

# Rinnai



## Geoflo

Geothermal Heating and Cooling



**geoflo**  
geothermal

# Climate control down under

## Harnessing the climate from under your feet

Everyday the ground absorbs approximately half of the sun's energy that reaches earth and stores it at a steady temperature. Rinnai's Geoflo Geothermal system then utilises this renewable energy source via a ground loop heat exchanger to reliably deliver highly efficient heating and cooling to achieve your desired level of comfort.



### **At Rinnai, we're all about comfort**

For over 50 years, Rinnai has supplied Australian homes and commercial premises with a range of appliances that help people lead comfortable, safe and efficient lifestyles.

Being driven to create comfort means that we really care about our products and your experience from start to finish. We're focused on developing products with the latest technology and our level of quality is second-to-none, so you can rest assured knowing Rinnai will deliver.

# How Geothermal works

Incredibly effective and simple to operate



## The Geothermal System

### 1. Ground Loop Heat Exchanger

An experienced licensed drilling team installs and seals the ground loop heat exchanger for years of reliable operation. The heat exchanger is protected by special conductive grout and polymer materials providing optimum performance during all seasons. Depth of the ground loop can vary from 40 to 100m deep according to heat transfer requirement and local soil condition.

### 2. Condensing Unit

The condensing unit is protected with a thermally insulated durable powder coated cabinet. Australian designed control system monitors operation and displays parameters for easy installation and diagnostic purposes. Compressor Soft Starter technology also guarantees smooth start up and operation of the compressor.

### 3. Indoor Fan Coil Unit

A variable speed supply air fan automatically adjusts air flow to provide optimum capacity and comfort. The indoor unit uses an Electronically Commutated motor (EC) to achieve greater efficiency and quiet operation.

### 4. Controller

With your home or office Wi-Fi connection, you can control this thermostat from anywhere. Or with the Total Connect Comfort app, you can monitor or control your heating and cooling system with your smartphone from anywhere and anytime you choose. Back home, you'll like the look of the thermostat's colorful, high-definition touch screen.



# Cooling that doesn't cost the earth



### Works in any climate

Rinnai's Geoflo Geothermal is a highly efficient direct exchange geothermal system that uses constant temperatures from the ground to transfer warm or cold air into almost all homes, buildings and offices.

Conventional cooling and heating systems heavily rely on fluctuating outside air temperatures to operate. Rinnai's Geoflo Geothermal utilises stable ground temperatures and conditions your home with greater reliability in performance regardless of the outside temperature.

### Supremely Efficient

Rinnai's Geoflo Heat Pump systems are an incredibly quiet and efficient way to heat and cool your premises.

Because the stable temperature of the Earth is used, you can sustainably reduce your heating and cooling running costs by as much as 30 percent. Best of all, geothermal systems can be installed in any sized home or business in virtually any location.

# Features and Benefits



### Lower Energy Costs

With energy costs rising dramatically, the price of heating and cooling a home is becoming excessive. A Rinnai Geoflo Geothermal system can save the average household up to 30% per year in running costs.



### Quiet

Designed with consideration in mind, the Rinnai Geoflo Geothermal operates without the use of external fans, ensuring peace and quiet for both you and your neighbours.



### Compact

The compact size of the system means it can be easily incorporated into the design of a new home or retrofitted into existing homes.



### Safe

Safety for those with small inquisitive fingers has been eliminated because the Rinnai Geoflo Geothermal unit does not contain a fan.



### Sustainable

Because the stable temperature of the earth is used, you can sustainably reduce your heating and cooling running costs regardless of the weather.



### Simple maintenance

With few moving parts, the Rinnai Geoflo Geothermal system requires minimal ongoing maintenance and service.



### Warranty

Have peace of mind knowing you are protected by a 5 year limited warranty for the Heat Pump and indoor fan unit. For full terms and conditions visit [rinnai.com.au](http://rinnai.com.au)



### Drilling

The installation of the Ground Loop is installed in a small diameter hole (approx. 125mm) by highly trained drillers. Installed Ground Loops are encased in a thermally active and flexible grout protecting your system.

# Drilling down to the facts

4 reasons why geothermal is the smarter choice for you

1

## Extremely cost-effective

Geothermal energy is extremely affordable and can cut electricity consumption by up to 30% in comparison to a traditional ducted reverse cycle air conditioning system. Geothermal system heating and cooling performance is maintained during extreme climate conditions eliminating high seasonal energy costs.

2

## Very quiet

When looking for a heating and cooling system that you can't hear, look no further than geothermal. Being very smooth and quiet in operation, geothermal systems rely on the temperature of the ground to heat and cool your home. This results in a very quiet operation with no one knowing that the system is even on.

3

## Flexible design

Geothermal heat pump systems are designed with the user in mind. Geothermal systems can be installed in either new or retrofit applications. Since the hardware requires a lot less space than traditional HVAC systems, you can instantly save yourself some storage space in your home by switching to a geothermal system. The Condensing Unit can also be installed indoor, saving space outside your home.

4

## Very durable

Geothermal systems have a relatively low level of moving parts. With high durability and reliability geothermal systems are becoming the way of the future for many homeowners.





# Specifications

So simple yet incredibly effective

System Overview			
Power Supply	V - Ph - Hz	220-240 - 1 - 50	
Cooling	Rated Capacity	kW	18.2
	Rated Input Power	kW	4.5
	EER	W/W	4.0
Heating	Rated Heating Capacity	kW	17.6
	Rated Heating Input Power	kW	4.0
	COP	W/W	4.4
Refrigerant		R410A	
Pipe Connection Liquid / Suction	mm	12.7 / 22.2	
Condensing Unit			
Model Name		DOGEV17Z7	
Compressor Type		Scroll	
Maximum Input Current	A	32	
Maximum Input Power	kW	5.5	
Outdoor Noise Level	dB(A) @ 1.5m	42	
Dimensions (W x D x H)	mm	624 x 464 x 800	
Net Weight	kg	100	
Operating Temperature Limits	°C	-15° - 50°	
Indoor Fan Coil Unit			
Model Name		DIGEV17Z7	
Maximum Input Current	A	4.4	
Maximum Input Power	kW	1.5	
Dimensions (W x D x H)	mm	1225 x 655 x 444	
Net Weight	kg	70	
Air Flow	L/s (ESP)	750 (150Pa)	
Maximum External Static Pressure	Pa	200	
Supply Air Duct Connection	mm	1072 x 406	
Return Air Duct Connection	mm	718 x 264	
Moisture Removal	L/h	5.7	

\*HP = High Pressure

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