

CLEANABILITY OF KONVEKTA ENERGY RECOVERY COILS

In December 2007 Konvekta had various samples of Energy Recovery Coils with different fin spacings tested at the Institute for Air-Hygiene, the ILH Berlin for their cleanability.

The idea of the test was to get to know the maximum depth of coils with different fin spacing defined, at which they are still cleanable using a high pressure water or steam jet cleaner with 2611 psi.

The following table shows the results. Only if the water went right through, the cleanability was approved.

Cleanability of Konvekta Energy Recovery Coils				
		Test series		
		1	2	3
Fin spacing (mm)		3.0	2.5	4.0
Fin thickness (mm)		0.4	0.4	0.4
No. of tubes	No. of elements / depth of coil in mm	Results		
2	1 / 60	✓	✓	✓
4	2 / 120	✓	✓	✓
6	3 / 180	✓	✓	✓
8	4 / 240	✓	✓	✓
10	5 / 300	✓	✓	✓
12	6 / 360	✓	✓	✓
14	7 / 420	✓	✗	✓
16	8 / 480	✓	✗	✓
18	9 / 540	✓	✗	✓
20	10 / 600	✗	✗	✓

Legend:

- ✓ = not tested, as coils with bigger depth were cleanable
- ✓ = cleaning right through the complete unit
- ✗ = cleaning not throughout complete coil possible

Remark : The original report (in german) from ILH Berlin can be downloaded from the german homepage