

CHILLER BURNOUT DECONTAMINATION

It's not so elementary

When an 80-ton reciprocating circuit in a 160-ton chiller at Huntington Farms Elementary School in Charlotte, NC burned out, a long-time field technician answered the call for help. This technician thought he'd seen it all, but the issues were unique and created a serious clean up problem. The burnout burned back into the suction line and contaminated the system with burnt oil, bits of electrical components, and pieces of the strainer.

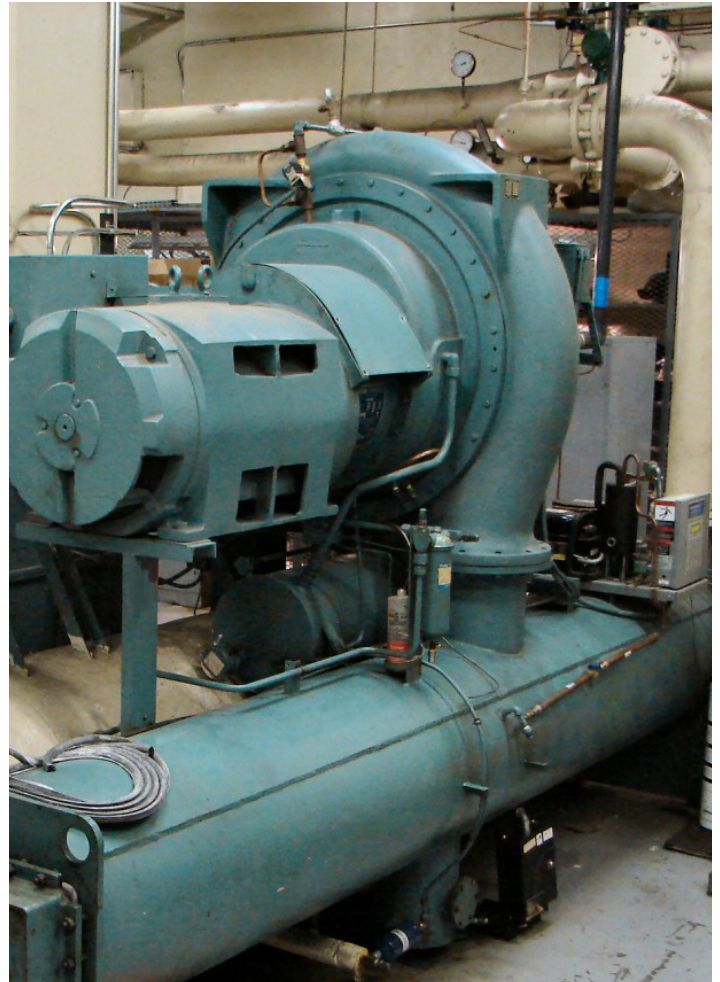
Standard cleanup methods would not apply because of the severity of the burnout. The technician decided to contact Hudson Technologies for their expertise on motor burnouts and reclamation of contaminated refrigerants. After discussing and ruling out various ideas, the two technicians decided on an approach.

Enter Hudson Technologies unique, proprietary and portable ZugiBeast®! This recovery and reclamation system not only pumps refrigerant from a chiller at high speed, it also removes all contaminants — reclaiming it to AHRI 700 standards. The plan was to flush the system with R-11, using transparent hoses to hook up to the chiller so they'd know when it was clean.

The technician ran 800 pounds of R-11 through the system, flushing through the discharge connection. He then reversed the flow by flushing through the suction connection. The color of the refrigerant was initially a gruesome dark grey but ran clear in about an hour.

Once the refrigerant was pronounced clean, Hudson evacuated the R-11. A new compressor was installed and charged with R-22, and the system was back up and running. All of this was done in the same day!

The unit has run fine since the cleanup. "I don't anticipate any trouble," reported the technician. "It turned out the cleanup was easy to perform once we figured out a method," he said. "It was fascinating to watch that R-11 come up clear right in front of us."



REFRIGERANTSIDE® SOLUTIONS

- Chiller dehydration & decontamination (online & offline)
- Refrigerant moisture reduction (online & offline)
- Rust and particulate reduction
- Hermetic burnout decontamination
- Residue and particulate removal & decontamination
- Oil logged chiller decontamination
- Chiller decontamination including elimination of mineral oil
- SF6 field recovery

OTHER SERVICES

- Refrigerant recovery
- Refrigerant/oil sampling & analysis
- Refrigerant reclamation
- Cylinder maintenance
- Lithium Bromide Recovery, disposal & analysis
- Glycol Recovery, disposal & analysis

PRODUCTS

- Refrigerant sales
- Refrigerant buyback

