

Opteon™ XP40

Replaces R404A

• **ASHRAE** #: R-449A

HFC/HFO blend:
 R32 / R125 / R1234yf / R134a (24.3%/24.7%/25.3

ODP: Zero Ozone Depletion Potential

• **GWP**: 1397 (AR4)

ASHRAE safety: A1 non-flammable

• Glide: ~4-5K

Can be topped off while servicing (do not mix with R-404A

Compatible with POE lubricants

 Compressor approvals: Bitzer, Emerson, Frascold, Dorin, Danfoss, Tecumseh





Opteon™ XP40 (R449A)

Used in New convenience stores

Co-op

Integrated Power Packs (IPP),
Copeland Scrolls
Danfoss electronic valves
RDM controllers
Costan cases with EPTA coils
Triple stage booster pack operating

Triple stage booster pack operating HT, MT and LT



Chinese Supermarket

2 x triple-stage externally compounded booster systems with integrated heat recovery Each pack containing four LT, two MT, and one HT compressors, with independent variable speed drives was controlled by advanced custom software, delivering smooth and reliable suction pressures.



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Retrofit of Waitrose Stores

First store 2015

- Two HT packs, 1 LT made in 2004, Copeland Scroll compressors.
 LT pack connected to 6 in-store cabinets and 1 cold store.
 HT packs connected to 18 cabinets, 3 refrigerated counters and 3 cold rooms for storage.
- 1st retrofit took place overnight on the 12th July 2015.
- The other two packs were retrofitted on consecutive nights, without causing any disruption to the trading floor during the store's opening hours.
- 8.7% Energy saving on MT, 3% on LT, 6.6% overall.
- "No component changes, no oil changes and similar system operating parameters made the retrofit very straightforward and fast once the R-404A had been Recovered"

significant opportunity for Waitrose to lower its CO2e emissions and help to achieve the target set out in its Carbon Plan.

2016 Store conversion programme to replace 404A with Opteon XP40







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Industrial Applications for Opteon XP40

Working with all the major UK contractors

Many now have at least one system on

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Food Processing

Cold Stores Medium and Low Temperature

- 1. Speciality Foods condensing units
- 2. Turkey production and Storage
- 3. Duck production and Storage
- 4. Central Pack Freezer room
- 5. Frozen Food Storage



