

# Rinnai



Ducted Gas Heating

# Whole home heating

Incredibly effective and simple to operate

## Did you know?

With Rinnai Zoning technology, you can heat separate areas of your home. You can even heat just a single zone, saving you money on your energy bill.



### Fast

It doesn't matter what the temperature is outside, your Rinnai Ducted Gas Heater will warm up your whole home before you know it.



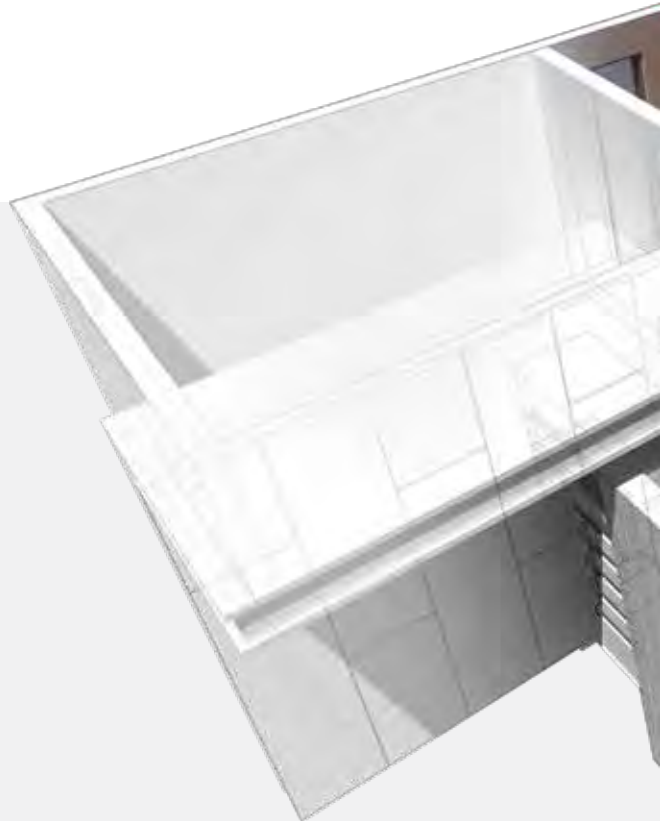
### Reliable

Brivis pioneered energy-efficient Ducted Gas Heating. Our range of modern 5 and 6 star heaters can now save you up to 30% on your energy bill, when compared with a classic 3 star heater.



### Efficient

For over 40 years, Rinnai has been heating New Zealand homes. Unmatched for reliability, some of our first heaters are still working today.



## Rinnai – NZ's leading gas heating brand

With a reputation for innovation, reliability and quality, Rinnai/Brivis is recognised as the staple of Ducted Gas Heating in Australasian homes.

Every Rinnai Gas Ducted Heater is guaranteed to provide your home with warm, cosy air for many years. Our design and manufacturing process is accredited to the Australian Standard AS/NZS ISO9001, and our Ducted Gas Heaters come with warranties of up to 5 years.

Rinnai NZ operates a Customer Care Centre and Service Network to support Rinnai heating products. Our knowledgeable staff are on hand to ensure total enjoyment of your new Rinnai Ducted Gas Heater.

## Ducted Gas Heating

Rinnai Ducted Gas Heating comprises a heating unit connected to a series of outlets via a system of ducts. Ductwork and outlets supplied by your installer are strategically placed throughout your home, either in the floor or ceiling. The position of the heating unit depends on your house.

The ducts which connect the outlets to the heating unit are neatly tucked away, out of sight. A wall controller lets you set the temperature for the whole home or just one single room.



## How does Ducted Heating work?

The Rinnai Ducted Gas Heating system draws cold air from the lowest point in your home where it naturally collects. The furnace then heats the air and delivers it into all rooms of your home via the outlets and duct network as a gentle stream of warm air.

The Rinnai controller monitors the air temperature on a continual basis and controls the Rinnai Ducted Gas Heating system to ensure a consistently warm temperature throughout the home. On our higher efficiency models, as the home heats up, the heater reduces its output so only a small amount of energy is used while maintaining your desired comfort level.

Once your home reaches your desired temperature, the heater unit switches off. The fan then comes to a halt slowly, ensuring that all the remaining heat inside the unit is used.



## System Design Service

Rinnai offers a system design service to help you create the perfect heating system for your home or office.

