NEW

# SUPER CHANGE™

## FAST & EASY R22 SYSTEM RETROFIT

MINERAL/AB OIL
SUPER CHANGE™
HFC REFRIGERANT

- Links Mineral/AB oil to any HFC refrigerant
- Eliminates oil change requirements
- Conversion flush not required
- Boosts oil return & heat transfer

## WHAT IS SUPER CHANGE™ ?

SUPER CHANGE™ allows for a fast & easy conversion from R22, or any mineral/alkylbenzene oil systems, to HFC refrigerants, including POE-compatible R407C & R410A.

## HOW DOES IT WORK?

SUPER CHANGE™ creates a strong compatibility link between mineral/alkylbenzene oils & HFC refrigerants. No changing of the oil, “O” rings, or gaskets is required, eliminating compressor downtime & line set flush.

## OTHER BENEFITS:

- Boosts efficiency & extends compressor life
- Maximizes heat transfer & oil return with drop-in refrigerants
- Reduces oil logging – critical in systems with long line set runs & rises
- Reduces corrosion & restores lubricant to original condition by removing water & oxygen
- Rejuvenates compents by eliminating moisture


981

EQUIPMENT SAFE

BOOSTS EFFICIENCY

ELIMINATES MOISTURE

ALL SYSTEMS
UP TO 20 KW
APPLY SECOND CAN FOR SYSTEMS 20+ KW

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CLIPLIGHT
cliplight.com

# FREQUENTLY ASKED QUESTIONS

**WHAT IS SUPER CHANGE™?**
Super Change™ allows for a fast and easy conversion from R22, or any mineral or alkylbenzene oil system, to HFC refrigerants, including POE-based R407C & R410A. Super Change™ also rejuvenates O-rings, elastomers, and gaskets; in most cases eliminating the need to replace them when switching to an HFC refrigerant. Components worn through normal wear and tear may need to be replaced.

**HOW DOES SUPER CHANGE™ WORK?**
Super Change™ works by creating a strong compatibility link between mineral or alkylbenzene oils and HFC refrigerants. This solubility eliminates the need to change system oil, line set conversion flush, and improves oil return and heat transfer with HFC conversion refrigerants, when used on mineral oil systems.

**HOW DOES SUPER CHANGE™ REJUVENATE O-RINGS, ELASTOMERS, GASKETS, AND IN MOST CASES ELIMINATE THE NEED TO REPLACE THEM WHEN SWITCHING TO AN HFC REFRIGERANT?**
The chemical composition of Super change™ directly reacts with these soft components and is absorbed into them, counteracting the contraction caused by the removal of the HCFC refrigerant. Components worn through normal wear and tear may need to be replaced.

**ARE THERE OTHER ADDED BENEFITS TO SUPER CHANGE™?**
Yes, Super Change™ removes water & oxygen, preventing corrosion, lubricant breakdown, and helps restore lubricant to original condition. It also boosts efficiency by reducing oil logging in systems with long line set runs and rises, which extends compressor life.

**HOW MANY CANS OF SUPER CHANGE™ DO I USE IN A SYSTEM?**

| SYSTEM CAPACITY | Up to 10 KW | 10 KW to 20 KW | 20 KW + |
|---|---|---|---|
| SYSTEM OIL CHARGE | Up to 950 ml | Up to 1.9 L | 3.8L + |
| Conversion not requiring oil change out | 1 can | 1 can | 2 cans/3.8 L |
| Conversion requiring oil change out | 1 can | 2 cans | 4 cans/3.8 L |
| Conversion to 410A | 1 can | 1 can | 2 cans/3.8 L |
| R22 line set conversion flush | 1 can | 1 can | 2 cans/3.8 L |
| For oil logging or long line set runs & rises | 1 can | 1 can | 2 cans/3.8 L |

**CONVERSION NOT REQUIRING OIL CHANGE OUT :** This refers to systems that use a replacement refrigerant that are mineral oil compatible, also refrigerants that have a hydrocarbon content, giving them miscibility with the mineral oil. Adding Super Change to these converted systems will give the benefits of moisture removal, “O” ring elastomer and gasket rejuvenation and giving the oil back many of the original properties that can be lost over time.

