Thermostats

The principle by which our thermostats operate is that of liquid-expansion. The hydraulic thermal system, also called 'diastat', consists of the sensor, the capillary tube and the diaphragm. When the sensor heats up, the liquid expands through the capillary tube into the diaphragm where a working stroke is produced. By this working stroke a snap-action switch is actuated which opens or closes the circuit. These thermostats are intended to regulate the temperatures of liquids, gases and solids.

Typical applications of EGO Thermostats

- Domestic and commercial electric ranges
- Domestic and commercial electric ovens
- Hot cupboards
- Deep fat fryers
- Boilers
- Storage water heaters
- High temperature water heating appliances
- Dishwashers

Fields of use

Using stainless steel as the material for sensors and the flexible capillary tube make the thermostats particularly well suited for the high ambient temperatures that occur in ovens.

Series 55.17 was developed specifically for use in standard ovens. Multi-pole series for various functions are available. The usual temperature range is 50°C-320°C.

Thermostats for temperatures of up to approximately 500°C are offered by EGO for installation in ovens with self-cleaning feature. Rod thermostats are also available for these ovens.

Function of a mechanical two-step controller