An experienced system designer will custom design the duct layout to ensure an optimised central heating solution is achieved. The design team have experience in developing heating solutions for small single dwellings through to large and complex commercial installations.

The design service will custom design your central heating system including recommending the ideal furnace, the location of ducts and specifying the appropriate zones. The system design service works closely with the specialist Rinnai dealer network and architects across the country. This is a nationwide network of qualified, trained and experienced installers recommended by Rinnai.

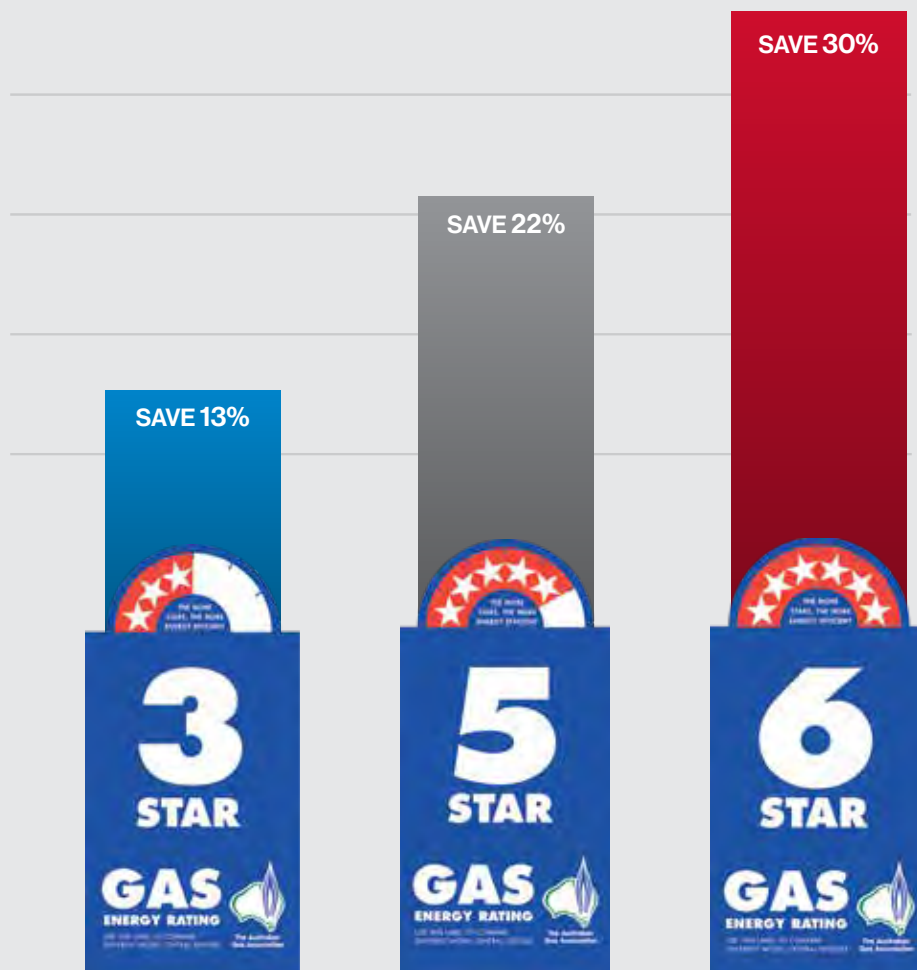


# Heating that doesn't cost the earth

## Star ratings explained

The star rating on your Ducted Gas Heater helps you compare how much gas your heater is actually using. It's an indicative guide that outlines the running cost of the heater in terms of annual energy usage. The higher the star rating, the more energy efficient the heater is - meaning bigger annual savings on your running costs. On average, an increase of one star means energy usage savings of approximately 10 percent.

Energy savings per annum\*



# Features and Benefits



## Easy Installation

Internal and external units designed for hassle-free installation, with internal units easy to split and lift for greater flexibility.



## Efficient Energy Rating

With up to 6 star energy rating models available, this high-efficiency feature uses less energy and provides long term savings during the service life of your heater.



## DualComfort™ (Add-On Cooling)

Keep cosy and cool all year round with DualComfort™ Add-On Cooling available with selected Ducted Heating models. Uses the same ducts for both heating and cooling.



## Zoning

ZonePlus™ allows you to control up to four individual zones each with their own timer, temperature settings and reduced running costs.



