

# DuPont™ ISCEON® MO99™

## CASE HISTORY

### Donnelly Mechanical – DuPont™ ISCEON® MO99™



#### Background

Donnelly Mechanical, located in Queens Village, NY, is a full service mechanical contractor specializing in all aspects of HVAC construction, service and maintenance. Donnelly's new sustainable energy services division is focused on providing environmentally sustainable refrigerant solutions and energy conservation initiatives to their clients in the New York metropolitan area. Donnelly's clients include prominent corporations, national retailers and financial institutions.

As part of its commitment to sustainability, Donnelly wanted to find the best replacement for R-22 in commercial air conditioning equipment. ABCO Refrigeration Supply Corp., a DuPont wholesaler, introduced Donnelly to DuPont™ ISCEON® MO99™ as the best retrofit choice. Donnelly decided to get first-hand experience with MO99™ by performing a retrofit from R-22 at its own facility in Queens Village, NY.

ISCEON® MO99™ is a retrofit refrigerant that combines the pressure-enthalpy characteristics for R-22 with mineral oil compatibility in a unique refrigerant that can be used to replace R-22 in air conditioning and refrigeration equipment covering a wide range of evaporator temperatures.

#### Project details

Donnelly Field Supervisor, John Croak, described the ISCEON® MO99™ experience. "It was a very simple retrofit—basically we replaced one refrigerant for another, with no oil change. We've been looking for a drop-in. Everything else requires a valve or oil change."

The retrofit consisted of a ten ton Carrier unit with an 8 lb. charge size. The Schrader valve core was the only replacement made during the retrofit.

#### Results

Donnelly was extremely pleased with the retrofit. "We received help from DuPont from start to finish," said John Croak. "The tech service folks were knowledgeable and the retrofit guidelines provided were very useful. The entire process was straightforward, efficient and effective. Most importantly, the system is running just as well with MO99™ as it did with R-22. Going forward, we plan to use ISCEON® MO99™ for all of our R-22 retrofits."

#### Conclusion

John Fallon, Vice President of Donnelly, said, "It couldn't have been easier—the results are phenomenal. With a 407 retrofit, an oil change is required—this was so much simpler to do. I was involved with retrofits with MP39 and it was time consuming. We want to make it as simple as possible for the guys in the field. The pressure is approximately the same as R-22. ISCEON® MO99™ is safe, fast and ultimately will save money since working with it was very efficient in terms of time and labor. I am using our success with MO99™ as a sales tool to sell it to our customers."

Dan Donnelly, President and Owner of Donnelly Mechanical, was enthusiastic about the high quality of the teamwork between DuPont and his organization. "We could not have asked for better support. The tech service guys from DuPont were excellent, providing us with both detailed technical data as well as practical tips for the quick switch from R-22 to MO99™. We are so pleased with the performance of the ISCEON® MO99™ that next month we plan to start working with it at a major New York City office building. We are confident of DuPont's support for us both directly and through its authorized distribution."



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For more information on DuPont™ ISCEON®, or other DuPont Refrigerants, please contact your local representative.

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