

## Declaration regarding the efficiency of a shower heat recovery unit

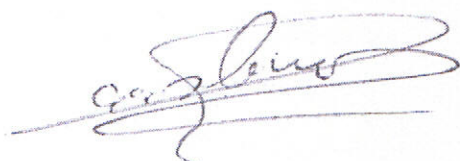
Kiwa Nederland B.V. hereby declares that of the shower heat recovery unit,

Type : HeatSnagger  
Of : Meander Heat Recovery  
In : Slependen, Norway

of which a sample supplied and installed by Meander Heat Recovery has been tested according to the method described in NEN 5128 A1:2009, published 1 May 2009 and the correction letter of TNO 26 June 2009. The measurements have shown that the sample recovers the waste energy in the shower water with an efficiency of:

class	Flow (l/min)	Volume (l)	Efficiency (%)	Flow resistance ( $\Delta P$ ) (bar)
3	9.2	73	19.7	0.24
4, 5, 6	12.5	100	17.7	0.36

Apeldoorn, 12 December 2011



Ing. A.A. Slomp,  
Product Manager,  
Kiwa Nederland B.V.

**kiwa GASTEC**

DEC 2011 1 8 0 0 3 3

Certification

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Enclosure no **1**.

**Summary of DWTW measurements**

date: 12-12-2011

Manufacturer:

Meander HR

Type:

HeatSnagger

**Efficiency:**

Measurement:	file:	measured efficiency (%):
9.2 l/min; 73l, Class 3 of NEN 5128	111128A.TPM	19.4
9.2 l/min; 73l, Class 3 of NEN 5128	111128B.TPM	19.7
9.2 l/min; 73l, Class 3 of NEN 5128	111128C.TPM	20.0
average of 3 measurements:		<b>19.7</b>

Measurement:	file:	measured efficiency (%):
12.5 l/min; 100l, Class 4,5,6 of NEN 5128	111128D.TPM	17.4
12.5 l/min; 100l, Class 4,5,6 of NEN 5128	111128E.TPM	17.8
12.5 l/min; 100l, Class 4,5,6 of NEN 5128	111128F.TPM	17.9
average of 3 measurements:		<b>17.7</b>

(measured with RMI H6)

**Differential Pressure:**

Measurement:	file:	flow resistance $\Delta P$ (bar):
pressure drop DWTW + hoses at 9.2 l/min	-	0.52
pressure drop DWTW + hoses at 12.5 l/min	-	0.85

Measurement:	file:	flow resistance $\Delta P$ (bar):
pressure drop hoses at 9.2 l/min	-	0.28
pressure drop hoses at 12.5 l/min	-	0.49

calculation:	file:	flow resistance $\Delta P$ (bar):
pressure drop DWTW at 9.2 l/min	-	<b>0.24</b>
pressure drop DWTW at 12.5 l/min	-	<b>0.36</b>

(measured with RMI H6)

**Soundness of water circuit:**

Measurement:	file:	Test Pressure (bar)
Max. Test Pressure:	-	<b>16.18</b>

measured with pressure meter gastec nr. 107156.

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