## Optional Wi-Fi Control

Enjoy ultimate control of your Ducted Heater or Add-On Cooling from almost anywhere with internet connection using the Rinnai Touch™ App.



## Small Spaces

Selected models can be installed sideways for versatile installation in restricted areas.



## Fast Warm Up

It doesn't matter what the temperature is outside, your Rinnai Ducted Gas Heater will warm up your whole home before you know it.



## Robust & Reliable

With a history expanding over 50 years in Australasia, Rinnai Gas Ducted Heaters are unmatched in reliability. Units are designed to withstand New Zealand's varied climates and built to last.

# How it works

So simple yet so effective

## 1. Fanspeed Control (no cold drafts)

Adjustable air volume of up to 16 Fan Speed settings to better match airflow to your home. Soft start fan eliminates cold drafts on startup.

## 2. Efficient Heat Exchanger\*\*

4-Pass Heat Exchanger for absolute maximum efficiency and minimal gas usage, utilising stainless steel, aluminised & non-corrosive materials where you need it most.

## 3. Rapid Heat

Boost mode for cold starts to warm your home rapidly. Feel cosy fast.

## 4. Insulated Cabinet

Twin skin and fully insulated cabinets keep the heat where it is needed inside your home and not wasted outside.

## 5. Electric Ignition On Demand

Electronic start ensures no wasted gas (pilot light) when not operating. Most reliable form of ignition.

## 6. Modulating Gas Valve

Helps maintain a more even temperature in your home for ultimate comfort.

