



PROMONT
TECHNIKA POWIETRZA

Fin heat exchangers



Exemplary applications

The heat exchangers are produced from copper pipes $\varnothing 10 \times 0.4$ mm, $\varnothing 12 \times 0.4$ mm, $\varnothing 16 \times 0.5$ mm, and aluminium or copper fins. They are used in:

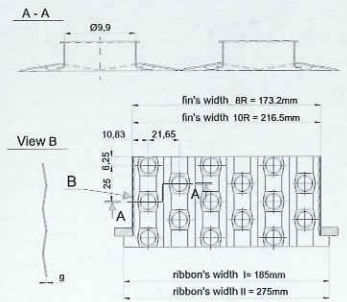
- ventilation and air-conditioning systems
- air-conditioning centrals
- heating and ventilation devices
- air-conditioners
- ventilator condensers
- technological water ventilator air coolers (dry-cooler)
- heat recovery systems with intermediate medium
- cooling shelves
- air curtains
- cooling beams.



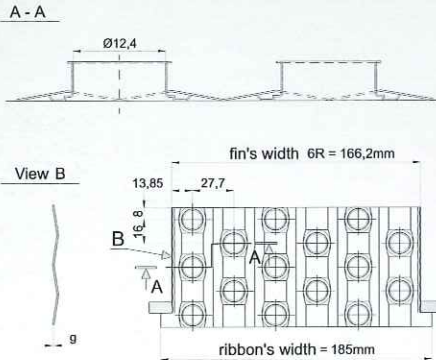
Structural elements

The heat exchangers are produced from copper pipes $\varnothing 10 \times 0.4$ mm, $\varnothing 12 \times 0.4$ mm, $\varnothing 16 \times 0.5$ mm and aluminium fins.

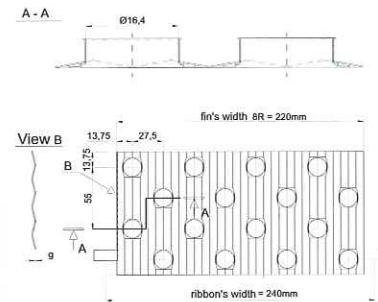
The geometry is presented in the figures below.



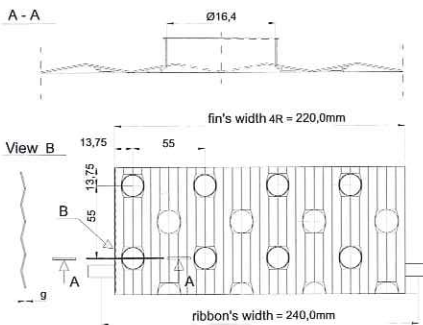
Geometry 25.0x21.65 mm for pipes $\varnothing 10 \times 0.4$



Geometry 32.0x27.7 mm for pipes $\varnothing 12 \times 0.4$



Geometry 55.0x27.5 mm for pipes $\varnothing 16 \times 0.5$



Geometry 55.0x55.0 mm for pipes $\varnothing 16 \times 0.5$

The fin are made from aluminium tape with thickness 0,12 mm, 0,20 mm, 0,30 mm.

The used tape thickness depends on flange height (exchanger fin spacing).

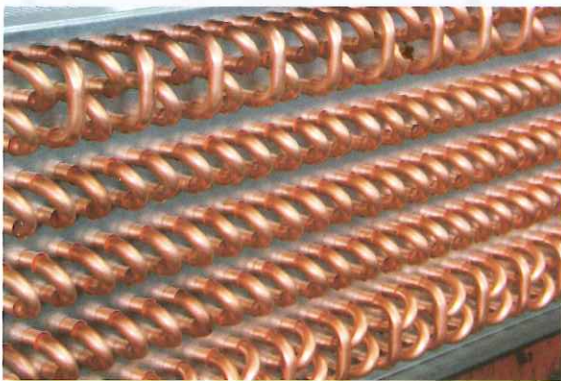
Geometry type	$g=0,12$ mm	$g=0,20$ mm	$g=0,30$ mm
	Fin spacing		
$\varnothing 10 \times 0,4$ 25,0x21,65	1,2-4,0mm (4,7mm)*		
$\varnothing 12 \times 0,4$ 32,0x27,7	1,6 ÷ 3,4mm	3,5 ÷ 7,0mm	-
$\varnothing 16 \times 0,5$ 55,0x27,5	1,6 ÷ 3,4mm	2,0 ÷ 8,0mm	2,0 ÷ 14,0mm
$\varnothing 16 \times 0,5$ 55,0x55,0	1,6 ÷ 3,4mm	2,0 ÷ 8,0mm	2,0 ÷ 14,0mm

