



aquatherm black system

High-performance modules for cooling ceilings



aquatherm
state of the pipe





Metal panel ceiling as clamping system

Thanks to the rear self-adhesive aluminium supporting plate, the aquatherm black system high-performance modules can be affixed quickly and easily into the metal panel on site. The modules can be integrated into both new and existing grid ceilings.



Thermal active metal ceiling sail

aquatherm black system high-performance modules are affixed to ceiling sails with the self-adhesive back. Metal ceiling sails offer architects and planners great creative freedom: the ceiling elements can be individually adapted to any room geometry in terms of shape and dimension.



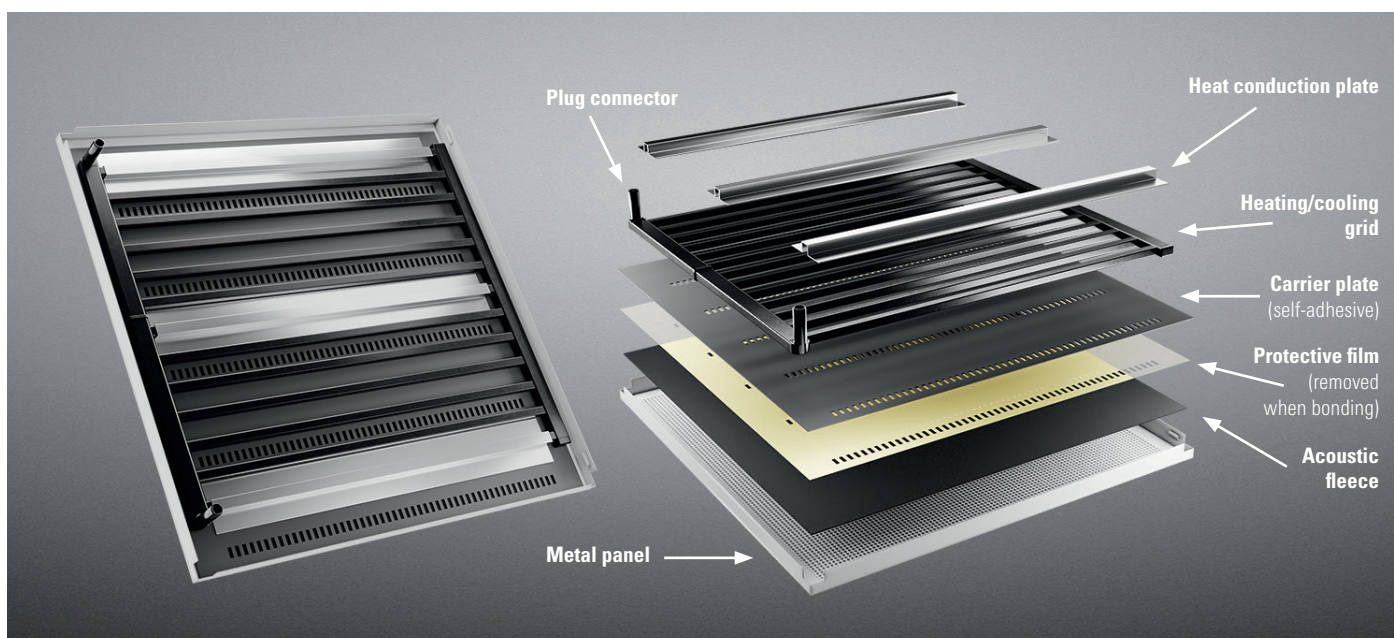
aquatherm black system high-performance modules for cooling ceilings

aquatherm black system high-performance modules combine aquatherm's proven heating and cooling grids with heat conduction plates and aluminium carrier plates. The modules take advantage of the pressure drop and fluidics of the grids and the impressive thermal conductivity of the aluminium. Full-surface bonding guarantees easy and quick installation. And thanks to reduced-connection technology, assembly time is minimised and the cost per square meter of installed ceiling is decreased.

The surface temperature of aquatherm black system high-performance modules is only a few degrees above or below the desired room temperature. Thus, the modules are ideal for heating systems using renewable energies, such as heat pumps. The heat or cold transmission by means of radiation ensures increased comfort and there are no draughts created or dust raised, as can be the case with blower-driven heating and cooling systems.

Advantages

- *High heating and cooling performance due to excellent transmission surface contact*
- *Short assembly times thanks to pre-fabricated, self-adhesive modules*
- *Soundless and invisible*
- *No draughts or airborne dust created*
- *Ideally suited for use with heat pump and condensing boiler technology due to low flow and return temperatures*
- *High sound absorption in metal ceiling panels with micro perforation or in perforated plasterboard plates*
- *Retrofittable into existing metal ceiling systems*





Metal panel ceiling as strip grid system

The aquatherm black system high-performance modules are equipped with a self-adhesive aluminium carrier plate on the back. This ensures a simple and quick attachment to a metal panel. Retrofitting into existing grid ceilings is possible at any time.

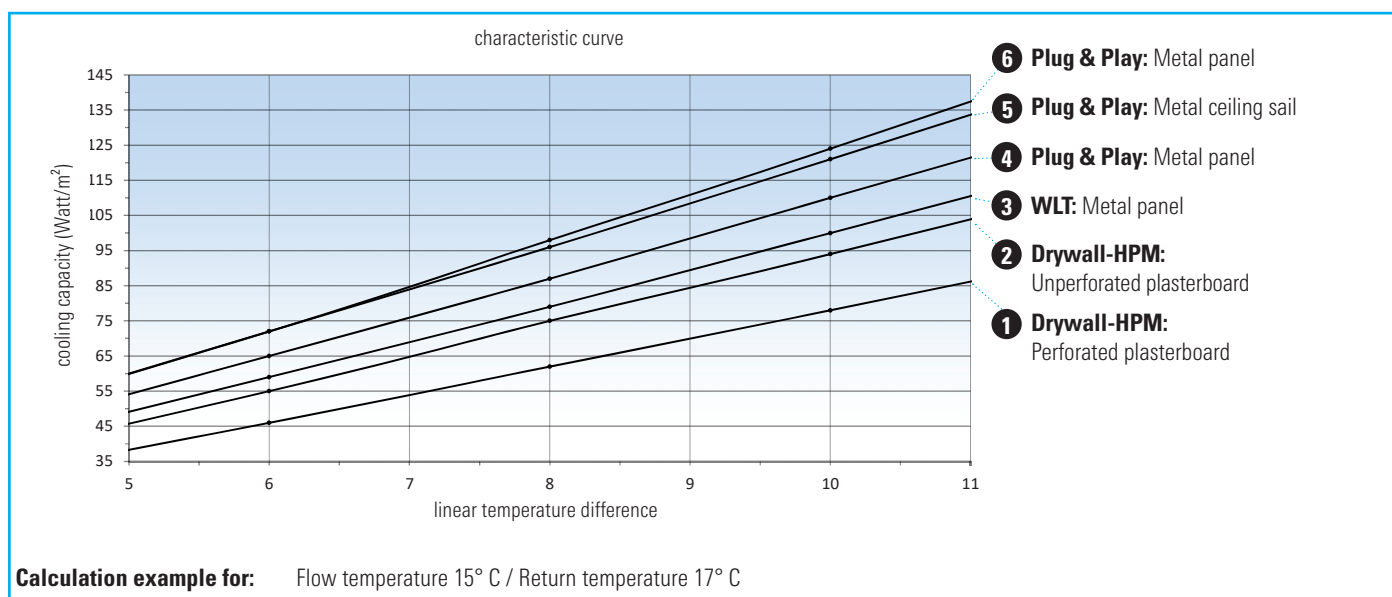


Ceiling system with metal substructure and planking with building boards

The assembly of the aquatherm black system high-performance modules is very simple: the modules are suspended in the supporting profiles of the substructure, then the ceiling is planked with building boards (for example, plasterboard or perforated gypsum plasterboard). Boards with different thermal conductivities can be used.

