

**GREEN VOLT™ (GV) REFRIGERANT ENHANCER**

**REDUCES ENERGY CONSUMPTION BY AS MUCH AS 15% IN AIR CONDITIONING AND REFRIGERATION SYSTEMS**

**BENEFITS**

- Increases refrigeration efficiency up to 15%
- Improves heat transfer
- Reduces maintenance
- Extends compressor life
- Eliminates oil fouling

**GV REFRIGERANT ENHANCER CONCEPT**

Cold-Plus™ is a new proprietary technology that improves refrigeration efficiency without adding chemically reacting or altering additives. Cold-Plus™ is a "Refrigerant Enhancer." The product works by lowering the temperature for the onset of the phase change of the refrigerant and improves the heat transfer to the refrigerant. In addition to energy savings of up to 15% Cold-Plus™ has unique properties that extend compressor life and reduce compressor noise.

- After application, the lubrication system carries Cold-Plus™ throughout the system, working in the condenser and evaporator to improve the heat transfer process.
- Compressor friction is reduced, extending compressor life.
- Cold-Plus™ will also dislodge the non-conductive layer of oil that lines the tubing within the system. This enables faster heat transfer, with less laminar friction on the refrigerant for better overall performance. Lastly, in addition to reducing friction in the compressor, a layer of sub-micron, chemically inert polymers are fused into the pores and inner walls of the copper tubing, the evaporator and condenser coils.

As a manufacturer committed to advanced refrigerant technology, GV provides the most advanced technology available for improving energy efficiency in air conditioning and refrigeration systems. Many years of product research and development produced Cold-Plus™; a refrigerant enhancer, metal preparation, blending and bonding formula exclusive to Green Volt™.

Cold-Plus™ utilizes chemically inert technology and does not contain chlorine or other potentially harmful components. Also, it does not compromise host oil characteristics or component critical tolerances. Cold-Plus™ was tested by Intertek Labs for chemical stability of components for use within refrigeration systems.

**PACKAGING**

Container Size	Package	Tube Length	Tube Diameter
3 fl. oz. injector tube	Unit	6 inch	1 inch
5.5 fl. oz. injector tube	Unit	12 inch	1 inch
8.4 fl. oz. injector tube	Unit	18 inch	1 inch
Custom Bulk	Bulk or injector tube	Varies	1 inch or 2 inch (if tube)

**USES**

Cold-Plus™ air conditioning and refrigeration treatment can be used in a broad range of air conditioning systems including split systems, package units, chillers and refrigeration systems, regardless of age. Works best in units 3-years or older.

1. Determine the oil capacity of the system's compressor(s). Cold-Plus™ is installed at 12.5% of the total compressor capacity ÷ 7.
2. This will not overfill hermetic compressors.
3. In semi-hermetic systems over 15 tons, remove the amount of oil intended to be replaced with Cold-Plus™ if needed.
4. Shake Cold-Plus™ container well to insure that any settlement is totally in suspension.
5. Insure system is operating efficiently and running during installation.
6. Attach hoses and gauges according to standard procedure. After taking pressure readings disconnect the suction hose at the suction port. Replace it with a jumper hose with a ¼ turn shutoff valve female end and using the valve bleed any air from the hose and close the ¼ turn value on the jumper. Remove the cap from one end of the installation tube and connect it to the jumper. Remove the cap from the other end and connect it to the suction line. If you see any air bubbles in the installation tube you can remove it by holding the installation tube in an upright position and opening the ¼ turn valve slowly until the air bubble is removed. Connect suction hose to install tube.
7. Open suction first then slowly open liquid valve to 30 - 35 pounds above normal suction pressure while installing product. Allow 45 - 90 seconds for injection of product. When product is in and tube is flushed close all valves and remove the jumper hose and tube. Reconnect the suction hose to the suction port.
8. Insure system operates for at least 15 minutes after injection to allow product to cycle the system several times. Take pressure readings and follow normal shutdown/gauge remove procedures.

**CHARACTERISTICS**

Refrigerant Enhancer	Proprietary
Lbs/gal @ 60degF	(typical) 7.327
Viscosity	
cSt@ 40degC	(typical) 65.6
cSt@ 100degC	(typical) 8.3
Viscosity Index	(min.) 92
Pour Point deg F	(max.) 10
Flash Point deg F	(min.) 430