

ON-SITE REFRIGERANTSIDE® SERVICE EVOLVES

Hudson Technologies unique, proprietary and portable ZugiBeast® was developed to focus on the refrigerant market; specifically for high-speed, on-site refrigerant reclamation. However before they knew it, engineers were investigating several other possibilities for various reclamation problems.

“Very shortly after we introduced our new technology as a reclamation service, clients started asking if we could also use it for other problem applications,” said Kevin Zugibe, Hudson Technologies inventor and CEO. Hudson engineers adapted the ZugiBeast®, and soon after began hiring and training technicians at all of its regional facilities.

The first development was created at the request of a major OEM service contractor who already used Hudson for onsite reclamation projects. They were working with a client who was experiencing particularly bad compressor burnout in an 80-ton reciprocating chiller, and wanted to flush the system with R-11.

Hudson engineers determined the R-11 could be used. First, the system was flushed through the discharge connection, then through the suction connection. The fluid was monitored and tested to make sure all contaminants were removed. This process was completed within a few hours, and the system was up and running the same day.

This project spurred Hudson engineers to seek out other new refrigerant decontamination challenges. The following is a brief summary of the evolved ZugiBeast's® capabilities:

- **Water removal** — Hudson engineers developed a method for dealing with even the worst water disasters. They are able to remove large amounts of water, including cases where there were several feet floating on top of the refrigerant.
- **Mineral oil removal** — using the chillers own reclaimed refrigerant to flush the system, they are able to repeatedly circulate the system to capture the mineral oil.
- **Dehydration** — Hudson engineers developed a proprietary technique for dehydrating chillers using the ZugiBeast's® refrigerant charge and reclaim technology capabilities.
- **Oil removal** — the ZugiBeast® reclaim system removes excess oil without affecting the lubrication function. Chiller efficiency can often be restored without shutting the system down.
- **On-line decontamination** — Hudson engineers developed a method for on-line RefrigerantSide Services to keep systems up and running while being decontaminated.

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