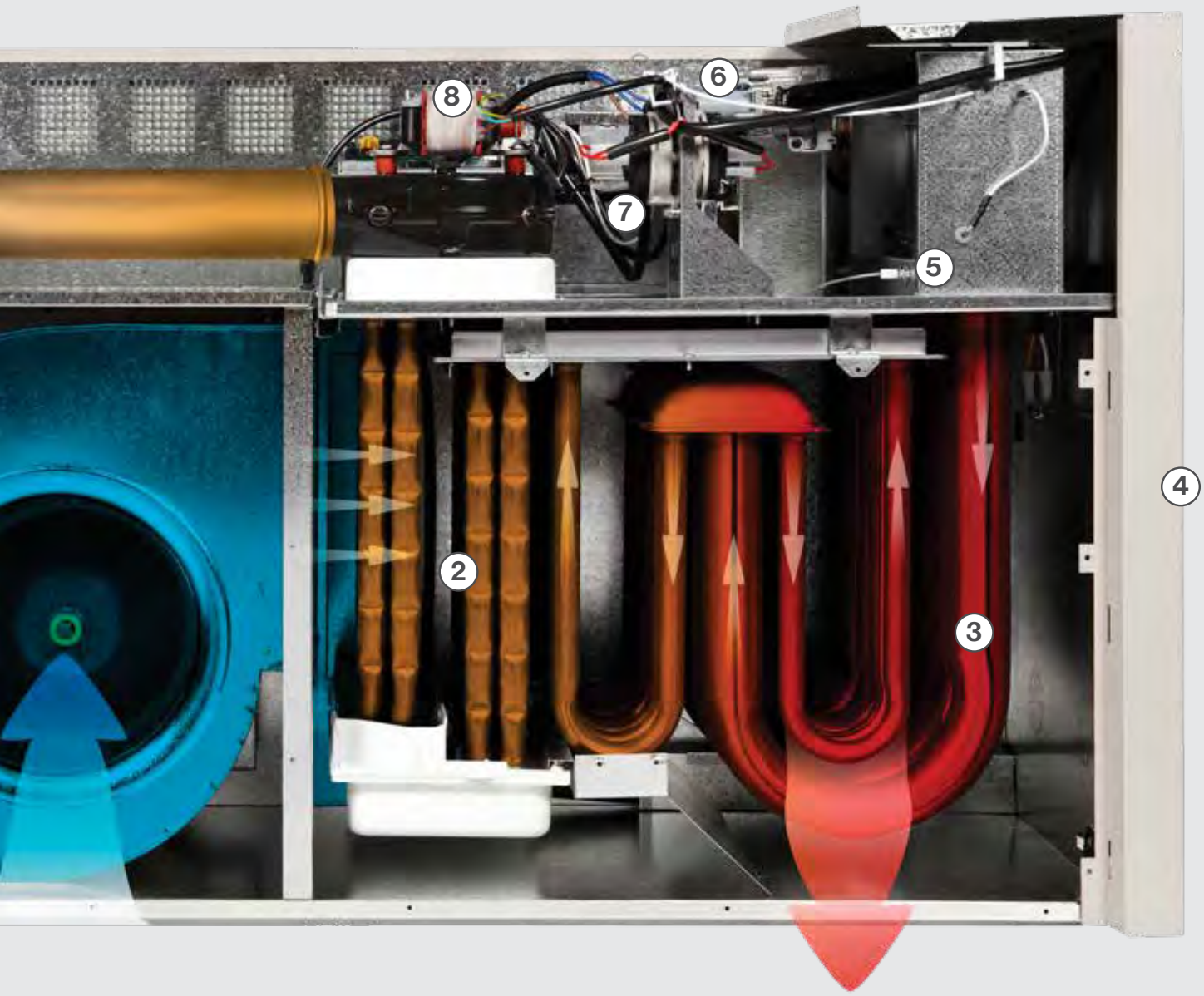
## 7. Safety Controls

Sophisticated multi-level safety controls that meet or exceed Australian and New Zealand Standards for supreme peace of mind.

## 8. Multispeed Combustion Fan

Automatically adjusts the combustion air through the heat exchanger for maximum efficiency.





# Buffalo Series

Perfect changeover solution

## Rinnai BX3C

The Rinnai Buffalo units are the perfect option for those looking to replace their existing heater with a dependable, low cost option. The remodeled Buffalo BX3C is now even more compact, making it easier to install.



## Features

- Reliable and built to last
- Easy changeover
- Five year parts & labour warranty
- Superior airflow
- Excellent value for money
- Seamless retrofit to the existing BX320 & BX326 models





## Rinnai BX5

The Rinnai BX5 Star Heater has been designed with efficiency and reliability in mind. The energy efficient BX5 5 Star is the perfect solution for replacing or upgrading your existing Buffalo. With indicative savings of 22% on annual running costs compared to a standard 3 Star appliance, the BX5 is a simple upgrade choice. Your investment in the BX5 is sure to provide you many years of trouble free, high-efficiency comfort, as well as reduced gas consumption.



## Features

- High-Efficiency 5 Star rating
- Easy to install
- ZonePlus™ compatible - up to 4 Zones
- Five year parts & labour warranty
- Great choice for Add-On ICE™ Cooling



**5**  
YEAR  
WARRANTY

# SP Series

## Premium range of heaters

### SP5 Series

Rinnai's latest 5 Star non-condensing range of Ducted Gas Heaters delivers excellent efficiency while using less gas to heat your home, all without the need for condensate drains. Rinnai can now not only deliver a 5 Star rating without producing condensate, but can offer a cheaper way to get 5 Star efficiency without compromising on quality.

A non-condensing Ducted Gas Heater makes the system easier and faster to install, making it a great option for a new installation or to replace your old heater - meaning lower installation costs.



### Features

- Five year parts and labour warranty
- Lay down kit (Internal application)
- ZonePlus™ compatible
- DualComfort™ compatible
- Cheaper and easier to install
- High efficiency
- Non-condensing 5 Star Rating



SP5 External & Internal models



## SP6 Series

Introducing Rinnai's highest efficiency Ducted Gas Heater, the SP6 series. The new range of Rinnai 6 Star heaters are cleverly engineered to use less gas than traditional Ducted Gas Heaters. This is achieved through our efficient 4 Pass Heat Exchanger with Modulating Gas Valve - meaning you get superior temperature control and greater efficiency.

In heating mode, Rinnai ZonePlus™ allows you to independently zone different temperatures throughout the home with the option to turn off ones not in use, saving you money on running costs.

With DualComfort™ compatibility, your 6 Star heater can be your ultimate gas heating and refrigerated cooling solution all year round. Selected models are also available in Liquefied Petroleum Gas (LPG).



