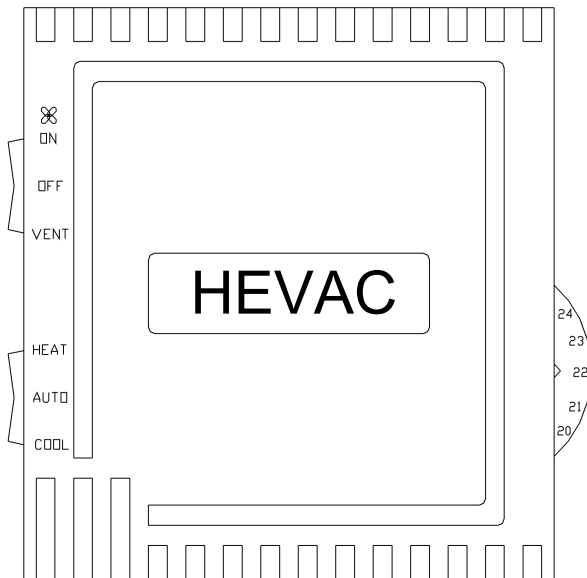


RTC SERIESDual Voltage
Enabled Controller ®


RTC3V**ELECTRONIC ROOM
THERMOSTAT**

*The **RTC3V** thermostat is an ideal replacement or alternative to mechanical thermostats, having a far superior accuracy and response time.*

*A fan control switch configured as **ON/OFF/VENT** and a mode select **HEAT/AUTO/COOL** switch is provided as standard.*

Deadband is adjustable between 2 or 3 degrees and the setpoint adjuster can be concealed or exposed.

Features

- Australian made and designed.
- Power Supply can be either 24v or 240v A.C 
- 5 AMP (Resistive) Potential free relay contacts.
- L.E.D Indication of all outputs.
- Selectable dead zone between Heat and Cool.
- Concealed or exposed setpoint adjustment.
- Compatibility to package AC units and Heat Pumps.



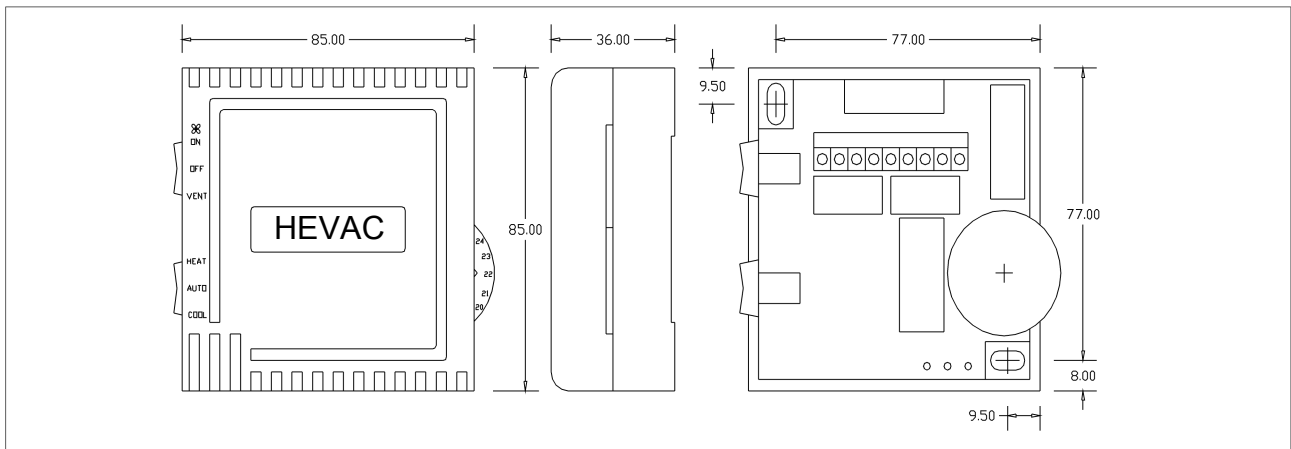
Technical Specifications

<i>Power supply</i>	<i>24VAC or 240VAC</i>
<i>Power consumption 240 volts</i>	<i>7 VA</i>
<i>Power consumption 24 volts</i>	<i>1 VA</i>
<i>Fan relay output</i>	<i>240VAC 10 amp resistive 3 amp inductive</i>
<i>Heating and Cooling relay outputs</i>	<i>240VAC 5 amp resistive 2 amp inductive</i>
<i>Reversing valve relay outputs</i>	<i>240VAC 3 amp resistive 1.5 amp inductive</i>
<i>Temperature range</i>	<i>16 to 28 Degrees Centigrade</i>
<i>Switching differential</i>	<i>0.5 Degrees Centigrade</i>
<i>Deadzone between heat & cool (Factory Set to 2oC)</i>	<i>Selectable, 2 or 3 Degrees Centigrade</i>
<i>Output indication</i>	<i>Green LED for Cooling Red LED for Heating Yellow LED for Fan</i>

