



Cutting-edge
technology, inspired
by local needs



GTQ Series

R-32

DRIVING OUR
GREEN VISION



Your local needs,
our leading design inspiration



Leading Technologies

Daikin is renowned for its pioneering approach to product development and the unrivaled quality and versatility of its integrated solutions. From the efficiency of our compressors and inverter technology, to our latest advances in refrigerants and product design for seasonal efficiency, Daikin is at the very forefront of energy efficiency and innovation.

The Daikin Difference

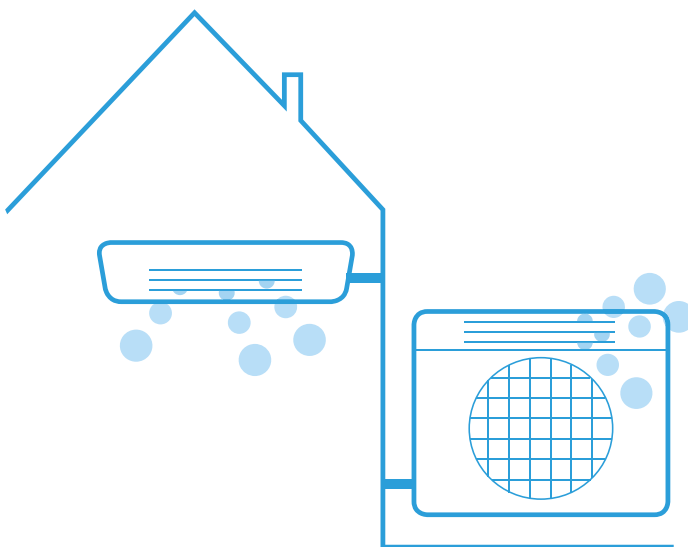
Daikin is manufacturing both air conditioning systems and refrigerants. By creating some of the most technologically advanced systems ever introduced, Daikin is redefining the experience of comfort. This passion for precision results in the Daikin system supplied to our customers that delivers the maximum performance and the ultimate in comfort.

Since the invention of Variable Refrigerant Volume (VRV) in 1982, Daikin has constantly demonstrated its technological leadership with outstanding production capabilities, top-of-the-line product features, and superior product support.

The Daikin Innovation at your Service

Daikin is committed to delivering air-conditioning solutions that enhance the quality of life all around the world through the application of advanced technology. A comprehensive range of air-conditioners featuring the inverter technology, that provides comfort throughout the year, is a testament to that. Our technology is not only shaped by the vision of an unheralded future, but our designs are also carved to optimize form and function. In all this, the ability to think and act for the environment continuously sets us apart.

By launching the first inverter split using the low GWP* and Zero ODP** refrigerant R-32 specially developed for African market conditions and combining all the most advanced technologies, Daikin offers an ultimate cooling comfort experience while saving energy and reducing considerably the carbon footprint. This new unit, which has been designed for optimum nominal and seasonal energy efficiency, in line with Africa's real-life operation conditions, shows Daikin's serious commitment to the environment.



*GWP: Global Warming Potential
**ODP: Ozone Depletion Potential



Why R-32?

The international community agreed under the Montreal Protocol to phase out ozone depleting substances to nearly zero by 2030. As a consequence, the A/C market started to move away from ozone depleting HCFCs refrigerants, such as R-22, towards HFCs.

Although a limited amount (2.5%) of ozone depleting refrigerants will remain available between 2030 and 2040 for servicing existing A/C and refrigeration equipment, it will not be sufficient to serve the existing market, unless conversion to alternative refrigerants in new equipment is implemented soon. The Montreal Protocol also includes drastic reduction steps between 2015 and 2030 for all HCFCs. For these reasons, some Middle East and Africa countries already started to implement bans on new R-22 equipment, and it is expected that other countries will follow soon.

Taking into account the lifetime of equipment, Daikin believes that it is crucial to start using non-ozone depleting refrigerant on new A/C as soon as possible.

As a market leader, Daikin aims to develop systems that improved indoor comfort levels while having low environmental impact, with energy efficiency and refrigerant choice as key factors. With this vision in mind, Daikin launched the first worldwide air conditioners with R-32 refrigerant in Japan end of 2012 where several millions of units have been installed since.

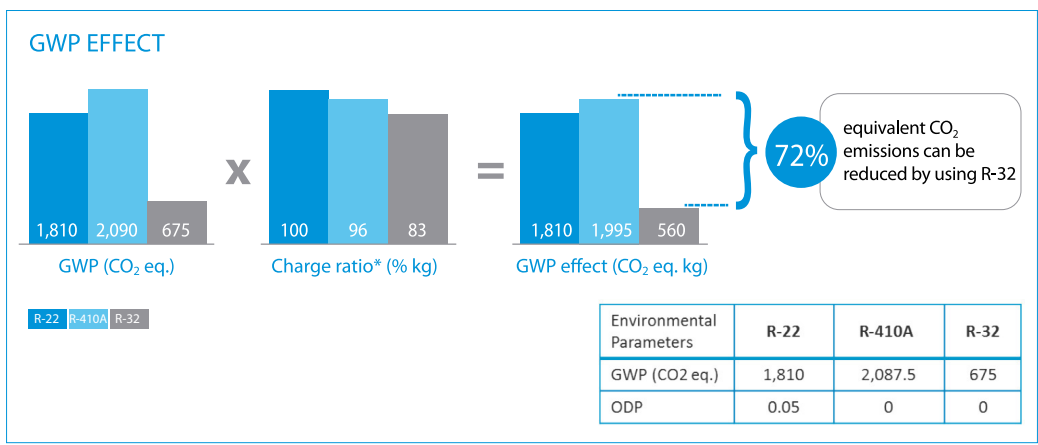
Meanwhile, R-32 models have also been introduced in other regions such as Europe, Australia, New Zealand, India, Thailand, Vitenam, Philippines, Malaysia, Indonesia, and the Middle East.

