



Superior technology
within reach



FTKF Series

R-32

DRIVING OUR
GREEN VISION

INVERTER

Preliminary

Independently Tested by
Intertek





Main Features

Daikin's FTKF series runs quieter, cools faster and saves more than conventional air conditioner. 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

R32- 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 CO₂ eq., which is about one third of R-410A. It can contribute to reduce eq. CO₂ 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 12.25 Btu/W, and seasonal energy efficiency, in line with real life operating conditions in the Middle East. Using efficient systems will simply result in lower electricity bills.

INVERTER

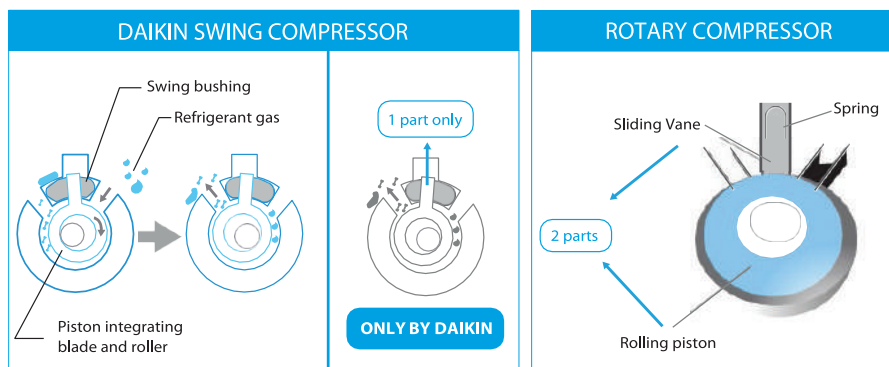
The excellent cooling performance is the outcome of the combination of the extremely efficient Daikin-patented inverter swing compressor with the optimal heat transfer from the heat exchanger using R-32 refrigerant.

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, making the comfort with 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 improved the technology with its exclusive swing inverter compressor. This change makes a huge difference in how quiet and efficient the system operates. The unique Daikin swing compressor prevents the leakage of 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.



Main benefits at a glance

- Less refrigerant leakage
- Less noise
- Less wear and tear for longer lifetime
- Higher efficiency

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 inverter split wall mounted unit, using the low GWP* and Zero ODP** refrigerant R-32, which allows owners to reduce their energy bill all year round. This new series combines the most advanced technologies.

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.

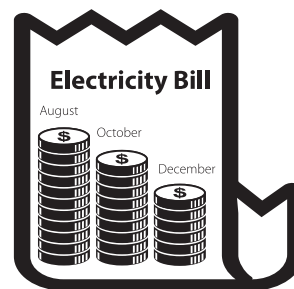
Think Smart; Think Green; Think Daikin Inverter

Benefits of INVERTER at a glance

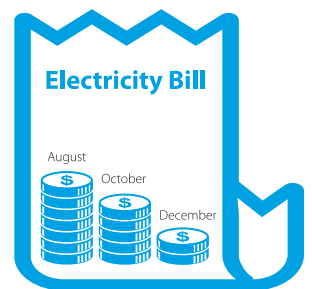
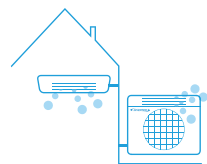
- Energy saving all the year round, for a lower electricity bill and
- lower carbon footprint
- Lower starting current
- Powerful cooling
- Quieter operation
- Longer lifetime

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

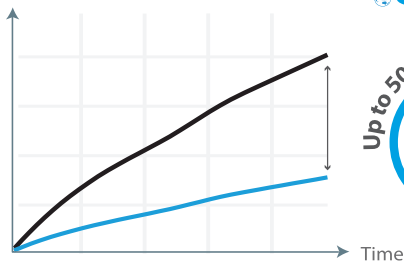
With Non Inverter



With **INVERTER**



Accumulated energy consumption



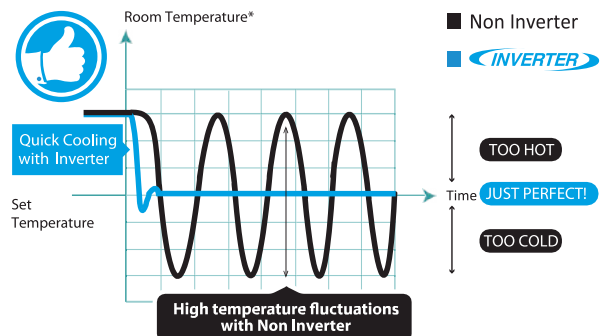
Non Inverter

INVERTER



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

Main Features

Powerful and Reliable Cooling

Daikin units are designed to have a longer lifetime with optimal performance compared to other non-protected equipment. The new Daikin unit has been specially designed to withstand the harsh conditions of the Middle East climate, such as sandy and corrosive environment.



