

CULMI AIR-COND & REFRIGERATION PARTS SUPPLY SDN BHD

HyChill Hydrocarbon Refrigerant Replacement Benefits

**YOU CAN HELP
REDUCE
GLOBAL WARMING!**

CUT CARBON!

Change to the
Friendly
Hydrocarbon
Air-Cond Gas
cooler safer economical



HyChill
HYDROCARBON REFRIGERANTS
www.hychill.com



What are Hydrocarbon Refrigerants?

Hydrocarbon refrigerants are made from naturally occurring gases, and cause no damage to the environment. They are energy efficient, have no chemical or acid reactions, and are highly economical. Hydrocarbon refrigerants are compatible with existing systems and are easy to use.

Why should we use Hydrocarbon Refrigerants?

Because they ...

... are cooler and more efficient

They repel heat faster and are much cooler. Hydrocarbons are 50% more efficient conductors of heat than fluorocarbons.

... require no change of equipment

Since no retro-fitting is required, HyChill refrigerants are the perfect "drop in" solution for systems which previously used gases such as CFC R12, HFC R134a, HCFC R22, R502, R11 and others.

... are economical

HyChill hydrocarbon refrigerants have a unique advantage: Each kilogram of hydrocarbon refrigerant replaces 3 kilograms of fluorocarbon refrigerant, so you only require a third of the refrigerant by weight.

The Air-Cond Gas of the Future



... use less pressure, therefore save energy

Hydrocarbon refrigerants in refrigeration or car air-conditioning systems use less energy than fluorocarbon refrigerants. This means less fossil fuel burned resulting in fuel saving and lower global warming.

... are environment friendly and safe

HyChill hydrocarbon refrigerants have an atmospheric life of less than one year with zero effect on the ozone layer and virtually no contribution to global warming. They have no toxic chemicals or concealed dangers for our planet. The use of Hydrocarbon Refrigerants meets International Standards such as ISO 5149, BS4434-1995 and AS/NZS 1677-1998.

Which Hydrocarbon Refrigerant should be used for vehicles?

Minus 30 (also known as HR12).

Where can I get this gas?

Call us and we will direct you to the nearest workshop!

CALL US TODAY!

03-8024 7376

Our Environment, Our Moral Responsibility

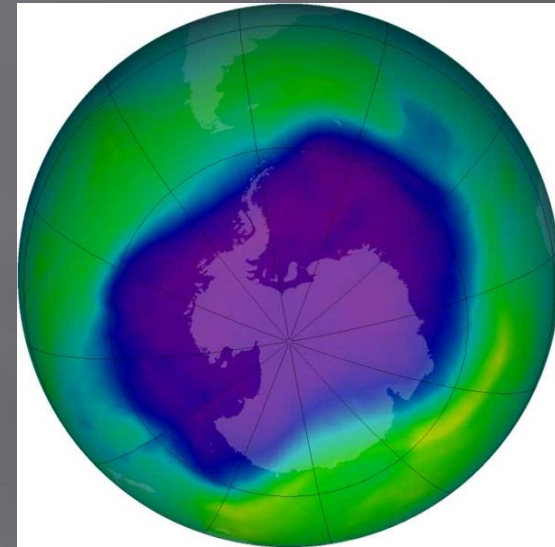


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HyChill Hydrocarbon Refrigerant Replacement Benefits

Equivalent Refrigerants

HyChill Refrigerant	Other name	Substitute refrigerant	Application area
Minus 10	HR600A	R12 (CFC) R134A (HFC)	Domestic refrigerators
Minus 30	HR12	R12 (CFC) R134A (HFC)	Mobile air conditioners (all vehicles), domestic & commercial refrigerators
Minus 40	HR290	R22 (HCFC)	Split air conditioners, ice cream cabinets, drink dispenser
Minus 50	HR22	R22 (HCFC) R404A (HFCs blend) R502 (CFC/HCFC blend)	Stationary air conditioners, big chillers, milk vats



CFCs are ozone-depleting substances and are greenhouse gases with very high global warming potential

HCFCs are ozone-depleting substances (to a lesser degree) and are greenhouse gases with very high global warming potential

HFCs are not harmful to ozone layer but are greenhouse gases with very high global warming potential

HyChill refrigerants are not harmful to the ozone layer and their global warming potential is negligible

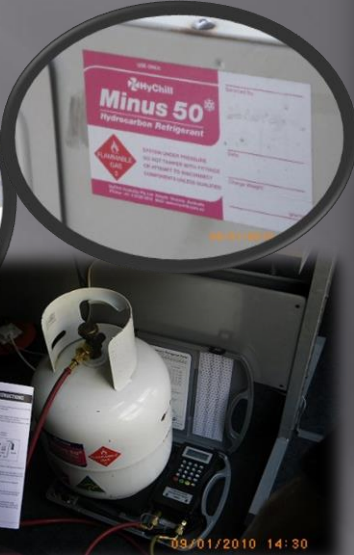
Global Warming Potential (GWP) comparison:

CFC R12	10,720 units
HCFC R22	1,780 units
R410a (mix of HCFCs)	1,725 units
R403a (mix of HCFC & PFC)	1,720 units
HFC 134a	1,300 units
HCs	3 units only



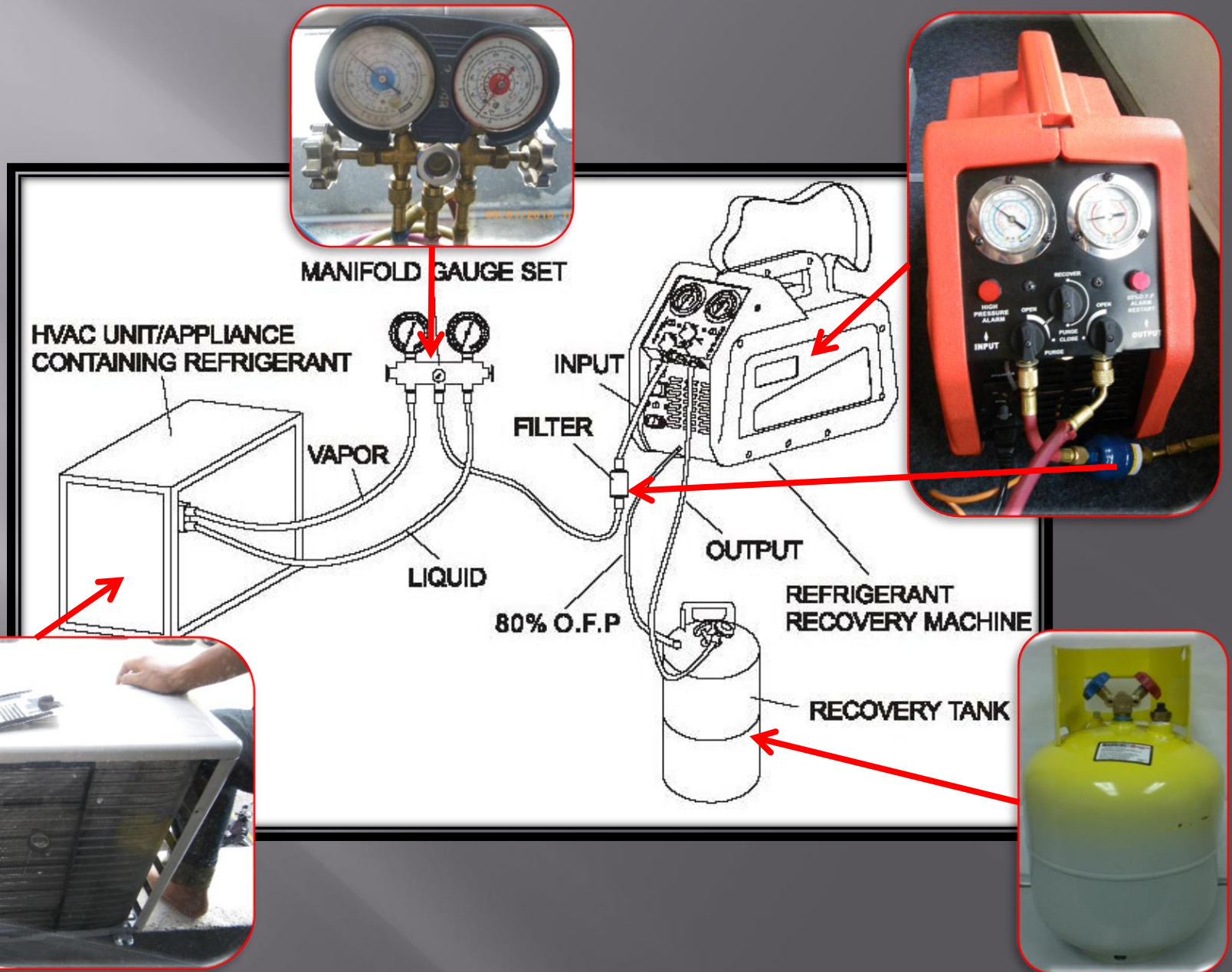
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HyChill Hydrocarbon Refrigerant Replacement Performed With The Involvement Of:
m/s Ferndale Direct Sdn Bhd (HyChill Malaysia's Principle In Supplying The Equipments)
m/s HyChill Malaysia Sdn Bhd (HyChill Australia's Malaysian Distributor)
m/s Satria Teknik Servis (HyChill Malaysia's Contractor)



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HyChill Hydrocarbon Refrigerant Replacement – Process : R22 Refrigerant Recovery



