

# comfort BY CONTROL



POOL AND SPA HEATING SOLUTIONS



## Residential Models 200 to 430

Raypak's range of Australian made residential pool and spa heaters are capable of heating the biggest or smallest of pools, extending your swimming time and enjoyment.



## Residential Spartan 131

The Spartan 131 spa heater is Australia's only purpose built spa heater constructed from an all aluminium outer for maximum corrosion protection.



## Premium Range

In response to demand for an even more rugged pool and spa heater to meet the toughest of operating conditions and environments, Raypak has designed a new premium range of gas heaters suitable for large residential and commercial installations.



# heating

Raypak's residential gas heater range features:



- Cupro-nickel heat exchanger for greater protection from corrosion
- Polymer headers for longer life
- Fully programmable digital heater controller with independent settings for your pool or spa
- Automatic control of pump and motorised valves, if connected
- Easy connection to the Raypak EIB for control of landscaping features such as garden lights, pool lights and water features
- Energy saving "hot surface ignition"
- Highly corrosion resistant "ZAM" metal casing
- Australian manufacture and design excellence
- Remote control available as an option
- Suitable for either indoor or outdoor installations. Outdoor configuration is standard

The Spartan provides an extensive list of standard features including:



- Digital heater controller
- Easy connection to the Raypak EIB for control of landscaping features such as garden lights, pool lights and water features
- Energy saving "hot surface ignition"
- Polymer headers for longer life
- Suitable for outdoor installations only
- Remote control available as an option

In addition to the features of the residential gas heating range, the products include:

- All bronze headers for even greater temperature and wear tolerance with increased corrosion protection
- Stainless steel constructed base
- Stainless steel combustion support structure
- Powder coated ZAM heavy gauge metal casing to withstand the harshest operating conditions

*Note: Automatic control of pump and motorised valves is not standard on Premium models 127 and 167*



## Selecting the right size Raypak gas heater for your pool or spa...

### Temperature Rise per Hour

Model	Spa Volume (Litres)				Pool Surface Area (m <sup>2</sup> )							
	2000	3000	4000	5000	40	60	80	100	120	140	160	
<b>131 Spartan Residential</b>	10°	6°	5°	4°	0.30°	0.20°						
<b>127 Premium</b>	10°	6°	5°	4°	0.30°	0.20°						
<b>167 Premium</b>	14°	9°	7°	6°	0.50°	0.30°	0.20°					
<b>200 Residential</b>	17°	12°	9°	7°	0.55°	0.35°	0.25°	0.20°				
<b>280 Residential or Premium</b>	25°	17°	12°	10°	0.85°	0.55°	0.40°	0.30°	0.25°	0.20°		
<b>350 Residential</b>	37°	21°	16°	12°	1.05°	0.70°	0.50°	0.40°	0.30°	0.25°	0.25°	
<b>430 Residential or Premium</b>	40°	26°	19°	15°	1.30°	0.85°	0.65°	0.50°	0.40°	0.35°	0.30°	

Note: Temperature rise is provided as a guide only and is based on outdoor installations and an average wind speed of 2.2km/h and depth of 1.3m. Temperature rise will be greater with indoor installations or lower with higher wind speeds.

### Technical Specifications:

Model	Nominal Rating				Connections	
	Natural Gas		Propane Gas		Gas	Water
	Input MJ/h	Output kW	Input MJ/h	Output kW	mm	mm
<b>Spartan 131</b>	120	24	120	24	20	40
<b>127 Premium</b>	110	25	103	23	20	40
<b>167 Premium</b>	164	36	154	34	20	40
<b>200 Residential</b>	196	44	185	41	20	50
<b>280 Residential or Premium</b>	278	62	261	58	20	50
<b>350 Residential</b>	343	76	323	72	20	50
<b>430 Residential or Premium</b>	420	94	396	88	20	50

### Approximate Dimensions:

Model	Height mm		Width mm	Depth mm	Weight kgs	Flue Dia. mm
	outdoor	indoor				indoor
<b>Spartan 131</b>	860	n/a	410	610	35	n/a
<b>127 Premium</b>	895	1100	505	280	42	125
<b>167 Premium</b>	905	1470	365	610	67	150
<b>200 Residential</b>	1050	1590	465	650	70	175
<b>280 Residential or Premium</b>	1050	1680	570	650	75	200
<b>350 Residential</b>	1050	1680	660	650	85	225
<b>430 Residential or Premium</b>	1050	1760	745	650	90	250



# electric heating

The Raypak RHP33 electric heat pump is quiet, efficient and a long lasting alternative to other forms of traditional pool heating. The electric heat pump utilises the available heat in the air to provide a highly efficient method of water heating for your pool and spa.



