

Dewpoint®

Refrigerant Gas Premium Series



WHY CHOOSE R32?

Less Impact On Global Warming

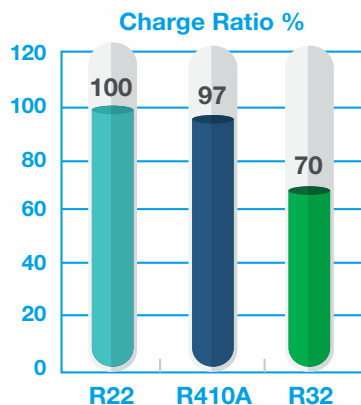
The earth retains solar heat in the daytime for warming and releases this heat at night, allowing it to maintain an optimal temperature range. However, with greenhouse gases increasing, it is more difficult to discharge heat as the planet gradually becomes warmer, and this causes global warming. R32 has only around 30% of the global warming potential of R410A and R22.

	Ozone Depletion Potential	Global Warming Potential
R32	0	675
R410A	0	2,090
R22	0.05	1,810

R32 has zero Ozone Depletion Potential (ODP), and lower Global Warming Potential (GWP) which contributes to the prevention of global warming.

Lesser Refrigerant Charge

Potential refrigerating effect of R32 is 1.5 times higher than R22 or R410A. More specifically, pressure losses are lower with R32 than R22 or R410A for the same capacity and the liquid density of R32 is also 10% lower. This means the piping diameter can be smaller. As a result, the charging volume is approximately 30% less than with R22 or R410A.



In case that all refrigerant have the performance equivalent to R22

Easy Maintenance And Serviceability

Unlike R410A and R407C, which are mixed refrigerants, R32 is a Single Refrigerant. This means that no composition change occurs, and likewise R22, allows for easy liquid charge and gas charge.

	Composition (Mixture ratio wt%)
R32	Single Component
R410A	R32/R125 (50/50 WT%)
R22	Single Component

Common And Non-Common Tooling Used

Table shows the common and non-common tooling used for R32 as compared to R410A and R22.

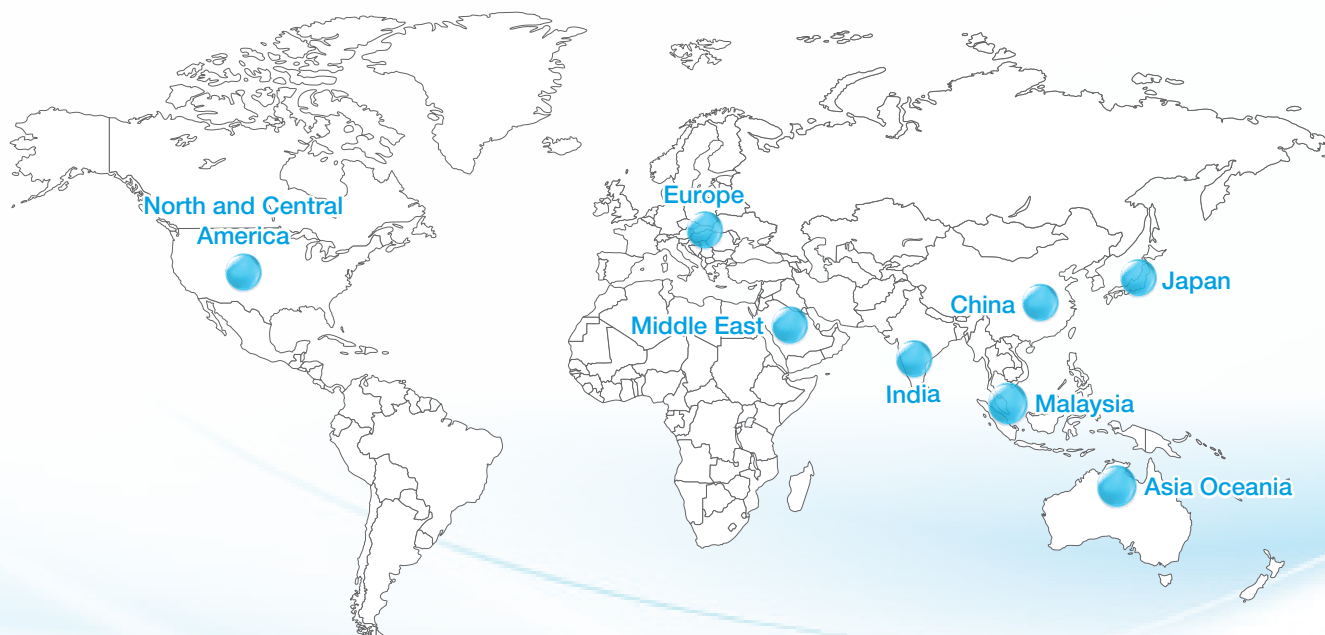
Tool	R32	R410A	R22
Gauge manifold	Shareable		
Charge hose	Shareable		
Weighing instrument	Shareable		
Pipe bender	Shareable		
Pipe cutter	Shareable		
Flaring tool	Shareable *1		
Torque wrench	Shareable *2		
Cylinder cap	Shareable		
Vacuum pump	Shareable *3		
Refrigerant recovery system	Shareable *4		
Refrigerant recovery cylinder	Shareable *5		
Electric gas leak detection	Shareable *6		

