

# Protocol

Performance checking stand with ion boiler STAFOR 3-5

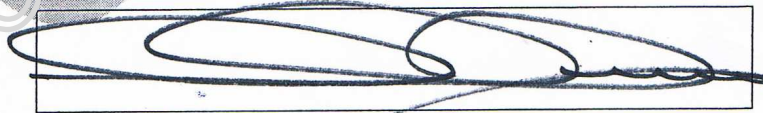
## Equipment used:

1. Ion boiler STAFOR 3-5
2. Circulation pump Vilo 25/7
3. Radiator Korad T22 300/400 500w
4. Ion boiler control panel STAFOR 3-5
5. Heat meter Dunfos Sonometer 1100
6. Electricity analyzer Fluke 430
7. Thermostatic sensor
8. Hydraulic protection group
9. Performance checking stand made from copper pipes

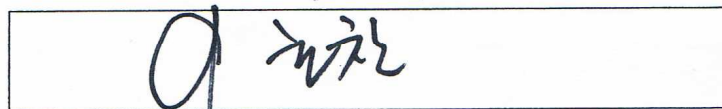
Tot. test time, h:min	16:58	17:12	17:25	17:34	5.49
El.counter (meter)	4.3	4.7	4.8	5.0	5.2
Heat meter, kW	0	1.282	1.466	1.655	
Current, A	4.3	7.3	7.4	9.7	10.2
Flow temp., C°	33	71	67	77	76
Return temp., C°	31	71	67	76	75
μ, Sim	160				
Flow, m <sup>3</sup> /h	2.45				
System volume, l	2.5				
Radiators power, W	500				
COP result, unit		3.205	2.932	2.360	2.040
Average COP	2.040				

Performance checking stand test procedure made over supervision of.

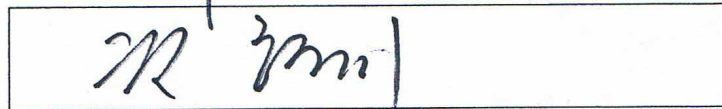
STAFOR company  
(manufacturer of ion boilers STAFOR)  
Oskar Osadchy



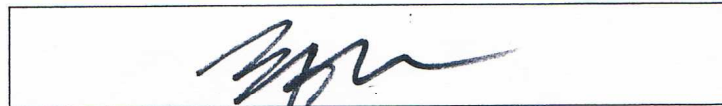
DongBang Mega Tech Co., Ltd.  
(official dealer in South Korea)  
President Ho-Chan Lee



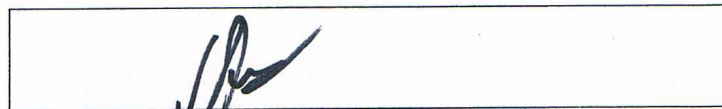
DongBang Mega Tech Co., Ltd.  
(official dealer in South Korea)  
Vice president Hyuk-Ki Kwon



DongBang Mega Tech Co., Ltd.  
(official dealer in South Korea)  
Chief technical officer professor Dong-Keun Chi



Anyang University  
(Dept. of Environmental Engineering)  
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Seoul, South Korea 27.09.2012.



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