

CHILLER OIL DECONTAMINATION



In studies it has been identified that excess oil in refrigerant will cause a significant degradation in performance. Chiller manufacturers recommend levels no higher than 0.5%. However, it is not uncommon for excess oil to build up at levels ranging from 3%–9%.

A major Boston department store called on a Hudson Technologies service technician as it had purchased a new chiller that needed some repairs. They bought the chiller because their original chiller could not handle the load. The store's management wanted to use their original chiller as a backup just in case the new one ever went down completely.

When the technician arrived, it became very apparent why the original chiller was not performing properly. It's excess oil levels were over 20%!

The excess oil and other contaminants were removed from the original chiller on-site using Hudson

Technologies unique, high-speed and portable ZugiBeast®. The ZugiBeast® was able to decontaminate and reclaim the refrigerant while the technician did the necessary system maintenance on the new chiller.

Once these steps were complete, the old chiller was brought online (it had been idled when the new chiller was installed) and handled the load with ease. The problem all along had been the oil buildup. If the store had done a refrigerant sample this would have been identified sooner, saving them thousands of dollars.

Hudson Technologies provides customers with a sample kit consisting of a sampling cylinder, instructions for use, return packaging, and labeling. Once Hudson receives the sample it is analyzed for contaminants, including excess oil. If the analysis detects significant amounts of oil, Hudson is prepared to promptly decontaminate the system.

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

