



The new Frick® IDC3 evaporative condenser is a counterflow, induced draft, axial fan unit with a capacity range of 41 - 2,734 ammonia tons.

Delivering Savings

By incorporating new features designed to reduce installation time, the IDC3 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 Section

The new interstitial coil design (shown below) achieves maximum MBH while keeping the same unit footprint as the previous generation. The new coils 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).



Access

Optional platforms, handrails and ladders, and safety gates for access to various areas of the IDC3 are available. These options will arrive partially assembled from the factory to decrease field labor hours. **New for the IDC3 is a top perimeter handrail package.**

Spray Nozzles

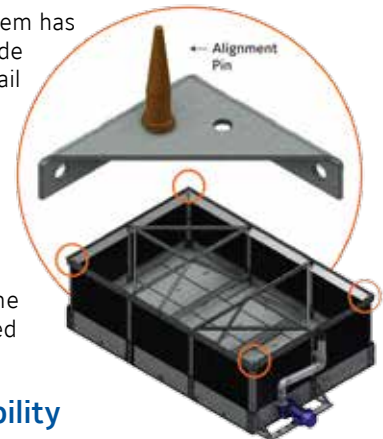
The IDC3 uses patented cascade spray nozzles, the most advanced design in the industry. The non-clogging, large orifice cascade nozzle provides 360° coverage, ensuring that the coil is completely wetted, and thereby delivering optimum heat transfer.



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 IDC3 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:
 - 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 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 IDC3 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.

IDC3 Evaporative Condenser Seismic Testing

- IBC Compliance – IDC3 Evaporative Condensers are designed to meet the seismic and wind requirements of the 2009 International Building Code (IBC). IDC3 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 IDC3 Evaporative Condensers in critical applications.