
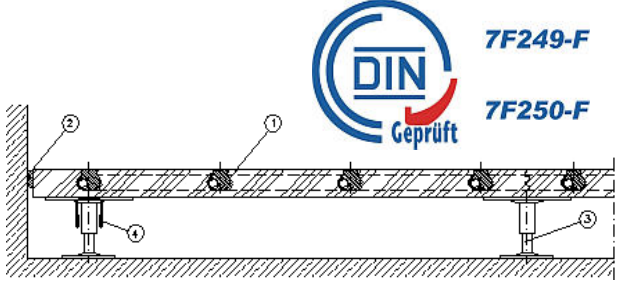


Technical Data	Combi TA Thermo		
<p>Panel: Panel material: Dimension: Diffusion barrier: System weight: Available pipe centres: Heating pipe:</p> <p>Body filler:</p> <p>Substructure: Module: Reinforced peripheral zone: Pedestal material: Construction height:</p> <p>Floor coverings / readiness for laying of floor coverings: *</p> <p>First heating: Readiness for laying of floor coverings:</p> <p>Load values: Point load: Load class according to EN 13213: Ultimate load: Higher nominal loads: Safety factor:</p> <p>Fire protection: Building material class acc. to EN 13501-1: Fire resistance class acc. to DIN 4102 T2:</p> <p>Acoustic values:</p> <ul style="list-style-type: none"> • Sound reduction index $R_{L,w,P}$ • Normalized impact sound pressure level $L_{n,w,P}$ • Improvement of sound pressure level reduction $\Delta L_{w,P}$ <p>Survey of standard system panels:</p> 	 <p>1 Supporting panel with cut-out for heating pipe, with diffusion barrier underneath</p> <p>2 Self adhesive foam tape</p> <p>3 Pedestal</p> <p>4 Reinforcement</p> <p>Fibre-reinforced calcium sulphate 32 – 44 mm 600 x 600 mm (ZF) underneath Approx. 50 to 68 kg/m² 100 mm, 150 mm Uponor PE-Xa 14 x 2 mm airtight acc. to DIN 4726</p> <p>Special body filler, wheel chair resistant, temperature-resistant</p> <p>600 x 600 mm Optional available Galvanized steel pedestals ~ 65 – 800 mm</p> <p>Textile and elastic floor coverings, parquet, natural and artificial stone, ceramic</p> <p>Beginning 36 hours after grouting for a period of 48 hours directly after the first heating period and cooling down</p> <p>3.000 – 5.000 N Claas 2 – 5 ≥ 6.000 – 10.000 N optional available ≥ 2,0</p> <p>A1 F30 possible</p> <p>Depending on system and floor covering</p> <p>New terms acc. to DIN EN Standard flank level difference $D_{n,f,w,P}$ Standard flank impact sound level $L_{n,f,w,P}$ Impact sound reduction $\Delta L_{w,P}$</p>	<p>DIN Geprüft Nr. 3V210 PEX</p>	
	<p>Beside these standard system panels further special panels are available on request.</p>		
<p>* The MERO hollow floor corresponds to the standard DIN EN 13213. The allowed deflections are to be taken into consideration by the planning of the subsequent crafts.</p>			

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Performance diagrams heating and cooling

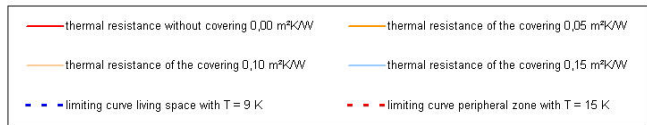
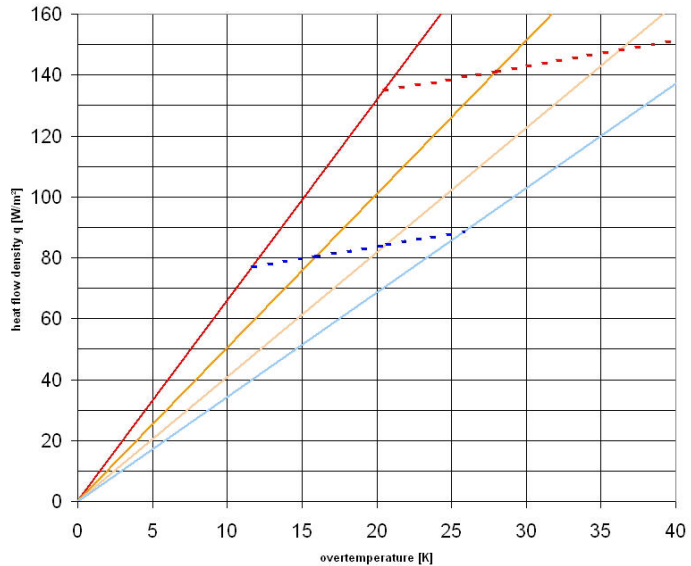
Heating