SP6 External & Internal models

## Features

- Highest possible gas energy star rating
- Reduced running costs
- Reduced carbon emissions
- Brivis ICE™ compatible
- ZonePlus™ compatible
- Selected models available in LPG
- Lay down kit (Internal application)
- Five year parts and labour warranty



# Brivis ICE™

## Add-On Cooling Systems

### Brivis ICE™ product features

- ZonePlus™ compatible (SP heaters only)
- Advanced control options
- Brivis ICE™ Add-On refrigerated cooling system
- Electronic ignition and integrated diagnostics
- Duct work installation flexibility (under floor or in roof space)
- Heating and cooling from the one controller

### Keep your energy costs to a minimum

The combination of Ducted Gas Heating with a refrigerated system provides a superior whole home climate control solution at an affordable rate.

### The ultimate form of air-conditioning

The system combines the best form of heating and the best form of cooling. It can be zoned, utilises common ductwork and allows you to maintain your desired level of comfort all year.

### Better performance in cold ambient temperatures

The reverse cycle heating capacity of heat pumps reduces and works less efficiently when outside temperatures drop. The heat output and efficiency of a Ducted Gas heater is not impacted by ambient temperature and remains steady.

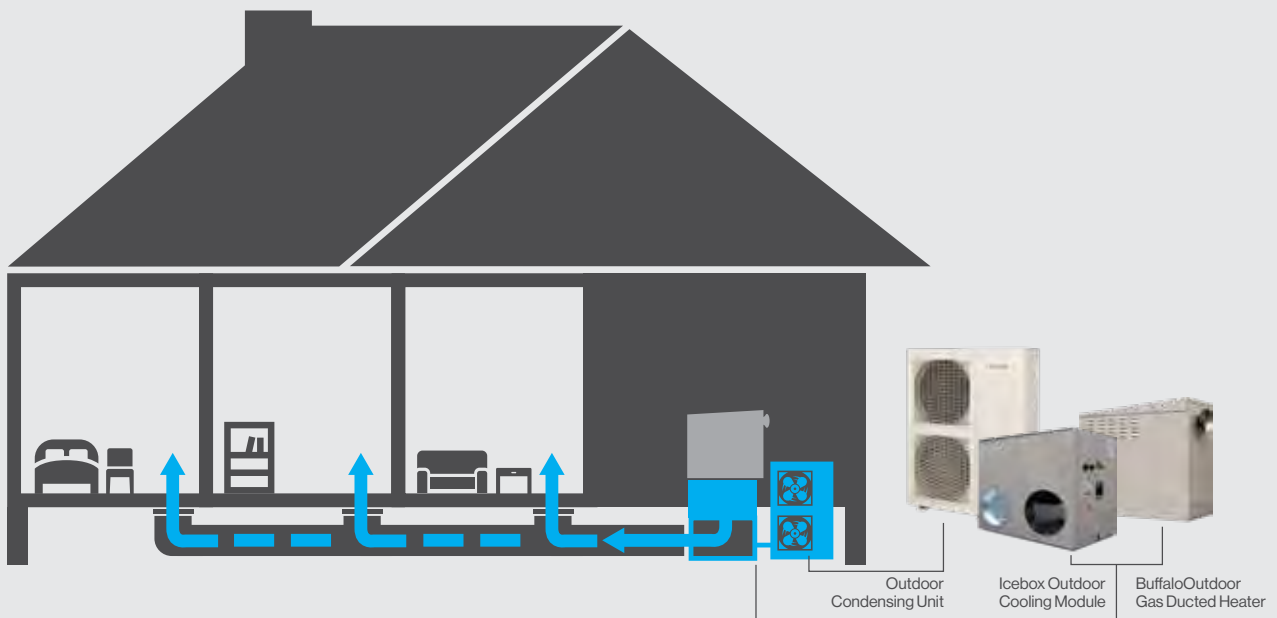
### Flexible installation options

With the Brivis ICE™ heating and cooling solution, you can install both the gas heating and cooling system at the same time or install just the heating first, ready for the cooling to be added in at a later date.

