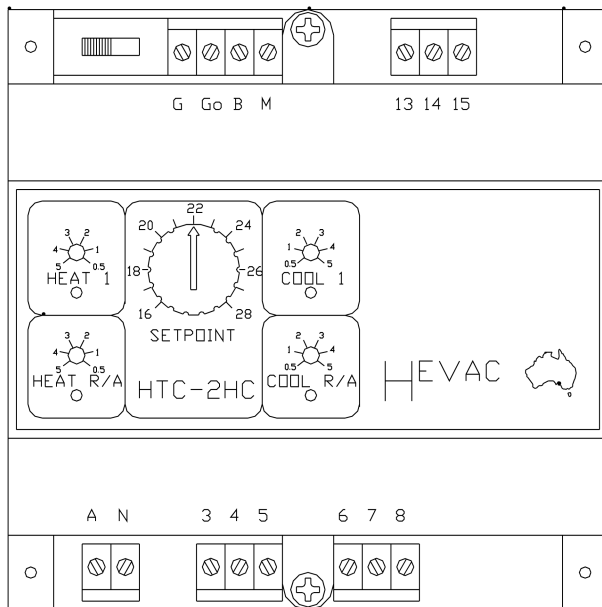


HTC SERIES



Dual Voltage
Enabled Controller ®



HTC- 2HC


**1 HEAT/1 COOL
CONTROLLER with
MODULATING HEATING and
COOLING OUTPUTS**

*The **HTC-2HC** temperature controller is primarily designed for the control of 1 Heat and 1Cool air-conditioning units, and also incorporates a heating and cooling 0-10 VDC modulating output.*

These outputs can be used to modulate either hot water or chill water valves.

*The **HTC-2HC** controller is ideally suited for DIN rail mounting in a switchboard, or directly inside the A/C unit if required.*

Features

- ☐ Australian made and designed.
- ☐ Power Supply can be either 24v or 240v A.C 
- ☐ 10 AMP (resistive) Potential free relay contacts.
- ☐ L.E.D Indication of all outputs.
- ☐ Various remote sensor options available.
- ☐ Mounts in most M.C.B enclosures.
- ☐ Modulating 0-10 VDC Heating and Cooling outputs.



