



Cutting-edge  
technology, inspired  
by local needs



## GTHT Series



**R-32**

DRIVING OUR  
GREEN VISION



Preliminary

# Why Inverter?

## DAIKIN. Everything you ever wanted in air conditioning

Daikin operates under the belief that customers are buying quality. With this in mind, Daikin strives to stay ahead of consumer needs by providing high-quality products with superior performance, energy efficiency and comfort, and by designing stylish solutions that conform to all interior spaces and lifestyles.

At the forefront of energy efficiency, Daikin has designed a new, cost-effective R-32 inverter split heat pump wall-mounted unit which, using the low GWP\* and Zero ODP\*\* refrigerant R-32, allows owners to reduce their energy bill all year round. This new series combines the most advanced technologies specially developed to withstand the harsh conditions of the African and Near East markets, such as unstable power supply, corrosive environment, and severe transportation and handling conditions.

Inverter technology helps to reduce energy bill substantially while maintaining the highest level of comfort. Start-up time is reduced and temperature is maintained stable at all times unlike non inverter air conditioners.

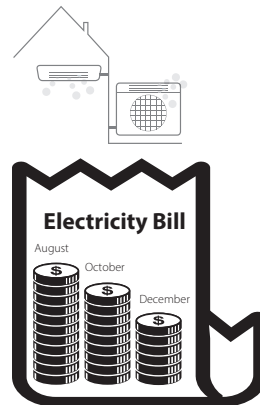
Using efficient systems will result in lower electricity bills, but also in lesser load to be applied on the generator as power input is being minimized.

## Think Smart; Think Green; Think Daikin Inverter

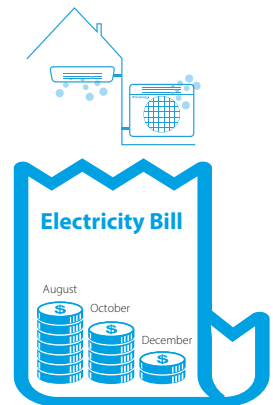
### Benefits of INVERTER at a glance

- » Energy saving all the year round, for a lower electricity bill and lower carbon footprint
- » Lower starting current and less load to be applied on the generator
- » Powerful cooling
- » Quieter operation
- » Longer lifetime

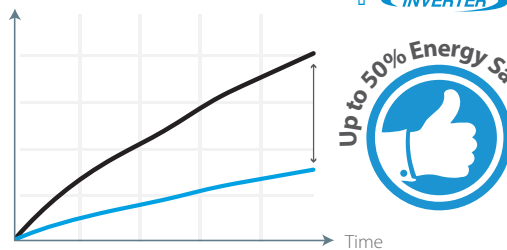
With Non Inverter



With **INVERTER**

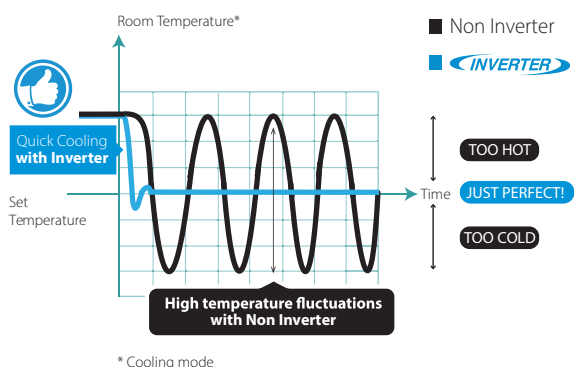


Accumulated energy consumption



With Daikin Inverter, produce what you need when you need and save on your electricity bill!

With Daikin Inverter, comfortable temperature, all year round



\* Cooling mode

Daikin's GTHT Series runs quieter, cools faster and saves more than conventional air conditioners. It is designed to deliver a comfortable living environment for longer periods of time. This new series incorporates a lot of exceptional features for an unrivaled, efficient and reliable comfort.

## Powerful and Efficient Cooling



### R-32 Refrigerant

Unlike R-22, R-32 has no ozone depletion potential for a reduced impact on the environment. This next generation refrigerant has a heat transfer 1.5 times higher than R-410A and a GWP\* 675 CO<sub>2</sub> eq., which is about one third of R-410A. It can contribute to reduce eq. CO<sub>2</sub> emissions up to 72% against R-410A.



### Inverter Technology

Daikin units are conceived to offer powerful cooling to quickly cool down the room. The system has been designed for optimum nominal efficiency, with EER reaching up to 3.15 W/W, and seasonal energy efficiency, in line with real life operating conditions in Africa and the Near East.