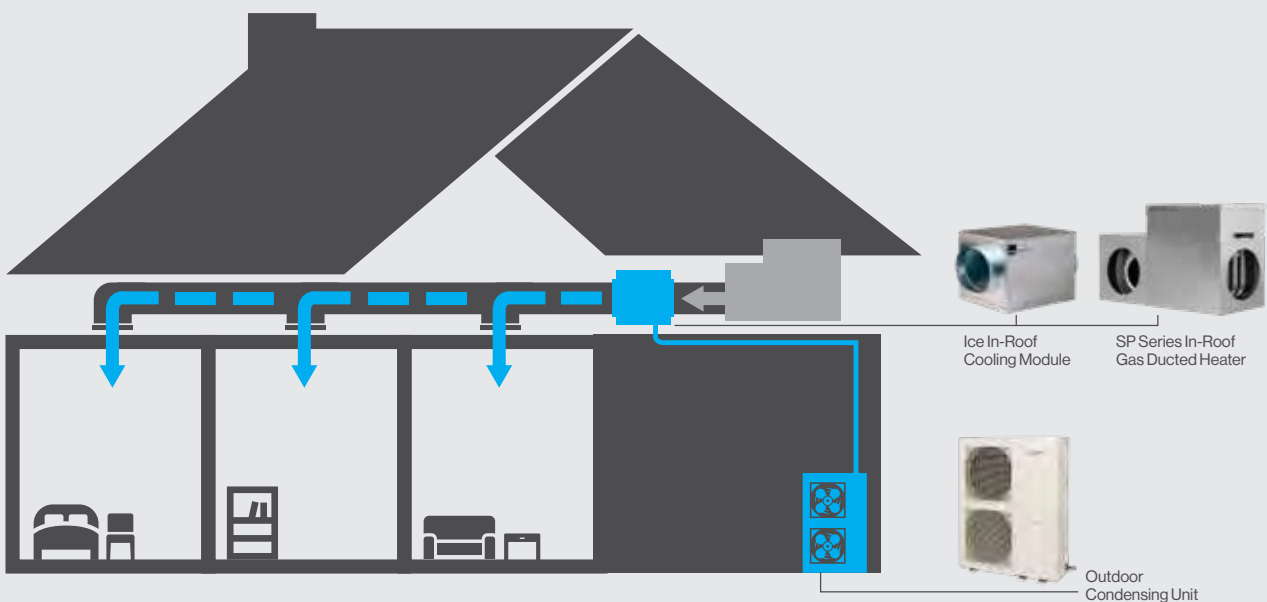
# How it works

Solutions for every home

## Brivis ICE™ solution for suspended floor homes



## Brivis ICE™ solution for concrete slab homes



# Zoning

Complete comfort control



Touch™ App mobile controller. Refer to controllers page for more information.

# Introducing Rinnai Zoning Solutions\*

## ZonePlus™

For outstanding individual comfort, control and energy management, ZonePlus™ allows you to have up to four individually controlled zones, each with their own time and temperature settings.\*\*

For total flexibility, you can upgrade as many Rinnai Temperature Sensors to Rinnai NC6 or Touch™ controllers, allowing you to fully control, program and manage each zone – eliminating the need for you to go back to a Master controller. Adjust temperatures for each zone as it suits you from any controller in the home. Perfect comfort, absolute control. ZonePlus™ works in unison with any Rinnai SP series Ducted Gas Heater with 5 or 6 Star efficiencies.

## Adaptive Zoning

Allows heating or cooling to be used with one or more Rinnai controllers, operating a common zone, as well as up to four additional zones, e.g. lounge room, bedrooms, kitchen/dining etc.

A Rinnai NC6 or Touch™ can simply turn zones on or off to manage only those areas you are using.

# Benefits of ZonePlus™

## Reduce your energy costs

Switching off unused zones not only helps reach your set temperature faster, but will also save you lots on your energy bill. Adjusting your comfort levels moderately can also make big changes to your energy bill.

## Get more comfortable quicker

With the option of Rinnai controllers in every zone, you no longer need to rely on one central controller managing your entire home. Controlling your climate is only ever a few steps away. How convenient is that?



Rinnai Touch™



Rinnai NC6 Networker™



Remote Temp Sensor

\*In some Bravis ICE™ applications a Constant Zone may be required. Consult your specialist dealer for more information.

\*\* For multi temperature set point (MTSP) systems, the zone temperature setpoint can be set independently across all Networker/Touch™ Controllers or temperature sensors.

# Controllers



## Touch™ Controller

Comfort is right at your fingertips with the Rinnai Touch™ Controller. Control your Rinnai Ducted Gas Heater using its high resolution touchscreen.

With its convenient 7 day programmability function and easy-to-use interface, the Rinnai Touch™ Controller combines the best engineering and technology into one unit.

