

The Direct Replacement of Choice!

One Shot®(C) Replaces R-502, R-507A, R-404A, R-402A, R-402B, R-408A & R-22 (Refrigeration).



Scan this QR Code
to watch the One Shot-C
Conversion Video on
your mobile device!

- Direct Replacement
- HFC - Non-Ozone Depleting
- ASHRAE Designated R-422C
- EPA SNAP Listed

Complete Specifications on Back

Impeccable Record of Field Performance

For more information or to find
a distributor near you, visit
www.icorinternational.com
or call 1-800-497-6805.

For Free Online Training at
ICOR's Virtual Training Center,
visit **www.icorvtrc.com**.

ICOR
INTERNATIONAL
"making your life easier™"

ONE SHOT®(C)

System requirements

- System must be designed for use with R-502, 404A, 507A or R-22 in refrigeration
- System must be designed for a direct expansion metering device, i.e. TEV, cap tube, or fixed orifice
- System should be operating within its design capacity.
- System should be leak free
- Compressor must be charged with lubricant as required by the OEM
- Suction, discharge and liquid piping must be sized, trapped and insulated for systems temperature and BTU design.

Evaporator temperature range

-40 °F to 30 °F

Oils

MO, AB, POE and PVE

Direct Replacement for Refrigerants

502, 402A/B, 404A, 408A, 422A, 428A (R-22 in refrigeration*)

Pre and Post conversion data

System information must be recorded for warranty

Go to www.icorinternational.com for complete warranty information

Flooded systems

Must be approved by ICOR's Technical Support Supervisor

Conversion considerations

ONE SHOT is compatible with mineral oil, alkyl benzene and polyol ester. In most cases no change of lubricant is required. Oil return is determined by a number of operating and design conditions. Minor equipment modifications (e.g. seal replacement, TEV adjustment) may be required.

System Charging

1. Initially Charge 95% of R-502, 110% of 404A, 109% of 507A and 97% of R-22. Do Not exceed 115% of OEM charge
2. Remove liquid only from cylinder
3. Charge refrigerant in the receiver or high side of the system with the compressor off.
4. Run system and add refrigerant if needed to design subcooling. Adjust TEV if needed. Never charge system by clearing sight glass
5. For Fixed Metering Device Systems. Charge by compressor superheat

Benefits

- Lower retrofit costs no POE oil changes
- No line set changes
- Can use R-502/404A TEV and power element
- Can be topped off after leak has been repaired
- 20% lower GWP vs. 404A and 507A
- Significantly lower energy usage vs. 22 in med and low temp refrigeration

Application

- R-502 low and medium temp refrigeration
- R-404A and 507A low and medium temp refrigeration
- R-22 low and medium temp refrigeration

Performance Comparison

- Higher than R-502
- Same as 404A and 507A
- Significantly higher than R-22 in refrigeration

**TEV Power Element must be changed to R-404A/R-507A*

EPA Hotline # 800.296.1996
www.epa.gov

Technical Information

ASHRAE Designation	422C
Environmental Classification	HFC
ASHRAE Standard 34 Safety Classification	A1
EPA/SNAP Accepted (S=Stationary M=Mobile)	S
Ozone Depletion Potential	0
*Global Warming Potential	2794
Oil Compatibility	All
Molar Mass lbm/lbmol	113.4
Normal Boiling Point (1 atm, °F)	-50.71
Critical Pressure (psia)	547.70
Critical Temperature (°F)	163.53
Critical Density (lbm/ft ³)	33.739
Liquid Density (70 °F, lbm/ft ³)	72.663
Vapor Density (NBP, lbm/ft ³)	0.390
Temperature Glide (NBP)	5
Temperature Glide (100 °F)	3
Pounds Per Gallon (70 °F)	9.71
Maximum Moisture (ppm)	10
Maximum Non-Condensables (% vol)	1.5
Maximum High Boiling Impurities (% vol)	0.01
Recommended Maximum Exposure Limits in Air (ppm)	1000
R-125 (% Weight)	82
R-134a (% Weight)	15
R-600a (% Weight)	3

Distributed By:

* Per IPCC AR5



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