Performance data

Performance values of ceiling system high-performance modules. Standard **cooling** performance according to DIN EN 14240: 2004-04



Linear temperature difference K			6	8	10
Room temperature °C			22	24	26
1	Drywall-HPM	Perforated plasterboard with graphite content 10 mm 8/18R	46	62	78
2	Drywall-HPM	Unperforated plasterboard with high graphite content 10 mm	55	75	94
3	WLT	Metal panel, with acoustic fleece	59	79	100
4	Plug & Play	Metal panel, with acoustic fleece	65	87	110
5	Plug & Play	Metal ceiling sail, with acoustic fleece	72	96	121
6	Plug & Play	Metal panel, without acoustic fleece	72	98	124

Acoustic values of a drywall ceiling with aquatherm black system

High-performance cooling ceiling and perforated gypsum plasterboard with insulation

Dry construction ceiling with proportional perforation of 19.8%, type 8/18 Q

Frequency (Hz)	125	250	500	1000	2000	4000
α_p	0,63	0,69	0,61	0,51	0,44	0,66
Sound absorption coefficient for a drywall ceiling with proportional perforation of 19.8%, type 8/18 Q						
Evaluation according to ISO 354 Practical sound absorption coefficient according to ISO 11654						
$\alpha_w = 0,50$ (LH)						
Sound absorption class D						

Dry construction ceiling with proportional perforation of 15.5%, type 8/18 R

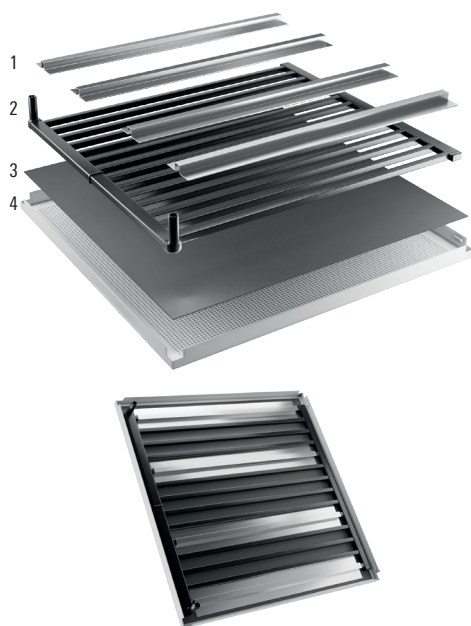
Frequency (Hz)	125	250	500	1000	2000	4000
α_p	0,57	0,62	0,55	0,46	0,41	0,67
Sound absorption coefficient for a drywall ceiling with proportional perforation of 15.5%, type 8/18 R						
Evaluation according to ISO 354 Practical sound absorption coefficient according to ISO 11654						
$\alpha_w = 0,45$ (LH)						
Sound absorption class D						

Dry construction ceiling with proportional perforation of 23%, type 12/25 Q

Frequency (Hz)	125	250	500	1000	2000	4000
α_p	0,63	0,75	0,65	0,54	0,47	0,64
Sound absorption coefficient for a drywall ceiling with proportional perforation of 23%, type 12/25 Q						
Evaluation according to ISO 354 Practical sound absorption coefficient according to ISO 11654						
$\alpha_w = 0,55$ (LH)						
Sound absorption class D						

Dry construction ceiling with proportional perforation of 18.1%, type 12/25 R

Frequency (Hz)	125	250	500	1000	2000	4000
α_p	0,57	0,62	0,56	0,47	0,42	0,63
Sound absorption coefficient for a drywall ceiling with proportional perforation of 18.1%, type 12/25 R						
Evaluation according to ISO 354 Practical sound absorption coefficient according to ISO 11654						
$\alpha_w = 0,45$ (LH)						
Sound absorption class D						



1. Heat conducting plates
2. Heating/cooling
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4. Metal panel

aquatherm black system high-performance module WLT

for metal panels with push-fitting connection 90°, left, right

Article no.	grid length [m]	module width [m]	module length [m]	area [m²]	PU
grid width: 0.24 m					
4120240600	0.60	0.265	0.60	0.16	1
4120240800	0.80	0.265	0.80	0.21	1
4120241000	1.00	0.265	1.00	0.27	1
4120241200	1.20	0.265	1.20	0.32	1
4120241400	1.40	0.265	1.40	0.37	1
4120241600	1.60	0.265	1.60	0.42	1
4120241800	1.80	0.265	1.80	0.48	1
4120242000	2.00	0.265	2.00	0.53	1
4120242250	2.25	0.265	2.25	0.60	1
4120242500	2.50	0.265	2.50	0.66	1
grid width: 0.28 m					
4120280600	0.60	0.305	0.60	0.18	1
4120280800	0.80	0.305	0.80	0.24	1
4120281000	1.00	0.305	1.00	0.31	1
4120281200	1.20	0.305	1.20	0.37	1
4120281400	1.40	0.305	1.40	0.43	1
4120281600	1.60	0.305	1.60	0.49	1
4120281800	1.80	0.305	1.80	0.55	1
4120282000	2.00	0.305	2.00	0.61	1
4120282250	2.25	0.305	2.25	0.69	1
4120282500	2.50	0.305	2.50	0.76	1
grid width: 0.32 m					
4120320600	0.60	0.345	0.60	0.21	1
4120320800	0.80	0.345	0.80	0.28	1
4120321000	1.00	0.345	1.00	0.35	1
4120321200	1.20	0.345	1.20	0.41	1
4120321400	1.40	0.345	1.40	0.48	1
4120321600	1.60	0.345	1.60	0.55	1
4120321800	1.80	0.345	1.80	0.62	1
4120322000	2.00	0.345	2.00	0.69	1
4120322250	2.25	0.345	2.25	0.78	1
4120322500	2.50	0.345	2.50	0.86	1
grid width: 0.36 m					
4120360600	0.60	0.385	0.60	0.23	1
4120360800	0.80	0.385	0.80	0.31	1
4120361000	1.00	0.385	1.00	0.39	1
4120361200	1.20	0.385	1.20	0.46	1
4120361400	1.40	0.385	1.40	0.54	1
4120361600	1.60	0.385	1.60	0.62	1
4120361800	1.80	0.385	1.80	0.69	1
4120362000	2.00	0.385	2.00	0.77	1
4120362250	2.25	0.385	2.25	0.87	1
4120362500	2.50	0.385	2.50	0.96	1

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1. Heat conducting plates
2. Heating/cooling
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aquatherm black system high-performance module WLT