- Security control prevents unauthorised usage.
- Simple on/off and temperature up/down functionality.
- Inbuilt status monitor.
- Monitors usage and alerts you when it's time to maintain your appliances.
- Facilitates optional on-board zoning functionality and customisation.

## Touch™ App

Enjoy ultimate control of your Rinnai Gas Ducted Heater and Add-On Cooling from almost anywhere with an internet connection. With the ability to turn your unit on/off, set temperatures and modes (heating or cooling) and zone control, complete comfort has never been easier.

- Available on Google Play and App Store.
- Multiple user capability.
- Retrofits to existing Gas Ducted Heaters and with compatible Network Controllers.

## NC6 Networker

The Networker is designed with an easy-to-use rotary dial, an easy-to-read LCD screen and is backlit using Electro-Luminescence (EL) technology, making the screen easier to read in poorly lit areas or at night. The NC6 can operate both a Rinnai ducted gas heater as well as a Rinnai cooling system, providing total control.



## Remote Temperature Sensor for ZonePlus™

For total flexibility when zoning your home, a remote temperature sensor, when used with a Touch or Networker control, will help you manage and control temperatures throughout your home.





# Let us design it

## System Design Service

Rinnai offers a system design service to help you create the perfect heating system for your home or office.

To get the full potential from a modern gas furnace, it is vitally important to get the system design right. A poorly designed and installed duct system can cancel out the benefits you would otherwise get from your Rinnai Gas Ducted Heating System.

Outlets can be positioned in the floor or ceiling and are equally effective, provided the air intake point is correctly located.

The choice between ceiling or floor outlets is usually determined by the available space in and around the house for the ducting. The selection of the furnace is also dependent on the house design.

A scale house plan with stud height and available space marked (roof or sub-floor cavities) is required for Rinnai to complete a design.

The system designer works closely with the specialist Rinnai Ducted Heating dealer network and architects across the country.

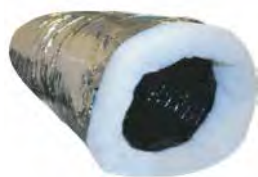
The outlets and return air are available in different styles, some in different colours.



To get the full potential from a modern gas furnace, it is vitally important to get the ducting system right.

### Ducting

High-quality flexible ducting is specified on all system designs



### Floor outlets

Floor outlets are available in many different styles and colours to ensure it blends seamlessly with the interior design of your house. Below is a small selection of what is available.



### Ceiling outlets

A range of ceiling diffusers are available that distribute air down to the floor.



Call 0800 746 624 to arrange a system design or obligation-free consultation

# Technical Information



Features	BX3C	BX5	SP5	SP6
Star Rating	★★★	★★★★★	★★★★★	★★★★★
Heating kW capacities	20 / 28	20 / 30	21 / 30 / 35**	15** / 23 / 30 / 35
5 Year Parts & Labour Warranty	●	●	●	●
Electronic spark ignition	●	●	●	●
Powered Flue	●	●	●	●
Internal option			●	●
External option	●	●	●	●
Fan Speed Sensing	●	●	●	●
Modulating Gas Valve	●	●	●	●
Internal Unit Lay down option			●	●
Networker compatible		●	●	●
Wi-Fi compatible		●	●	●
Bravis ICE™ Cooling compatible		●	●	●
ZonePlus™ Compatible		●	●	●

Rinnai Ducted Gas Heater	Star Rating	Capacity (kW)	Airflow (L/s) @ 100Pa ESP	Duct Connection Pop sizes (mm)	Dimensions (L x W x H)	Net Weight (kg)	Available in LPG
<b>SP6 Series</b>							
SP6234XEN/L	6.0	23.0	705	350	1046 x 416 x 750	68	LPG
SP6234XIN/L	6.0	23.0	755	350	1021 x 395 x 634	58	LPG
SP6304EN	6.0	29.0	890	350	1096 x 568 x 810	89	-
SP6304XEN/L	6.0	29.0	1020	400	1096 x 568 x 810	89	LPG
SP6304IN	6.0	29.0	1085	350	1070 x 547 x 684	78	-
SP6304XIN/L	6.0	29.0	1120	400	1070 x 547 x 684	78	LPG
SP635IN/L	6.0	35.0	1155	450	1070 x 547 x 684	78	LPG
<b>SP5 Series</b>							
SP5214EN	5.0	21.0	645	300	1046 x 416 x 657	66	-
SP5214IN	5.0	21.0	740	300	1021 x 395 x 634	53	-
SP5304EN	5.0	30.0	995	350	1096 x 568 x 707	85	-
SP5304IN	5.0	30.0	1110	350	1070 x 547 x 684	71	-
SP5354IN	5.0	35.0	1190	450	1070 x 547 x 684	72	-

