



Specialists in fireplace design and manufacture

C900 INSERT POWERED DUCT SYSTEM



IMPORTANT:

INSTALLER, PLEASE LEAVE THESE INSTRUCTIONS WITH THE UNIT UPON COMPLETION

This document contains important information on the C900 duct system, its components, installation procedure and wiring, as well as explaining how the system works in a normal environment and how to operate it for best performance.



PLEASE READ THIS MANUAL THOROUGHLY FAILURE TO DO SO MAY RESULT IN AN EXTREME FIRE HAZARD

- All components used for the ducting system must be **NON-COMBUSTIBLE**
- Standard gas ducted heating duct and registers are **STRICTLY PROHIBITED**

PLEASE NOTE:

- The Power Duct Fan is tested as per Report ASFT 16049, and cannot be used on any other appliance other than the KEMLAN C900
- **The C900 Duct System must only be installed by a licensed ducted heating specialist**

C900 Insert Powered Duct System

The C900 powered duct system uses a 280CFM variable speed fan (1) that has the ability to be run with the fan either on or off whilst the fire is in operation. It must be installed to AS 4254.1-2012 'Ductwork (2) or air-handling systems in buildings Flexible Duct 'compliance.

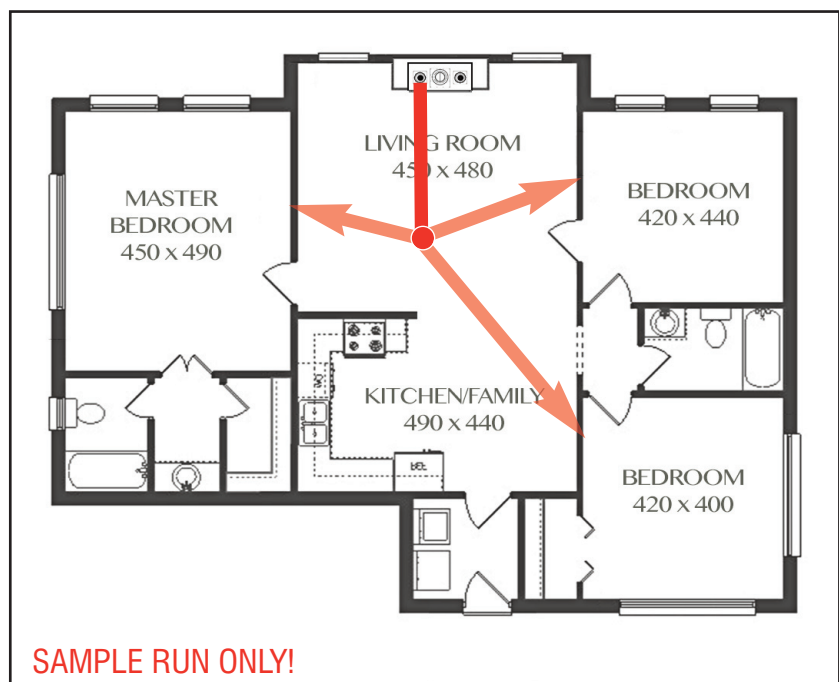
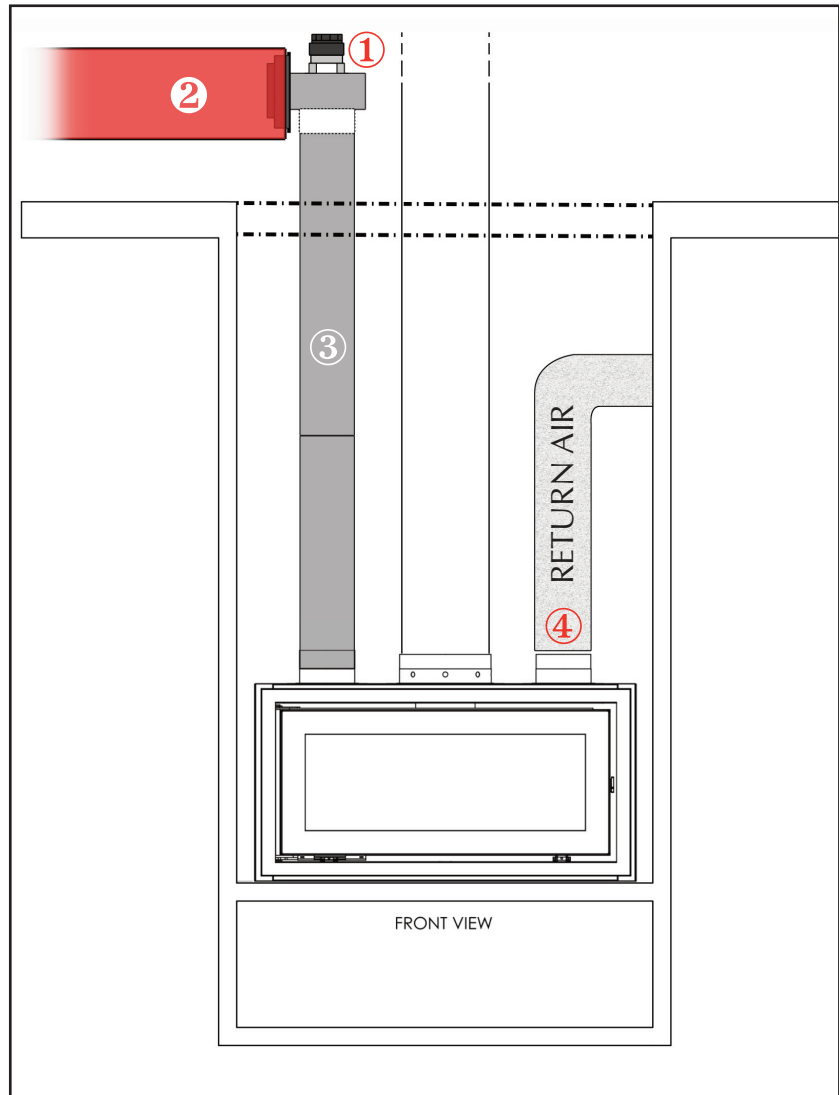
The fan connects to the C900 duct outlet via rigid 150mm stainless flue (3) on ONE of the duct outlets.