(continued) for metal panels with push-fitting connection 90°, left, right

Article no.	grid length [m]	module width [m]	module length [m]	area [m²]	PU
grid width: 0.40 m					
4120400600	0.60	0.425	0.60	0.26	1
4120400800	0.80	0.425	0.80	0.34	1
4120401000	1.00	0.425	1.00	0.43	1
4120401200	1.20	0.425	1.20	0.51	1
4120401400	1.40	0.425	1.40	0.60	1
4120401600	1.60	0.425	1.60	0.68	1
4120401800	1.80	0.425	1.80	0.77	1
4120402000	2.00	0.425	2.00	0.85	1
4120402250	2.25	0.425	2.25	0.96	1
4120402500	2.50	0.425	2.50	1.06	1
grid width: 0.48 m					
4120480600	0.60	0.505	0.60	0.30	1
4120480800	0.80	0.505	0.80	0.40	1
4120481000	1.00	0.505	1.00	0.51	1
4120481200	1.20	0.505	1.20	0.61	1
4120481400	1.40	0.505	1.40	0.71	1
4120481600	1.60	0.505	1.60	0.81	1
4120481800	1.80	0.505	1.80	0.91	1
4120482000	2.00	0.505	2.00	1.01	1
4120482250	2.25	0.505	2.25	1.14	1
4120482500	2.50	0.505	2.50	1.26	1
grid width: 0.52 m					
4120520600	0.60	0.545	0.60	0.33	1
4120520800	0.80	0.545	0.80	0.44	1
4120521000	1.00	0.545	1.00	0.55	1
4120521200	1.20	0.545	1.20	0.65	1
4120521400	1.40	0.545	1.40	0.76	1
4120521600	1.60	0.545	1.60	0.87	1
4120521800	1.80	0.545	1.80	0.98	1
4120522000	2.00	0.545	2.00	1.09	1
4120522250	2.25	0.545	2.25	1.23	1
4120522500	2.50	0.545	2.50	1.36	1
grid width: 0.56 m					
4120560600	0.60	0.585	0.60	0.35	1
4120560800	0.80	0.585	0.80	0.47	1
4120561000	1.00	0.585	1.00	0.59	1
4120561200	1.20	0.585	1.20	0.70	1
4120561400	1.40	0.585	1.40	0.82	1
4120561600	1.60	0.585	1.60	0.94	1
4120561800	1.80	0.585	1.80	1.05	1
4120562000	2.00	0.585	2.00	1.17	1
4120562250	2.25	0.585	2.25	1.32	1
4120562500	2.50	0.585	2.50	1.46	1

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1. Heat conducting plates
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aquatherm black system high-performance module WLT

(continued) for metal panels with push-fitting connection 90°, left, right

Article no.	grid length [m]	module width [m]	module length [m]	area [m²]	PU
grid width: 0.60 m					
4120600600	0.60	0.625	0.60	0.38	1
4120600800	0.80	0.625	0.80	0.50	1
4120601000	1.00	0.625	1.00	0.63	1
4120601200	1.20	0.625	1.20	0.75	1
4120601400	1.40	0.625	1.40	0.88	1
4120601600	1.60	0.625	1.60	1.00	1
4120601800	1.80	0.625	1.80	1.13	1
4120602000	2.00	0.625	2.00	1.25	1
4120602250	2.25	0.625	2.25	1.41	1
4120602500	2.50	0.625	2.50	1.56	1
grid width: 0.68 m					
4120680600	0.60	0.705	0.60	0.42	1
4120680800	0.80	0.705	0.80	0.56	1
4120681000	1.00	0.705	1.00	0.71	1
4120681200	1.20	0.705	1.20	0.85	1
4120681400	1.40	0.705	1.40	0.99	1
4120681600	1.60	0.705	1.60	1.13	1
4120681800	1.80	0.705	1.80	1.27	1
4120682000	2.00	0.705	2.00	1.41	1
4120682250	2.25	0.705	2.25	1.59	1
4120682500	2.50	0.705	2.50	1.76	1
grid width: 0.80 m					
4120800600	0.60	0.825	0.60	0.50	1
4120800800	0.80	0.825	0.80	0.66	1
4120801000	1.00	0.825	1.00	0.83	1
4120801200	1.20	0.825	1.20	0.99	1
4120801400	1.40	0.825	1.40	1.16	1
4120801600	1.60	0.825	1.60	1.32	1
4120801800	1.80	0.825	1.80	1.49	1
4120802000	2.00	0.825	2.00	1.65	1
4120802250	2.25	0.825	2.25	1.86	1
4120802500	2.50	0.825	2.50	2.06	1
grid width: 1.0 m					
4121000600	0.60	1.025	0.60	0.62	1
4121000800	0.80	1.025	0.80	0.82	1
4121001000	1.00	1.025	1.00	1.03	1
4121001200	1.20	1.025	1.20	1.23	1
4121001400	1.40	1.025	1.40	1.44	1
4121001600	1.60	1.025	1.60	1.64	1
4121001800	1.80	1.025	1.80	1.85	1
4121002000	2.00	1.025	2.00	2.05	1
4121002250	2.25	1.025	2.25	2.31	1
4121002500	2.50	1.025	2.50	2.56	1

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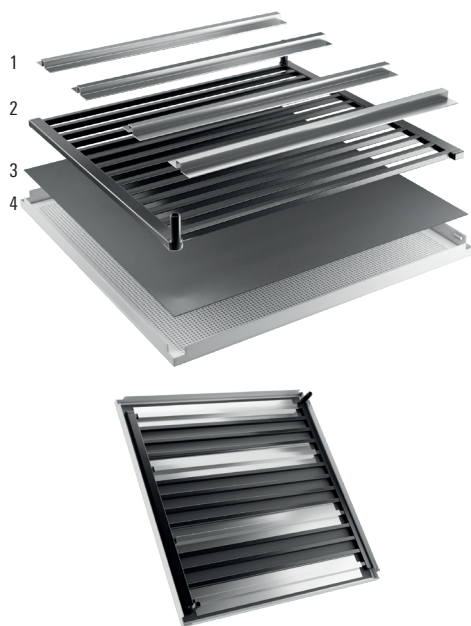
1. Heat conducting plates
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aquatherm black system high-performance module WLT

for metal panels with push-fitting connection 90°, bottom left / top right

Article no.	grid length [m]	module width [m]	module length [m]	area [m ²]	PU
grid width: 0.24 m					
4220240600	0.60	0.265	0.60	0.16	1
4220240800	0.80	0.265	0.80	0.21	1
4220241000	1.00	0.265	1.00	0.27	1
4220241200	1.20	0.265	1.20	0.32	1
4220241400	1.40	0.265	1.40	0.37	1
4220241600	1.60	0.265	1.60	0.42	1
4220241800	1.80	0.265	1.80	0.48	1
4220242000	2.00	0.265	2.00	0.53	1
4220242250	2.25	0.265	2.25	0.60	1
4220242500	2.50	0.265	2.50	0.66	1
grid width: 0.28 m					
4220280600	0.60	0.305	0.60	0.18	1
4220280800	0.80	0.305	0.80	0.24	1
4220281000	1.00	0.305	1.00	0.31	1
4220281200	1.20	0.305	1.20	0.37	1
4220281400	1.40	0.305	1.40	0.43	1
4220281600	1.60	0.305	1.60	0.49	1
4220281800	1.80	0.305	1.80	0.55	1
4220282000	2.00	0.305	2.00	0.61	1
4220282250	2.25	0.305	2.25	0.69	1
4220282500	2.50	0.305	2.50	0.76	1
grid width: 0.32 m					
4220320600	0.60	0.345	0.60	0.21	1
4220320800	0.80	0.345	0.80	0.28	1
4220321000	1.00	0.345	1.00	0.35	1
4220321200	1.20	0.345	1.20	0.41	1
4220321400	1.40	0.345	1.40	0.48	1
4220321600	1.60	0.345	1.60	0.55	1
4220321800	1.80	0.345	1.80	0.62	1
4220322000	2.00	0.345	2.00	0.69	1
4220322250	2.25	0.345	2.25	0.78	1
4220322500	2.50	0.345	2.50	0.86	1
grid width: 0.36 m					
4220360600	0.60	0.385	0.60	0.23	1
4220360800	0.80	0.385	0.80	0.31	1
4220361000	1.00	0.385	1.00	0.39	1
4220361200	1.20	0.385	1.20	0.46	1
4220361400	1.40	0.385	1.40	0.54	1
4220361600	1.60	0.385	1.60	0.62	1
4220361800	1.80	0.385	1.80	0.69	1
4220362000	2.00	0.385	2.00	0.77	1
4220362250	2.25	0.385	2.25	0.87	1
4220362500	2.50	0.385	2.50	0.96	1

