SOFTLINE WOOD

High performance module



QUICK FACTS

- O Thermal comfort according to EN ISO 7730
- O High heating & cooling capacity
- With optional absorbers:
 Advanced sound absorption values (class B)
- O Real wood
- Easy installation
- O Can be combined with CAURUS
- Integration of various components
 - Different lighting designs
 - Sprinklers
 - Smoke detectors
 - Supply / extract air elements

Capacity (water)			
Cooling	Heating		
Up to 90 W/m ² (8 K), EN 14240: ₂₀₀₄	Up to 86 W/m ² (15 K), EN 14037: ₂₀₁₆		

Acoustics with sound absorber
αw: up to 0.85



In cooperation with



Technical description

General

The high-performance module SOFTLINE WOOD is a climate ceiling system that combines the natural aesthetics of real wood with high-performance heat conducting profiles to create an optimum indoor climate.

The real wood slats are not only visually appealing, but also acoustically active, ensuring pleasant room acoustics. The high-performance heat-conducting profiles are circulated by the room air and enable efficient climate control - both for heating and cooling.

Activation

Water system: the radiant ceiling is a passive system which absorbs heat via the ceiling surface (cooling application) or transfers it to the room (heating application).

The SOFTLINE modules are activated by copper pipe meanders (external diameter 12 mm) which are pressed into the aluminium fins.

Functions

The high performance modules are multifunctional. In addition to their thermal functions of cooling/heating, they can also be fitted with additional features, such as acoustic elements, smoke detectors and lighting.

Combinations

SOFTLINE WOOD + CAURUS







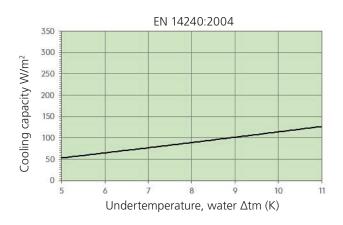
Technical data

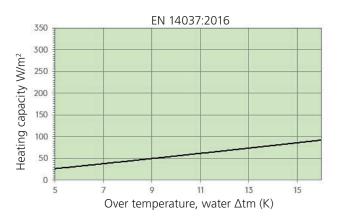
Capacity

Design example:

Module length	1000 mm to 2550 mm
Installation height	min. 180 mm
Supply/extract air	None
(Combination options with ventilation system on request. With supply air, the capacity increases by 5% in office space.	

(Performance data without project-specific factors that affect performance.)





Version	Cooling 8 K	Cooling 10 K	Heating 15 K
SOFTLINE WOOD high performance module	Up to 90 W/m ²	Up to 114 W/m ²	Up to 86 W/m ²

Note

- SN EN 14240: The cooling capacity is based on the active surface area according to SN EN 14240:2004. The active surface area is calculated according to SN EN 14240 from the number of heat conducting rails x heat conducting rail length x heat conducting rail spacing.
- SN EN 14037: The heating capacity is based on the active surface area according to SN EN 14037:2016. The active surface is calculated according to SN EN 14037 from the ceiling panel length x ceiling panel width.

Recommendations for use

Water

- Flow temperature
 - For cooling: 16 18 °C
 - For heating: 28 37 °C
- Temperature spread Δt (flow return)
 - For cooling: 2 3 K
 - For heating: 3 5 K
- Pressure drop: 20 25 kPa
- Water flow rate: 90 200 l/h
- Max. operating pressure: up to 9 bar
- Water quality according to: SWKI BT 102-01, BTGA 3.003, VDI 2035

Environment

- Ambient temperatures: +5 50 °C
- Relative humidity: up to 90 %

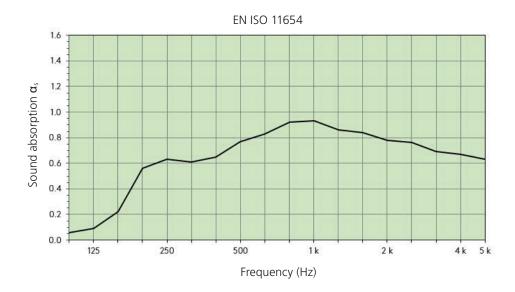


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Acoustics

Baseline data, example:

Installation height	min. 180 mm
Acoustic inlay	Fleece
Additional inlay (mineral wool)	with
Sound absorption α_{p}	250: 0,63
	500: 0,77
	1k: 0,93
	2k: 0,78
	4k: 0,67
Sound absorption $\alpha_{\scriptscriptstyle W}$	α _w : 0,85
Sound absorption class (EN ISO 11654)	В



Fire safety

• Building material class B-s1,d0, EN 13501-1 (without sound absorber)

System

Ceiling system

- High performance module with fins
- Real wood between the fins

Installation systems

- Installation height: min. 180 mm
 - Threaded rods
 - Mounting bracket

Material, weight and dimensions

Material and weight

Material	Weight (incl. activation elements, water)
Aluminium fins and wooden fins with frame	Approx. 10 kg/m ²
Aluminium fins and wooden fins without frame	Approx. 9 kg/m ²

Building material class: B-s1,d0, EN 13501-1 (depending on acoustic elements).

Surface

Finishes

- Powder coating
- Anodised
- Wooden fins

Colours

- Standard: RAL 9010
- For other RAL/NCS colours, please enquire
- Common anodised colours

Wooden fins

- 3-layer panel white fir
- MDF spruce
- MDF veneered beech Classic
- MDF veneered beech Micro
- MDF veneered American walnut
- Other types available on request

Echtholzfurniere

3-layer panel white fir	MDF spruce	MDF veneered beech Classic	MDF veneered beech Micro	MDF veneered American walnut
ARIA-Pure 2/2/0.5	ARIA-Plus 28/4 M	Classic 14/2 M	Micro 2/ 2/ 0.5 M	Classic 14/2 M

Dimensions with frame

Length	Width	Height	Pipe rows	Pipe spacing
1050 mm – 2550 mm	640 mm – 1345 mm	60 mm	3 – 6	235 mm

Custom dimensions on request.

Dimensions without frame

Length	Width	Height	Pipe rows	Pipe spacing
1000 mm –2500 mm	590 mm – 1295 mm	50 mm	3 – 6	235 mm

Custom dimensions on request.



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