The stainless flue usually comes in 900mm lengths and should be run to above the normal ceiling height to enable a clear duct run. This also enables an appropriate amount of natural convection airflow when the vent motor is switched off.

The rigid flue must be joined with either 10mm self tapping screws or pop rivets (not supplied) and braced appropriately. The fan must also be secured to the 150mm flue with either screws or pop rivets.

The 2nd duct outlet (4) must have the cap removed and the supplied section of single skin flexible duct connected as per metal framing information section of the unit install manual.

This flexible duct acts as the return air for the powered duct system to balance the volume of air pulled from the unit. If this is not run, it can pull carbon monoxide (smoke) from the unit and potentially distribute this smoke throughout the duct system from this unit.



C900 Insert Powered Duct System

Electrical

The fan comes fitted with approximately 7 metres of wire to a junction box, where two wires come from it. One for the power lead (240V) to be put into a plug base in the ceiling cavity and the other for the speed control which will need to be manually connected to the switch by a licensed electrician. This speed controller can be mounted in a location suitable within the reach of the cable.

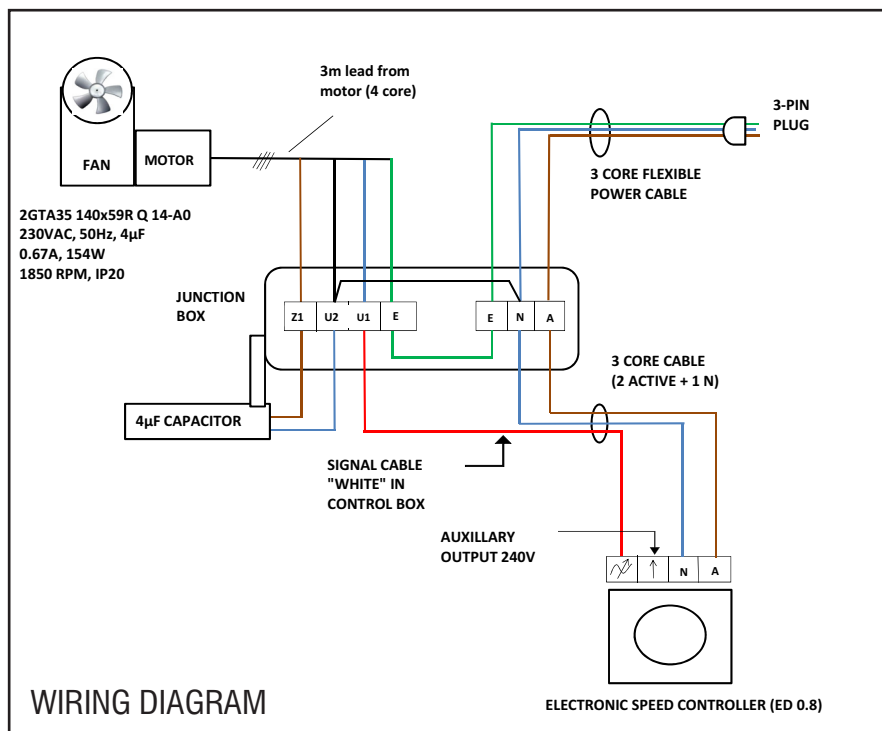
Ducting components must consist of the following:

- The 4-Zero insulated flexible ducting which offers a fire rated grade. Both the inner core and outer sleeves are aluminium/polyester laminated composition. The core is supported with a coated helix wire spring which is secured with a solvent based adhesive and surrounded by polyester insulation.
- Metal registers/outlets
- Metal joiners and fittings

It is important that all fittings are non-combustible. Note that plastic/poly fittings are not suitable due to the high temperatures.

Clearance to combustibles from the fan motor is 300mm in all directions. If blow-in insulation is being used in the roof cavity, the fan must be appropriately encased by an extra ventilated outer casing to ensure minimum clearances are met.

The fan outlet connection is 200mm from factory. Using the metal Y-fittings, the duct run can be split and reduced to 150mm to have an optimum duct length of 12 metres per outlet from the fan motor. It is important to correctly size up the ducting with a ducted heating specialist as these limits and sizes are general in nature. There are many different configurations possible including increasing the starting collar to 250mm using a reversed 200mm – 250mm reducer and running a 3rd 150mm outlet off another Branch Take Off (BTO).



Operation

- Avoid turning the fan on during the first 30 minutes after lighting the unit, in order to allow sufficient time for the unit to heat up properly
- The fan speed can be adjusted to the desired airflow and heat requirements



Vic/Tas: 444 Swan Street, Richmond, 3132
Phone: 1300 219 875
Email: info@jetmastervic.com.au
Website: jetmastervic.com.au