

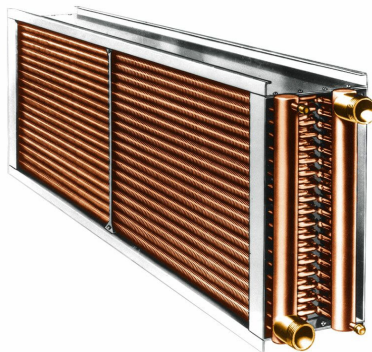


## INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS

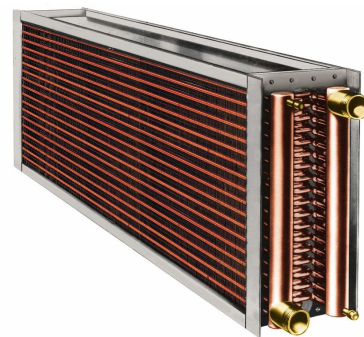
HELICAL FIN TYPE: C, CP, CPU, CD, CDP, CDPU, CB & CT

PLATE FIN TYPE: W & WD

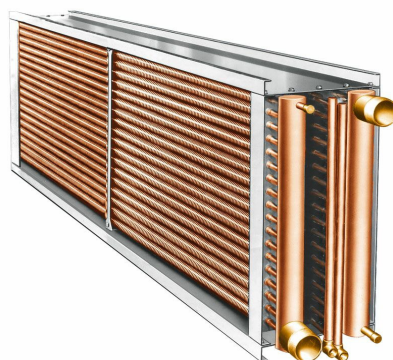
FOR USE WITH CHILLED WATER OR GLYCOL



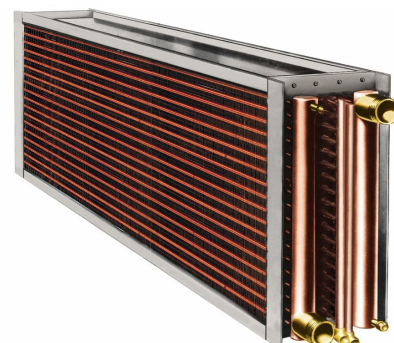
Type C, CB & CP  
(Helical Fins)



Type W  
(Plate Fins)



Type CD & CDP  
(Helical Fins)



Type WD  
(Plate Fins)



4621 MURRAY PLACE, LYNCHBURG VA 24506

TEL: (434) 845-7081 FAX: (434) 528-6242

<http://www.aerofin.com>

**INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS FOR  
HELICAL FIN RETURN BEND TYPE C, CP, CPU, CD, CDP, CDPU, CB, & CT COILS  
AND PLATE FIN RETURN BEND TYPE W & WD COILS  
FOR USE WITH CHILLED WATER OR GLYCOL**

Return bend type C, CP, CPU, CD, CDP, CDPU, CB, CT, W, and WD coils have no moving parts and therefore require no adjustment of any kind within the units or ducts themselves. The tubes are supported in the casing with each tube capable of expansion and contraction independent of the others.

Aerofin chilled water coils should be installed with the casings level and with the top up for proper drainage. Aerofin CD, CDP, CDPU, and WD coils must be installed pitched towards the drain headers to insure complete drainage of these coils.

Chilled water coils should be firmly and adequately supported with a minimum of three supports; one at the center and one at each end of the coil. If coils are to be stacked vertically, the upper coils must be independently supported so that the weight of the upper coils does not rest on the bottom coil, unless the coils have been purchased and fabricated with additional bracing for stacking. Coils should be securely fastened to or inside the duct or unit. All ducts or unit walls should be adequately insulated and sealed to prevent sweating and minimize heat losses. Flashing should be used to prevent by-pass of air around fin surface.

The most common ways to regulate the cooling load are by the use of a control valve and/or dampers. For better control of the fluid flow, the control valve should be installed in the return piping.

Drain pans should be provided on the leaving air side of each dehumidifying coil to collect condensate. At 500 FPM, the drain pan should extend a minimum of 8" inch beyond the base of the coil, 12" inch at 525 FPM and 16" inch at 550 FPM. At higher velocities moisture eliminators may be used. When coils are stacked vertically, each coil should have a separate drain pan.

Air filters should be located on the entering air side of the coil to filter out oil, dust, lint and soil which could foul the fin surface of the coil.

A strainer should be provided on the entering water side of the coil for filtering out foreign particles.

Piping should be adequately insulated to prevent sweating and minimize heat losses.

The coils should be vented either through the vent connections provided on each header or through the return piping.

To completely drain the coils, it is necessary to drain from the bottom of both headers, when airflow is horizontal and from the lowest point for vertical airflow. For CD, CDP and WD coils, drain connections are provided on the intermediate drain headers. To insure complete drainage, disconnect the lower connection from piping and drain through the connection.

When coils using water are not in operation and freezing temperatures are expected and to insure proper protection of the coils, remove water from the coils as described in Aerofin Bulletin CA-194 entitled "Protection of Water Coils to Prevent Freezing Damage" or add anti-freeze similar to Prestone (Ethylene Glycol) as mentioned in this bulletin.

## **Maintenance Instructions**

### **External Cleaning of Coils:**

Fins should be either steam cleaned or sprayed with non-corrosive solvents or cleaners such as Simple Green™ to remove oil, lint, dust, and soil. Direct high-pressure blast on the fin surface should be avoided.

### **Internal Cleaning of Coils:**

The coils may be internally cleaned by flushing them out with non-corrosive cleaning solvents or steam cleaning, or flushing with clean water.

### **Spare Parts**

There are no spare parts available for these heat exchangers.

To order replacement coils contact the Aerofin home office at (434) 845-7081 or visit our website at <http://www.aerofin.com> for the location of the nearest Aerofin regional sales office.