Reinforced Anti-Corrosion protection

All the sensitive parts exposed to the environment are protected against corrosion:

- The condenser coil has a hydrophilic blue fin coating.
- The sensors of the electronic board (PCB) for both outdoor and indoor have a special anti-corrosion coating.
- The outdoor bottom frame and stop valve mounting plate are powder coated

This will ensure a longer life span, even under corrosive environment, with cooling performance maintained optimal.



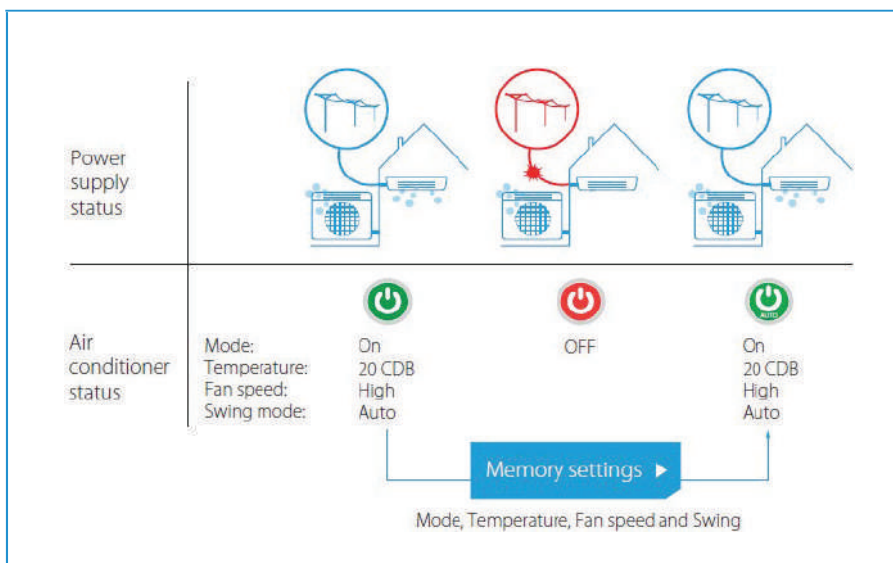
Built-in stabilizer: 160 - 265V

The Daikin FTKF series is equipped with a built-in stabilizer allowing the unit to operate within an increased operating voltage range, 160 to 265V. It makes it suitable to operate on generator and a perfect solution for temporary offices applications!



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



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. So, you pay less money for your energy bills!

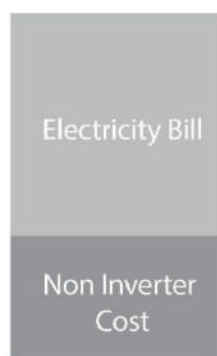
ELECTRICITY USAGE



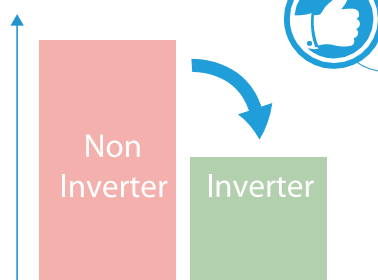
To make real savings, you always need to compare the total cost, including operation cost. Inverter will help you to save money!

With Non Inverter

With **INVERTER**



Starting Current



Inverter can reduce starting current by half!

			Frequency	Voltage	Starting current	Running current
Non Inverter	FTN20AV1K	RN20AV1K	50 Hz	220-240V	11.7	7.16
	FTNV20JVAK	RNV20JVAK	60 Hz	220-240V	10.3	6.49
Inverter	FTKF18TVMUZK	RKFG18TVMUZK	60/50 Hz	220-240V	TBC	6.48

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.

