



The new Frick® IDCF evaporative condenser is a counterflow, induced draft, axial fan unit with a capacity range of 45 - 2,810 ammonia tons.

Delivering Savings

The addition of a secondary heat transfer media in the IDCF means less horsepower required and lighter overall weight when compared to most primary surface condensers.

By incorporating new features designed to reduce installation time, the IDCF delivers savings to both owners and contractors and is the ideal choice for new or replacement projects.

Mechanical Fan Section

The top mounted, axial fan(s) are driven by Premium Efficient, VFD duty-ready motors. Sound is channeled up and away from the surrounding area. The motors and drive components are backed by a 5-year warranty.

Condensing Coil - Interstitial Fill Section

The condensing coils are constructed of all prime surface steel, hot dip galvanized after fabrication. They are designed to ASME B31.5 and have a low pressure drop and are free draining of refrigerant. Each is pneumatically tested to 375 psig (2.586 kPa).

Highly efficient polyvinyl chloride (PVC) fill blocks are installed between the coil rows. The fill blocks are a secondary means of heat rejection and enhance overall performance.



Access

Optional platforms, handrails and ladders and safety gates for access to various areas of the IDCF are available. These options will arrive partially assembled from the factory to decrease field labor hours. **New for the IDCF is a top perimeter handrail package.**



Rigging

The Frick® Unilink™ System has been enhanced to include an 8" coil casing base-rail to ensure squareness every time.

New for the IDC3 are factory supplied rigging pins that guide the coil section onto the basin section and decrease the amount of time required for rigging.



Application Flexibility

The available footprints are listed below:

4' x 6'	12' x 12'	24' x 12'
4' x 12'	12' x 18'	24' x 18'
7.4' x 9'	NEW! 12' x 20'	NEW! 24' x 20'
7.4' x 18'	12' x 24'	24' x 24'
10' x 12'	12' x 36'	24' x 36'
10' x 24'	NEW! 12' x 40'	NEW! 24' x 40'
	20' x 12'	

Frick IDCF Advantages

Low Energy Consumption

- Minimizes the energy consumption of the entire system by achieving the lowest condensing temperatures. Owners save money while conserving natural resources and reducing environmental impact.
- Provides the heat rejection required at the lowest possible energy via:
 - PVC-fill bundles to maximize heat transfer
 - High efficiency, low energy axial fans
 - Premium, efficient, VFD duty-ready motors
 - Multiple fan models allow for capacity staging

Easy Service and Maintenance

- Basin Access – Removable louvers provide easy access to the unit interior to adjust the float valve, clean the strainer, or flush the basin.
- Harmony™ Removal System – Water distribution branch removal system that requires few tools for servicing or maintenance.
- Hygienic Cold Water Basin – Sloped to eliminate stagnant water and reduce biological growth. Additionally, the suction strainer is easily removable to simplify maintenance.
- Mechanical Section Access – Fan motors are mounted on an adjustable track easily accessed via an inward swinging door. Belt tensioning and adjustment can be done by using the factory supplied wrench. Lubrication of bearings is made easy by externally mounted lube line access points.

Long Service Life

- Materials of Construction – Various materials are available to meet the corrosion resistance and budgetary requirements of any project.
 - Stainless Steel Unit
 - Stainless Steel Coils
 - Stainless Steel Basin
 - TripleGuard™ basin protection system

Reliable Year Round Operation

- Bearings – Minimum L₁₀ bearing life of 100,000 hours delivers years of trouble free service.
- Dry Operation – Operating the unit with the spray water off eliminates winter operating concerns.

Lower Installed Cost

- UniLink™ System – The redesigned interstitial coil-fill section self aligns with the basin section with the use of factory supplied rigging pins. This feature significantly reduces rigging time.
- Multi-cell models ship with factory installed blank-off panels that decrease field installation time and eliminate water carryover.
- Single-Piece Lift – A majority of IDCF models feature single-piece lift.
- Partially assembled access packages decrease overall assembly time.
- Modular Design – Models can also ship in multiple sections to minimize the size and weight of the heaviest lift, allowing for the use of smaller, less costly cranes.
- Single-Point Wiring (Optional) – Single-point wiring decreases installation time by factory routing wires from motors (fan and pump) and options such as Vibration Cutout Switch (VCOS), Electric Water Level Control (EWLC), and basin heaters in UL listed conduit to a stainless steel NEMA 3R electrical box.

IDCF Evaporative Condenser Seismic Testing

- IBC Compliance – IDCF Evaporative Condensers are designed to meet the seismic and wind requirements of the 2009 International Building Code (IBC). IDCF units were shake table tested at an independent lab in accordance with AC 156.

Tests were conducted before and after testing to verify functionality and certify the use of IDCF Evaporative Condensers in critical applications.

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Supersedes: NOTHING

Subject to change without notice

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