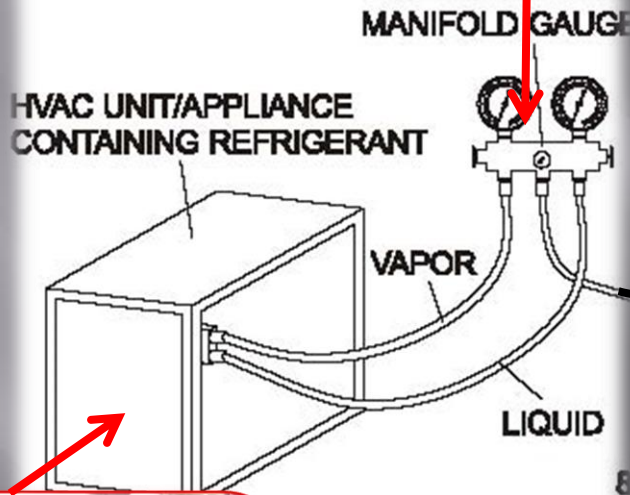
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HyChill Hydrocarbon Refrigerant Replacement – Process : System Vacuuming



Vacuumping Time:

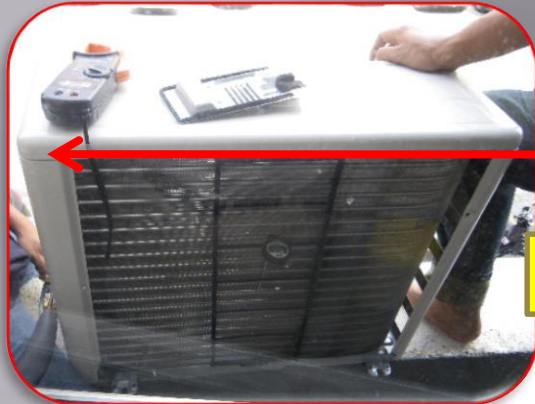
- 1) 1.0~3.0 HP Air-Cond Units : 30 minutes
- 2) 4.0~6.0 HP Air-Cond Units : 45 minutes
- 3) 7.5~15 HP Air-Cond Units : 1 hour



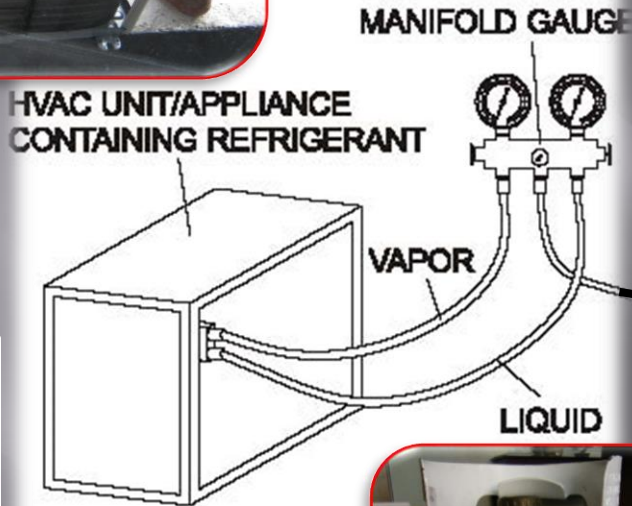
Vacuum Pump

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HyChill Hydrocarbon Refrigerant Replacement – Process : Hydrocarbon Charging Programmable Charging Scale



Minus 50 Sticker

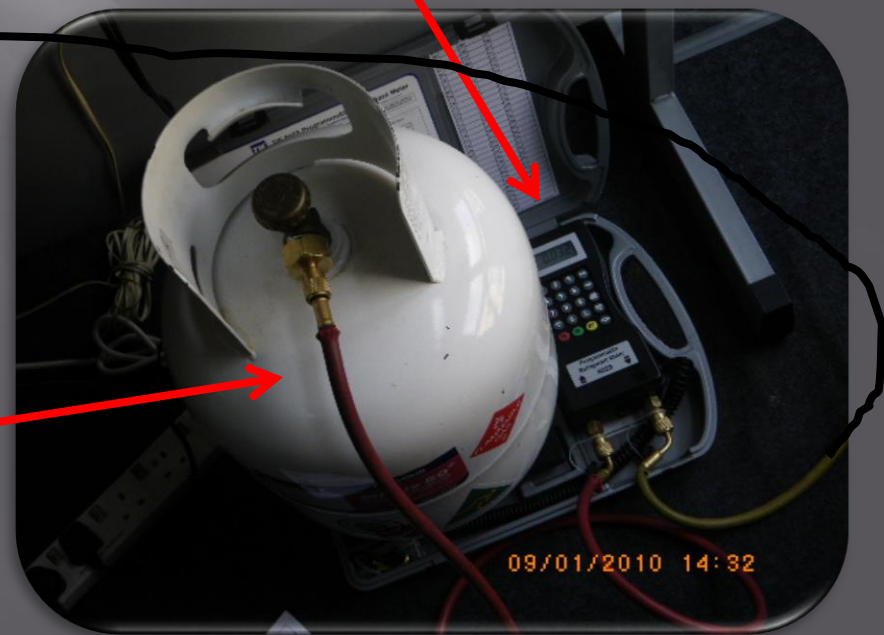


No smoking

Hydrocarbon Amount:

1) 45% of R22 Refrigerant

HyChill Minus 50



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