



## RVV

The TROX variable volume flat plate diffusers are ideal for both comfort air conditioning and industrial applications. The diffuser is for installation into plaster-board ceilings. The TROX RVV diffuser is an electronically operated unit incorporating rate aided proportional air volume and heater control. It automatically regulates the room temperature which is measured with a sensor either in the diffuser or in the wall mounted unit. According to the thermal demands in the room, the controller moves the damper by means of a push/pull actuator and stainless steel spindle, or cycles the heater until the room temperature reaches the set point adjusted on the controller by the user (if wall mounted). Electronics and electrical parts are not exposed but covered with a sheet metal box. The heater is optional. For heater capacities please refer to the table on page 3. The TROX RVV with heater is protected against over-heating (in case there is too little air flow) via an automatic thermal switch (Klixon). This ensures that the surface temperature stays within the safe range required by the SABS.

Additionally we can offer a manual Klixon that has to be reset once the surface temperature rises above a certain temperature. Modular plugs serve as connection between main units, controller, sub units and/or sensors. The TROX RVV with heater (main & sub) is delivered with a 3m 220V connection cable and a 5m long cable to connect the diffusers with each other and with the controller (if wall mounted). One controller can control up to 5 diffusers. Each set of diffusers controlled by one controller has one main and up to 4 sub units. If no heater is required the main unit is the only one that needs to be connected to the power supply either 24V or 220V. The main unit is the one with the sensor (if the sensor is required to be in the diffuser). All diffusers are supplied with modular sockets - these are used to connect the diffuser via the supplied cables. (see sketch).