

Steam distribution system

OptiSorp

Guarantees the shortest humidification sections.



OptiSorp steam distribution system

The right answer when space is limited.

Humidification sections are ideally short. Practice shows that the space available in air ducts is increasingly limited. Short humidification sections are required. OptiSorp in combination with the Condair CP2 and GH or Defensor Mk5 steam humidifiers now permits short humidification sections.

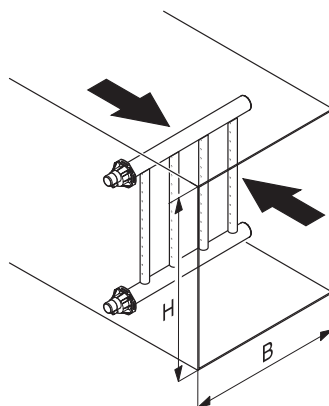
If steam comes into contact with subsequent obstacles, such as elbow partitions, fans, heating and cooling registers or filters, condensation is produced at that point. The result can be moisture damage, corrosion or even hygiene problems, since wet places provide an ideal breeding ground for microorganisms.

OptiSorp provides the answer:

The humidification section is up to 4-times shorter than conventional steam distribution pipes.

Menuguided layout for determining the humidification section:

The length required by the steam to mix with the duct air (the steam absorption distance or humidification section), is an important precondition for satisfactory humidification. The layout of the OptiSorp



OptiSorp System	Steam connections number	Steam output (max. in kg/h)	Duct dimensions (in mm)	
			Width	Height
1	1	45	450...2700	450...1650
2	2	90	450...2700	450...2200
3	3	135	450...2700	800...3200
4	4	180	450...2700	800...3200

steam distribution system can be made according to the table or the "Layout program" software.

Design:

Stainless steel design, in combination with high-grade plastic components for connecting to the steam humidifiers CP2, GH and Mk5.

Inlet humidity (RH %)	Length of humidification section (B _N in m)					
	Outlet humidity (RH %)					
	40	50	60	70	80	90
5	0.22	0.28	0.36	0.48	0.66	1.08
10	0.20	0.26	0.34	0.45	0.64	1.04
20	0.16	0.22	0.30	0.41	0.58	0.96
30	0.10	0.17	0.25	0.36	0.52	0.88
40		0.11	0.20	0.30	0.45	0.79
50			0.13	0.24	0.38	0.69
60				0.16	0.30	0.58
70					0.20	0.45



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