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## The Meier Minute

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# DuPont Unveils ISCEON® MO99™ A Quick Switch Refrigerant That Delivers Unprecedented Versatility to Replace R-22

**Transition from seven decades of servicing cooling systems with R-22 is becoming easier thanks to ISCEON® MO99™, the first versatile R-22 replacement refrigerant from DuPont.**

Switching from R-22 has not been easy - until now. ISCEON® MO99 refrigerant, developed and patented by DuPont, combines R-22 pressure - enthalpy characteristics with mineral oil compatibility in a unique HFC refrigerant that can be used to replace R-22 over a wide range of evaporator temperatures. With MO99, you will simply recover the R-22, replace critical seals, charge refrigerant, restart the system, and monitor for leaks - replacing R-22 can't get any easier. The bottom line is, retrofitting to HFC refrigerants puts your business in a position to avoid expected R-22 supply shortages, pricing volatility and labor shortages, and can even provide you with a low-cost supply of R-22 through refrigerant recovery. Extensive studies found a common desire among refrigeration and air

conditioning equipment owners to eliminate costly & disruptive oil changes, minimize component replacements and to minimize time spent on control set point adjustments and subsequent expensive service calls. "We've listened to our customers and industry influencers and developed a unique HFC refrigerant to help ease the transition away from R-22. With ISCEON® MO99, it is easy to meet phase down targets with minimal equipment downtime," said Nick Strickland, Market Development Manager for DuPont's refrigerants business. ISCEON®'s MO99 versatility reduces the cost of a refrigerant retrofit for a major supermarket up to 45% versus R404A and up to 9% compared to the R407A/C refrigerants.

ISCEON® MO99 applications include low and medium temp refrigeration and commercial

air-conditioning. DuPont is also testing MO99's suitability in residential air conditioning applications, and will release results in the near future. MO99 does not require an oil change, and offers similar condenser and evaporator pressure settings to R-22, eliminating the need to change powerhead elements in the TXV's. MO99 has a slight increase in TXV loading; however, properly sized TXV's will not have to be changed. It is intended for DX systems only, and has cooling capacities within 5-10% of R22. As a near drop-in replacement refrigerant, MO99 offers comparable energy efficiency to R-22. ISCEON® MO99 is a hydrofluorocarbon (HFC) refrigerant and is not subject to the phaseout under the Montreal Protocol and the U.S. Regulation. It has a 42% lower Global Warming Potential (GWP) than R-404A.



DuPont™  
**ISCEON® MO99™**  
refrigerant

**The Quick Switch to Replace R-22\***  
\*See Retrofit Guidelines Before Using