## Features include:

### Exclusive Durasteel™ cabinet

Polyester coated steel cabinet

### Scroll Compressor

The largest high efficiency single-phase Scroll compressor available today

### Larger 722 Alloy Heat Exchanger

A large surface area heat exchanger maximising heat transfer and subsequent pool water temperature rise

### Larger Coated Air Coils

Larger fins maximise heating at lower temperatures. Unique fin coating minimises corrosion attack, even in salt air

### Electronic Controls

Accurately monitors your pool's water temperature settings

### Standard Dual Thermostats

Allows separate pool and spa temperature settings

### Built-in Bypass

Automatically compensates for normal day-to-day changes in your pools hydraulics, maximising heat transfer efficiency

### Back Flow Check Valves

Reduce the possibility of damage from chlorinating devices

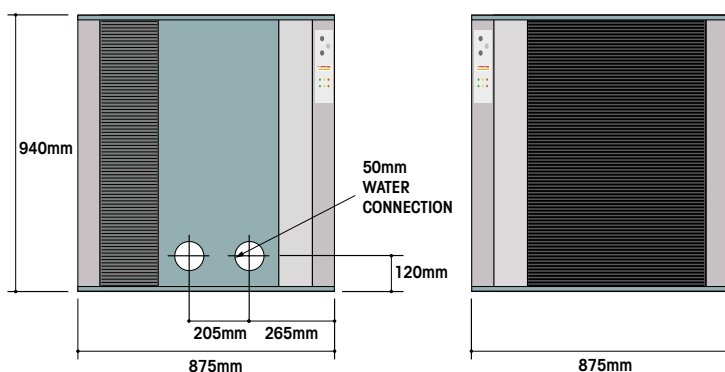
### Exclusive Refrigerant Receiver Tank

Allows larger refrigerant charge and provides more efficient heating at lower air temperatures without additional compressor stress

### Corrosion Indication System

Exclusive corrosion early warning system, monitoring the water quality for damaging and costly corrosive water

## Approximate Dimensions:



## Technical Specifications:

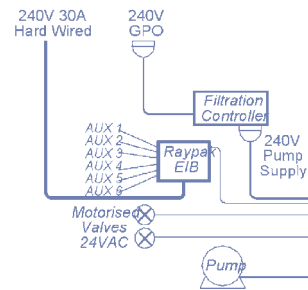
Model	RHP33
Heat kW Output (@ 26°C Air 80% RH 26°C water)	33
C.O.P.	6.4
Voltage	240V - 1Ph - 50Hz
Minimum Circuit (Amps)	42
Electrical Input (kW)	5.2
Water Flow (Litres per Minute)	60 - 300
Shipping Weight (kgs)	150

In addition to pool and spa heaters, Raypak also offers a range of accessory products to support its heating equipment.

# accessories

## Remote Controller

The Raypak pool and spa heater remote controller can be either surface or flush mounted, indoor or outdoors. By installing the remote control inside your house you do not have to go outside to operate your heater or check the water temperature. Easy to use push button controls make adjustment of temperature simple and allows for separate temperature settings for your pool and spa. In addition, the remote is capable of communication with the Raypak Equipment Interface Box for control of other pool, spa, or landscaping equipment, such as pool or garden lights and water features.



## Equipment Interface Box (EIB)

The Raypak EIB is an electrical connection centre that enables auxiliary landscaping equipment such as pool lights, garden lights, water features, etc. to be controlled via the heater controller or Raypak Remote. Auxiliary equipment does not need to be associated with the pool or spa and so the connection capabilities are enormous. Equipment connected to the EIB can either be programmed to operate automatically or manually via the Raypak heater or Remote controller.

## Flow Switch Kits

A Raypak flow switch is required when the location of the heater is either 1.0-meter higher or lower than the pool water surface. The pressure switch supplied with the pool heater may not operate correctly under these conditions. The flow switch is also an ideal secondary safety system that can be installed to protect your pool heater.



## Dilution Fans

Dilution Fans (also referred to as Power Flues) are sometimes required for indoor or outdoor installations where there is no natural way of controlling venting of flue gas to a safe location or where there are high wind speeds or highly variable air pressures. The Raypak dilution fan can provide an option when the normal flueing of the heater is not achievable or may be visually obtrusive. The standard 6mVA fan is suitable for use with the standard domestic and premium range pool heater. Larger dilution fans are available upon request.

## High Wind Top Kits

In some areas where high winds are frequently experienced it may be necessary to install a Raypak High Wind Top. Installation of the High Wind Top will assist proper flueing of the heater and improve operation. High wind tops are available for all models except the Spartan 131, Premium 127 and 167.

## Indoor Hood Kits

All Raypak pool and spa heaters are built standard for outdoor installation. If the installation location is in a plant room an indoor flue kit is available as an option to convert the standard outdoor model to an indoor model. Heaters installed indoors must never operate in the standard outdoor configuration.



