

## COMBIPACK TM

Consumer Interface Units (CIU) for Energy Saving Heating Systems

### INTRODUCTION

GRE's range of  $COMBIPACK^{TM}$  Consumer Interface Units simplify the installation of a variety of heating systems by combining much of the required plumbing onto a neat, factory made assembly

#### Applications include:

- District Heating schemes
- Heat Pumps
- Biomass heating systems
- Heat distribution from a Thermal Store

## The COMBIPACK™ range is fully flexible, offering:

- Direct or indirect heating circuit
- Open-vented or Unvented systems
- Retrofittable (models up to 50kW fit into the space of a domestic condensing boiler)
- Optional indirect domestic hot water circuit with temperature regulation
- Optional pressurisation kit & circulation pumps
- Copper or Stainless steel pipework
- Connections from the top or bottom

#### Further Benefits Include:

- Designed and Manufactured in the UK
- Fully customisable contact us with your requirements.



With Cover Fitted

150kW Heating Only Unit



Example installation: Open vented system with domestic hot water

(Cover plate removed for photo)



50kW with pressurisation kit and pump



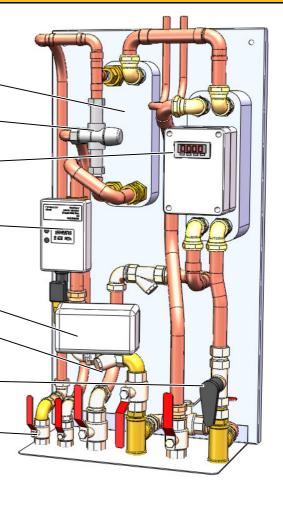
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#### **KEY FEATURES**

All GRE *COMBIPACK* units carry the following features:

- High efficiency Stainless steel heat exchanger(s)
- **Thermostatic regulating valve** to prevent overtemperature (Direct Hot Water Units Only)
- **Electronic Thermostat** plus internal wiring to control operation of heating valve & pump
- Heat meter with digital LCD display conforming to class 2 EN1434 & measurement instrument directive
- Copper pipework
- **Electrically-actuated valve** on primary circuit to prevent unnecessary energy use
- Water filter(s) and isolating valves on all circuits
- Commissioning valve to balance flow rate onprimary circuit
- Galvanised steel Framework
- Cover panel, painted and hard-cured for resilience and an attractive overall appearance (pictured below)



#### **OPTIONS**

- Stainless Steel Pipework if copper is unsuitable
- Indirect hot water heating (shown above)
- Ambient Setpoint Correction run your heating system at the lowest possible temperature to minimise fuel use
- Flushing Bypass on primary circuit for much quicker system commissioning
- Pumps and pressurisation kit for unvented systems
- Cost effective 'base' model without cover plate



With cover panel fitted

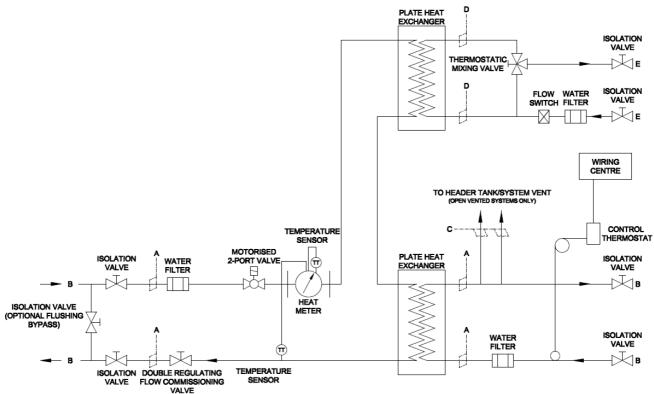


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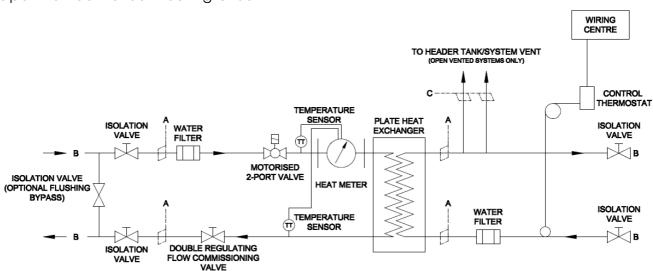
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#### TYPICAL SYSTEM SCHEMATICS

Open-vented Heating Circuit, with indirect domestic hot water heating



Open-vented indirect Heating Circuit





Depth



## COMBIPACK TM

# Consumer Interface Units (CIU) for Energy Saving Heating Systems

300 mm

360 mm

360 mm

TECHNICAL DATA							
Model	Combipack20	Combipack30	Combipack40	Combipack50	Combipack75	Combipack 100	Combipack 150
Heating capacity <sup>1</sup>	20 kW	30 kW	40 kW	50 kW	75 kW	100 kW	150 kW
Dimensions							
Height	900 mm			900 mm	1100 mm	1100 mm	
Width	480 mm			530 mm	800 mm	800 mm	

Water Connections					
Primary Pipe Size	Ø22mm	Ø28mm	Ø35mm	Ø42mm	Ø54mm
Primary Circuit Connection Size <sup>2</sup>	3/4" BSP	1" BSP	1¼" BSP	1½" BSP	2" BSP
Secondary Pipe Size	Ø22mm	Ø28mm	Ø35mm	Ø42mm	Ø54mm
Secondary Circuit Connection Size <sup>2</sup>	3/4" BSP	1" BSP	1¼" BSP	1½" BSP	2" BSP
All Fill & Vent Connections <sup>2</sup>	1/2" BSP				

300 mm

Maximum Temperature	90°C
Maximum Operating Pressure	6 barg
Maximum Test Pressure	10 barg

Electrical Supply 230V / 1Ph / 50Hz
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Options					
Hot Water Capacity <sup>3</sup>	55kW				
Hot Water Flow Rate <sup>3</sup>	21 Litres / min				
Heating Circuit Pump	15/50	15/60	Selected to suit system - contact GRE		
Expansion Vessel	10L	12L	Selected to suit system - contact GRE		

<sup>&</sup>lt;sup>1</sup> - Heating capacity with primary water Flow/Return 80/65°C, Heating Circuit Flow/Return 55/65°C

<sup>&</sup>lt;sup>2</sup> - All Female BSP Connections

<sup>&</sup>lt;sup>3</sup> - Hot Water Heating capacity with primary water Flow/Return 80/65°C, Hot Water Incoming/Outgoing 10/48°C