



ultimateSAM precision steam dispersion system

ultimateSAM is a precision dispersion system suitable for steam flow-rates from 20 kg/h to 1110 kg/h and pressures from around 0.01 bars (1000 Pa) to 4 bars.

Adaptability

ultimateSAM can be built to measure in sizes from 450x600 mm to 3000x3100 mm in 152 mm steps (18"x24" to 120"x120" in 6" steps).

Precision

ultimateSAM can be purchased with BELIMO or COMFLOW valves featuring electric actuators for precise modulation of the steam delivered into the AHU/duct.

Short not-wetting distance

Holes set out along the entire height of the upright pipes deliver steam uniformly, ensuring a very short non-wetting distance.

Hygiene and materials

ultimateSAM is made from AISI 304 steel, with some components made from PPS (Ryton), a material with a continuous operating temperature of 220 °C / 428 °F, plus high temperature silicone gaskets (min 150 °C / 300 °F) not in contact with steam, and EPDM gaskets when in contact with steam.

The appliance is ideal for:

- precision and aseptic humidification, with a short not-wetting distance (even less than 0.5 m);
- delivering atmospheric and pressurised steam into an AHU/duct with minimum heat gain and condensate formation.

Technical specifications

Model	Description	Steam flow-rate 0 to 4 bar g / 0 to 58 PSIG (kg/h / lbs/hr)	Dimensions W x H[mm/inch]
SAB*	Bottom-feed	20-370 / 44-814	From 447 x 598 mm to 3031 x 3030 mm in 152 mm steps (18" x 24" to 120" x 120" in 6" steps)
SAT*	Top-feed	60-1100 / 132-2440	From 447 x 749 mm to 3031 x 3181 mm in 152 mm steps (18" x 30" to 120" x 125" in 6" steps)

ultimateSAM can be ordered with insulated uprights, featuring a cushion of air that reduces both heat gain (around 1-2 °C / 2-4 °F) and condensate formation (at most around 5% of rated capacity). Insulated models have nozzles inserted in the uprights to ensure only dry steam is delivered into the air. Non-insulated models are also available at a more competitive cost.

Accessories:

- modulating valves with electric actuator
- steam inlet connections
- Y filters
- steam traps and condensate drains

Spare parts:

- uprights
- horizontal manifolds
- parts of the metal support structure
- gaskets

SAT: ultimate SAM with top-feed



SAB: ultimate SAM with bottom-feed



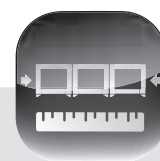
Wide range

ultimateSAM is available in models measuring from 447 x 598 mm (18" x 24") to 3031 x 3181 mm (120" x 125"), steam flow-rates from 20 to 1110 kg/h (44-2440 lbs/hr) and pressure from 0.01 (bars) to 4 bars



Precision

ultimateSAM is suitable for precision humidification, guaranteed by the modulating valves available (BELIMO and COMFLOW), and uniform steam distribution in the AHU/duct



Short not-wetting distance

ultimateSAM minimises steam absorption distance thanks to uniform distribution along the entire height of the uprights. Insulated models moreover reduce heat gain and condensate formation.

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