

# 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

Ion boiler STAFOR electrical connection – standard.

Before start of tests stand was heated up till 96°C, after 4 hours and 30 minutes testing was finished with same temperature.

			Δ		Δ
Tot. test time, h:min	12:45	13:00	-	17:15	-
El.counter (meter)	0,000	0,218	0,218	3,460	3,460
Heat meter, kW	68,816	69,233	0,417	75,51	6,694
Current, A	19,6	20,00	0,4		
Flow temp., C°	96,00	96,00	-	96,00	-
Return temp., C°	96,00	96,00	-	96,00	-
μ, Sim	200,00				
Flow, m <sup>3</sup> /h	2,0	2,0	-	2,0	-
System volume, l	4,00				
Radiators power, W	500				
COP result, unit	-	-	1,91	-	1,93
Average COP	1,92				

## Comments:

While heating up performance checking stand, the performance characteristics was higher, than at testing procedure time. Average COP from performance stand work start till full cooling was 2,0. In testing procedure time 1,92.

Performance checking stand test procedure made over supervision of:

STAFOR company  
(manufacturer of ion boilers STAFOR)  
Oskar Osadchy

TERMOSOL company  
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