* Table 1.0

- *1: R22 type can be used for R32 & R410A by changing the work process.
- *2: Dimension of width across flats of flare nut is different between R32 & R410A and R22 (4/8" and 5/8" only. Other nuts can be shared.)
- *3: When using an R22 type for R32 & R410A, use with a reverse flow preventive adapter.
- *4: CFC recovery systems can be shared if they have been certified by the manufacturers to be supporting the relevant CFCs.
- *5: R22 recovery cylinder's pressure capacity: FC1 to FC3 can be used. R32 & R410A recovery cylinder's pressure capacity: Only FC3 can be used and shared, but not to be used to recover (charged with) a mixture of R32 & R410A.
- *6: Even if a detector supports R22, if the detector does not support HFC (R32, R410A), it cannot be shared.

More Than 10 Million R32 Units Sold

Daikin was the first to introduce air-conditioning and heat pump technology that utilised the refrigerant R32, beginning from Japan in November 2012. As of March 2017, we have sold more than 10 million units over more than 50 countries including Malaysia.



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Refrigerant R32 Premium Series



Specifications

Model	DR32N	DEWPOINT (PREMIUM) GAS R32
Physical Properties:		
Component		HFC-32
Composition	mass%	100
Boiling Point	°C	-51.7
Critical Temperature	°C	78.25
Critical Pressure	MPa	5.81
Flammability		Mildly Flammable, Category A2L
Ozone Depletion Potential		0
Global Warming Potential		675
Packing:		
Packing Type		Disposable cylinder
Refrigerant Net Weight	kg/cylinder	9.5
Quality: AHRI Standard		
Purity	%	≥ 99.9
Moisture Level	ppm	< 10
Applications:		<ul style="list-style-type: none">• Residential and Commercial Air conditioning System• Commercial and Industrial Refrigeration• Chillers

Note: Due to our policy of innovation, all product specifications are subject to change without prior notice.

Specifications

Model	DR410N	DEWPOINT (PREMIUM) GAS R410A
Physical Properties:		
Component		HFC-32/125
Composition	mass%	50/50
Boiling Point	°C	-51.6
Critical Temperature	°C	72.13
Critical Pressure	MPa	4.926
Flammability		Non-flammable
Ozone Depletion Potential		0
Global Warming Potential		2090
Packing:		
Packing Type		Disposable cylinder
Refrigerant Net Weight	kg/cylinder	10
Quality: AHRI Standard		
Purity	%	≥ 99.9
Moisture Level	ppm	< 10
Applications:		<ul style="list-style-type: none">• Residential and Commercial Air conditioning System• Commercial and Industrial Refrigeration• Chillers

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Refrigerant R410A Premium Series



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Refrigerant R22 Premium Series



Specifications

Model	DR022	DEWPOINT (PREMIUM) GAS R22
Physical Properties:		
Component		HCFC-22
Composition	mass%	100
Boiling Point	°C	-40.8
Critical Temperature	°C	96.20
Critical Pressure	MPa	4.99
Flammability		Non-flammable
Ozone Depletion Potential		0.055
Global Warming Potential		1810
Packing:		
Packing Type		Disposable cylinder
Refrigerant Net Weight	kg/cylinder	13.6
Quality: AHRI Standard		
Purity	%	≥99.9
Moisture Level	ppm	< 10
Applications:		<ul style="list-style-type: none">• Residential and Commercial Air conditioning System• Commercial and Industrial Refrigeration• Chillers

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Dewpoint[®] and  **DAIKIN** are marketed by: **DAIKIN MALAYSIA SALES & SERVICE SDN. BHD.**

Authorized dealer:

Catalogue No: DR-1221-C