

We hold ourselves to a  
higher standard.



# Better Practices Make Better Systems.

There are many reasons why Hillphoenix® Refrigeration Systems continues to lead the industry. Why? No matter what the application or the specific refrigeration need, we can offer our customers a wide variety of options and configurations. The simple answer is that **we harness the best technologies and field-proven procedures and fit them to a higher set of standards.** Then, we never stop adapting and perfecting methods to insure that Hillphoenix products are the best designed, engineered and built refrigeration systems on the market today. No detail is too small to consider. No practice too insignificant to make a difference....

## Zero Leak Initiative

### Zero leaks make us the best choice.

Our Zero Leak Initiative has made our systems the tightest in the industry—and we're still not satisfied.

- All Hillphoenix brazers are required to pass a 16-day certification process.
- Hydrogen is used as a chase gas for leak detection.
- Nitrogen is used as a purge gas in the brazing process.
- Minimum 15% silver solder is used for all joints.
- Flaretite is standard on all flare connections.



Then, we double-check our work. We employ a random schedule of brazed joint inspections, searching for voids in solder alloy with OLYMPUS ultrasonic detectors.

### Better is no empty promise.

We apply the concept to every aspect of our work...

#### Better Accountability

- Employee numbers on joints help track down leaks and assure piping quality.
- All sub-assemblies are leak checked prior to being installed.

#### Better Standards

- Complete system evacuations to below 200 microns are charted & recorded electronically.
- Systems are designed for a per joint leak rate of less than 1/10th of an ounce per year.

#### Better Procedures

- Electrical is tested 3 times prior to shipping: after hard wiring for manufacturing verification; during the Quality Control check and finally, for EMS verification.
- High potential to ground tests are performed at 2.5x rated capacity to verify insulation to prevent shorts to ground.

#### Better Support

- Control Panel design and layout modeling provide accurate details for consistent layouts.
- Dedicated trade-specific mechanical, electrical and manufacturing engineers are an integral part of every project.
- Professional factory Field Service support is available for installation and start-up assistance.

**Small details make us better.**



Torque Control keeps electrical and mechanical connections compliant with manufacturers' recommended settings. A simple day-glow orange mark helps keep track of torqued connections.



*A torqued electrical connection.*



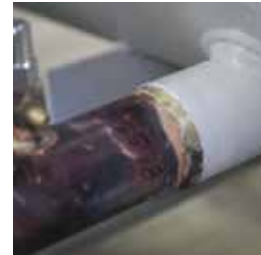
*A torqued mechanical connection.*



*Normally open solenoid valve installed with split-condensers to equalize gas flow during summer operations.*



*Receivers with ball valves instead of roto-locks are a standard with Hillphoenix.*



*Non-threaded connections on the high side of the receivers is a Hillphoenix exclusive.*



*IEC-rated contactors for compressors, defrost and fans are standard.*



*Replaceable-core brass suction filters are standard.*



*Pulled holes for connections on manifolds up to 3 1/8" make for better welded joints.*



*Exclusive unistrut pipe mounting system that holds the cushion in place and reduces pipe vibration*



*Flaretite seals are used on all flare connections.*



*REFFLEX® refrigeration hose is used to absorb all possible multidirectional vibrations while superior machined brass fittings provide strength and reliability.*

**Better quality and value in refrigeration systems comes from higher standards.**

Hillphoenix customers can be assured that whatever needs to be done to keep raising our standard — whether in design, manufacture or installation — will always be a project on tomorrow's drawing boards.

Better Practices  
Make Better  
Systems.

**Hillphoenix**<sup>®</sup>

A **DOVER** COMPANY

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