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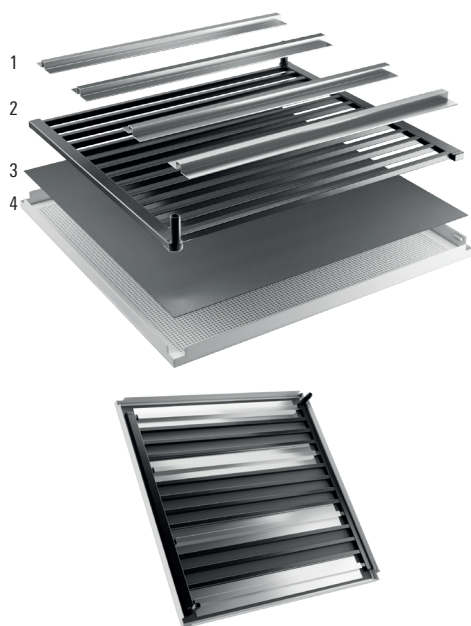
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aquatherm black system high-performance module WLT

(continued) for metal panels with push-fitting connection 90°, bottom left / top right

Article no.	grid length [m]	module width [m]	module length [m]	area [m²]	PU
grid width: 0.40 m					
4220400600	0.60	0.425	0.60	0.26	1
4220400800	0.80	0.425	0.80	0.34	1
4220401000	1.00	0.425	1.00	0.43	1
4220401200	1.20	0.425	1.20	0.51	1
4220401400	1.40	0.425	1.40	0.60	1
4220401600	1.60	0.425	1.60	0.68	1
4220401800	1.80	0.425	1.80	0.77	1
4220402000	2.00	0.425	2.00	0.85	1
4220402250	2.25	0.425	2.25	0.96	1
4220402500	2.50	0.425	2.50	1.06	1
grid width: 0.48 m					
4220480600	0.60	0.505	0.60	0.30	1
4220480800	0.80	0.505	0.80	0.40	1
4220481000	1.00	0.505	1.00	0.51	1
4220481200	1.20	0.505	1.20	0.61	1
4220481400	1.40	0.505	1.40	0.71	1
4220481600	1.60	0.505	1.60	0.81	1
4220481800	1.80	0.505	1.80	0.91	1
4220482000	2.00	0.505	2.00	1.01	1
4220482250	2.25	0.505	2.25	1.14	1
4220482500	2.50	0.505	2.50	1.26	1
grid width: 0.52 m					
4220520600	0.60	0.545	0.60	0.33	1
4220520800	0.80	0.545	0.80	0.44	1
4220521000	1.00	0.545	1.00	0.55	1
4220521200	1.20	0.545	1.20	0.65	1
4220521400	1.40	0.545	1.40	0.76	1
4220521600	1.60	0.545	1.60	0.87	1
4220521800	1.80	0.545	1.80	0.98	1
4220522000	2.00	0.545	2.00	1.09	1
4220522250	2.25	0.545	2.25	1.23	1
4220522500	2.50	0.545	2.50	1.36	1
grid width: 0.56 m					
4220560600	0.60	0.585	0.60	0.35	1
4220560800	0.80	0.585	0.80	0.47	1
4220561000	1.00	0.585	1.00	0.59	1
4220561200	1.20	0.585	1.20	0.70	1
4220561400	1.40	0.585	1.40	0.82	1
4220561600	1.60	0.585	1.60	0.94	1
4220561800	1.80	0.585	1.80	1.05	1
4220562000	2.00	0.585	2.00	1.17	1
4220562250	2.25	0.585	2.25	1.32	1
4220562500	2.50	0.585	2.50	1.46	1

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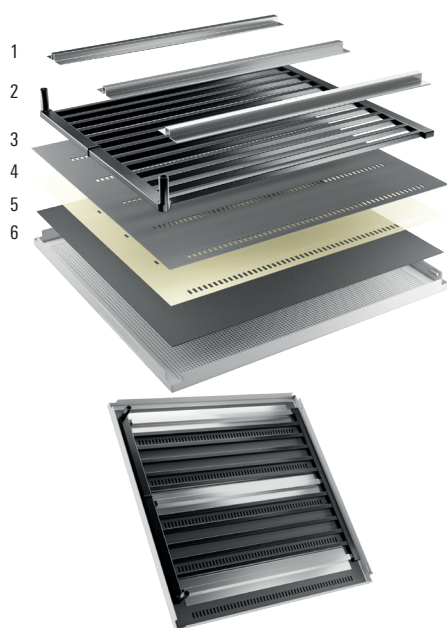


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aquatherm black system high-performance module WLT

(continued) for metal panels with push-fitting connection 90°, bottom left / top right

Article no.	grid length [m]	module width [m]	module length [m]	area [m²]	PU
grid width: 0.60 m					
4220600600	0.60	0.625	0.60	0.38	1
4220600800	0.80	0.625	0.80	0.50	1
4220601000	1.00	0.625	1.00	0.63	1
4220601200	1.20	0.625	1.20	0.75	1
4220601400	1.40	0.625	1.40	0.88	1
4220601600	1.60	0.625	1.60	1.00	1
4220601800	1.80	0.625	1.80	1.13	1
4220602000	2.00	0.625	2.00	1.25	1
4220602250	2.25	0.625	2.25	1.41	1
4220602500	2.50	0.625	2.50	1.56	1
grid width: 0.68 m					
4221000600	0.60	0.705	0.60	0.42	1
4221000800	0.80	0.705	0.80	0.56	1
4221001000	1.00	0.705	1.00	0.71	1
4221001200	1.20	0.705	1.20	0.85	1
4221001400	1.40	0.705	1.40	0.99	1
4221001600	1.60	0.705	1.60	1.13	1
4221001800	1.80	0.705	1.80	1.27	1
4221002000	2.00	0.705	2.00	1.41	1
4221002250	2.25	0.705	2.25	1.59	1
4221002500	2.50	0.705	2.50	1.76	1
grid width: 0.80 m					
4220680600	0.60	0.825	0.60	0.50	1
4220680800	0.80	0.825	0.80	0.66	1
4220681000	1.00	0.825	1.00	0.83	1
4220681200	1.20	0.825	1.20	0.99	1
4220681400	1.40	0.825	1.40	1.16	1
4220681600	1.60	0.825	1.60	1.32	1
4220681800	1.80	0.825	1.80	1.49	1
4220682000	2.00	0.825	2.00	1.65	1
4220682250	2.25	0.825	2.25	1.86	1
4220682500	2.50	0.825	2.50	2.06	1
grid width: 1.0 m					
4220800600	0.60	1.025	0.60	0.62	1
4220800800	0.80	1.025	0.80	0.82	1
4220801000	1.00	1.025	1.00	1.03	1
4220801200	1.20	1.025	1.20	1.23	1
4220801400	1.40	1.025	1.40	1.44	1
4220801600	1.60	1.025	1.60	1.64	1
4220801800	1.80	1.025	1.80	1.85	1
4220802000	2.00	1.025	2.00	2.05	1
4220802250	2.25	1.025	2.25	2.31	1
4220802500	2.50	1.025	2.50	2.56	1