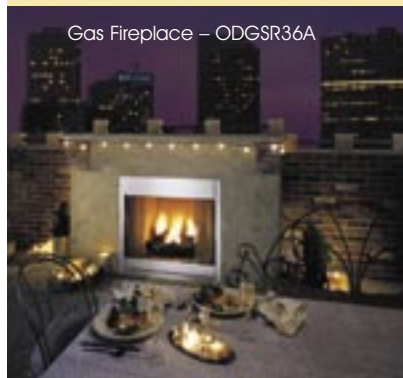
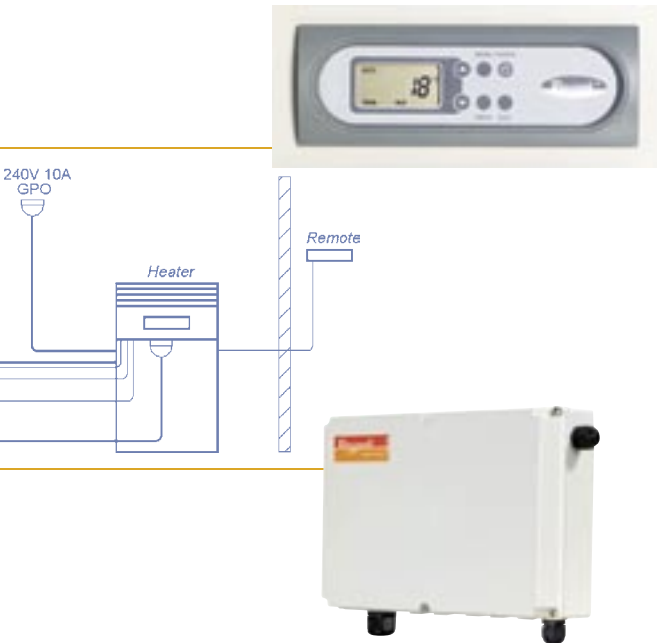
## Other Raypak Outdoor Living Products...

### "Ignite your senses" with Raypak Al Fresco Outdoor Fireplaces

The Raypak outdoor fireplaces with full firebox openings, stainless steel construction and great looks will turn any deck, patio, outside bar, rooftop or terrace into a beautiful retreat.

The Al Fresco series tops its sector of the outdoor market offering flexibility of a gas or wood fireplace. The wood model could also be used indoors for that touch of classy comfort anywhere you want it.

This is a fireplace that will have them trekking in from miles away at your next pool party or barbecue. And it will give you ambience and romance throughout the evening long after the "end of the season".



Gas Fireplace – ODGSR36A



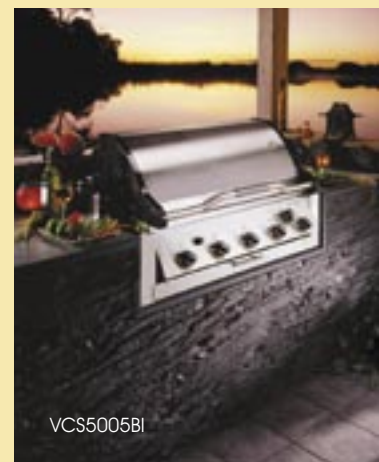
Wood Fireplace – ODSR36A



### Raypak Outdoor Kitchen creates the Al Fresco Oasis

Create your unique outdoor kitchen with a Raypak Vermont built-in gas barbecue.

The VCS5005BI provides the ultimate outdoor cooking experience. An awesome grill that delivers truly delicious barbecue flavour and constructed mainly of sleek stainless steel with black cast iron end caps.



VCS5005BI

For more detailed information on any of the Raypak equipment, please call Raypak to discuss your specific requirements.

## Warranty

	Parts	Labour
<b>Residential Pool &amp; Spa Heaters...</b>		
installed for use in a single-family dwelling	<b>3 Year</b>	<b>1 Year</b>
<b>Residential Pool &amp; Spa Heaters...</b>		
installed for use in a multiple-family dwelling or commercial type installation	<b>6 month</b>	<b>6 month</b>
<b>Premium Pool &amp; Spa Heaters...</b>		
installed in all pool and spa heating applications	<b>3 year</b>	<b>1 year</b>
<b>Heat Pump...</b>		
installed in all pool and spa heating applications	<b>5 year limited warranty</b>	<b>1 year</b>
<b>Accessories...</b>		
	<b>1 year</b>	<b>0</b>



**HEAD OFFICE & SALES:** **Raypak Australia Pty Ltd** ABN 65 078 743 414  
 39 Koorng Rd Scoresby Vic 3179  
 Sales enquiries: 1 300 729 725  
 Office Phone: 03 9757 3333  
 Office Fax: 03 9757 3350  
 www.raypak.com.au



**NATIONAL SERVICE:** **131 031**

<b>SERVICE &amp; SPARES:</b>	<b>Qld</b>	<b>Syd/Canb</b>	<b>Newc</b>	<b>Vic</b>	<b>SA</b>	<b>WA</b>
<b>Service</b> Phone:	07 3213 0100	02 9684 9280	02 4961 3515	03 9212 8900	08 8343 0000	08 9351 4238
Fax:	07 3213 0154	02 9684 9188	02 4961 3117	03 9212 8955	08 8359 6002	08 9353 4101
<b>Spares</b> Phone:	07 3213 0102	02 9684 9282	02 4961 3515	03 9212 8911	08 8359 0044	08 9351 4290
Fax:	07 3213 0154	02 9684 9188	02 4961 3117	03 9212 8984	08 8359 6003	08 9356 9914



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Other Raypak products include: Domestic Hydronic Heating and Space Heating

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