**AUTOMATED
BUILDING
SOLUTIONS**

5 Phillips Street Thebarton SA 5031

ph : (08) 82442844 fax (08) 82442955

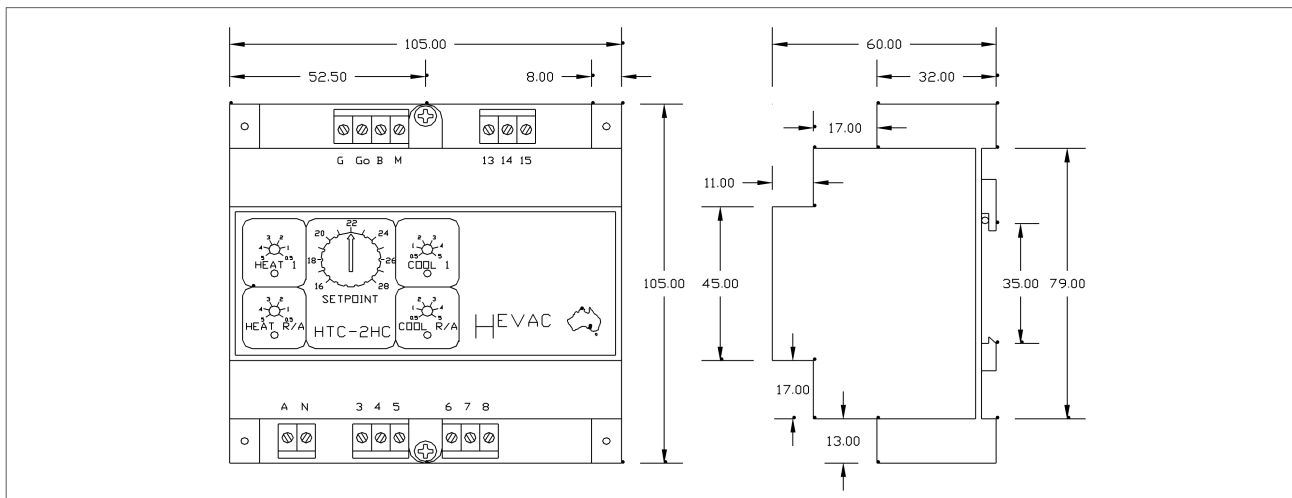
sales@automatedcontrols.com.au

HTC-2HC Technical Specifications

Power supply	24VAC or 240VAC
Power consumption 240 volts	7 VA
Power consumption 24 volts	1 VA
Modulating Heating and Cooling output	0-10 VDC from Setpoint
Modulating Heating & Cooling Proportional Band	1.0 Degrees Celsius
Heating and Cooling relay outputs	240VAC 10 amp resistive, 3 amp inductive
Temperature range	16 to 28 Degrees Centigrade
Switching differential for STAGE 1 Heat & Cool	0.3 Degrees Centigrade
Stage start point adjustment range	0.5 to 5.0 Degrees Centigrade
Output indication	Green LED for Cooling Red LED for Heating
(Intensity of LED varies with the Signal Output)	Green LED for 0-10VDC Cooling Red LED for 0-10VDC Heating
Mounting method	35mm DIN rail (Not supplied)