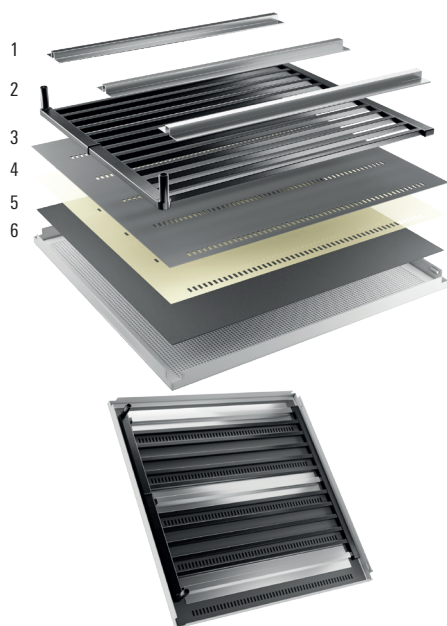


1. Heat conducting plates
2. Heating/cooling grid
3. Carrier plate (adhesive active)
4. Protective film (removed when bonding)
5. Acoustic fleece
6. Metal plate

aquatherm black system high-performance module plug & play 'solo'

for metal panels with push-fitting connection 90°, left, right

Article no.	grid length [m]	module width [m]	module length [m]	area [m²]	PU
grid width: 0.24 m					
4130240600	0.60	0.300	0.60	0.18	1
4130240800	0.80	0.300	0.80	0.24	1
4130241000	1.00	0.300	1.00	0.30	1
4130241200	1.20	0.300	1.20	0.36	1
4130241400	1.40	0.300	1.40	0.42	1
4130241600	1.60	0.300	1.60	0.48	1
4130241800	1.80	0.300	1.80	0.54	1
4130242000	2.00	0.300	2.00	0.60	1
4130242250	2.25	0.300	2.25	0.68	1
4130242500	2.50	0.300	2.50	0.75	1
grid width: 0.36 m					
4130360600	0.60	0.400	0.60	0.24	1
4130360800	0.80	0.400	0.80	0.32	1
4130361000	1.00	0.400	1.00	0.40	1
4130361200	1.20	0.400	1.20	0.48	1
4130361400	1.40	0.400	1.40	0.56	1
4130361600	1.60	0.400	1.60	0.64	1
4130361800	1.80	0.400	1.80	0.72	1
4130362000	2.00	0.400	2.00	0.80	1
4130362250	2.25	0.400	2.25	0.90	1
4130362500	2.50	0.400	2.50	1.00	1
grid width: 0.40 m					
4130400600	0.60	0.500	0.60	0.30	1
4130400800	0.80	0.500	0.80	0.40	1
4130401000	1.00	0.500	1.00	0.50	1
4130401200	1.20	0.500	1.20	0.60	1
4130401400	1.40	0.500	1.40	0.70	1
4130401600	1.60	0.500	1.60	0.80	1
4130401800	1.80	0.500	1.80	0.90	1
4130402000	2.00	0.500	2.00	1.00	1
4130402250	2.25	0.500	2.25	1.13	1
4130402500	2.50	0.500	2.50	1.25	1



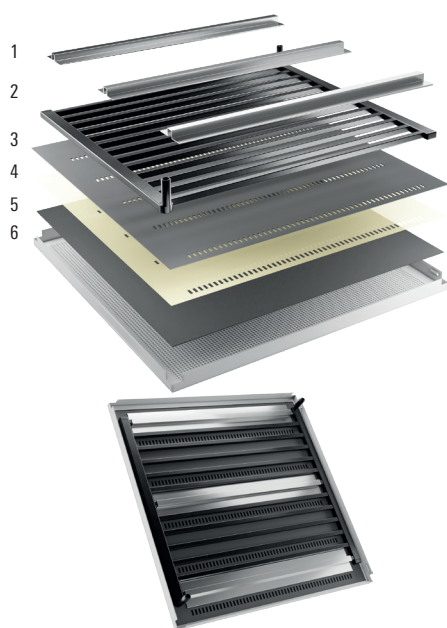
1. Heat conducting plates
2. Heating/cooling grid
3. Carrier plate (adhesive active)
4. Protective film (removed when bonding)
5. Acoustic fleece
6. Metal plate

aquatherm black system high-performance module plug & play 'solo'

(continued) for metal panels with push-fitting connection 90°, left, right

Article no.	grid length [m]	module width [m]	module length [m]	area [m²]	PU
grid width: 0.52 m					
4130520600	0.60	0.600	0.60	0.36	1
4130520800	0.80	0.600	0.80	0.48	1
4130521000	1.00	0.600	1.00	0.60	1
4130521200	1.20	0.600	1.20	0.72	1
4130521400	1.40	0.600	1.40	0.84	1
4130521600	1.60	0.600	1.60	0.96	1
4130521800	1.80	0.600	1.80	1.08	1
4130522000	2.00	0.600	2.00	1.20	1
4130522250	2.25	0.600	2.25	1.35	1
4130522500	2.50	0.600	2.50	1.50	1
grid width: 0.60 m					
4130600600	0.60	0.700	0.60	0.42	1
4130600800	0.80	0.700	0.80	0.56	1
4130601000	1.00	0.700	1.00	0.70	1
4130601200	1.20	0.700	1.20	0.84	1
4130601400	1.40	0.700	1.40	0.98	1
4130601600	1.60	0.700	1.60	1.12	1
4130601800	1.80	0.700	1.80	1.26	1
4130602000	2.00	0.700	2.00	1.40	1
4130602250	2.25	0.700	2.25	1.58	1
4130602500	2.50	0.700	2.50	1.75	1
grid width: 0.80 m					
4130800600	0.60	0.900	0.60	0.54	1
4130800800	0.80	0.900	0.80	0.72	1
4130801000	1.00	0.900	1.00	0.90	1
4130801200	1.20	0.900	1.20	1.08	1
4130801400	1.40	0.900	1.40	1.26	1
4130801600	1.60	0.900	1.60	1.44	1
4130801800	1.80	0.900	1.80	1.62	1
4130802000	2.00	0.900	2.00	1.80	1
4130802250	2.25	0.900	2.25	2.03	1
4130802500	2.50	0.900	2.50	2.25	1

