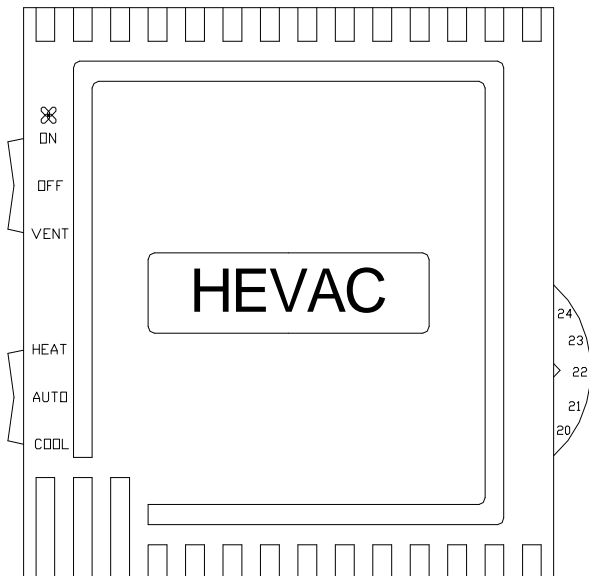


RTC SERIESDual Voltage
Enabled Controller ®


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.

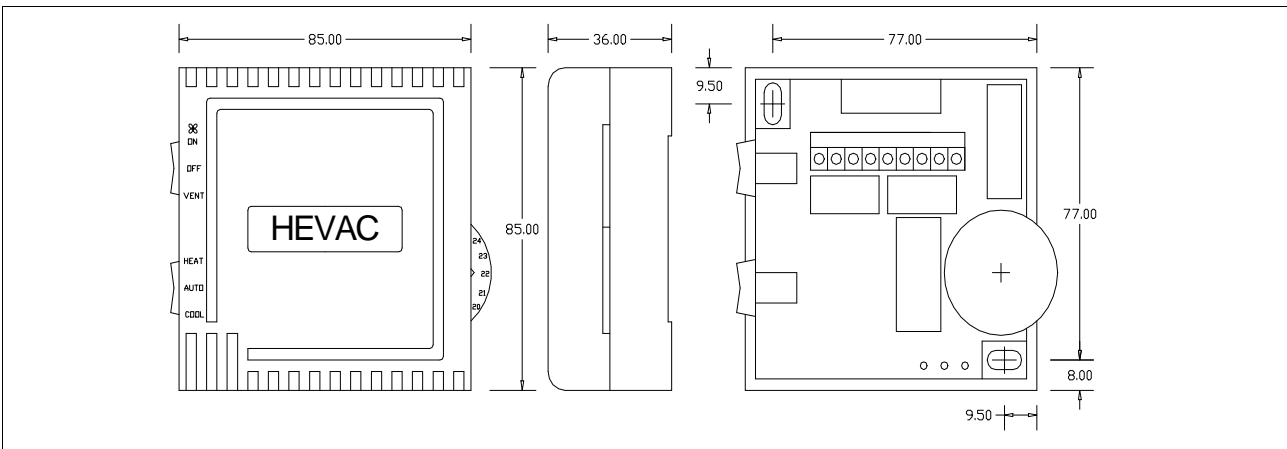
Technical Specifications

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

ALL DIMENSIONS IN MILLIMETRES

Dimensions

7G X 45mm RECOMMENDED SCREW SIZE



Electrical Schematic

INTERNAL CONTACTS SHOWN IN REST STATE

**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

Option 1

Option 2

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.**

Other HEVAC Quality Products

HEVAC CONTROLS

SENSORS

- AVERAGING ROOM SENSORS
- DUCT SENSORS
- PIPE SENSORS
- ROOM SENSORS WITH LCD DISPLAY
- REMOTE SETPOINT ADJUSTERS
- ROOM SENSORS WITH VARIOUS SWITCH FUNCTIONS

HTC ANALOGUE CONTROLLERS with the following features

- DUAL SUPPLY VOLTAGE 24 VOLT OR 240 VOLTS AC
- 0 –10 VDC ECONOMY CYCLE OUTPUTS
- COMPARATORS EITHER ON/OFF OR MODULATING
- 0-10 VDC MODULATING CHILL WATER & HOT WATER OUTPUTS
- AUXILIARY ELECTRIC ELEMENT STAGES
- TRIPLE COMPRESSOR HEAT PUMP MODELS
- ON/OFF ECONOMY CYCLE OUTPUTS

RTC ELECTRONIC ROOM THERMOSTATS with the following features

- DUAL SUPPLY VOLTAGE 24 VOLT OR 240 VOLTS AC
- 5 AMP (Resistive) POTENTIAL FREE RELAY CONTACTS
- L.E.D INDICATION OF ALL OUTPUTS
- CONCEALED OR EXPOSED SETPOINT ADJUSTMENT

HHC HUMIDITY CONTROLLER with the following features

- 0 –10 VDC HUMIDIFICATION OUTPUT
- 0 –10 VDC DE-HUMIDIFICATION OUTPUT
- ON/OFF HUMIDIFICATION OUTPUT
- ON/OFF DE- HUMIDIFICATION OUTPUT
- DC POWER SUPPLY FOR HUMIDITY SENSOR

HDT-6 MULTISTAGE DELAY ON TIMER with the following features

- DUAL SUPPLY VOLTAGE 24 VOLT OR 240 VOLT
- SEVEN USER ADJUSTABLE DELAY SETTINGS
- TEST FACILITY

LT-SERIES LAMP TEST MODULES

IF YOU HAVE A SPECIFIC REQUIREMENT OR REQUIRE FURTHER TECHNICAL ASSISTANCE PLEASE CONTACT OUR FRIENDLY SALES STAFF.

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