

THIRTEEN GOOD REASONS TO PURCHASE
McCORMACK COIL COMPANY'S ALUMINUM COIL PRODUCT COOLERS

1) It is UL labeled!

The McCormack Coil aluminum product cooler is one of the only industrial product coolers (steel or aluminum) that has been through the rigors of UL testing and approval and carries the UL Recognized label. It passed the UL pressure test. McCormack Coil engineers then allowed UL to test to failure. The units finally failed due to a header cracking at a weld at more than three (3) times the pressure required for UL certification. Since aluminum is flexible, it bulged under the pressure before final failure at more than 2,100 pounds.

2) It is made of stronger aluminum than most (all) competitors use by a factor of two (2)!

For tubes and fins McCormack Coil uses a special 3000 aluminum alloy that is made to their specifications. It's tensile strength as soft material is 16 ksi (kips per square inch). Competitors use 1000 series with a tensile strength of 7 ksi. In flex tests of 5,000,000 flexes (might be similar to the shock of hot gas defrosting), McCormack 3000 alloy is 14 ksi, 1000 series are 3 ksi. For header material McCormack uses 6000 alloy with a tensile strength of 30 ksi.

3) McCormack Coil's aluminum coils are welded by ASME certified welders!

All McCormack Coil evaporators are available with Canadian Registration.

4) McCormack Coil installs the "no-bridge" cross over system on hot gas defrost units!

This patented system defrosts the critical area on the air entering side of the coil to make sure that an ice bridge is not formed between the coil and the drain pan. This stops the dripping during defrost from the back of the unit to the product underneath or to the floor.

5) On all units McCormack Coil uses totally enclosed fan motors unless ODP specified!

The more costly totally enclosed motors minimize the possibility of the motor windings being contaminated by exposure to moisture or airborne particles.

6) All units are equipped with "Speed Engineered" motors!

These make every unit compatible with variable-frequency drives.

7) All McCormack Coil capacities are based on using ARI procedures!

The refrigeration industry has not agreed on using any standard test for certifying the capacity of evaporators, but McCormack Coil has taken the first step to insure performance by using the ARI procedures for capacity calculations for wet coils and then de-rating them for frosted applications.

8) McCormack Coil uses corrugated fins with a smooth surface!

Many competitors use flat fins. Corrugated fins increase air turbulence, therefore increasing heat transfer from the coil to the air.

9) McCormack Coil aluminum alloy resists corrosion in many environments including salt air!

The aluminum is McCormack Coil Company's proprietary aluminum alloy is similar to Marine Grade 3000 series. The McCormack Coil alloy had adders to increase hardness and corrosion resistance. Each unit is also shipped with di-electric flanges for connection to the refrigeration system. A McCormack Coil aluminum coil air-cooled condenser, installed over twenty (20) years ago, is still operating with no evidence of deterioration, corrosion or leaks on the docks of San Francisco Bay.

10) McCormack Coil Company's product coolers are designed to be easy to install!

All units are designed to be lifted in place with a forklift using the shipping skid or if not skidded, using the reinforced drain pan.

11) McCormack Coil Company's product coolers are light weight!

They weigh approximately half of what a corresponding steel product cooler weighs, therefore less steel is required for support and it is easier and less costly to meet Seismic IV requirements.

12) McCormack Coil Company's all aluminum product coolers have better heat transfer!

All McCormack fins are full collared and mechanically bonded to the aluminum tubes. Aluminum also conducts heat faster than steel by almost 100%. Therefore, McCormack Coil Company's all aluminum product coolers will defrost faster than steel product coolers due to higher heat transfer rates and significantly lower mass.

13) McCormack Coil Company's all aluminum product coolers do not lose integrity even after repaired!

Galvanized steel coils after repair and cold galvanizing will eventually rust out, welded aluminum will not.