*for special request

The exchangers housings are made from sheet:

- galvanized steel (standard)
- stainless steel/acid resistant
- aluminium.

In case of special operating conditions, the exchangers fins are made from aluminium tape, covered with epoxide resin, ammonia resistant. The copper pipes in special version are tin covered. We also produce exchangers resistant to sea water.



The collectors are made from copper or aluminium pipes. In standard version connection pipes are threaded. There are other versions available (flanges, smooth pipe).

All our exchangers are tested for leakproofness, according to the valid standards. The test pressure is:

- for water exchangers: 2.5 MPa
- for freon exchangers: 3.08 MPa.

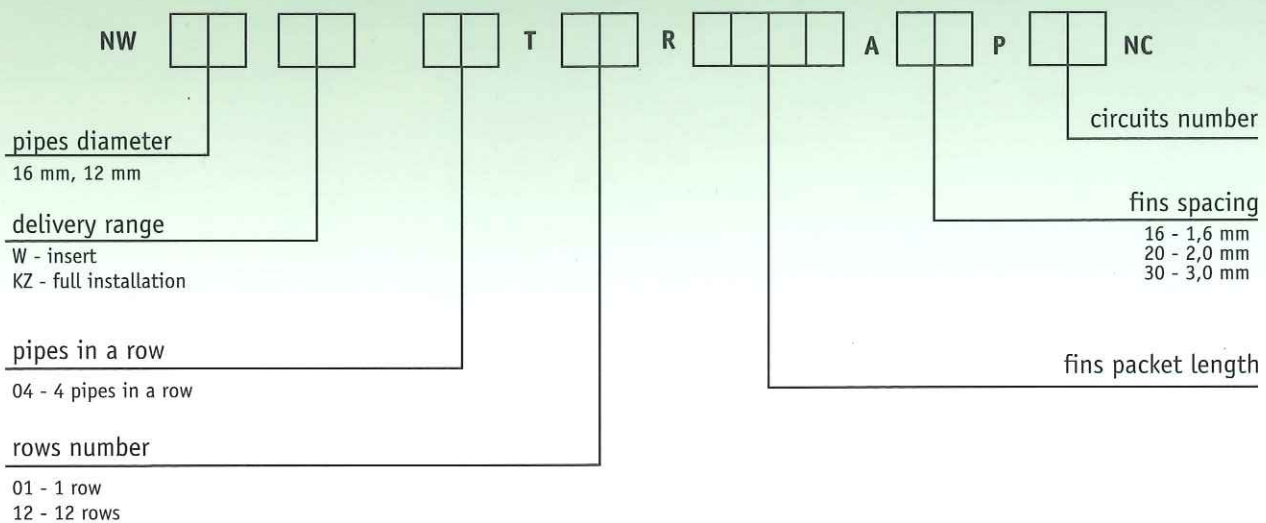
Standard operating parameters:

- maximum temperature: 110°C (160°C)
- operating pressure: 1.0 MPa.

We produce devices with other parameters on demand.



Exchanger types designation method:



Depending on the exchanger function there is designation in the symbol:

- NW** - for heaters (water or glycol)
- NP** - for steam heaters
- CW** - for coolers (water or glycol)
- CF** - for freon coolers
- SK** - for condensers.

On the basis of our heat exchangers we produce:

- ventilator condensers and coolers
- cooling beams
- ventilation centrals
- ventilator convectors
- air curtains
- heating and ventilation units, and more...

The exchangers selection may be performed by the Customer, using the tables in the catalogues, or by sending us the inquiry.

Inquiry forms and catalogue sheets are available on our www site:

www.promont-swiebodzice.pl

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