

U-Match R32 Cassettes



Find out more at www.greeac.com.au



Gree U-Match

The Gree U-Match Series DC Inverter Air Conditioners fall between residential and central air conditioners. Their capacity scope is wider than residential air conditioners ranging from 5.0 to 14.0kW.



Gree U-Match Air Conditioning Systems

The Gree U-Match Inverters are the next generation of climate control technology. Gree's energy efficient U-Match outdoor units are available in a full range of capacities to perfectly match a wide range of challenging climate control conditions.

Each U-Match is powered by Gree's own energy efficient G10 inverter module and variable speed compressor. Our G10 inverter technology saves energy, reduces outdoor noise and keeps room temperatures steady. Harsh startups have been eliminated with Gree's Closed Loop start up technology. This improves compressor start up reliability under limited start up current.

Combine Gree's G10 technology, closed loop start up, highly efficient DC inverter compressors, DC brushless fan motors, and computational fluid design, Gree's world class ISO9001 certified manufacturing facility and our 6 year warranty with local support and you have a compelling reason to choose Gree U-Match air conditioners.

Smart Features

G10 Inverter

Our compressors intelligently regulate their running frequency. Utilizing the highly sensitive signal processes in the G10 inverter module the frequency of the compressor is altered to match the temperature required. When the desired temperature is achieved, the G10 inverter technology modulates the compressors frequency to maintain maximum comfort with minimal noise.

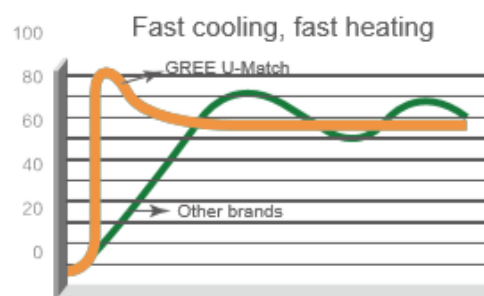
Low Noise

The Gree 180° Sine Wave DC Speed Varying technology offers precise control giving unceasing operation and accurate temperature stability. By operating over a wider frequency the compressor is less stressed giving superior reliability while offering lower noise levels.



Fast Heating and Cooling

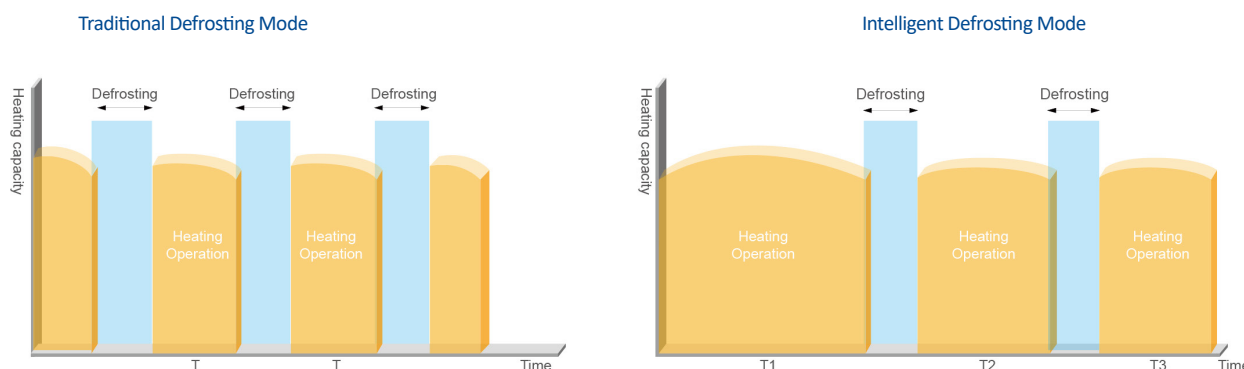
The Gree U-Match range is capable of fast heating and cooling. Coupled with the “I Feel” function that enables the unit to check the actual temperature around the occupant the U-Match range gives superior comfort. Only with IR Remote.



Reliably Smart

Intelligent Defrosting

Gree Intelligent Defrosting Technology enables the unit to correctly judge the frost on its outdoor condenser using a temperature sensor. Defrosting is only performed when needed, for only as long as needed, which reduces energy waste by eliminating unnecessary defrosting.