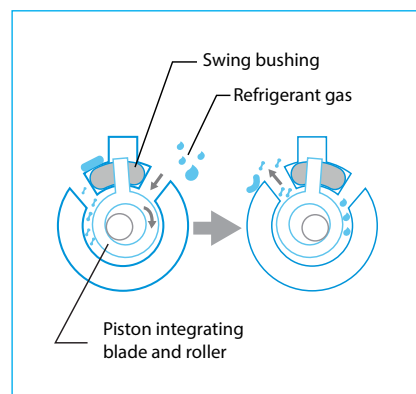


The excellent cooling performance is the outcome of the combination of the extremely efficient Daikin-patented inverter swing compressor with the optimal heat transfer from the heat exchanger using R-32 refrigerant.

Inverter technology helps to substantially reduce energy bill, while maintaining the highest level of comfort, with a reduced start-up time, and the ability of maintaining a stable temperature at all times. It makes the comfort delivered which makes the comfort delivered by the inverter unrivaled.

With Daikin inverter, you will experience **a new era of smart comfort.**

## Exclusive Daikin Inverter Swing Compressor



Most manufacturers use a standard rotary compressor, but Daikin, being at the very forefront of energy efficiency and innovation, has improved the technology by developing a swing inverter compressor. This change makes a huge difference in how quiet and efficient the system operates.

The unique Daikin swing compressor features an integrated part consisting of a rotor and blade. It prevents the leakage of the gas refrigerant from the high pressure to low pressure side and effectively improves the compression efficiency. It will ensure less noise, less wear and tear and above all, high energy efficiency.

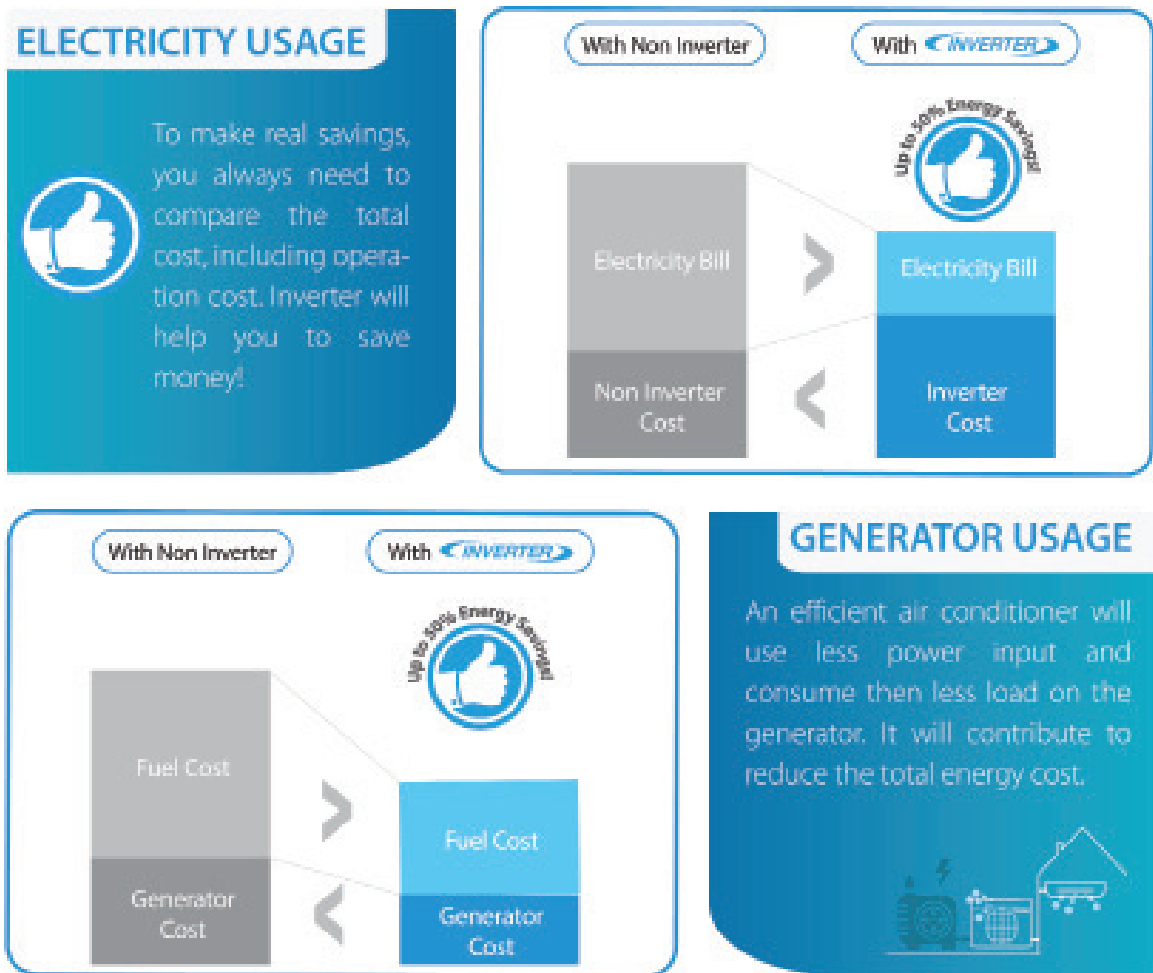
\* Global Warming Potential

# Main Features



## A real economical solution

The inverter technology will lower the energy consumption of the air conditioner down to 50%. Using efficient systems will not only result in lower electricity bills, but also in lesser load to be applied on the generator as power input is minimized. This means you pay less money for your energy bills!