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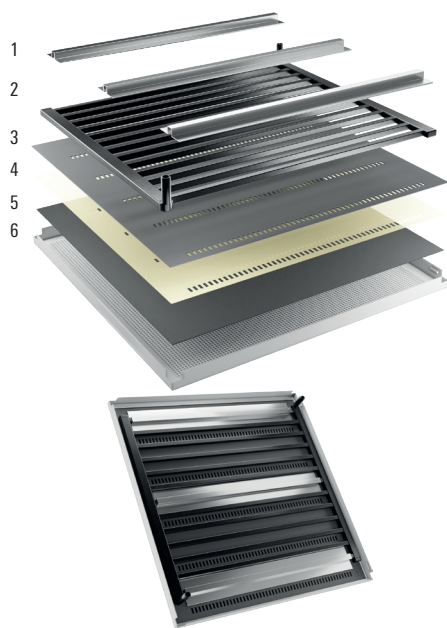
1. Heat conducting plates
2. Heating/cooling grid
3. Carrier plate (adhesive active)
4. Protective film (removed when bonding)
5. Acoustic fleece
6. Metal plate

aquatherm black system high-performance module plug & play 'solo'

for metal panels with push-fitting connection 90°, bottom left / top right

Article no.	grid length [m]	module width [m]	module length [m]	area [m²]	PU
grid width: 0.24 m					
4230240600	0.60	0.300	0.60	0.18	1
4230240800	0.80	0.300	0.80	0.24	1
4230241000	1.00	0.300	1.00	0.30	1
4230241200	1.20	0.300	1.20	0.36	1
4230241400	1.40	0.300	1.40	0.42	1
4230241600	1.60	0.300	1.60	0.48	1
4230241800	1.80	0.300	1.80	0.54	1
4230242000	2.00	0.300	2.00	0.60	1
4230242250	2.25	0.300	2.25	0.68	1
4230242500	2.50	0.300	2.50	0.75	1
grid width: 0.36 m					
4230360600	0.60	0.400	0.60	0.24	1
4230360800	0.80	0.400	0.80	0.32	1
4230361000	1.00	0.400	1.00	0.40	1
4230361200	1.20	0.400	1.20	0.48	1
4230361400	1.40	0.400	1.40	0.56	1
4230361600	1.60	0.400	1.60	0.64	1
4230361800	1.80	0.400	1.80	0.72	1
4230362000	2.00	0.400	2.00	0.80	1
4230362250	2.25	0.400	2.25	0.90	1
4230362500	2.50	0.400	2.50	1.00	1
grid width: 0.40 m					
4230400600	0.60	0.500	0.60	0.30	1
4230400800	0.80	0.500	0.80	0.40	1
4230401000	1.00	0.500	1.00	0.50	1
4230401200	1.20	0.500	1.20	0.60	1
4230401400	1.40	0.500	1.40	0.70	1
4230401600	1.60	0.500	1.60	0.80	1
4230401800	1.80	0.500	1.80	0.90	1
4230402000	2.00	0.500	2.00	1.00	1
4230402250	2.25	0.500	2.25	1.13	1
4230402500	2.50	0.500	2.50	1.25	1

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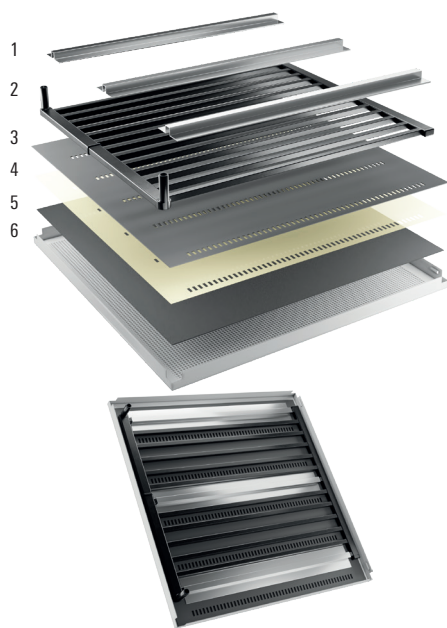
1. Heat conducting plates
2. Heating/cooling grid
3. Carrier plate (adhesive active)
4. Protective film (removed when bonding)
5. Acoustic fleece
6. Metal plate

aquatherm black system high-performance module plug & play 'solo'

(continued) for metal panels with push-fitting connection 90°, bottom left / top right

Article no.	grid length [m]	module width [m]	module length [m]	area [m²]	PU
grid width: 0.52 m					
4230520600	0.60	0.600	0.60	0.36	1
4230520800	0.80	0.600	0.80	0.48	1
4230521000	1.00	0.600	1.00	0.60	1
4230521200	1.20	0.600	1.20	0.72	1
4230521400	1.40	0.600	1.40	0.84	1
4230521600	1.60	0.600	1.60	0.96	1
4230521800	1.80	0.600	1.80	1.08	1
4230522000	2.00	0.600	2.00	1.20	1
4230522250	2.25	0.600	2.25	1.35	1
4230522500	2.50	0.600	2.50	1.50	1
grid width: 0.60 m					
4230600600	0.60	0.700	0.60	0.42	1
4230600800	0.80	0.700	0.80	0.56	1
4230601000	1.00	0.700	1.00	0.70	1
4230601200	1.20	0.700	1.20	0.84	1
4230601400	1.40	0.700	1.40	0.98	1
4230601600	1.60	0.700	1.60	1.12	1
4230601800	1.80	0.700	1.80	1.26	1
4230602000	2.00	0.700	2.00	1.40	1
4230602250	2.25	0.700	2.25	1.58	1
4230602500	2.50	0.700	2.50	1.75	1
grid width: 0.80 m					
4230800600	0.60	0.900	0.60	0.54	1
4230800800	0.80	0.900	0.80	0.72	1
4230801000	1.00	0.900	1.00	0.90	1
4230801200	1.20	0.900	1.20	1.08	1
4230801400	1.40	0.900	1.40	1.26	1
4230801600	1.60	0.900	1.60	1.44	1
4230801800	1.80	0.900	1.80	1.62	1
4230802000	2.00	0.900	2.00	1.80	1
4230802250	2.25	0.900	2.25	2.03	1
4230802500	2.50	0.900	2.50	2.25	1

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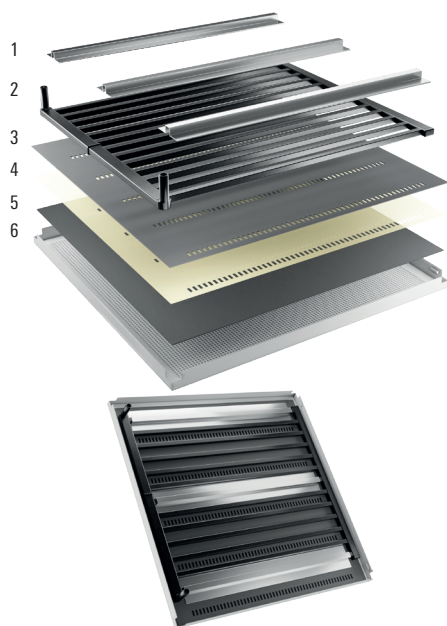
1. Heat conducting plates
2. Heating/cooling grid
3. Carrier plate (adhesive active)
4. Protective film (removed when bonding)
5. Acoustic fleece
6. Metal plate

aquatherm black system high-performance module plug & play 'activated'

for metal panels with push-fitting connection 90°, left, right

Article no.	grid length [m]	module width [m]	module length [m]	area [m²]	PU
grid width: 0.24 m					
4140240600	0.60	0.300	0.60	0.18	1
4140240800	0.80	0.300	0.80	0.24	1
4140241000	1.00	0.300	1.00	0.30	1
4140241200	1.20	0.300	1.20	0.36	1
4140241400	1.40	0.300	1.40	0.42	1
4140241600	1.60	0.300	1.60	0.48	1
4140241800	1.80	0.300	1.80	0.54	1
4140242000	2.00	0.300	2.00	0.60	1
4140242250	2.25	0.300	2.25	0.68	1
4140242500	2.50	0.300	2.50	0.75	1
grid width: 0.36 m					
4140360600	0.60	0.400	0.60	0.24	1
4140360800	0.80	0.400	0.80	0.32	1
4140361000	1.00	0.400	1.00	0.40	1
4140361200	1.20	0.400	1.20	0.48	1
4140361400	1.40	0.400	1.40	0.56	1
4140361600	1.60	0.400	1.60	0.64	1
4140361800	1.80	0.400	1.80	0.72	1
4140362000	2.00	0.400	2.00	0.80	1
4140362250	2.25	0.400	2.25	0.90	1
4140362500	2.50	0.400	2.50	1.00	1
grid width: 0.40 m					
4140400600	0.60	0.500	0.60	0.30	1
4140400800	0.80	0.500	0.80	0.40	1
4140401000	1.00	0.500	1.00	0.50	1
4140401200	1.20	0.500	1.20	0.60	1
4140401400	1.40	0.500	1.40	0.70	1
4140401600	1.60	0.500	1.60	0.80	1
4140401800	1.80	0.500	1.80	0.90	1
4140402000	2.00	0.500	2.00	1.00	1
4140402250	2.25	0.500	2.25	1.13	1
4140402500	2.50	0.500	2.50	1.25	1