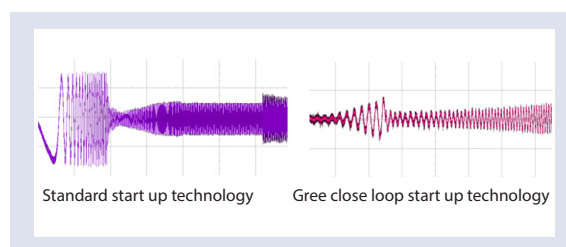


Next Generation Refrigerant – R32

The Gree U-Match range uses R32 Refrigerant. R32 refrigerant is a better environmental option when compared to R410A as R32 refrigerant has a 68% lower Global Warming Potential (GWP). R32 also has superior energy efficiency, a higher refrigeration capacity and thermal conductivity so the refrigerant charge is also 30% less than R410A.

Closed Loop Start Up

Gree's closed loop start up minimizes start up current and makes compressor starting more reliable.



Wide Voltage Range

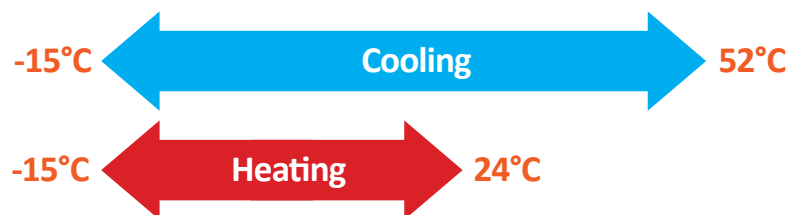
The Gree U-Match range can operate safely within 198V to 264V.





Wide Temperature Operation

The Gree U-Match Air Conditioners are designed to operate efficiently over a wide temperature range. Cooling can be achieved from -15°C to 52°C and heating from -15°C to 24°C



Auto Restart

The U-Match range will automatically restart in the same mode and fan settings after a power outage.



Auto Restart

Unit Protections

The U-Match range of air conditioners comes with a full package of unit protections to prevent major damage to the unit in adverse working conditions. In the case of a shutdown, error or fault codes will be displayed. This gives you peace of mind and confidence that your investment is well protected.



Antifreeze Protection



Low Pressure Protection



High Pressure Protection



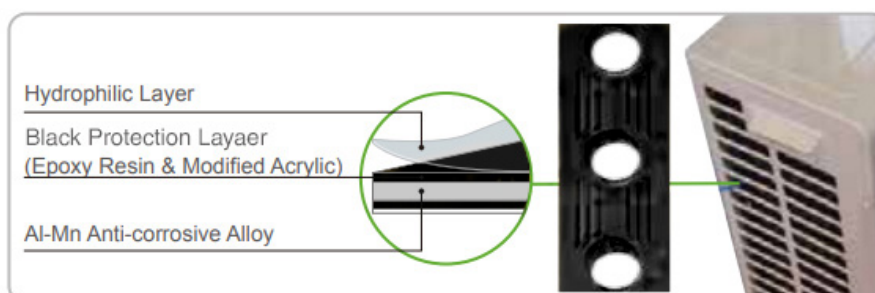
High Discharge Temperature Protection



Overload Protection

Anti-Corrosion Outdoor unit

All Gree outdoor coils have the fin stock coated in Black Hydrophilic coating giving greater corrosion resistance and better defrosting. The indoor coils are all Gold Fin for corrosion resistance.



Smart Installer Features

XE7C-24/HC Wired Wall Controller (WiFi Ready)

The XE7C-24/HC wired wall controller comes standard with the Ducted, Cassette and Floor Consoles U-Match systems. This controller is modern and sleek and comes with many programmable features.

- Multiple timer controls from a one off timer to daily and weekly multi-event timers (8 on/off times for each day).
- Sleep modes.
- Absence / holiday function, this is used to ensure the indoor temperature remains at 8°C while you are away.
- Filter cleaning reminder – Set an adjustable reminder to clean the filters every 100 to 10000 hours.
- Select whether you want the units temperature selection from the wired wall controller or the indoor unit.
- Fully adjustable auto mode for commercial settings like offices and shops.
- System parameters check: the user can check the systems parameters via the XE7C-24/HC which is convenient for commissioning and maintenance.
- Compulsory operation mode: once the unit is installed this clever setting can quickly check whether the operation is normal.
- Historical error check: available through the wired controller for both current and historical error reporting.
- Refrigerant recovery mode: if a malfunction occurs on the indoor unit the outdoor can be run to recover the refrigerant reducing the chances of a refrigerant leak and saving the cost of recharging the unit.