<b>BX3C Series</b>								
BX3204EN	300mm base box	3.5	20	541	300	850 x 425 x 615	57	-
	350mm base box			574	350			
BX3264EN	350mm base box	3.5	28	849	350	1030 x 590 x 705	67	-
	400mm base box			957	400			
<b>BX5 Series</b>								
BX5202EN	300mm base box	5.1	20	545	300	852 x 420 x 775	57	-
	350mm base box			609	350			
BX5302EN	350mm base box	5.0	30	972	350	1028 x 580 x 866	67	-
	400mm base box			1042	400			

\*\*Internal only.

# Specifications

Add on ICE™					
System Overview			10	13	15
Product Code			DSCBDC10A11	DSCBDC13A11	DSCBDC15A11
Stock Availability			Ex Stock		
Power Supply		V-ph-Hz	220-240-1-50		
Mode			Inverter		
Cooling Capacity	Nominal Capacity	kW	10	13	15
	Rated Capacity	kW	10.1	13.1	14.6
	Capacity Range	kW	4.8 - 11.0	6.3 - 14.0	7.5 - 16.0
	Rated Input	W	3.20	4.08	4.67
	AEER		3.12	3.20	3.12
ICE™ Outdoor Unit			DONSC10A17	DONSC13A17	DONSC15A17
Power Supply		V-ph-Hz	220-240-1-50		
Maximum Input Current		A	18.0	23.0	25.0
Compressor		Type	Rotary	Rotary	Rotary
Sound Pressure Level @1m		dB(A)	61	62	62
Sound Power Level		dB	70	71	71
Dimensions	Dimensions (L x W x H)	mm	946 x 410 x 810	952 x 415 x 1333	952 x 415 x 1333
	Net Weight	kg	68.5	100	116
Refrigerant Piping	Refrigerant	Type	R410A		
	Gas Connection Size	mm	15.9	19.0	19.0
	Liquid Connection Size		9.5	9.5	9.5
	Recommended Interconnecting Pipe Size - Gas (mm)	1 - 10m	15.9	19.0	19.0
		10 - 30m			
	Recommended Interconnecting Pipe Size - Liquid (mm)	1 - 10m	9.5	9.5	9.5
		10 - 30m			
	Precharged Length	m	15	15	15
Max. Pipe Length	65		65	65	
Max. Height Diff (CDU below)	30		30	30	
Max. Height Diff (CDU above)	30		30	30	
Operating Temperature Limits		°C	-15 - 50	-15 - 50	-15 - 50
ICE™ Indoor Unit			DINLU10A17	DINLU13A17	DINLU15A17
Power Supply		V-ph-Hz	220-240-1-50		
Description		Type	Compact Coil with Round Duct Connections		
Airflow	Rated	L/s	678	697	830
	Minimum		500	550	620
Coil Static Pressure Drop	@ Rated Airflow (Dry / Wet)	Pa	48 / 58	50 / 60	65 / 80
	@ Minimum Airflow (Dry / Wet)		33 / 38	35 / 40	48 / 60
Dimensions	Dimensions (L x W x H)	mm	823 x 540 x 678	823 x 540 x 678	823 x 540 x 678
	Net Weight	kg	31	31	40
Duct Connection (Outlet)		mm	400	450	450
Duct Connection (Inlet)			400	400	400
Condensate Drain Connection			20	20	20
Refrigerant Pipe Connections	Gas		15.9	19.0	19.0
	Liquid		9.5	9.5	9.5
Operating Temperature Limits			°C	19 - 32	19 - 32

Rated capacities rated in accordance with AS3823 with 5m charged length. With our policy of continuous improvement, we reserve the right to change, or discontinue at any time, specifications or designs without notice.

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 Note: All images contained within this brochure are for illustrative purposes only, the colours and finishes of the products featured are as close to the respective product range as photographic lighting and printing processes allow.

View the warranty conditions prior to purchase at [rinnai.co.nz](http://rinnai.co.nz)

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**Rinnai**