



Air Conditioners

# Heating & Cooling

Wall Mounted Unit

- » **URURU humidifies without separate water supply**
- » **SARARA dehumidification without temperature difference**
- » **Powerful ventilation refreshes room in 2 hours**
- » **Daikin Flash Streamer technology: powerful air purification**



[www.daikin.eu](http://www.daikin.eu)



FTXR-E

**Ururu**  
**Sarara**

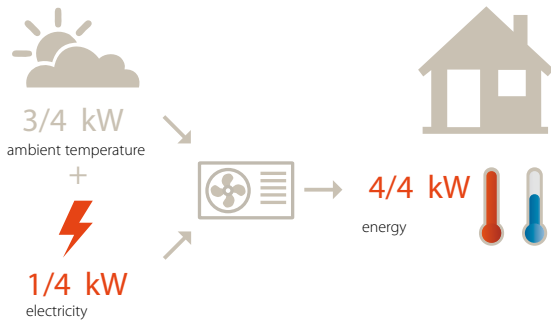


Daikin's Ururu Sarara split heat pump unit, with its unique system, can heat and cool, humidify and dehumidify, ventilate and purify the indoor air all at the same time.

Daikin's heat pumps are all-in-one heating and cooling solutions, meaning comfortably warm in winter and cool in summer. The indoor unit can be used for a pair application - one indoor unit connected to one outdoor unit.

The ideal solution for living comfort in all seasons. Perfect, just the way you like it.

## Combining highest efficiency and year-round comfort with a heat pump system



### Did you know that ...

Air-to-air heat pumps obtain 75% of their output energy from a renewable source: the ambient air, which is both renewable and inexhaustible. Of course, heat pumps also require electricity to run the system, but increasingly this electricity can also be generated from renewable energy sources (solar energy, wind energy, hydropower, biomass). A heat pump's efficiency is measured in SCOP (Seasonal Coefficient Of Performance) for heating and SEER (Seasonal Energy Efficiency Ratio) for cooling.

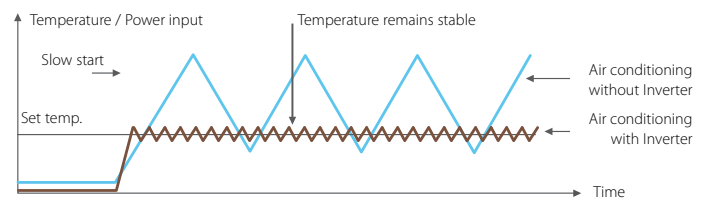
## Inverter technology

Daikin's inverter technology is a true innovation in the field of climate control. The principle is simple: inverters adjust the power used to suit the actual requirement - no more, no less! This technology provides you with two concrete benefits:

► **Comfort:** The inverter repays its investment many times over by improving comfort. An air conditioning system with an inverter continuously adjusts its cooling and heating output to suit the temperature in the room thus improving comfort levels. The inverter reduces system start-up time enabling the required room temperature to be reached more quickly. As soon as the correct temperature is reached, the inverter ensures that it is constantly maintained.

► **Energy efficient:** Because an inverter monitors and adjusts ambient temperature whenever needed, energy consumption drops by 30% compared to a traditional on/off system! (non-inverter).

### Heating operation:

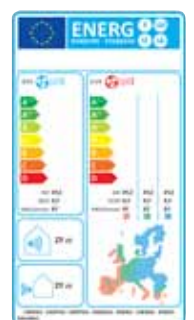


## Seasonal efficiency: raising the bar on energy efficiency

To realise its challenging 20-20-20 environmental goals, Europe is imposing minimum efficiency requirements for energy related projects. These minimum requirements come into effect on 1 January 2013, and will be revised upward in subsequent years.

Not only does the Eco-Design Directive systematically raise the minimum requirements with respect to environmental performance, the method used to measure this performance has also been changed to better reflect real-life conditions. The new seasonal performance rating provides a much more accurate picture of actual expected energy efficiency over an entire heating or cooling season.

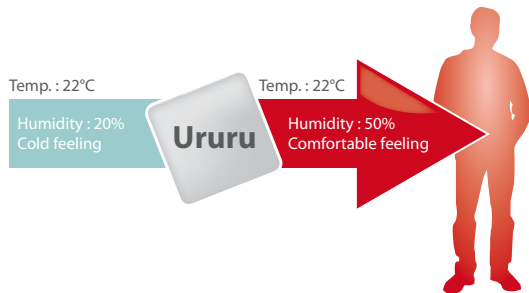
Completing the picture is a new energy label for EU. The present label, introduced in 1992 and modified in the meantime, allows consumers to compare and make purchasing decisions based on uniform labelling criteria. The new label includes multiple classifications from A+++ to G reflected in colour shadings ranging from dark green (most energy efficient) to red (least efficient). Information on the new label includes not only the new seasonal efficiency ratings for heating (SCOP) and cooling (SEER), but also annual energy consumption and sound levels. It will allow end-users to make even better informed choices, since seasonal efficiency reflects air conditioner or heat pump efficiency over an entire season.



# 5 air treatment techniques in 1 system

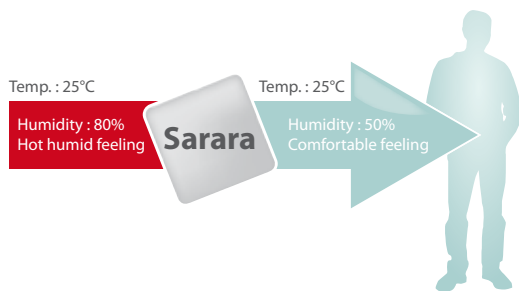
## 1. Humidification, even during heating

For humidification, called 'Ururu' in Japanese, no water reservoir is needed. Moisture is absorbed from the outdoor unit and streams into the indoor unit where it is evenly distributed throughout the room. The advantages of humidity are preventing sore throats, dry skin and making the human body feel warmer, even at lower temperatures, thus reducing heating demand and energy consumption.