Dimensions

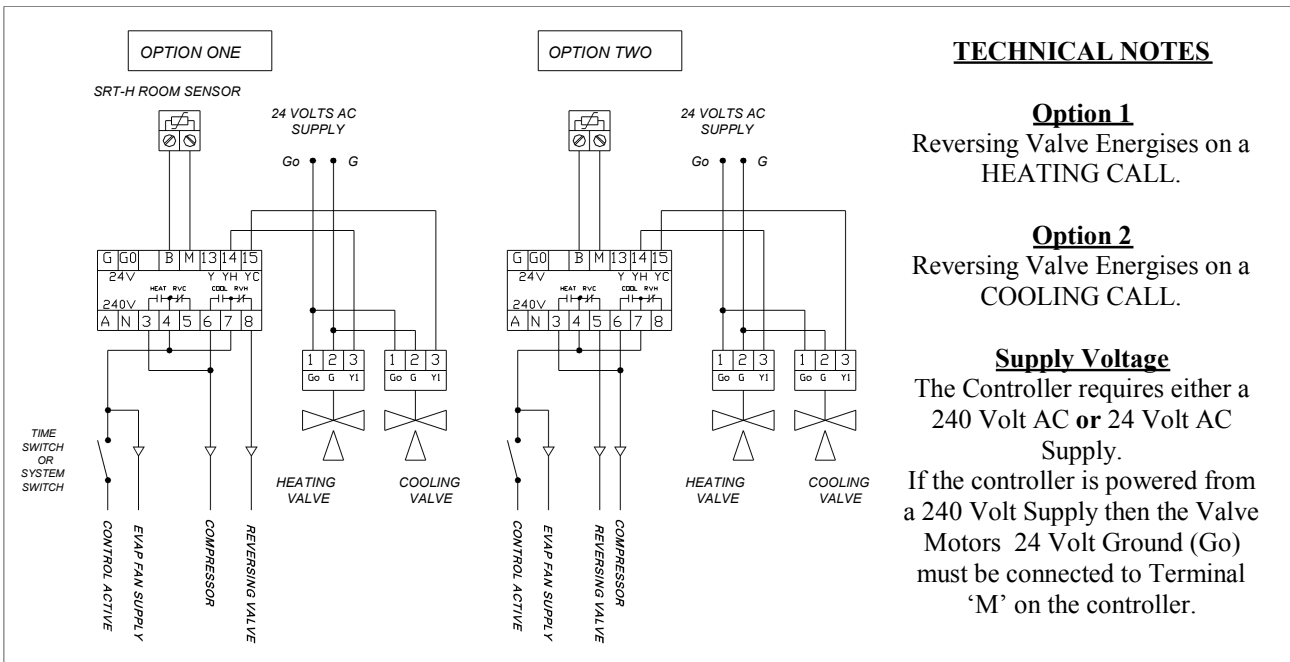
ALL DIMENSIONS IN MILLIMETRES



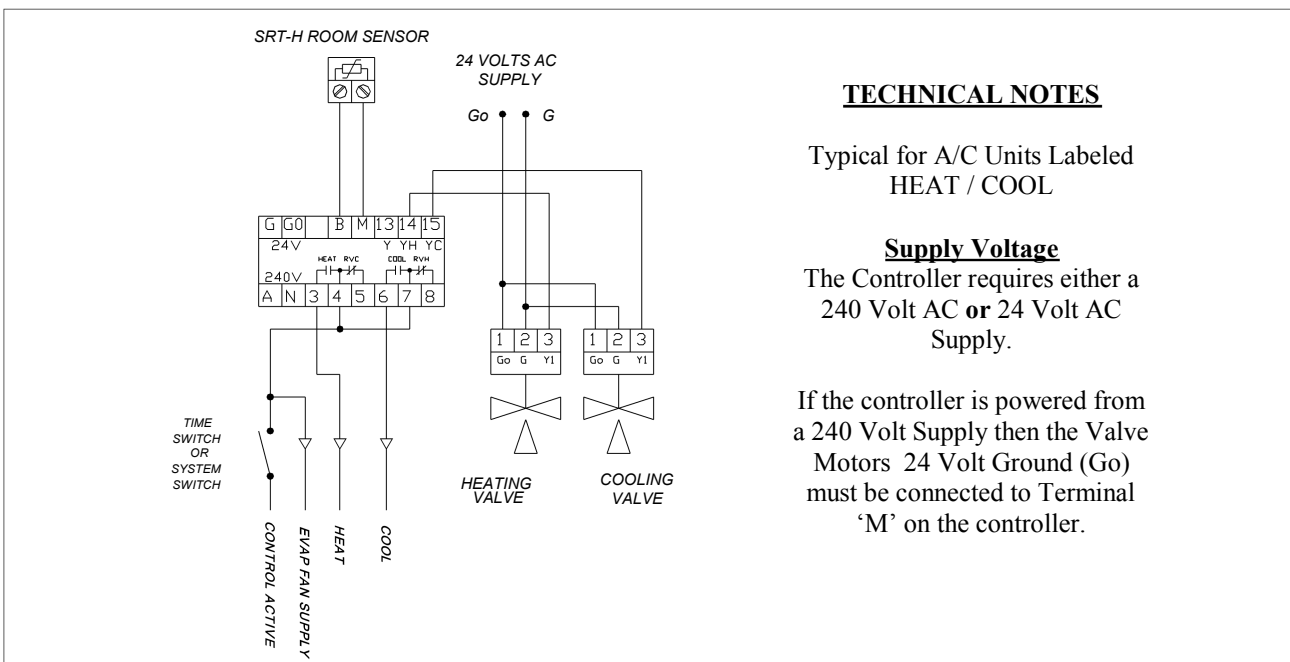
Terminal Designations

G	24 VOLT AC SUPPLY ACTIVE	A & N	240 VOLT AC SUPPLY
Go	24 VOLT AC SUPPLY GROUND REFERENCE	3	HEATING STAGE 1 OUTPUT
B	SENSOR INPUT	4	(HEATING STAGE 1 & R/V FOR COOL) COMMON
M	SENSOR INPUT COMMON	5	REVERSING VALVE FOR COOLING OUTPUT
13	Y SIGNAL	6	COOLING STAGE 1 OUTPUT
14	0-10VDC HEATING OUTPUT	7	(COOLING STAGE 1 & R/V FOR HEAT) COMMON
15	0-10VDC COOLING OUTPUT	8	REVERSING VALVE FOR HEATING OUTPUT

HTC-2HC for Compressor Reversing Valve A/C Units & Heating/Cooling Valves



Electrical Schematic for Heat / Cool Type A/C Units & Heating/Cooling Valves



Quick Test Information

All HEVAC Controllers are Factory Calibrated and Pre-set to Industry Standard Defaults prior to dispatch. If you require further information on these Settings please Refer to the Technical Specifications Page.

To quickly confirm that a controller is wired to the correct sensor and to TEST for Heating & Cooling Changeover the following procedure can be carried out.

- STEP 1: Dial setpoint up or down until you do not have a Heating or Cooling call. (ie Deadband Position)
- STEP 2: Open circuit the sensor wires at the Sensor. The controller should go into full COOLING Mode.
- STEP 3: Short circuit the sensor wires at the Sensor. The controller should go into full HEATING Mode.

