TROX® TECHNIK
The art of handling air

# XPV

The TROX variable volume flat plate diffuser is ideal for bothcomfort air conditioning and industrial applications. The diffuser is for drop-in installation into suspended ceilings. The TROX XPV 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). Each diffuser has a sub or slave card mounted to the diffuser. The heater is optional. For heater capacities please refer to the table on page 3.The TROX XPV 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 risesabove a certain temperature. The TROX XPV with heater is delivered with a 3 m 220 V connection cable and a 6m long RJ12 cable to connect the diffusers with each other and with the controller. Diffusers are supplied as sub/slave units, these are connected to a single control module and this is connected to a wall mounted finger touch two button thermostat. The transformer is sized according to the number of diffusers connected to a master up to a maximum of 20. The control modules are standalone, LonWorks and BACNet compatible. The thermostat is in an elegant enclosure compatible with a standard 2x4 draw-box. It is supplied with 2 button (MK2) or 3 button (MK3) options.

Materials
The diffuser body and faceplate are constructed from cold rolled black steel which is all phosphate treated and powdercoated textured white VEP 1595. This process will provide corrosion resistance protection to the product based on a 500-hour salt-spray test.