## 2. Dehumidification, without a drop in temperature

Dehumidification, or 'Sarara' in Japanese, reduces indoor humidity, without affecting the room temperature, by mixing cool, dry air with warm air. So no hot and stuffy rooms any more!



## 3. Improved indoor air quality thanks to Daikin's flash streamer technology



Exhaust gases and unpleasant odours are removed via the outdoor unit. Afterwards the indoor unit purifies the air from dust, pollen, cigarette smoke and cooking odours. It also breaks down viruses and moulds.

## 4. Ventilation, fresh air even with closed windows

Fresh, conditioned air is brought into the room, without cold or heat loss. The temperature of the incoming air is brought at the desired level.

## 5. Heating & cooling

The Ururu Sarara not only offers the possibility of cooling in summer, it can also provide warmth in cold winters.

# Design & technological quality

The Ururu Sarara received the distinguished 'Good Design Award', the unique evaluation criterion for industrial design in Japan.



## For your personal comfort

Following features have been incorporated



1. **Night set mode:** saves energy, by preventing overcooling or -heating during night time



2. **Comfort mode:** prevents cold or warm air blowing directly on the body



3. **3D air distribution:** combination of vertical and horizontal auto-swing to circulate the air evenly in large rooms or corners



4. **Whisper quiet operation:** the sound of the indoor units is that low that it can be compared to rustling leaves (down to 23 dBA for FTXR28E)



5. **Online controller:** to monitor or control your heat pump system from anywhere via app or internet.

# Heating & Cooling

INDOOR UNIT				FTXR28E	FTXR42E	FTXR50E	
Cooling capacity	Min./Nom./Max.	kW		1.55/2.8/3.6	1.55/4.2/4.60	1.55/5.0/5.50	
Heating capacity	Min./Nom./Max.	kW		1.30/3.6/5.00	1.30/5.1/5.6	1.30/6.0/6.20	
Seasonal efficiency (according to EN14825)	Cooling	Energy label		B			
		Pdesign	kW	2.80	4.20	5.00	
		SEER		4.91	5.46	5.22	
		Annual energy consumption	kWh	200	269	335	
	Heating (Average climate)	Energy label		A+			
		Pdesign	kW	4.00	4.90	5.60	
		SCOP		5.08	4.50	4.27	
		Annual energy consumption	kWh	1,101	1,523	1,834	
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER			5.00	4.00	3.42	
	COP			5.14	4.32	3.97	
	Annual energy consumption	kWh		280	525	730	
	Energy label	Cooling/Heating		A/A			
Casing	Colour		White				
Dimensions	Unit	HeightxWidthxDepth	mm				
			305x890x209				
Weight	Unit			kg			
				14			
Fan - Air flow rate	Cooling	High/Nom./Low/Silent operation	m <sup>3</sup> /min		11.1/8.8/6.5/5.7	12.4/9.6/6.8/6.0	13.3/10.3/7.3/6.5
	Heating	High/Nom./Low/Silent operation	m <sup>3</sup> /min		12.4/9.8/7.3/6.5	12.9/10.2/7.7/6.8	14.0/11.1/8.3/7.3
Sound power level	Cooling	Nom.	dBA		55	58	60
	Heating	Nom.	dBA		57	58	60
Sound pressure level	Cooling	High/Nom./Low/Silent operation	dBA		39/33/26/23	42/35/27/24	44/37/29/26
	Heating	High/Nom./Low/Silent operation	dBA		41/35/28/25	42/36/29/26	44/38/31/28
Piping connections	Liquid	OD	mm		6.35		
	Gas	OD	mm		9.52		
	Drain	OD	mm		18		
Power supply	Phase / Frequency / Voltage		Hz / V		1~ / 50 / 220-240		

OUTDOOR UNIT				RXR28E	RXR42E	RXR50E	
Dimensions	Unit	HeightxWidthxDepth	mm				
			693x795x285				
Weight	Unit			kg			
				48			
Fan - Air flow rate	Cooling	Nom.	m <sup>3</sup> /min		33.8	36.2	36.2
	Heating	Nom.	m <sup>3</sup> /min		31.4	31.9	34.3
Sound power level	Cooling	Nom.	dBA		59	61	62
Sound pressure level	Cooling	Nom.	dBA		46	48	48
	Heating	Nom.	dBA		46	48	50
Operation range	Cooling	Ambient	Min.~Max.	°CDB		-10~43	-10~43
	Heating	Ambient	Min.~Max.	°CWB		-20~18	-20~18
Refrigerant	Type/GWP		R-410A/1,975				
Piping connections	Piping length	OU - IU	Max.	m			
				10			
	Level difference	IU - OU	Max.	m			
				8			
Power supply	Phase / Frequency / Voltage		Hz / V		1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240
Current - 50Hz	Maximum fuse amps (MFA)		A		16	16	16

(1) EER/COP according to Eurovent 2012



Indoor unit  
FTXR28,42,50E



Infrared remote control  
ARC447A1



Outdoor unit  
RXR28,42,50E



Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues. For several years Daikin has had the intention to become a leader in the provision of products that have limited impact on the environment. This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.



Daikin Europe N.V. participates in the Eurovent Certification programme for Air conditioners (AC), Liquid Chilling Packages (LCP) and Fan coil units (FCU). Check ongoing validity of certificate online: [www.eurovent-certification.com](http://www.eurovent-certification.com) or using: [www.certiflash.com](http://www.certiflash.com)

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