

HCR Modular Radiators

Horizontal Remote Heavy Duty Protection

The Economical Solution
to Customized
Heavy-Duty Cooling

Quieter, More Efficient,
Longer Lived and
Less Expensive to Operate



Superior Protection for Today's Heavy Duty Power Generators

The HCR Q

Nothing Runs Quieter.

Substantial reduction in noise levels... without compromising cooling capability.

Once your cooling requirements are determined, IEA engineers will design your individualized Model Q...
... featuring all of the features of standard HCR units, but with...
... one or more large fans, each running as slowly as possible, in synchronized response to changing cooling demands.

With minimum parasitic HP drain, energy efficiency rises to... operating costs sink below even the... units.

Belt driven systems allow easy adjustment... permitting cost -saving performance... scale environmental changes such



The Most Efficient Way to Match Energy Consumption to Changing Heat Conditions

An Innovative Modular Design Guarantees[†] Ultimate Performance at the Lowest Net Cost

**Improved cooling and financial performance
in both continual and stand-by applications.**

Quieter

The HCR consists of a varying number of individual core and fan sections. The fan in each section is either cycled on and off or has its speed varied by an optional motor controller in response to changing cooling requirements.

More Efficient

Any single speed small fan, running excessively fast, is “over protecting”... covering all contingencies rather than the exact one under which the engine is operating.

With its optimized combination of core materials, coolant flow, number of fans and fan speeds.

By blending the output of an unlimited number of modules, each coming on line only when and for as long as conditions require, the HCR provides immediate and thorough protection across minimum to maximum heat loads.

**Less Expensive
to Operate**

Since each module is drawing power only when it's needed, the HCR's performance is more closely attuned to changing cooling requirements than standard single core systems. Horsepower consumption is reduced to an absolute minimum, and overall power consumption can be reduced up to 75%.

Expensive, heavily muffled enclosures are not required...reducing the initial capital investment.

- Triple-thick tubes with high strength brazing tube-to-header joint.
- The HCR can handle temperatures up to 300° F and pressures to 250 psi.
- Mechanically expanded tube-to-fin bond... no solder or lead
- Non-clogging, plate type, aluminum sine wave fins
- Fiberglass-bladed fans are mounted in specialized steel venturis
- Durable powder coat or galvanized finishes available