Heat flow density q_G acc. to DIN EN 1264-2 (without floor covering, $R_{\lambda}=0,00 \text{ m}^2\text{K/W}$)	77,0	W/m ²
at nominal heating liquid overtemperature $\Delta\theta_H$	11,69	K
Heat flow density q_G acc. to DIN EN 1264-2 (with floor covering, $R_{\lambda}=0,15 \text{ m}^2\text{K/W}$)	88,9	W/m ²
at nominal heating liquid overtemperature $\Delta\theta_H$	25,89	K
thermal resistance of coverings		
$R_{\lambda,B}$ carpet	0,07	m ² K/W
	—	
	0,23	
$R_{\lambda,B}$ ceramic tiles / stone	0,02	m ² K/W
$R_{\lambda,B}$ PVC	0,01	m ² K/W



Pipe centre 100 mm

heat flow density (heating power) of the UFH with pipe centre 100 mm



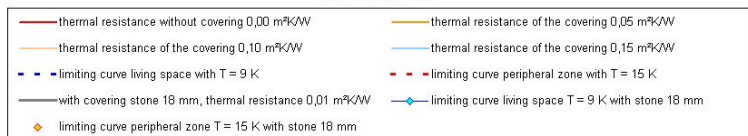
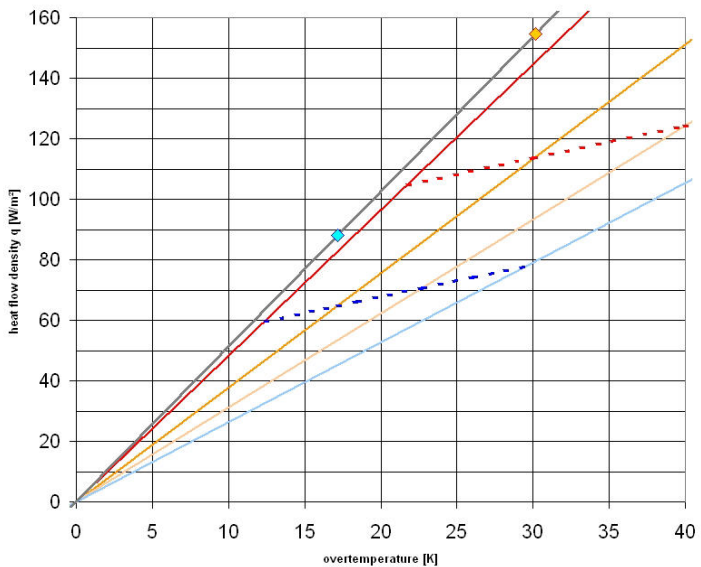
Heating

Heat flow density q_G acc. to DIN EN 1264-2 (without floor covering) $R_{\lambda}=0,00 \text{ m}^2\text{K/W}$	59,7	W/m ²
at nominal heating liquid overtemperature $\Delta\theta_H$	12,39	K
Heat flow density q_G acc. to DIN EN 1264-2 (with floor covering, $R_{\lambda}=0,15 \text{ m}^2\text{K/W}$)	78,0	W/m ²
at nominal heating liquid overtemperature $\Delta\theta_H$	29,54	K
thermal resistance of coverings		
$R_{\lambda,B}$ carpet	0,07	m ² K/W
	—	
	0,23	
$R_{\lambda,B}$ ceramic tiles / stone	0,02	m ² K/W
$R_{\lambda,B}$ PVC	0,01	m ² K/W



Pipe centre 150 mm

heat flow density (heating power) of the UFH with pipe centre 150 mm



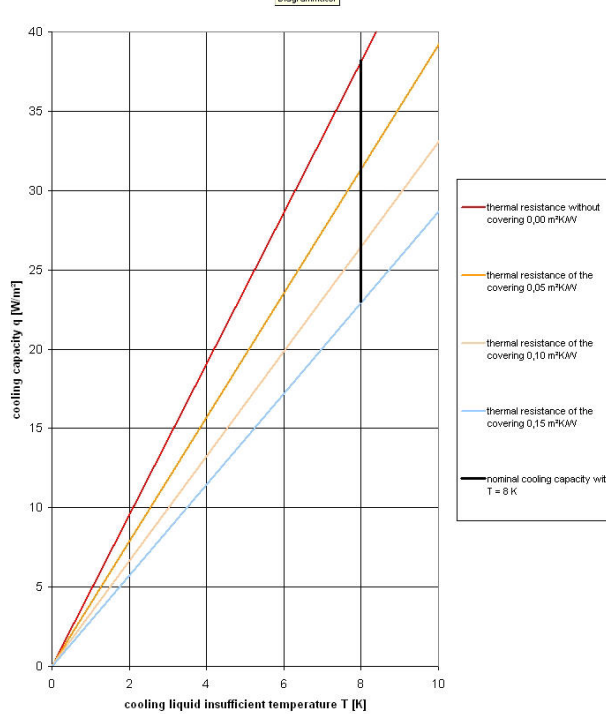
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Cooling

Specific cooling capacity acc. to DIN EN 1264-5 38,2 W/m²
 nominal cooling liquid insufficient temperature $\Delta\theta_K$ 8 K

Pipe centre 100 mm

cooling capacity of the UFH with pipe centre 100 mm



Cooling

Specific cooling capacity acc. to DIN EN 1264-5 28,7 W/m²
 nominal cooling liquid insufficient temperature $\Delta\theta_K$ 8 K

Pipe centre 150 mm

cooling capacity of the UFH with pipe centre 150 mm

