

## HYCHILL REFRIGERANTS QUICK COMPARISON CHART

	<b>R12</b>	<b>R134a</b>	<b>HR12</b>
Class	CFC (ChloroFluoroCarbon)	HFC (HydroFluoroCarbon)	HC (HydroCarbon)
Chemical Name	Dichlorodifluoromethane CCl <sub>2</sub> F <sub>2</sub>	1,1,1,2,- Tetrafluoroethane CH <sub>2</sub> FCF <sub>3</sub>	Isobutane & Propane CH(CH <sub>3</sub> ) <sub>2</sub> -CH <sub>3</sub> i-(C <sub>4</sub> H <sub>10</sub> ) & CH <sub>2</sub> CH <sub>3</sub> CH <sub>2</sub>
Formula	R-12 (100)	R-134a (100)	R-600a R-290
Boiling Point @ 20°C	-29.7°C	-26.6°C	-29.8°C
Toxicity	Medium	Medium	Low
Flammability (auto-ignition temperature)	~1100°C (non)	~800°C (non)	~460°C - ~470°C (yes)
Toxicity after ignition (by-products)	Very High	Extremely High	Extremely Low
Lubricant Flammability (auto-ignition temperature)	~200°C	~200°C	~200°C
Global Warming Potential (20 years / 100years)	8500 / 8500	3100 / 1300	~0 / 3
Ozone Depletion Potential	Yes	No	No
Atmosphere Lifetime (Years)	~130	~16	<1
Cooling Performance @ 40°C	Good	Poor	Excellent
Energy Efficiency	Medium	Low	High
Power Consumption	Medium	High	Low
Average System Charge by Weight	~900 grams	~840 grams	<300 grams
Average System Charge by Volume	~0.90 Lt	~0.86 Lt	~0.75 Lt
Exported	No	No	Yes
Imported	No	Yes	Yes
Import Replacement Potential	None	None	Very High
Export Potential	None	None	Very High