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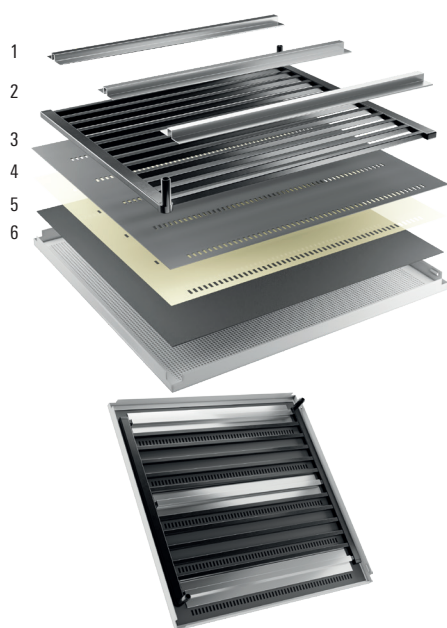
1. Heat conducting plates
2. Heating/cooling grid
3. Carrier plate (adhesive active)
4. Protective film (removed when bonding)
5. Acoustic fleece
6. Metal plate

aquatherm black system high-performance module plug & play 'activated'

(continued) for metal panels with push-fitting connection 90°, left, right

Article no.	grid length [m]	module width [m]	module length [m]	area [m²]	PU
grid width: 0.52 m					
4140520600	0.60	0.600	0.60	0.36	1
4140520800	0.80	0.600	0.80	0.48	1
4140521000	1.00	0.600	1.00	0.60	1
4140521200	1.20	0.600	1.20	0.72	1
4140521400	1.40	0.600	1.40	0.84	1
4140521600	1.60	0.600	1.60	0.96	1
4140521800	1.80	0.600	1.80	1.08	1
4140522000	2.00	0.600	2.00	1.20	1
4140522250	2.25	0.600	2.25	1.35	1
4140522500	2.50	0.600	2.50	1.50	1
grid width: 0.60 m					
4140600600	0.60	0.700	0.60	0.42	1
4140600800	0.80	0.700	0.80	0.56	1
4140601000	1.00	0.700	1.00	0.70	1
4140601200	1.20	0.700	1.20	0.84	1
4140601400	1.40	0.700	1.40	0.98	1
4140601600	1.60	0.700	1.60	1.12	1
4140601800	1.80	0.700	1.80	1.26	1
4140602000	2.00	0.700	2.00	1.40	1
4140602250	2.25	0.700	2.25	1.58	1
4140602500	2.50	0.700	2.50	1.75	1
grid width: 0.80 m					
4140800600	0.60	0.900	0.60	0.54	1
4140800800	0.80	0.900	0.80	0.72	1
4140801000	1.00	0.900	1.00	0.90	1
4140801200	1.20	0.900	1.20	1.08	1
4140801400	1.40	0.900	1.40	1.26	1
4140801600	1.60	0.900	1.60	1.44	1
4140801800	1.80	0.900	1.80	1.62	1
4140802000	2.00	0.900	2.00	1.80	1
4140802250	2.25	0.900	2.25	2.03	1
4140802500	2.50	0.900	2.50	2.25	1

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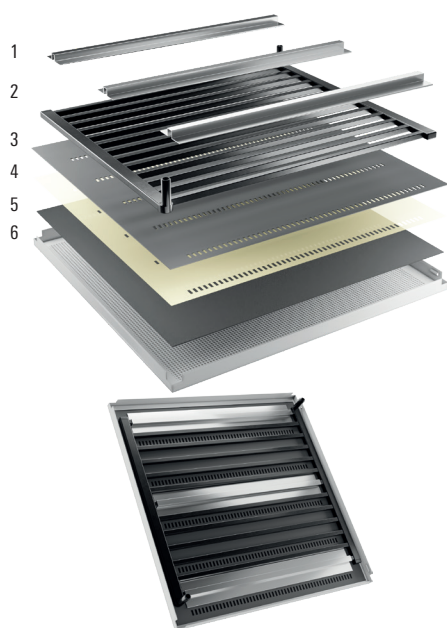
1. Heat conducting plates
2. Heating/cooling grid
3. Carrier plate (adhesive active)
4. Protective film (removed when bonding)
5. Acoustic fleece
6. Metal plate

aquatherm black system high-performance module plug & play 'activated'

for metal panels with push-fitting connection 90°, bottom left / top right

Article no.	grid length [m]	module width [m]	module length [m]	area [m²]	PU
grid width: 0.24 m					
4240240600	0.60	0.300	0.60	0.18	1
4240240800	0.80	0.300	0.80	0.24	1
4240241000	1.00	0.300	1.00	0.30	1
4240241200	1.20	0.300	1.20	0.36	1
4240241400	1.40	0.300	1.40	0.42	1
4240241600	1.60	0.300	1.60	0.48	1
4240241800	1.80	0.300	1.80	0.54	1
4240242000	2.00	0.300	2.00	0.60	1
4240242250	2.25	0.300	2.25	0.68	1
4240242500	2.50	0.300	2.50	0.75	1
grid width: 0.36 m					
4240360600	0.60	0.400	0.60	0.24	1
4240360800	0.80	0.400	0.80	0.32	1
4240361000	1.00	0.400	1.00	0.40	1
4240361200	1.20	0.400	1.20	0.48	1
4240361400	1.40	0.400	1.40	0.56	1
4240361600	1.60	0.400	1.60	0.64	1
4240361800	1.80	0.400	1.80	0.72	1
4240362000	2.00	0.400	2.00	0.80	1
4240362250	2.25	0.400	2.25	0.90	1
4240362500	2.50	0.400	2.50	1.00	1
grid width: 0.40 m					
4240400600	0.60	0.500	0.60	0.30	1
4240400800	0.80	0.500	0.80	0.40	1
4240401000	1.00	0.500	1.00	0.50	1
4240401200	1.20	0.500	1.20	0.60	1
4240401400	1.40	0.500	1.40	0.70	1
4240401600	1.60	0.500	1.60	0.80	1
4240401800	1.80	0.500	1.80	0.90	1
4240402000	2.00	0.500	2.00	1.00	1
4240402250	2.25	0.500	2.25	1.13	1
4240402500	2.50	0.500	2.50	1.25	1

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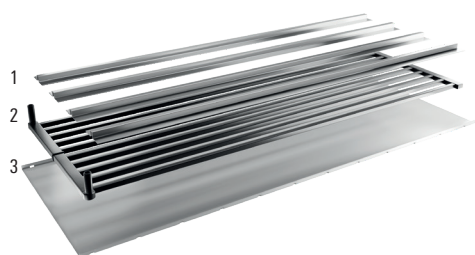


