

The CMRU is a versatile heating system; it can be easily configured for domestic hot water, radiant heating, and forced air applications using fan coils. The unit is designed to efficiently supply an indirect fired hot water tank as a priority, while still satisfying the heating requirements of the home. With an Energy Star rating and B-Vent compatibility, the CMRU is ideal for residential and small commercial retrofit applications.

The CMRU is compact and designed to be hung on the wall. It has integrated internal components, simplified wiring and onboard controls for ease of installation.

For more information

1.866.924.2663 or sales@conematic.com
www.conematic.com



Take Control of
Your Comfort



Lower
Energy Bills

Savings of up to 35% per month

The CMRU's intelligent management of hot water and space heating, results in high efficiency and *reduced energy consumption*.



Living
Comfortably

Feel the difference

The CMRU's Intelligent Control monitors outside conditions, interprets the home's heating & hot water requirements and *optimizes the system accordingly*. Now the temperature stays consistent throughout the home regardless of outdoor temperature changes.



Green House
Gas Reduction

1.5+ tonnes annual reduction per unit

The average home produces six tonnes of green-house gas emissions annually. With the CMRU you can reduce your footprint by *over 25%* per year.



Increased
System Lifespan

Reliable performance

All of our heating products utilize the world's most reliable, *proven technologies*.

Applications

B-Vent Retrofits (Vent Damper Incl.)

- 1 Any 1 Temp. Application
- 2 Domestic Hot Water & Low Temp.¹
- 3 Domestic Hot Water & High Temp.²

Note: Glycol applications not recommended but allowed w/Conematic Glycol

- 1 Priority Diverting Valve w/Wiring Harness
- 2 Priority Diverting Valve w/Wiring Harness & Relay for Fan Coils
- 3 Caleffi 1-4 Zone Manifold
- 4 Power Vent Kit for Side Discharge

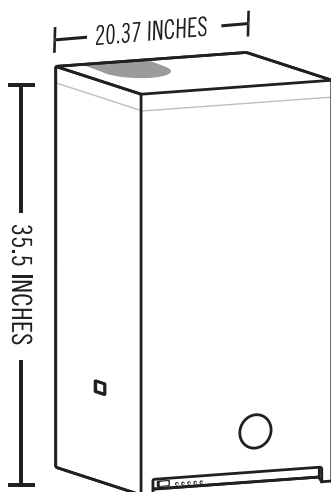
¹ Requires a priority diverter valve & wiring harness

² Requires a priority diverter valve with fan delay for fan coil applications

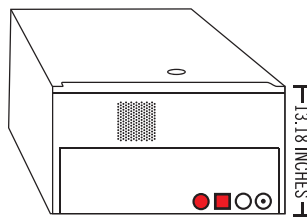
Detailed Specifications

CMRU

Fuel	Natural Gas	Propane
Input	53,000 BTU / 15.52 KW	52,210 BTU / 15.3 KW
Output	43,460 BTU / 12.73 KW	42,460 BTU / 12.44 KW
AFUE	85.1	
Electrical - Single Phase	120 V / 60 Hz / 12 amp (Max. Draw)	
Min. Gas Supply Pressure	5.9 WC / 1.47 kPa	11 WC / 2.74 kPa
Max. Gas Supply Pressure	9 WC / 2.24 kPa	13 WC / 3.24 kPa
Manifold Pressure	4.9 WC / 1.22 kPa	10.5 WC / 2.62 kPa
Max. Operating Temperature	190°F / 88°C	
Boiler Max. Operating Pressure	30 psi / 2.07 bar	
Boiler High Limit Set Points	Low Temp. Application	135°F / 85°C (Factory Set)
	High Temp. Application	185°F / 85°C
Outdoor Reset	Factory Set	-10°F / -23°C
Connections	Primary Supply	1/2" (12 mm) NPTF
	Primary Return	1/2" (2 mm) NPTF
	Boiler Relief Valve	3/4" (18 mm) NPTF
Gas Connection	1/2" (12 mm) NPTF	
Vent Connection	4" (102 mm) Draft Hood Connection	
Appliance Dimensions (D x H x W)	13.18 inch X 35.5 inch X 20.37 inch 335 mm X 902 mm X 518 mm	
Appliance Weight	94 Lbs / 42 Kg	
System Pump	Grunfos UP15-58B7	5 GPM @ 15 ft
Clearances for Combustible Materials - must have 24 inch (610 mm) service access	Left / Right	3 inches / 76 mm
	Back	0 inches / 0 mm
	Bottom / Top	18 inches / 457 mm
	Front	6 inches / 152 mm



Connections



- System Supply
- System Return
- Pressure Release Valve
- ⊙ Fill/Drain

Warranty

Limited Lifetime Warranty on the Pressure Vessel.
Limited 1 Year Warranty on Standard Equipment.

Applications

Low Temperature (Factory Set)

In-Slab (recommended)
Set point of 135°F-90°F with outdoor reset

High Temperature (Optional)

Fan Coils
Set point of 190°F-120°F with outdoor reset
Radiators & In-joist
Set point of 170°F-100°F with outdoor reset

Domestic Hot Water (With Diverter Valve)

Domestic priority for hot water supply
Storage tank sizes 19-80 US gal.
Note: domestic hot water can be added to both low & high temperature applications.