

HIGH PERFOMANCE FIN WAVE®

Impressively powerfull





IMPRESSIVELY POWERFUL

The high performance fin WAVE® unites aesthetics and efficiency. Thanks to its geometry and total surface area, this model has a very high thermal capacity. As a result, it takes up less ceiling space. The WAVE® can be installed either hanging from or integrated into the ceiling.

- Specially suitable for buildings with high heating and/or cooling requirements (e.g. in extensively glazed buildings)
- Offers the maximum possible thermal comfort
- High-performance and energy efficient



CEILING SYSTEM

open

OPERATING PRINCIPLE

Convection

AIR SUPPLY

CAPACITY

Cooling: 225 w/m² (8 K), EN 14240 Heating: 339 w/m² (15 K), EN 14037 **ACOUSTICS**

Can be combined with a sound absorber

ROOM COMFORT

Thermal comfort according to EN ISO 7730, SIA 382/1

ACTIVATION

- Copper tube meander pressed into the aluminium profile
- Copper tube outer Ø: 15 mm
- Max. occupancy rate: 75 %

FUNCTIONS





Acoustics



Supply and exhaust air

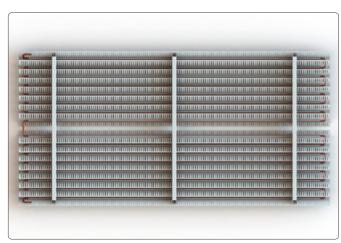




Integral components



Compensation cold air drop



High performance fin WAVE®, view from above: unpainted copper tube meander



CAPACITY

Initial data

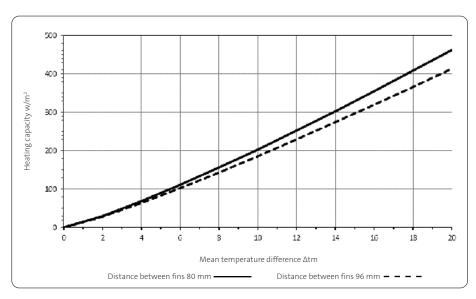
Material / fin slits	Aluminium / fully slitted	Aluminium / fully slitted	
Fin alignment	opposing and same direction	opposing and same direction	
Distance between fins	80 mm ———	96 mm	
Installation height	height 280 mm		

Cooling
• up to 225 w/m² (8 K)



Heating

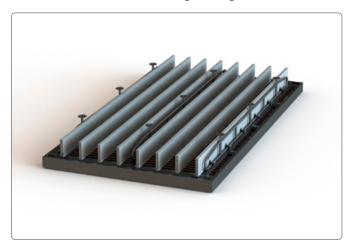
• up to 339 w/m² (15 K)





ACOUSTICS

- Can be combined with a sound absorber.
 - Example WAVE® with a frame construction combined with sound baffles and integrated lights



WAVE® in a frame, view from above: combined with sound baffles



WAVE® in a frame, view from below: with integrated lights

FIRE PROTECTION

Building material class A2-s1, d0, EN 13501-1

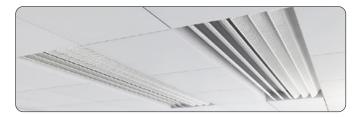
SYSTEM / OPERATION

Construction

- Ceiling system
 - Ceiling sail with wavelike aluminium fins
- Installation system
 - Free-hanging on threaded rods or ropes; installation height min. 280 mm



 Integrated into a recess in the ceiling panel or into an alcove in suspended ceilings; installation height min. 250 mm



CERTIFICATION

■ ISO 9001

Water

Recommended:

- Temperature: cooling 16 18 °C, heating 28 37 °C
- Temperature difference Δt_{|in-out|}: 2 3 K
- Pressure drop: 20 25 kPa
- Water flow: 105 300 l/h
- Max. operating pressure: up to 9 bar
- Water quality: SWKI BT 102-01 / BTGA 3.003 / VDI 2035

Surrounding

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

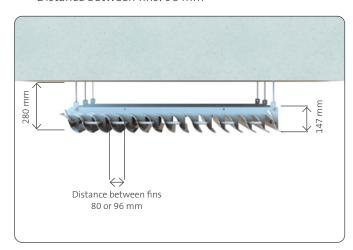


TECHNICAL SPECIFICATIONS

Types

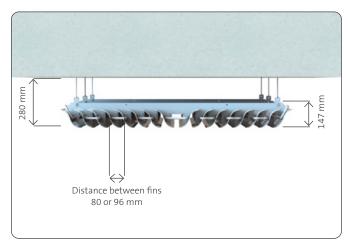
Fins SAME DIRECTION

Distance between fins: 80 mmDistance between fins: 96 mm



Fins OPPOSITE DIRECTION

Distance between fins: 80 mmDistance between fins: 96 mm



Dimensions and weight

Dimensions

Fins	Water content	Typ Fins SAME DIRECTION Module width (mm)		Typ Fins OPPOSITE Module width (mm)	
Quantity	l/lm _{wave}	Distance between fins 80 mm	Distance between fins 96 mm	Distance between fins 80 mm	Distance between fins 96 mm
4	0,74	360	408	431	458
5	0,92	440	504		-
6	1,11	520	600	591	650
7	1,29	600	696	-	-
8	1,48	680	792	751	842
9	1,66	760	888	-	-
10	1,85	840	984	911	1034
11	2,03	920	1080	-	-
12	2,22	1000	1176	1071	1226
13	2,40	1080	1272	-	-
14	2,59	1160	1368	1231	1418
15	2,77	1240	1464	-	-
16	2,96	1320	1560	1391	1610

- Module lenght: 600 - 3000 mm

Weight

Distance between fins 80 mm: 14,4 – 19,0 kg/m²
Distance between fins 96 mm: 12,7 – 16,1 kg/m²

Versions

Surface: Powder coating

 Colour shade: Standard RAL 9010 and 9016, other RAL / NCS colours on request