



## Domusa Dual Clima HT Heat Pump

Domusa's 16kW high-temperature heat pump is a compact, eco-friendly design using natural R290 refrigerant. Benefits of R290 are a low Global Warming Potential (GWP) of just 3, reduced refrigerant charge volume by 50% and operating at lower discharge pressures, results in longer internal component life. The Domusa Dual Clima HT can produce up to 75°C flow temperatures making it a great solution for boiler retro fits and radiator installations. Operating at lower flow temperatures for use with underfloor offers even greater gains of efficiency. Paired with an indirect HWC for DHW production the Domusa can produce up to 70°C, covering 100% of your DHW production with no need to use an electric element for anti-legionella protection.

## **Key Highlights**

## R290 Refrigerant

- Natural and non-toxic
- High thermal conductivity compared to other refrigerants
- Smaller charge volumes
- Low GWP

## Heating Temperatures Up To 75°C

- Optimal for boiler replacements
- Greater efficiency gained at standard flow temperatures

### DHW Temperatures Up To 75°C

• Removes the need to use an electric element for anti-legionella protection

### Controller

- Colour touch screen
- Intuitive diagnostics area
- Simple to use and navigate

### True Monobloc Design

• Factory fitted PRV, AAV, expansion vessel and pressure gauge

It's control interface is a simple yet intuitive color touch screen that enables easy adjustment of setpoints and functionality. The diagnostics screen offers an in depth, real time view of the systems current status making it a vital tool for advanced service and dignostics. Access to advanced parameters is made easy for commissioning and set up of the heat pump. With the ability to operate in ambient conditions as low as -20°C, it combines efficiency, and a environmental friendly hydrocarbon refrigerant in a true Monobloc design, making it ideal for replacing older heat sources.



## 16kW Capacity

• COP of 4.69 @ 35/30/7°C

### Compact

- Most compact 16kW, R290 heat pump on the New Zealand market
- Low minimum unit clearance requirements

### Accessories

- Every heat pump is supplied with a deaerator to align with guidelines for the safe use of hydrocarbon refrigerants
- Controller mounting box for surface mounting
- Anti-vibration feet
- 5m DHW Probe (5K NTC)
- <sup>1</sup>/<sub>2</sub>" Drain valve
- Condensate drain fitting
- Heat pump controller

# Reducing Global Warming Potential with R290 Refrigerant

What is Global Warming Potential (**GWP**)? **GWP** is a measure of how much infrared thermal radiation a greenhouse gas like the refrigerants used in heat pumps, would absorb over a given time frame after being released into the atmosphere.



## **Clearances and Recommendations**

Basic minimum clearances Central Heating New Zealand require to be observed. Certain installations with enclosed areas may require larger clearances. See Installation manual for more detail.





The higher the **GWP**, the more heat retained in our atmosphere, contributing to global warming. The use of natural refrigerants such R290 dramatically reduces this affect.







#### HPKANTVIBR

It is recommended that the heat pump be mounted on anti-vibration mounting feet, a minimum of 80mm off the ground. This will allow for correct air flow around the unit and prevent dirt and leaf debris building up at the base of the finned heat exchanger. Antivibration feet allows each corner of the heat pump to be adjusted for installations on uneven ground and includes fasteners.

Fix-it-foot style mounts can be sourced from local suppliers if this is preferred. These don't include fixings and are not designed to be fastened to the ground.

## **Specifications**

Model	HPDDC16
Heating	
Capacity [kW]	16
Power Input [kW]	3.41
COP	4.69
Cooling	
Capacity [kW]	14.85
Power Input [kW]	3.97
Power Supply	230VAC Single Phase
Max Current Draw	27A
Hydronic Connection Port Size	1 1/4″
Minimum System Water Volume	60L
Minimum System Flow Rate	20L/min
Dimensions & Weight (NET)	
Height [mm]	1,320
Width [mm]	1,115
Depth [mm]	415
Weight [kg]	175
Noise	
Sound Power dB(A)	48



HPDDC16

## **Dimensions and Fitting Kit**