1. Heat conducting plates
2. Heating/cooling grid
3. Carrier plate (adhesive active)
4. Protective film (removed when bonding)
5. Acoustic fleece
6. Metal plate

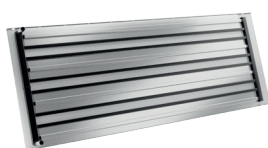
aquatherm black system high-performance module plug & play 'activated'

(continued) for metal panels with push-fitting connection 90°, bottom left / top right

Article no.	grid length [m]	module width [m]	module length [m]	area [m²]	PU
grid width: 0.52 m					
4240520600	0.60	0.600	0.60	0.36	1
4240520800	0.80	0.600	0.80	0.48	1
4240521000	1.00	0.600	1.00	0.60	1
4240521200	1.20	0.600	1.20	0.72	1
4240521400	1.40	0.600	1.40	0.84	1
4240521600	1.60	0.600	1.60	0.96	1
4240521800	1.80	0.600	1.80	1.08	1
4240522000	2.00	0.600	2.00	1.20	1
4240522250	2.25	0.600	2.25	1.35	1
4240522500	2.50	0.600	2.50	1.50	1
grid width: 0.60 m					
4240600600	0.60	0.700	0.60	0.42	1
4240600800	0.80	0.700	0.80	0.56	1
4240601000	1.00	0.700	1.00	0.70	1
4240601200	1.20	0.700	1.20	0.84	1
4240601400	1.40	0.700	1.40	0.98	1
4240601600	1.60	0.700	1.60	1.12	1
4240601800	1.80	0.700	1.80	1.26	1
4240602000	2.00	0.700	2.00	1.40	1
4240602250	2.25	0.700	2.25	1.58	1
4240602500	2.50	0.700	2.50	1.75	1
grid width: 0.80 m					
4240800600	0.60	0.900	0.60	0.54	1
4240800800	0.80	0.900	0.80	0.72	1
4240801000	1.00	0.900	1.00	0.90	1
4240801200	1.20	0.900	1.20	1.08	1
4240801400	1.40	0.900	1.40	1.26	1
4240801600	1.60	0.900	1.60	1.44	1
4240801800	1.80	0.900	1.80	1.62	1
4240802000	2.00	0.900	2.00	1.80	1
4240802250	2.25	0.900	2.25	2.03	1
4240802500	2.50	0.900	2.50	2.25	1



1. Heat conducting plates
2. Heating/cooling grid
3. Carrier plate (closed or perforated)

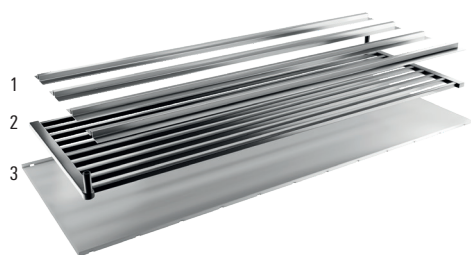


aquatherm black system high-performance module drywall

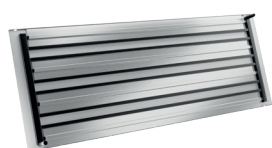
Drywall ceiling system with metal substructure and 90° push-fitting connection left, suitable for use in acoustic ceilings with perforated aluminium carrier plate.

Article no.	grid length [m]	module width [m]	module length [m]	area [m ²]	PU
grid width: 0.24 m					
4150240600	0.60	0.263	0.60	0.16	1
4150240800	0.80	0.263	0.80	0.21	1
4150241000	1.00	0.263	1.00	0.26	1
4150241200	1.20	0.263	1.20	0.32	1
4150241400	1.40	0.263	1.40	0.37	1
4150241600	1.60	0.263	1.60	0.42	1
4150241800	1.80	0.263	1.80	0.47	1
4150242000	2.00	0.263	2.00	0.53	1
4150242250	2.25	0.263	2.25	0.59	1
4150242500	2.50	0.263	2.50	0.66	1
grid width: 0.32 m					
4150320600	0.60	0.330	0.60	0.20	1
4150320800	0.80	0.330	0.80	0.26	1
4150321000	1.00	0.330	1.00	0.33	1
4150321200	1.20	0.330	1.20	0.40	1
4150321400	1.40	0.330	1.40	0.46	1
4150321600	1.60	0.330	1.60	0.53	1
4150321800	1.80	0.330	1.80	0.59	1
4150322000	2.00	0.330	2.00	0.66	1
4150322250	2.25	0.330	2.25	0.74	1
4150322500	2.50	0.330	2.50	0.83	1
grid width: 0.40 m					
4150400600	0.60	0.430	0.60	0.26	1
4150400800	0.80	0.430	0.80	0.34	1
4150401000	1.00	0.430	1.00	0.43	1
4150401200	1.20	0.430	1.20	0.52	1
4150401400	1.40	0.430	1.40	0.60	1
4150401600	1.60	0.430	1.60	0.69	1
4150401800	1.80	0.430	1.80	0.77	1
4150402000	2.00	0.430	2.00	0.86	1
4150402250	2.25	0.430	2.25	0.97	1
4150402500	2.50	0.430	2.50	1.08	1

continued on next page ...



1. Heat conducting plates
2. Heating/cooling grid
3. Carrier plate (closed or perforated)



aquatherm black system high-performance module drywall

Drywall ceiling system with metal substructure and 90° push-fitting connection left, suitable for use in acoustic ceilings with perforated aluminium carrier plate.

Article no.	grid length [m]	module width [m]	module length [m]	area [m ²]	PU
grid width: 0.24 m					
4250240600	0.60	0.263	0.60	0.16	1
4250240800	0.80	0.263	0.80	0.21	1
4250241000	1.00	0.263	1.00	0.26	1
4250241200	1.20	0.263	1.20	0.32	1
4250241400	1.40	0.263	1.40	0.37	1
4250241600	1.60	0.263	1.60	0.42	1
4250241800	1.80	0.263	1.80	0.47	1
4250242000	2.00	0.263	2.00	0.53	1
4250242250	2.25	0.263	2.25	0.59	1
4250242500	2.50	0.263	2.50	0.66	1
grid width: 0.32 m					
4250320600	0.60	0.330	0.60	0.20	1
4250320800	0.80	0.330	0.80	0.26	1
4250321000	1.00	0.330	1.00	0.33	1
4250321200	1.20	0.330	1.20	0.40	1
4250321400	1.40	0.330	1.40	0.46	1
4250321600	1.60	0.330	1.60	0.53	1
4250321800	1.80	0.330	1.80	0.59	1
4250322000	2.00	0.330	2.00	0.66	1
4250322250	2.25	0.330	2.25	0.74	1
4250322500	2.50	0.330	2.50	0.83	1
grid width: 0.40 m					
4250400600	0.60	0.430	0.60	0.26	1
4250400800	0.80	0.430	0.80	0.34	1
4250401000	1.00	0.430	1.00	0.43	1
4250401200	1.20	0.430	1.20	0.52	1
4250401400	1.40	0.430	1.40	0.60	1
4250401600	1.60	0.430	1.60	0.69	1
4250401800	1.80	0.430	1.80	0.77	1
4250402000	2.00	0.430	2.00	0.86	1
4250402250	2.25	0.430	2.25	0.97	1
4250402500	2.50	0.430	2.50	1.08	1



MORE INFORMATION

aquatherm black system Surface heating and cooling system for ceiling, wall, floor

Order-No.: 9900000063

Mitglied des



Management
System
ISO 9001:2015
ISO 14001:2015
ISO 50001:2011
www.tuv.com
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