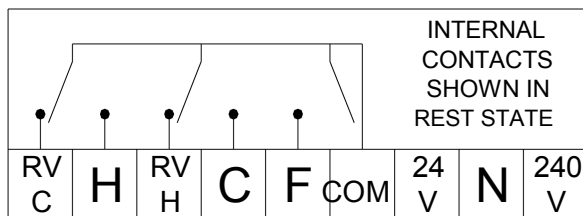
ALL DIMENSIONS IN MILLIMETRES

Dimensions

7G X 45mm RECOMMENDED SCREW SIZE



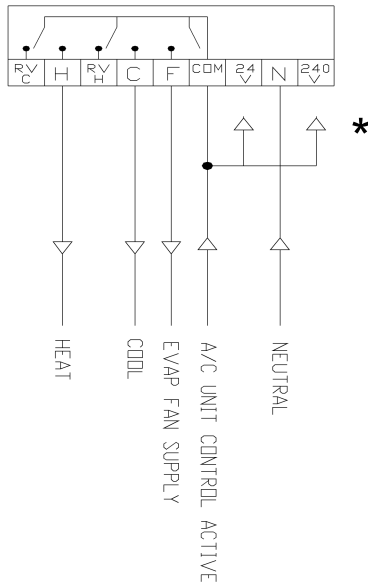
Electrical Schematic



**USE ONLY ONE SUPPLY
VOLTAGE
EITHER 240V OR 24V A.C**

RVC	REVERSING VALVE FOR COOLING
H	HEATING OUTPUT
RVH	REVERSING VALVE FOR HEATING
C	COOLING OUTPUT
F	FAN OUTPUT
COM	COMMON SUPPLY TO RELAYS
24V	24 VOLT AC SUPPLY INPUT
N	NEUTRAL CONNECTION
240V	240 VOLT SUPPLY INPUT

Electrical Schematic for Heat / Cool A/C Units



TECHNICAL NOTES

“Common” Terminal

The terminal labeled **COM** is a Potential Free Common to the Relay Outputs. Therefore the A/C Unit Control active can be either 240 Volt or 24 Volt.

* Typically this connection also loops to the appropriate supply terminal.

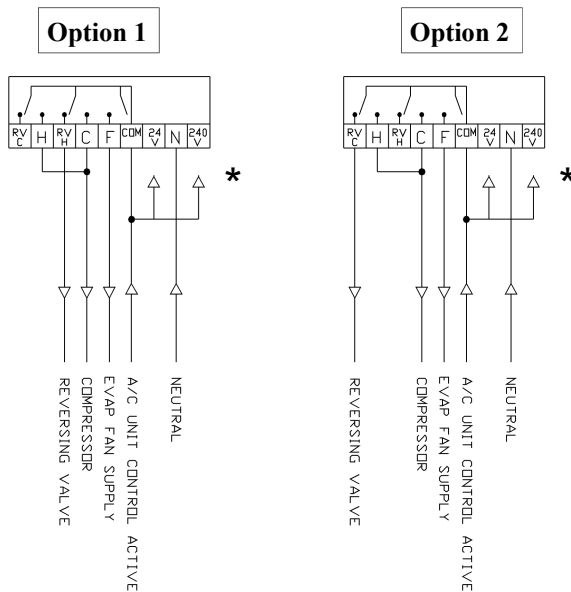
Fan Output

The **F** Terminal is Rated at 10 Amp Resistive. If your Fan requires a larger switching capacity a contactor should be installed.

Supply Voltage

The RTC-3V requires either a 240Volt AC or 24 Volt AC Supply.
(Use **ONE** Supply Voltage Only)

Electrical Schematic for Compressor Reversing Valve Type A/c Units



TECHNICAL NOTES

Option 1

Reversing Valve Energises on a HEATING CALL

Option 2

Reversing Valve Energises on a COOLING CALL

“Common” Terminal

The terminal labeled **COM** is a Potential Free Common to the Relay Outputs. Therefore the A/C Unit Control active can be either 240 Volt or 24 Volt.

* Typically this connection also loops to the appropriate supply terminal.

Supply Voltage

The RTC-3V requires either a 240Volt 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.

The RTC-3V Electronic Room Thermostat is equipped with a TEST Facility Jumper on the Circuit Board. Follow these Steps to perform a Quick Test.

STEP 1: Remove the shorting jumper from the NORM Position and place it in the TEST Position. (Simulates a 22oC Setpoint)

STEP 2: Dial the Setpoint Up and confirm that the HEATING (Red) LED turns ON.

STEP 3: Dial the Setpoint Down and confirm that the COOLING (Green) LED ON.

STEP 4: **Return the TEST jumper back to the NORM Position.**