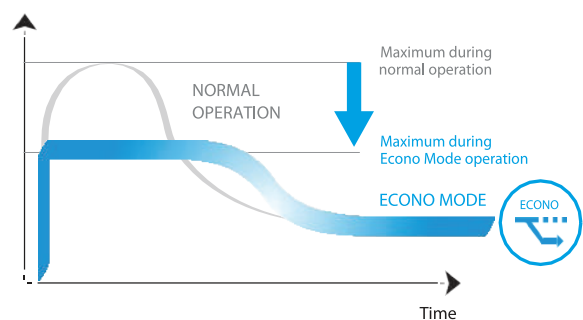


Self-Diagnosis Function

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.

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



Other Features

Daikin FTKF 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 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 35* 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. Optional filters are also available if there is a requirement for higher indoor air quality.

Technical Specifications

Cooling Only

INDOOR			FTKF12TVMVZK	****FTKF18TVMUZK	FTKF24TVMTZK	
OUTDOOR			RKFG12TVMVZK	****RKFG18TVMUZK	RKFG24TVMTZK	
SET	Cooling Capacity - T1 (*)	Rated	kW	3.93	5.28	6.90
			Btu/hr	13,400	18,000	23,600
		Min-Max	kW	1.75~5.4	2.5~6.7	2.43~7.8
			Btu/hr	6,000~18,400	8,550~22,920	8,290~26,614
	Cooling Capacity - T3 (**)	Rated	kW	3.93	4.45	5.88
			Btu/hr	13,400	15,200	20,100
	Cooling Capacity - T4 (***)	Rated	kW	3.54	4.24	5.65
			Btu/hr	12,100	14,450	19,300
	Power Consumption	T1 (*)	kW	0.902	1.470	1.966
		T3 (**)	kW	1.340	1.785	2.161
		T4 (***)	kW	1.308	1.514	2.180
	Efficiency	T1 (*)	W/W	4.35	3.59	3.52
			Btu/W	14.85	12.25	12.00
			T3 (**)	W/W	2.93	2.50
		T4 (***)	Btu/W	10.00	8.52	9.30
			W/W	2.71	2.49	2.59
			Btu/W	9.25	8.50	8.85
INDOOR	Airflow Rate	High	m3/min	16.20	16.30	20.40
			cfm	572	575	720
	Sound Pressure	H/M/L/SL	dB [A]	45/42/40/38/35	47/45/43/40/38	49/47/45/42/39
	Dimensions	HxWxD	mm	298 x 885 x 229	298 x 885 x 229	310 x 1100 x 239
	Weight		kg	11	11	13
OUTDOOR	Sound Pressure	H/M/L/SL	dB [A]	54	56	TBC
	Dimensions	HxWxD	mm	595 x 845 x 300	595 x 845 x 300	695x 930 x350
	Weight		kg	32	39	TBC
		Liquid (Flair)	mm	6.35	6.35	6.35
			in	1/4	1/4	1/4
			Gas (Flair)	mm	12.7	12.7
	in	1/2		1/2	1/2	
	Compressor	Compressor	Type	Hermetically Sealed Swing Inverter Type		
	Refrigerant	Refrigerant	Type	R-32		
	Piping Lengths	Meter	m	20	30	30
		Meter	m	10	20	20
		Meter	m	10	10	10
	Operating Range	Cooling	CDB	19.4~52		
Power Supply	Power Supply	V/ph/Hz	220-240v/ 1PH / 50-60Hz			
Voltage Range	Voltage Range	V	160-265			
Power Supply source	Power Supply source		Outdoor			

Notes: Temperatures Conditions

(*) Outdoor: 35CDB – Indoor: 27CDB / 19CWB

(**) Outdoor: 46CDB – Indoor: 29CDB / 19CWB

(***) Outdoor: 48CDB – Indoor: 26.4 CDB / 19.4 CWB

****Final specs



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.



R-32

Zero ODP for a reduced impact to the environment.



Energy Saving

Daikin offers efficient operation on its equipment for lower electricity consumption. This also contributes to reduced CO₂ emissions.



Built-in AVS

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



Econo Mode

Limits both maximum running current and maximum power consumption.



Auto-Restart

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



Reinforced Anti-Corrosion

All the sensitive parts such as condenser coil, PCB sensors, outdoor bottom frame or stop valve are protected against corrosion for a longer life span, even under corrosive environment, with cooling performance maintained optimal.



Long Airflow

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



Sleep Mode

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



Silence

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



Turbo

Rapid cooling/heating with highest fan speed for immediate comfort.



3-D Airflow

Vertical and horizontal auto-swing for a long and strong airflow to cool down quickly and consistently even large spaces.



www.daikinmea.com

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