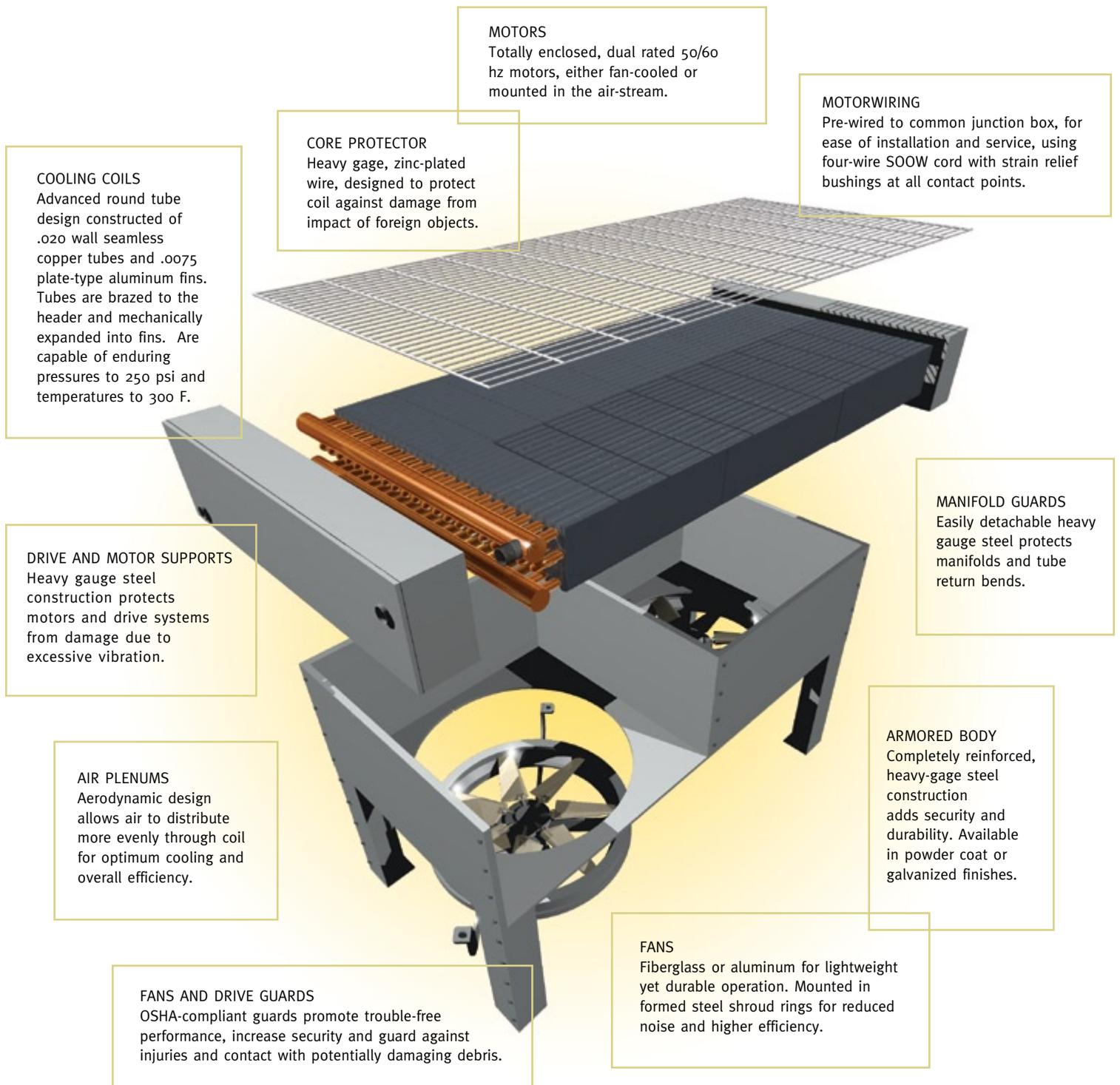
Longer Lived

The HCR's low profile makes it as hard to see as it is to hear. Units of almost any size can be housed in remote locations.

Low Profile

**Custom
Designing**

If pre-engineered units are not satisfactory for your needs, IEA engineers can create the perfect complement to your existing equipment.



Service Support makes dealing with IEA

Easy and Profitable.

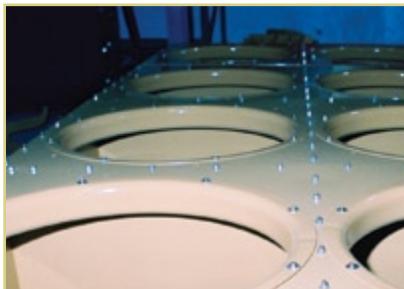
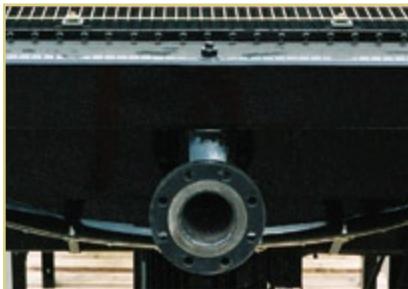
- **Production schedules are among the industry's shortest. HCR-M and HCR-Q units, even highly customized versions, can be available quickly, so your systems don't have to wait for the cooling protection they need.**
- **On-time delivery performance is consistent and dependable.**
- **A trained and experienced field service staff is available whenever you might need them... be it for on-site support, operator and/or maintenance training, parts or consultation. It's all a normal part of dealing with America's premier cooling experts.**

Targeted Engineering Produces Exceptional ROI

IEA uses a "customer-driven" approach to new product development.

Our product teams regularly meet with end users to determine the challenges they face in producing dependable, cost efficient power... and then engineer and manufacture heat exchangers of all kinds that meet the customer's needs to an unexpected level of satisfaction and profitability.

The HCR series reflects these practices to an exceptional degree. They deliver the performance customers need, at a purchase price and operating cost that produce rapid paybacks and outstanding returns.



- † IEA Guarantees every HCR unit will meet or exceed the cooling requirements for which it was specified, or IEA will:
- Modify the delivered unit, at no cost to the customer, so it does perform up to expectations, or
 - Replace the under-performing unit, at no expense to the customer, including both in and outbound freight and handling expenses.

No one else in the industry provides such a guarantee, because no one else builds heat protection products like IEA.

MIKE KEENEN, FACILITIES ENGINEER
Andrew Care Home, Minneapolis, MN

"I selected the HCR-M14 remote for my care center project because the owner didn't want to disturb the residents or neighboring apartment dwellers. My customer is very happy with the installation, and has received no complaints regarding noise."

BOB DEBRUYNS, FACILITIES ENGINEER
Skiff Memorial Hospital, Newton, IA

"The IEA horizontal core radiator provided the cooling we needed while fitting within a limited roof top area, and operating with a noise level that was acceptable near a hospital courtyard."

DION MCDEVITT, FACILITIES ENGINEER
Diversified Dynamics Corp., Minneapolis, MN

"The unit is very quiet. Our warehouse personnel say they can hardly hear it running. It has saved us money on heating costs and paid for itself in a short time."

For more than 20 years, IEA has been providing cooling solutions for manufacturers and end users of gas and diesel generators. Today, the company provides one of the most comprehensive arrays of heat transfer systems available... radiators, air coolers, oil coolers, heat exchangers, cooling system packages and accessories.



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