ATMOsphere AMERICA

business case

natural refrigerants

June 16 & 17, 2016 – Chicago

Sobeys leader of refrigeration CO2

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Sobeys inc.

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Sobeys inc.

Green solution, refrigeration CO2

In search of a green solution, the team in Sobeys Québec departement of commercial development in 2008, has defined a vision system that uses can CO2.

The direction of Sobeys Quebec Inc., gaves the approbation for the choice of CO2. The departement of commercial development ask of major Quebec manufacturers to propose their CO2 systems.

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During this adventure, the new equipment has been tested in real conditions in IGA supermarkets. This is how Sobeys with the manufacturers have come to develop a refrigeration system extremely efficient and innovative transcritical CO2.

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Required specifications

-Portable

-Low energy consumption

-Low maitenance

-Adaptable renovation (retrofit)

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Advantage

-Global warming potential (GWP): 99% reduction compared to HFC

-Energy costs: 8% to 10% of reduction compared to HFC

-Cost of C02 much less expensive than HFC

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Mature technology

In North America, Sobeys has been the instigator with manufacturers to develop CO2 systems. Since the first store in 2009, refrigeration systems in transcritical CO2 evolved and are now mature.

Since Sobeys completed 82 supermarkets operated whit CO2 and 9 others stores are currently under construction for a total of 90 stores.

Sobeys inc.

Future

For the future, Sobeys Quebec Inc. do the analysis three sectors, the refrigeration, air conditioning and ventilation to optimize the performance of stores. Currently we have strore renovation where we test the air conditioning whit CO2.

Another point to study is defrosting. Do we needs to our choice with hot gas or electric defrost? These strategic points can make a big difference in energy costs. We do those test in the same stores the we do air conditioning.

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Today, Sobeys Québec inc. is a leader of refrigeration CO2 of North America in supermarkets and want to keep it that way.

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Our business partners

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CO2 systems

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Thank you