall be base mounted and not attached to blower mechanically other than the connecting V-belt.

H. BLOWER DRIVE COMPONENTS
The motor pulley shall be machined cast iron in construction. The motor pulley shall be a variable pitch type that is field adjustable to vary CFM and external static pressure. The pulleys shall be a single V-belt up to and including.

I. HEAD PRESSURE CONTROLS
This unit shall be equipped to operate as a full flooding system for operation down to -20°F.

J. FAN AND COIL GUARDS
Plated or painted welded wire guards will be constructed for maximum rigidity and safety protection.

K. WARRANTY
This unit shall be comprised of the finest components available which are readily available either as off the shelf replacements of replacements readily available from the factory. All components shall be warranted for a period of THREE(3) years from date of shipment.

L. APPROVAL AND AGENCY LISTINGS
This unit shall be manufactured, tested and listed to meet the most rigid standards of ETL Laboratories.

M. MANUFACTURER OF EQUIPMENT
This unit shall be manufactured by D E H U M I D I F I E R CORPORATIONOF AMERICA (DCA), Cedarburg, WI.

W57 N14363 DOERR WAY, SUITE 6
P.O. BOX 917
CEDARBURG,WI 53012
PHONE:262-377-7501
E-MAIL: info@dehumidifiercorp.com