HTC SERIES

dVe Dual Voltage Enabled Controller ®

HTC- 4

2 HEAT/2 COOL TEMPERATURE CONTROLLER

*The **HTC-4** temperature controller is primarily designed for the control of 2 Heat and 2 Cool air-conditioning units.*

All output relays are voltage free, permitting use on either 240 V or 24 Volt circuitry.

Stage switch on points are individually adjustable with their ON/OFF status displayed via LED indicators.

*The **HTC-4** 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.
- ☐ Compatibility to package AC units and Heat Pumps.

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HTC-4

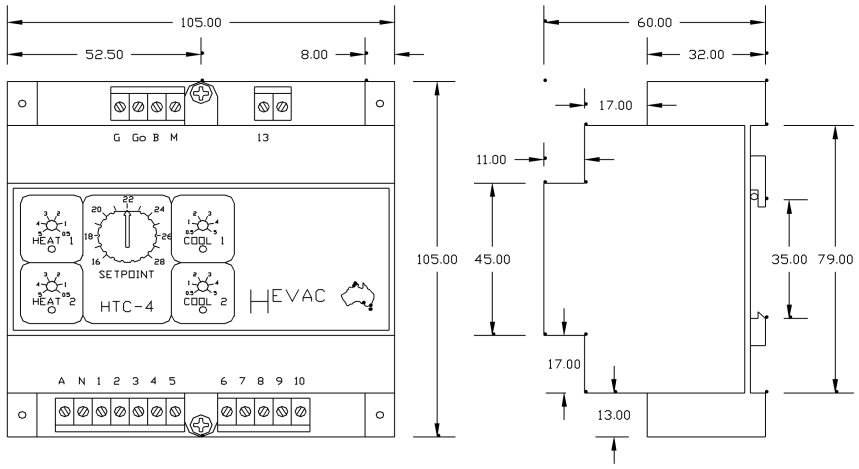
HEVAC CONTROLS

HTC-4 Technical Specifications

Power supply	*24VAC or 240VAC*
Power consumption 240 volts	*7 VA*
Power consumption 24 volts	*1 VA*
Heating and Cooling relay outputs	*240VAC 10 amp resistive* *3 amp inductive*
Temperature range (Factory Set to 22oC)	*16 to 28 Degrees Centigrade*
Switching differential for STAGE 1	*0.3 Degrees Centigrade (NON-Adjustable)*
Switching differential for STAGE 2	*0.7 Degrees Centigrade (NON-Adjustable)*
Stage start point adjustment range	*0.5 to 5.0 Degrees Celsius (From Setpoint)*
Stage start point (Factory Settings)	*Stage 1= 1.0 oC Stage 2= 2.0 oC*
Output indication	*Green LED for Cooling* *Red LED for Heating*
Mounting method	*35mm DIN rail (Not supplied)*

