

Heater strips VS



COSY heater strips are intended mainly for production premises, workshops, warehouses and sports halls – in other words, for tall premises in which the occupants perform physically strenuous activities, probably alternating with periods of inactivity. In such environments, COSY heater strips create a balanced climate which also saves energy. If correctly applied, water-based overhead heating is the main principle which is best suited for this application, taking into account the well-documented physiological relationships between the temperature of the room air and that of the enveloping surfaces.

COSY heater strips can be used in most premises in which the heating system must give responsive temperature adaptation with a minimum of air movement and without draughts and noise, preferably combined with a displacement ventilation system. In addition, due to its overhead location, the source of heat is not obstructed by furniture and provides unrestricted freedom for arranging the interior and the workplaces. If heat is supplied by heater strips, the mean temperature of the room surfaces will be raised. The occupants will then benefit from increased heat radiation from the heater strips and also from the warmer room surfaces. As a general rule, heater strips with several tubes are arranged along the outer walls. The most important feature is to distribute the heater strip surfaces, as far as possible, to counteract the transmission losses. If

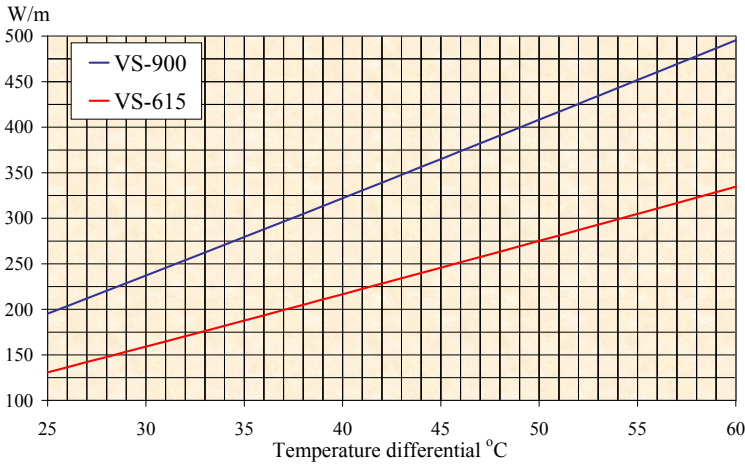
the heater strips are correctly arranged, the oriented operative temperature can be maintained within closed limits. If the heat-radiating surfaces are suitably arranged, their radiant heat can be directed towards the workplaces, and the ambient temperature in the premises can then be maintained at relatively very low values. A reduced room air temperature also allows the ventilation air to be supplied to the premises with the same temperature reduction. Premises heated by radiant heat may thus offer much better heating economy than premises heated by means of warm air.

Heating capacity up to 410 W per meter length at 50°C temperature differential.

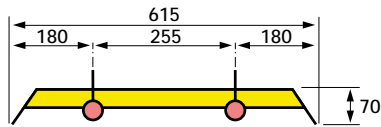
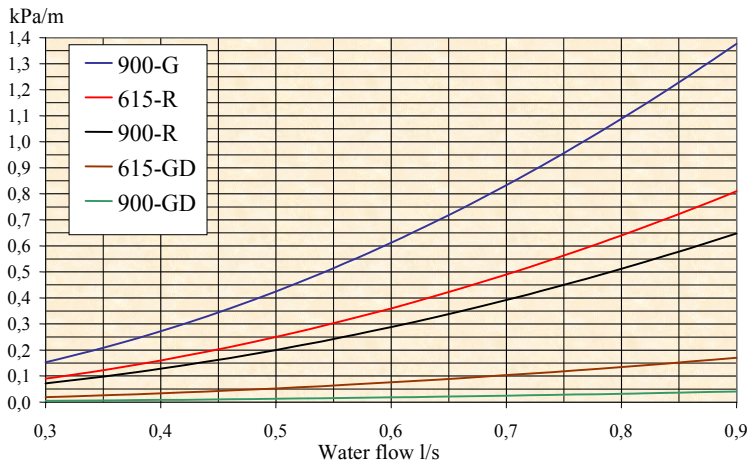
*Widths 615 and 900 mm
Length up to 6 m*



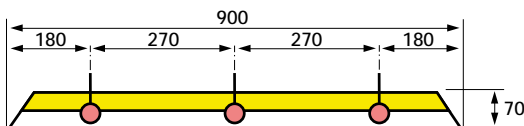
Heating capacity



Pressure drop



VS-615



VS-900

COSY heater strips are delivered to site wrapped in shrink film and well packaged on pallets in section lengths up to 6 metres. The heater strips are normally suspended from hangers which are included in the delivery in the necessary quantities. After the sections have been welded together, the necessary connection plates are fitted.

The above side of the panel is insulated with an aluminium foliated mineral fiber.

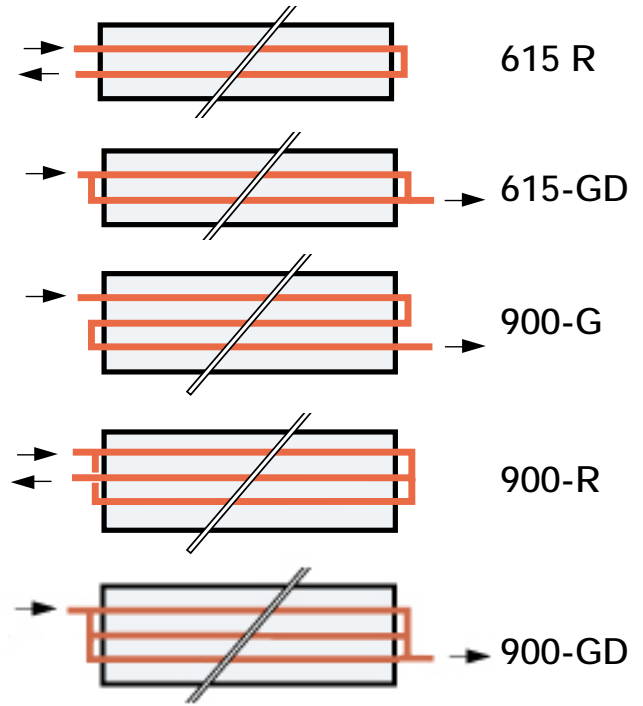
Test pressure: 900 kPa

Colour: Standard light grey NCS 5502 R

Weight: VS-615 4,5 kg/m

VS-900 7,5 kg/m

Connections



Order code

	a - b - c - d
Type	VS
Width	615, 900
Length	In meter
Connection	R, G, GD

Example: VS-615-10-R

Water connection: Horizontal plain tube 35/32 mm

The connection alternatives can be either in series or in parallel, to suit the pressure drop and the flow rate. It is important to ensure that the flow rate is not below the required minimum. The water velocity must be sufficiently high to ensure that the flow in the tube will be turbulent.

Connection alternative R is always advisable and should be specified as far as possible if adequate pressure is available.

If connection alternative G or GD is selected, ascertain that the water flow rate is sufficiently high to ensure that the flow will be turbulent.

Min water flow 615-R and 900-G: 0,036 l/s

Min water flow 615-GD and 900-R: 0,072 l/s

Min water flow 900-GD: 0,108 l/s



Cooling System AB, established in 1987, is a company that specialized in comfort cooling and indoor climate control. The product range is marketed under the COSY registered trademark and manufactured entirely in Sweden.

Active chilled beams – Passive chilled beams – Radiant ceilings - Heater strips
Fan Coils – Dealer Tables – Room control systems.



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