XE7C-24/HC

Installation Highlights

- The longest pipe connection is 75m
- The maximum height difference is 30m with an oil trap every 6m.
- Units pre-charged to 20m reducing the possibility of having to top up the refrigerant.
- Ducted and Cassette units come standard with condensate pumps and safety float switches.
- Both the interconnecting and the wired wall controller cables (2 x 0.75mm²) are non-polar for easier installation.
- Up to 255 U-Match units can be connected to a BMS control system.

Gree Cassette



Gree Cassette

Gree's Ceiling Cassette provides low noise performance through design and innovation. The Gree Ceiling Cassette is a one-stop solution for acclimatizing small and large commercial spaces. This flexible climate solution conveniently disappears above the surface of any rooms ceiling. Feature include a highly effective 4 way discharge of air, multi speed fan, individual swing louver control and a cleanable air filter giving the ceiling cassette core performance capabilities that are ideal for commercial climate control. The discreet display reveals only a subtle grille surface.

The Gree Ceiling Cassette unit is perfect for mid size commercial use, providing ideal climate conditions for medium to large business environments and commercial applications. The Gree Ceiling Cassette can be operated by either an infrared remote control, or by the standard XE7C-24/HC wired wall controller. Power failure recovery ensures that the unit will come back online in the event of a power outage. Flexibility, economy of design and innovation make the Gree Ceiling Cassette essential for creating ideal climate conditions.

360° Air Discharge

360° air discharge for balanced room temperature. Independent control of the swing blades so that each blade can be set to prevent drafts.

Dual Temperature

When matched with the wired wall controller you can select between the ambient air temperature sensors, either in the unit or on the wired wall controller to provide better control over the room temperature and improve comfort.

Optional Extras

Drop Down Fascia (TF04A)



The Drop Down Fascia is designed with both ease of service and health & safety in mind. Using settings in the remote, the filter screen will drop to a maximum of 3 metres to allow ease of cleaning the filters.

Fresh Air Connectability (XF150A-T)



With the addition of the optional fresh air kit, a fresh air duct can be connected directly to the unit to satisfy a rooms' fresh air requirements.

(Up to 10% of air volume on high fan speed.)

Optional Extras

Control Options

All units are supplied with the XE7C-24/HC wired wall controller. Wireless remote controllers are also available. The U-Match range of indoor units is equipped with an interface that can be connected with the Gree Central Controller in order to realize central control over 16 units without connecting the wired controller. This will enable individual units control or group control depending on requirements.



XE7C-24/HC



YAP1F7

Gate Card Function (MK03)

The optional function is useful for hotels as an energy saving device. Once set up with the Gate Card accessory (MK03), the unit will start / stop when a card is detected by the gate control detection board. When the card is removed, the unit will turn to standby status.



Indoor unit mainboard



Gate control accessory

Dry Contact Gateway (ME30-42/E1)

Available gateway will allow for an input signal for on/off, mode control (cooling / non-cooling), fire signal and a forced off signal. Output signals for, on status, operation mode, error output, cold plasma and ventilation output.



Optional Extras

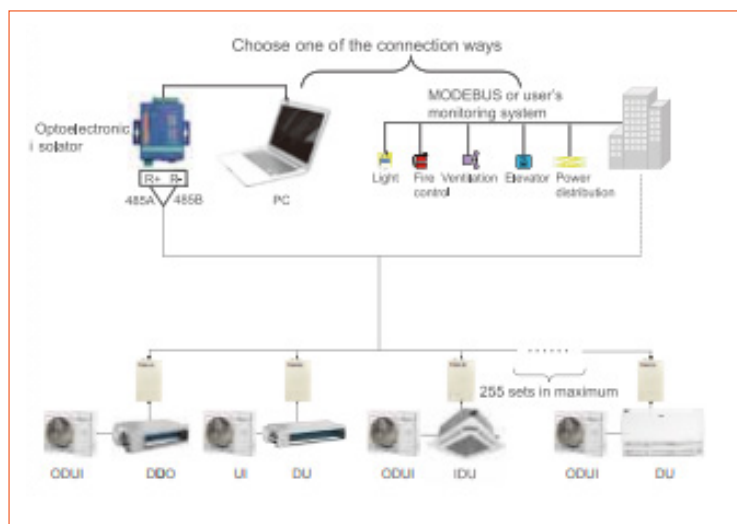
Central Control Option (CE52-24/F(C))

Through the Gree Modbus Gateway, 36 x U Match units can be connected to the Gree central controller.



