

ABSTRACT

EQUIPMENT CABINET FOR ELECTRICAL AND ELECTRONIC SYSTEMS

The invention relates to an equipment cabinet for electrical and electronic systems, particularly a switch and control cabinet, with a functional area closed in dustproof and watertight manner and at least one door closing in dustproof and watertight manner, characterized in that a multishell structure is provided round the functional area (1) and comprises baffle plates (11), the functional area wall (2) and outer jacket (5), between the baffle plates (11) and functional area wall (2) is formed an internal, channel-like space (6) and between the functional area wall (2) and outer jacket (5) an external, channel-like space (6') and the two channel-like spaces (6, 6') can be supplied by controllable volume flows independently of one another in load-dependent manner, the volume flows being adjustable from 0 to a maximum value and the maximum value is determined by the hydraulic resistances of the elements (12, 7, 6') and the characteristics of the fan (8') on the one hand and the hydraulic resistances of the functional area equipment, the internal, channel-like space (6) and the characteristics of the fan (8) on the other hand and consequently the heat transfer from the functional area (1) to the exterior is intensified or from the exterior into the functional area (1) can be intensified and/or reduced.

The equipment cabinet has particularly good cooling characteristics and also an improved heat protection of the functional area, depending on the conditions of use, whilst simple technical means are employed.

(Fig. 1)