## Built-in Protection for a Powerful and Reliable Cooling

The new Daikin unit has been specially designed to withstand the harsh conditions of the African and Near East markets, such as unstable power supply and corrosive environment.

The unit is equipped as standard with a built-in stabilizer. The Daikin inverter AC does not require any additional AVS (automatic voltage switch) to be installed, and is protected as standard against voltage fluctuation over current and power blackout. Daikin units are designed to have a longer lifetime with optimal performance compared to other non-protected equipment.

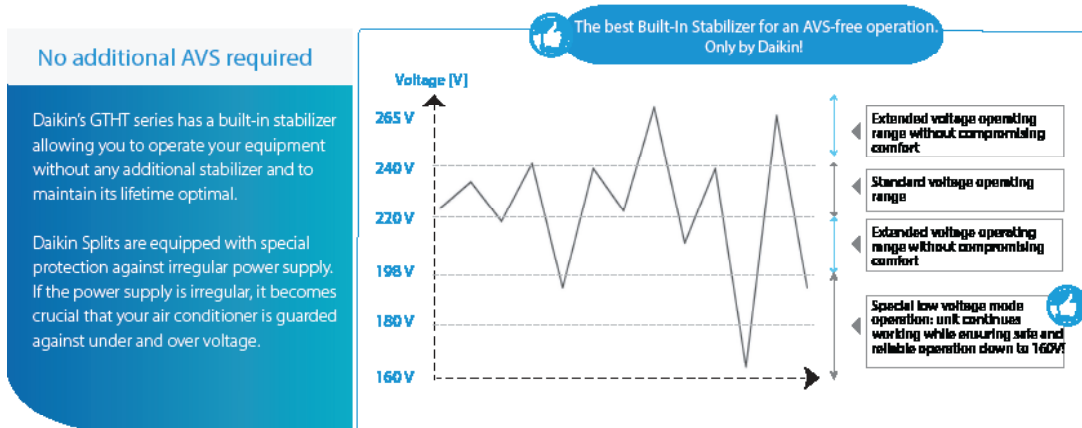


### Unrivalled Voltage Range of 160-265V

The Daikin GTHT series is equipped with a built-in stabilizer allowing the unit to operate within an increased operating voltage range of 160 to 265V. No additional AVS is required.

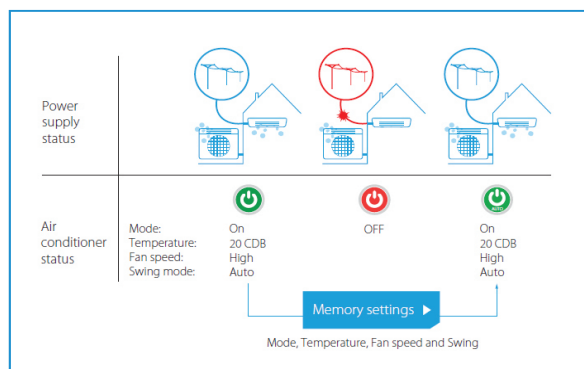
The DC bus voltage, compressor and PCB have been designed with the components all carefully selected for their voltage tolerance to allow the widest operation range during unstable power supply.

To protect the unit during low voltage operation, a special algorithm has been implemented on the compressor software to control its rotation and current.



### Auto Restart

In case of sudden power failure during operation, this feature ensures that air conditioners installed in the same building will resume operation automatically. The operation will be based on the previous settings.



# Main Features

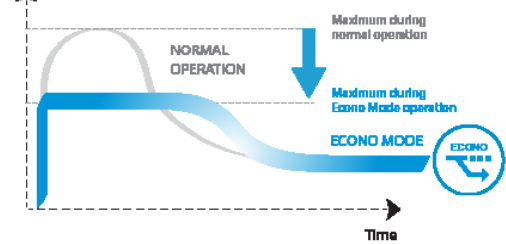


## Econo Mode

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.

The Econo Mode allows a control of the peak consumption and current for a more reliable and efficient use.

Running current and power of consumption



## Anti-Corrosion Protection

The condenser coil is protected against corrosion, thanks to the hydrophilic blue fin coating. This will ensure a longer life span, even under corrosive environment, with cooling performance maintained optimal.



