



2.3.1. Tender text

..... units

Multifunction sail AVACS designed to build an attractive cooling/heating radiant ceiling system for removing sensible heat loads via radiation (approx. 40%) and convection (approx. 60%); ventilation with conditioned supply air discharged uniformly and horizontally, with high induction of indoor air. An air cushion at the discharge area minimizes dirt accumulation on the ceiling; air discharge direction from the facade towards the room;

consisting of:

- a sail suspension system made up of Sendzimir galvanized crossbars that are suspended from the concrete slab by means of threaded rods (by others) and are adjustable in height; each sail element is to be stabilized without additional visible screws
- perforated metal ceiling panels, hole diameter: 2.5 mm, approx. 16% open area, with powder coated face; quality according to TAIM requirements; with 90° return edge (h = 50 mm) on all sides; these are additionally returned inwards and reinforced in the corners.
The visible border (unperforated) on all sides is about 10 mm.
- black acoustic lining bonded to the rear side of the ceiling panels
- a cooling/heating system made up of copper serpentine pipework \varnothing 12 x 0.4 mm, which is embedded in large aluminium heat conducting profiles and bonded to the ceiling panels
- an induction unit with oval connection spigot suitable for flex duct DN 125, for air distribution along the sail, which is to be fixed (by others) to the metal ceiling panel with 2 sheet metal screws (Note: coordination with ventilation contractor is necessary)
- As an option, sound absorbers can be put on the rear side of the metal ceiling panels to improve the sound absorption coefficient; further, the sail can be optionally provided in pull-down design.

Technical data

Total cooling output per 2-piece sail (referred to dimensions below):	...	W
Specific cooling output (waterside):	...	W/m ²
Chilled water supply temperature:	17 °C	
Chilled water return temperature:	19 °C	
Room temperature:	26 °C	
Temperature difference:	8.0 K	
Max. operating pressure:	6 bars	
Water quality:	adequate mains water	
Supply air temperature:	18 °C	
Air volume flow rate:	28 l/s [100 m ³ /h]	

Dimensions / Design:

Length of sail element:	...	mm (see brochure DS 4170 E, standards in Fig. 5)
divided into	...	single lengths
1st partial length	...	mm
2nd partial length	...	mm
3rd partial length	...	mm
Width of sail element:	1	150 mm



Suspension height:	≥ 150 mm
Connection type:	Pipe end for push-in fitting, OD = 12 mm (standard)
Connection side:	one side
(depending on number of pipes and number of water connections per element)	
Colour:	similar to RAL 9010 (standard)
Make:	Krantz Components
Typ:	AVACS

Subject to technical alterations.

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