Modbus Building Management Control and Long Distance Monitoring

The unit is standard with a MODBUS interface. If the unit is to be connected with the building management system, please consult Gree Australia (1800 4733 4 63) for the MODBUS protocol.



Gree Cassette

Technical Specification



Type			Cassette									
Model		Indoor	GUD50TI/C-S		GUD71TI/C-S		GUD100TI/C-S		GUD125TI/C-S		GUD160TI/C-S	
		Outdoor	GUD50W1/NhC-S		GUD71W1/NhC-S		GUD100W1/NhC-S		GUD125W1/NhC-S		GUD160W1/NhC-S	
		Panel	TF06 or TF04A		TF06 or TF04A		TF06 or TF04A		TF06 or TF04A		TF06 or TF04A	
Capacity	Cooling	kW	5.30		7.10		10.00		12.50		14.00	
	Heating	kW	5.80		8.00		12.00		14.00		15.40	
Range	Cooling	kW	2.40~6.00		2.40~7.80		3.00~11.70		3.60~14.00		4.20~16.00	
	Heating	kW	2.20~7.00		2.20~8.80		3.60~13.50		4.20~15.00		4.80~17.00	
Power input	Cooling	kW	1.25		1.97		2.90		3.85		4.18	
	Heating	kW	1.25		2.00		3.45		4.20		4.66	
AEER / ACOP		W/W	4.24/4.64		3.60/4.00		3.408/3.404		3.192/3.304		3.284/3.194	
SEER Label Stars	Hot/Ave/Cold	Cool Heat	4.0 / 3.5 / 2.5 4.0 / 3.5 / 2.5		4.0 / 2.5 / 2.0 4.0 / 3.5 / 2.0		4.0 / 3.5 / 4.0 3.5 / 2.5 / 2.0		3.5 / 3.5 / 3.5 3.5 / 2.5 / 2.0		3.0 / 3.0 / 3.0 3.0 / 2.0 / 1.5	
Operation temp	Cooling	°C	-15 ~ 52									
	Heating	°C	-15 ~ 24									
System Operation Control		-	Standard, YAPIF7; Optional, XE7C-24/HC wired controller									
Air Flow Volume(rated EXP)		l/s	361		389		528		556		556	
Sound Pressure Level (L/M/H/SH)		dB (A)	35 / 37 / 43 / 45		37 / 41 / 45 / 47		41 / 45 / 48 / 51		45 / 49 / 51 / 52		45 / 49 / 51 / 53	
Sound Pressure Level Outdoor		dB (A)	57		57		58		59		60	
Sound Power Level Outdoor		dB(A)	62		68		72		73		73	
Electrical												
Power Supply		V-Hz-Ph	220-240-50 / 60-1									
Recommended Circuit Breaker		A	16		20		32			40		
Input Current	Cooling	A	5.7		9		13.2		17.6		19.2	
	Heating	A	5.7		9.1		15.8		19.3		21.4	
Dimensions and Weights												
Indoor Dimensions (WxDxH)		mm	840×840×200		840×840×240		840×840×290					
Outdoor Dimensions (WxDxH)		mm	889×340×660				940×370×820				900×340×1160	
Panel Dimensions (WxDxH)		mm	950×950×52									
Indoor Net Weight		kg	21		21		23		25		25	
Outdoor Net Weight		kg	42		42		67		67		97	
Panel Net Weight		kg	6									
Drain Connection		mm	Pump Φ 25mm x 1.5mm									
Condensate Pump Lift & Head		mm	1000									
Installation												
Connection Type		-	Flare									
Outer Diameter	Liquid Pipe	mm (in)	9.52 (3 / 8")									
	Gas Pipe	mm (in)	15.88 (5 / 8")									
Max Pipe Distance	Height	m	20*		25*		30*					
Max Pipe Distance	Length	m	30				75					
Refrigerant R32	Charge	kg	1.4				2.2		2.4		3.3	
	Pre-charged	m	15									
	Additional gas charge	g/m	16				25				35	
Power Supply	Outdoor Unit	mm²	3 x 2.5mm²				3 x 4.0mm²				3 x 6.0mm²	
Power Interconnection		mm²	3 x 1.0mm²									
Communication wiring		mm²	2 x 0.75mm² (Screened)									
Wall Controller wiring		mm²	2 x 0.75mm² (Screened)									



For Installation and Sales:

A large, empty rectangular box with rounded corners, intended for contact information for installation and sales.

For Parts and Warranty:

 **GREE**
AIR CONDITIONERS
greeac.com.au | hello@greeac.com.au