## 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.



## Robustness designed for Africa and Near East

The design of the unit and packing of the new Daikin GTHT series have been reinforced to withstand the severe road, storage and handling conditions of Africa and Near East. Daikin invested in product structure improvements to deliver an unrivaled quality to the end-customer.

Special transportation and drop tests, reflecting these regions' market conditions, are conducted at the factory to ensure that the best product quality is delivered to our customers.

## Other Features

Daikin's GTHT series offers you a new era of smart and reliable comfort. It incorporates a lot of nice features that will enhance your end-user experience!

### Optimal Cooling Comfort

The cooling comfort experience can be maximized by using one of the functionalities like:

- » **Coanda airflow operation** gives you the best air-conditioning 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.
- » **Power Chill Mode** that will cool down the space even quicker.
- » **Sleep Mode** that will ensure a comfortable environment for a restful sleep, by avoiding overcooling at night.
- » **Dry Mode** that will reduce the humidity level of the room to guarantee an optimal comfort.

### Whisper Quiet Operation

The Daikin indoor unit is whisper quiet. The sound level can be further reduced, down to 26 dB(A), by activating the Quiet Mode.

### Pure Air

The washable antimicrobial filter eliminates various airborne dusts, for a cleaner and purified living environment. The Smell Proof Operation function is designed to eliminate odor caused by mold and germs after a certain period of operation.

Indoor Model Name			GTHT35TV16XZ	GTHT50TV16UZ	GTHT60TV16UZ	
Outdoor Model Name			RHTG35TV16XZ	RHTG50TV16UZ	RHTG60TV16UZ	
Set	Power supply	V/ph/Hz	220-240V/1ph/50Hz			
	Voltage range	V	160-265			
	Power supply source		Outdoor			
	Nominal Capacity	Cooling	Btu/h	11,900	17,100	20,500
			kW	3.5	5.0	6.0
		Heating	Btu/h	11,900	17,100	18,800
			kW	3.5	5	5.5
	Power Consumption	Cooling	kW	1.110	1.850	1.970
Heating		kW	1.110	1.850	1.700	
Efficiency	EER	W/W	3.15	2.70	3.05	
	COP	W/W	3.15	2.70	3.24	
Indoor Unit	Airflow rate	Cooling	cfm	339	572	576
		Heating	cfm	339	572	576
	Sound pressure (Cooling)	H/M/L/SL	dB[A]	40/36/32/29/26	45/42/40/38/35	47/45/43/40/38
	Dimensions	HxWxD	mm	283 x 800 x 198	298 x 885 x 229	298 x 885 x 229
Net Weight		kg	8	11	11	
Outdoor Unit	Sound pressure	H	dB[A]	51	54	56
	Dimensions	HxWxD	mm	550 x 765 x 285	595 x 845 x 300	595 x 845 x 300
	Net Weight		kg	27	35	36
	Compressor Type			Hermetically Sealed Swing Inverter Type		
	Refrigerant			R-32		
	Piping connections	Liquid	mm	9.4	12.7	12.7
		Gas	mm	6.4	6.4	6.4
	Piping lengths	Total	m	20	30	30
		Elevation	m	15	20	20
		Chargeless	m	10	10	10
Operating range	Cooling	CDB	19.4~50			
	Heating	CDB	4~24			

Temperature conditions:

\* Indoor: 27CDB/19CWB

\* Outdoor: 35CDB/24CWB



### R-32

Zero ODP for a reduced impact to the environment.



### Robustness designed for Africa and Near East

Reinforced casing and packaging to withstand severe road, storage and handling conditions.



### Inverter Technology

Inverter AC continuously adjusts the compressor speed, thus power input, to constantly meet the temperature requirements so energy is no longer wasted and considerable amount of money can be saved.



### Anti Corrosion

The hydrophilic blue fin coating will protect the condenser coil against corrosion, for a longer life span, even under corrosive environment, with cooling performance maintained optimal.



### Energy Saving

Daikin offers efficient operation on its equipment for lower electricity consumption. This also contributes to reduced CO<sub>2</sub> emissions.



### Powerful Cooling

Rapid cooling and powerful, even if outside temperature is very high



### Built-in AVS

Daikin offers the widest voltage range, 160 to 265V, for an AVS free operation.



### Long Airflow

The airflow can reach long distances, for optimal cooling comfort even for large spaces.



### Econo Mode

Limits both maximum running current and maximum power consumption.



### Sleep Mode

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



### Auto-Restart

In case of sudden power failure, the unit will restart randomly with previous settings. This will help preventing power surge after blackout.



### Silence

Daikin indoor units are whisper quiet. Outdoor units are also guaranteed not to disturb the quietness of the neighbourhood.





[www.daikinmea.com](http://www.daikinmea.com)

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