Dimensions

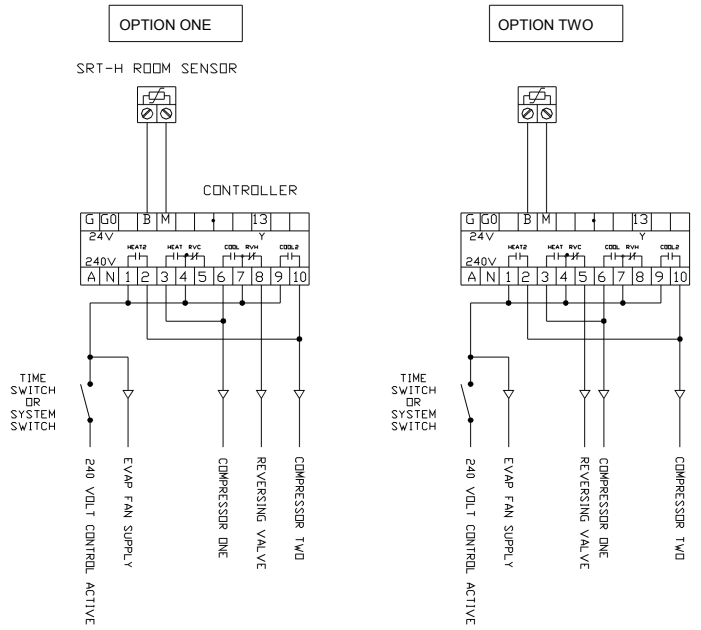
ALL DIMENSIONS IN MILLIMETERS



Terminal Designations

G	24 VOLT AC SUPPLY ACTIVE	**3**	HEATING STAGE 1 OUTPUT
Go	24 VOLT AC SUPPLY GROUND REFERENCE	**4**	(HEATING STAGE 1 & R/V FOR COOL) COMMON
B	SENSOR INPUT	**5**	REVERSING VALVE FOR COOLING OUTPUT
M	SENSOR INPUT COMMON	**6**	COOLING STAGE 1 OUTPUT
13	Y SIGNAL OUTPUT	**7**	(COOLING STAGE 1 & R/V FOR HEAT) COMMON
A & N	240 VOLT AC SUPPLY	**8**	REVERSING VALVE FOR HEATING OUTPUT
1	HEAT STAGE 2 COMMON	**9**	COOLING STAGE 2 COMMON
2	HEATING STAGE 2 OUTPUT	**10**	COOLING STAGE 2 OUTPUT

HTC-4 Electrical Schematics for Compressor Reversing Valve Type A/C Units



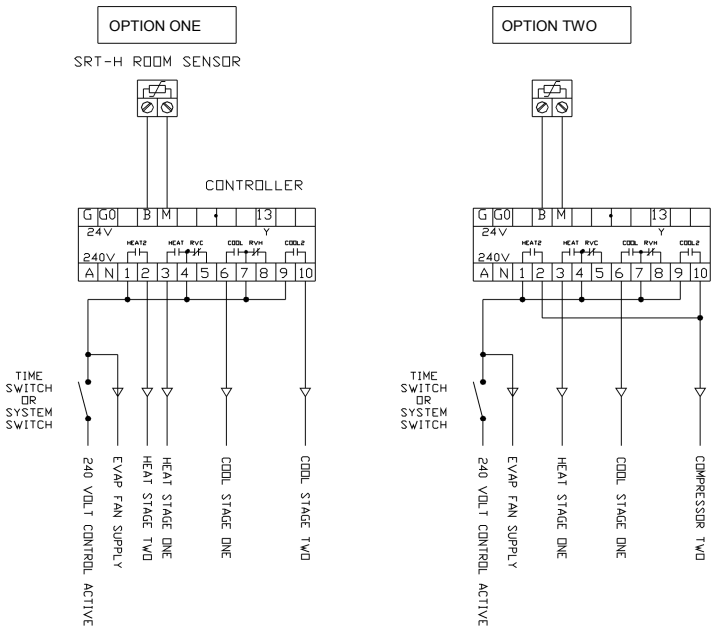
TECHNICAL NOTES
Select the option that suits the specific requirements of the Air Conditioning Unit.

Option 1
Reversing Valve Energizes on a HEATING CALL.

Option 2
Reversing Valve Energizes on a COOLING CALL.

Supply Voltage
The Controller requires either a 240 Volt AC **or** 24 Volt AC Supply.
(Use **ONE** Supply Voltage Only)

Electrical Schematics for Heat / Cool Type A/C Units



TECHNICAL NOTES
Select the option that suits the specific requirements of the Air Conditioning Unit.

Option 1
Typical for A/C Units Labeled HEAT / COOL

Option 2
Typical for A/C Units Labeled HEAT / COOL / COMPRESSOR Such as APAC Units.

Supply Voltage
The Controller requires either a 240 Volt AC **or** 24 Volt AC Supply.
(Use **ONE** Supply Voltage Only)

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 Dead band 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.