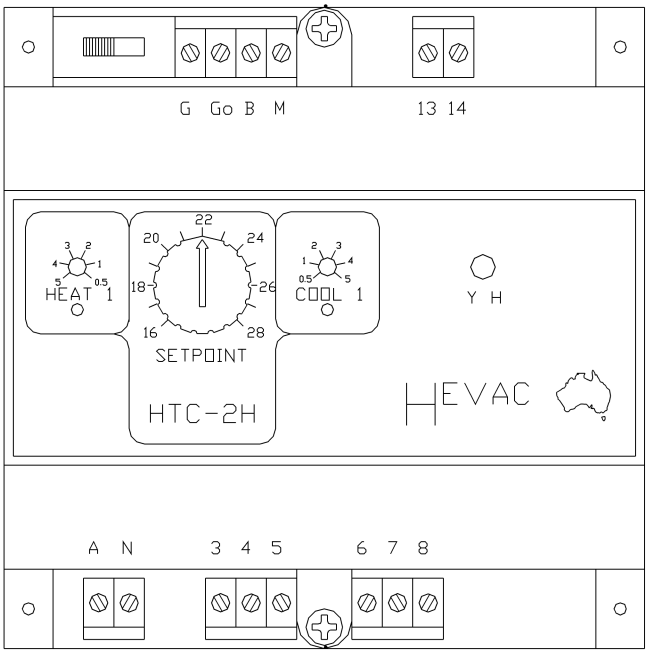
HTC SERIES

dVe Dual Voltage Enabled Controller ®



HTC- 2H

1 HEAT/1 COOL CONTROLLER with MODULATING HEATING OUTPUT

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

This output can be used to modulate either a hot water valve or an electric element current valve.

*The **HTC-2H** 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 dVe®
- ☐ 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 output.

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HTC-2H

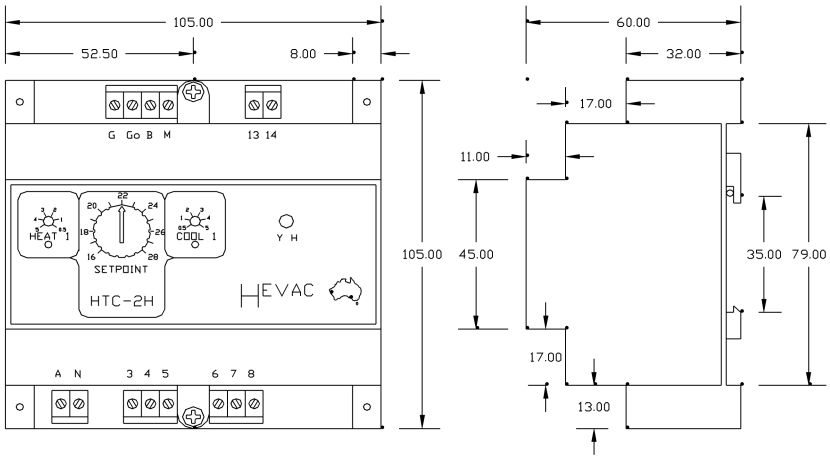
HEVAC CONTROLS

HTC-2H Technical Specifications

Power supply	*24VAC or 240VAC*
Power consumption 240 volts	*7 VA*
Power consumption 24 volts	*1 VA*
Modulating Heating output	*0-10 VDC from Setpoint*
Modulating Heating output 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 Heating Stage	*0.3 Degrees Centigrade*
Switching differential for Cooling Stage	*0.3 Degrees Centigrade*
Stage start point adjustment range for relays	*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)	*Red LED for 0-10VDC Heating Output*
Mounting method	*35mm DIN rail (Not supplied)*

Dimensions

ALL DIMENSIONS IN MILLIMETRES



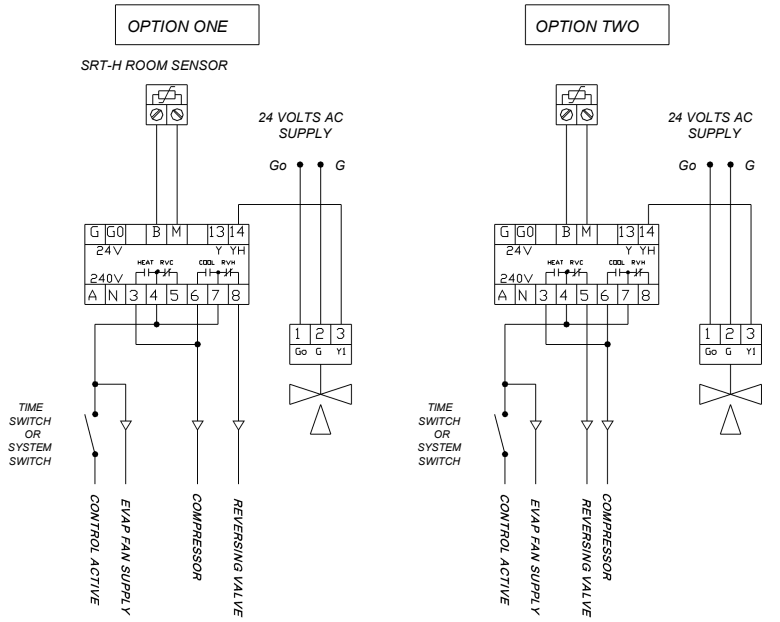
Terminal Designations

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
		8	REVERSING VALVE FOR HEATING OUTPUT

HTC-2H

HEVAC CONTROLS

HTC-2H for Compressor Reversing Valve Type A/C Units with Heating Valve



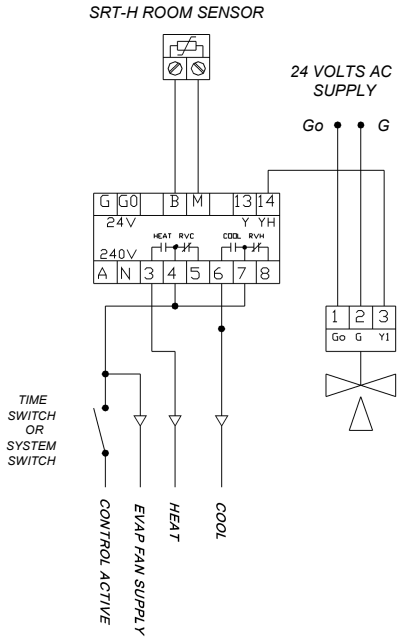
TECHNICAL NOTES

Option 1
Reversing Valve Energises on a HEATING CALL.

Option 2
Reversing Valve Energises on a COOLING CALL.

Supply Voltage
The Controller requires either a 240 Volt AC **or** 24 Volt AC Supply.
If the controller is powered from a 240 Volt Supply then the Valve Motor 24 Volt Ground (Go) must be connected to Terminal 'M' on the controller.

Electrical Schematic for Heat / Cool Type A/C Units with Heating Valve



TECHNICAL NOTES

Typical for A/C Units Labeled HEAT / COOL

Supply Voltage
The Controller requires either a 240 Volt AC **or** 24 Volt AC Supply.

If the controller is powered from a 240 Volt Supply then the Valve Motor 24 Volt Ground (Go) must be connected to Terminal 'M' on the controller.

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.