Daikin has decided to launch a dedicated sustainable solution for Africa, running with R-32, contributing to the efforts of the African region to achieve the targets ambitioned by the Montreal Protocol.

- 2030**
Ban of ozone depleting substances use on new A/C equipment in Middle East and Africa. A limited amount will be allowed until 20140 for servicing existing A/C and refrigeration equipment.
- 2025**
HCFC consumption must be reduced with %67.5 vs -2009 2010 levels in all Middle East and Africa countries.
- 2020**
HCFC consumption must be reduced with %35 vs 2010-2009 average level in all Middle East and Africa countries.
- 2015**
Ban of the sales of R22- A/C equipment in South Africa and Saudi Arabia
- 2004**
Ban of the sales of R22- A/C equipment in Europe

Key Characteristics:
R-32 is a next generation refrigerant that addresses a range of environmental considerations in a balanced manner.

- » R-32 does not deplete the ozone layer, unlike R-22. It's ODP* is zero.
- » R-32 has a low GWP** of 675 CO₂ eq., which is about one-third of GWP of R410-A.
- » Cooling performance (capacity and efficiency) of R-32 is higher than R-410A or can be kept the same level but with a more compact design.
- » Unlike R-410A, R-32 is a single refrigerant component, which makes it easy to reuse and recycle.



* Based on IPCC 4th report ** Based on charge ratio on 18 class for FTD, FTS and FTKM 50 Hz series. * ODP: Ozone Depleting Potential ** GWP: Global Warming Potential

Main Benefits



Econo Mode

This function limits both maximum running current and maximum power consumption. It is useful for preventing circuit breakers from being overloaded during temporary peaks in the running current. This function can be easily set from the remote controller.



Self-Diagnosis Function

The machine auto-detects the errors and shows the related code on the remote controller screen. If an error occurs, you can easily self-diagnose it and report it to your Daikin authorized service provider for a quick resolution.



Coanda Airflow Operation

Coanda airflow operation that will give you the best A/C experience. The powerful air draft does not fall on your head directly, but it is steered upward letting air circulate into the corners of the room, creating a comfortable ambience.



Sleep Mode

Setting mode will gradually adjust the set temperature to provide a comfortable environment for sleeping.



Power Chill Mode

Power chill mode will cool down the space even quicker.

Product Images



GTQ Series

Technical Specifications

INDOOR			GTQ28TV16X2Z	GTQ35TV16X2Z	GTQ50TV16U2Z	GTQ60TV16U2Z	
OUTDOOR			RQG28TV16X2Z	RQG35TV16X2Z	RQG50TV16U2Z	RQG60TV16U2Z	
SET	Cooling Capacity*	Rated	kW	2.80	3.35	5.2	6.40
			Btu/hr	9,555	11,450	17,742	21,837
	Power Consumption	Rated	kW	767	971	1,600	1,855
	Efficiency	EER	W/W	3.65	3.45	3.25	3.45
			Btu/W	12.44	11.76	11.08	11.76
Electrical Data	Running Current	A	3.40	4.30	7.30	8.50	
	Breaker Size	A	15			20	
INDOOR	Airflow Rate	High	cfm	342	374	533	586
	Sound Pressure	H/M/L	dB(A)	39/35/29	40/35/30	47/41/35	47/41/35
	Dimensions	HxWxD	mm	283 X 800 X198		298 X 885 X 229	
	Weight		kg	9		12	
OUTDOOR	Sound Pressure	H	dB(A)	51		54	56
	Dimensions	HxWxD	mm	550 X 765 X 285		595 X 845 X 300	
	Weight		kg	29		38	44
	Piping Connections	Liquid (Flare)	mm	6.35			
			in	1/4			
		Gas (Flare)	mm	9.52		12.7	
			in	3/8		1/2	
	Compressor	Type	Rotary Non inverter				
	Refrigerant	Type	R-32				
	Piping Lengths	Total	m	20			
Elevation		m	15		10		
Chargeless		m	10				
Operating Range	Cooling	CDB	19.4 ~ 50				
Power Supply		V/ph/Hz	230V/1ph/50Hz				
Voltage Range		V	160-265				
Power Supply Source			Outdoor				
Loading Quantity in Container	20 Ft	Sets	95		64		
	40 HC		220		150		

*Temperature Conditions:

• T1 Indoor: 27°CDB/19°CWB • T1 Outdoor: 35°CDB



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