

SUNDIAL 'C' PLAN

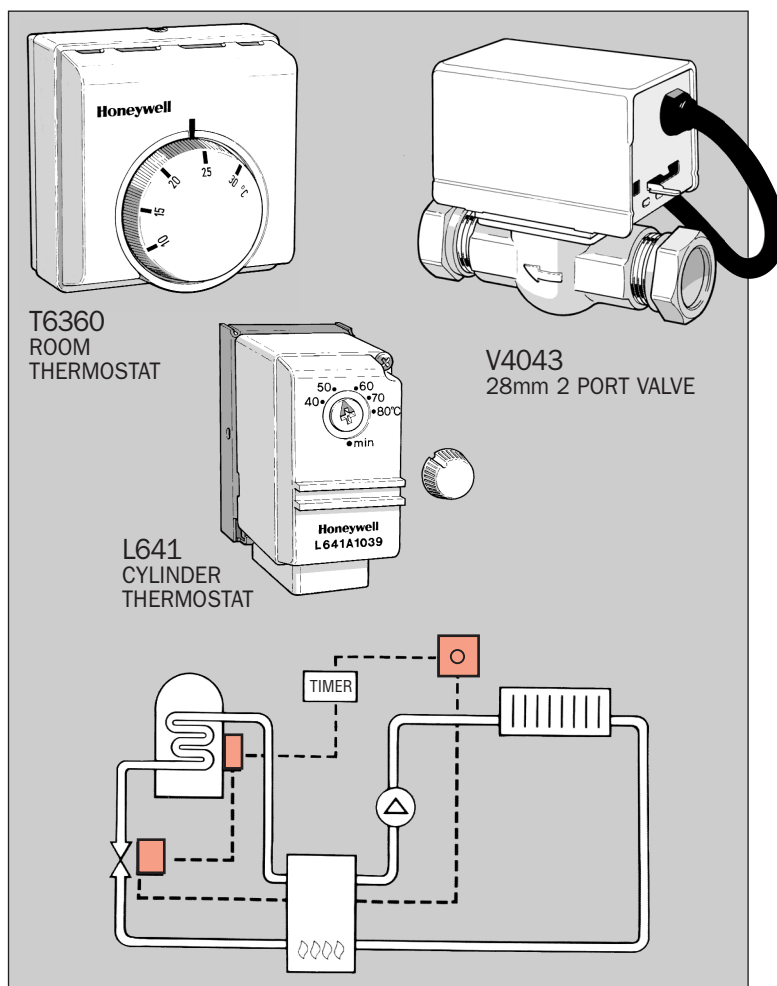
'C' PLAN

FEATURES

- Space temperature control from a central point.
- Independent control of domestic hot water temperature.
- Provides full control of gravity hot water pumped heating systems.
- Pump and boiler switched off when space and hot water temperature requirements are satisfied.

OPTIONS

- Radiator thermostats may be fitted to provide over-riding temperature control in selected areas.
- An additional V4043H zone valve may be fitted in the central heating circuit to prevent gravity circulation when there is only a domestic hot water requirement.
- Automatic bypass valve.



APPLICATION

The Sundial 'C' Plan is designed to provide independent temperature control of both heating and hot water circuits in pumped heating, gravity domestic hot water heating installations. Time control may be provided by a time switch or a programmer.

The control performance satisfies the minimum standard for Building Regulations, although the gravity hot water system may require upgrading to fully pumped.

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Installation

Valve – The zone valve should be fitted in the DHW primary circuit so that, when closed, it does not close off either the cold feed or vent. It is preferred that the valve is fitted in the return to the boiler.

Room Thermostat – The thermostat must be located where it is not subject to extraneous heat gains, direct sunlight or draughts.

Cylinder Thermostat – For optimum performance the thermostat should be located between $\frac{1}{4}$ and $\frac{1}{3}$ up the vertical height of the cylinder.

Time Control – Any time switch or central heating programmer may be used.

Operation

Heating Only – On a demand for heat from the room thermostat the pump and boiler are switched on. The zone valve in the DHW primary remains closed.

Hot Water Only – On a demand for heat from the cylinder thermostat the valve is energised open. Just before the valve reaches the fully open position, the auxiliary switch closes and switches on the boiler only.

Heating and Hot Water – When both thermostats demand heat, the pump and boiler are switched on and the DHW valve is open.

Specification

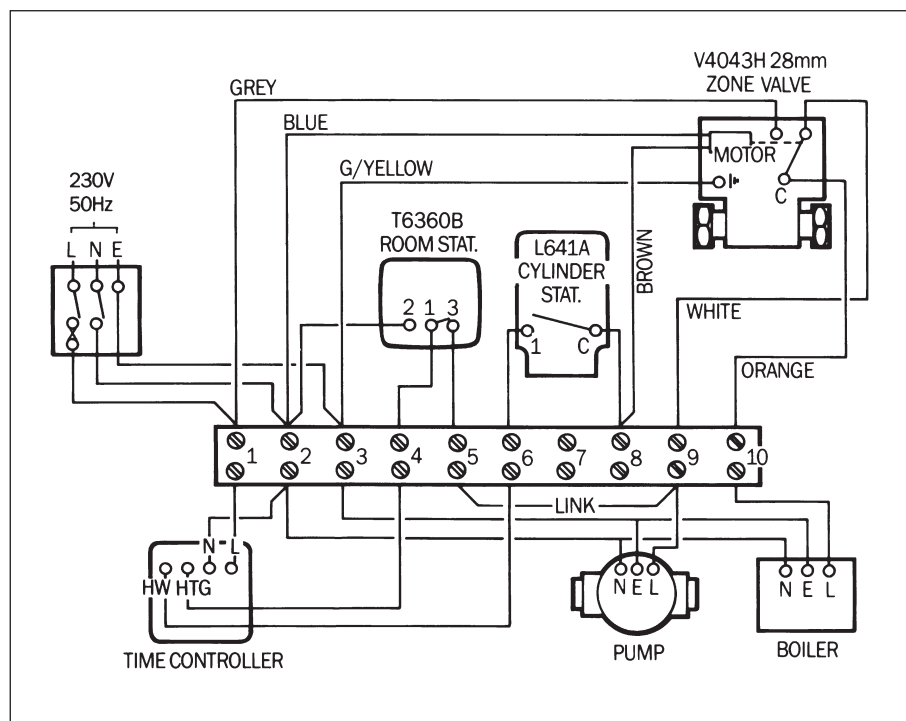
Standard Sundial 'C' Plan comprises:-

V4043H1106	: 2 port valve having 28mm compression fittings
T6360B1028	: Room thermostat
L641A1039	: Strap-on cylinder thermostat

OPTIONAL COMPONENTS

ST6100A1001	: Time switch
ST6100C1009	: 7 day time switch
ST6200A1009	: Mini-programmer
ST6300A1007	: Full programmer having 2 ON/OFF operations
ST6400C1003	: Full programmer having 3 ON/OFF operations and 7 day or 5 day/2 day programming
ST699B1002	: Full programmer having 2 ON/OFF operations
ST799A1003	: Full programmer having 2 ON/OFF operations and 7 day or 5 day/2 day programming
T4360A1009	: Frost thermostat
42005748-001	: Sundial Wiring Centre
42002116-001	: 10 way junction box
DU145/DU146	: Automatic by-pass valves

Wiring



NOTE: It is recommended that either the 10 way junction box or Sundial Wiring Centre should be used to ensure first time, fault free wiring.