**CONVERSION REQUIRING OIL CHANGE OUT :** A conversion from R22 to 407C for example. Without the use of Super Change, normally these systems would have to have the mineral oil changed, lines flushed and then POE oil injected into the system as the total oil charge.

**CONVERSION TO R410A :** This too would be a conversion requiring an oil change normally, but Super Change allows the conversion to be carried out without changing the oil.

**R22 LINE SET CONVERSION FLUSH :** In this instance, if a system does have the oil changed from MO to POE (R22 to an HFC refrigerant), part of the usual process is to flush the lines with a flushing agent to remove all the original oil. With the addition of Super Change, this is not necessary. Saving considerable time on the conversion.

**FOR OIL LOGGING OR LONG LINE SET RUNS AND RISES :** As Super Change improves the miscibility of the existing lubricant, it will reduce oil logging or in other terms poor oil return issues. This will further enhance the overall performance of the system, with the heat exchangers operating more efficiently.

**CAN SUPER CHANGE™ BE USED WITH ALL HFC REFRIGERANTS AND SYSTEMS?**
The chemical linking properties of Super Change™ work with all HFC refrigerants. Super Change™ is best suited for high and medium temperature systems such as residential and commercial AC/R systems. Low temperature systems may be suitable for conversion with Super Change™. For these applications call the Cliplight Tech Hotline for additional assistance at 866.548.3644.

**WHEN SHOULD SUPER CHANGE™ BE USED?**
Super Change™ should be used when converting any mineral or alkylbenzene oil system, such as R22, to an HFC conversion refrigerant. It can also be used to prevent corrosion, lubricant breakdown, boost efficiency, and reduce oil logging.

**WHAT IF THERE IS CONTAMINATION ALREADY PRESENT IN THE SYSTEM?**
System contamination does not negatively affect the function of Super Change™. However it is a recommended practice to install a new liquid line drier when changing refrigerants.

**WILL SUPER CHANGE™ HARM THE COMPRESSOR OR ANY OTHER COMPONENTS IN THE SYSTEM?**
No, Super Change™ is safe and will not harm mechanical components. In fact, Super Change™ has properties which help restore oil to original condition and in turn reduce internal corrosion, wear and tear, thereby extending equipment life.

**HOW LONG DOES SUPER CHANGE™ STAY IN THE SYSTEM?**
Super Change™ will continue to be active in a closed system until it is opened for repair. If the refrigerant charge is replaced, install a new can.

**HOW DO I CLASSIFY RECOVERED REFRIGERANT FROM A SYSTEM CONTAINING SUPER CHANGE™?**
Super Change™ does not alter the classification of recovered refrigerant. Cliplight products are vacuum-packed and contain no propellants such as propane or isobutane, which are deemed contaminates.

**HAS THE CHEMICAL TECHNOLOGY IN SUPER CHANGE™ EVER BEEN USED BEFORE?**
Yes, the use of agents to create molecular bonds, or solvency is well known. They are the fundamental basis of all refrigerants, oils, and additives used in the AC/R industry.

**HOW LONG DOES IT TAKE FOR SUPER CHANGE™ TO WORK?**
After installing Super Change™ it is safe to run the unit. Depending on the size of the system, it will take approximately 24 hours of operation, for the full effect to be achieved.

**CAN I USE SUPER CHANGE™ IF I SUSPECT THAT THERE IS ALREADY A MIXED REFRIGERANT?**
Yes, the performance of Super Change™ will not be affected by the mixture of refrigerants.

**CAN SUPER CHANGE™ BE USED ON A SYSTEM WITH EXISTING POE OIL?**
Yes, Super Change™ will improve system performance by preventing internal corrosion, lubricant breakdown, and help restore oil to original condition. It will also boost efficiency by reducing oil logging in systems with long line set runs and rises, which extends compressor life.

**CAN SUPER CHANGE™ BE USED IN PLACE OF A FLUSH?**
Yes, Super Change™ can replace a line set conversion flush. If a burnout has occurred, a flush is required.

**SHOULD I USE SUPER CHANGE™ WITH SEMI-HERMETIC UNITS OR COMPRESSORS WITH AN OIL DRAIN VALVE?**
These systems should be changed out to the appropriate oil. Super Change™ can then be added to the system to treat the remaining mineral or alkylbenzene oil, eliminating the need for a line set conversion flush.