



HEAT, ENERGY, CHEMISTRY, GAS SUPPLY AND NON-STANDARD EQUIPMENT

Summary report and classification based on laboratory test measurements of hot water boiler :

Producer	MCZ GROUP SPA – via La Croce 8 – 33074 Vigonovo di Fontanafredda (PN) – Italy
Testing laboratory	"ITEM – Consult" Ltd , Sofia 1220 str. 202 №8
Accreditation certificate	BSA reg. Num. № 143 JИИ from 19.07.2010
Trademark	RED
Series model	Practika
Type of the appliance	Hot water pellet boiler
Model	Practika 28
Test laboratory report	367 / 14.04.2011
Nominal-minimal thermal capacity	25 kW – 7.4 kW
Model	Practika 33
Test laboratory report	368 / 18.04.2011
Nominal-minimal thermal capacity	29.7 kW – 8.8 kW
Operation mode	Automatic
Fuel type	Biogenic - wood pellets

The above described heating appliances comply the requirements according to the standard: EN 303-5:2001 „Heating boilers for solid fuels, hand and automatically fired, nominal heat output up to 300 kW. Terminology, requirements, testing and marking”.

The hot water boilers have been tested at nominal thermal capacity, as well as minimal thermal capacity, according to the operating mode of the fuel loading system.

The following table shows summary of the tests results:

Model	Operating thermal capacity	Efficiency	CO		NO _x		OGC*		Dust*		Class**
			mg/m ³ at O ₂		mg/m ³ at O ₂		mg/m ³ at O ₂		mg/m ³ at O ₂		
			%	10%	13%	10%	13%	10%	13%	10%	
Practica 28	Nominal	89.1	267	194	170	123	37	27	41	30	3
	Minimal	91.3	549	399	159	116	26	19	-	-	3
Practica 33	Nominal	89.0	222	162	195	142	25	18	12	9	3
	Minimal	93.0	633	461	203	147	17	12	-	-	3

* the measurements of **OGC** and **dust**, have been carried out by “TESTING LABORATORY FOR ATMOSPHERE AIR” at „ECOEXPERT 6” LTD , Varna , „Petko Staynov” str. № 1 phone/fax 052/500-950 , Accredited by IA “BAA” - certificate № 40-LI/05.05.2010, valid until 31.03.2012. The measurement protocols are: **145/15.04.2011, 146/15.04.2011, 156/20.04.2011 and 157/20.04.2011.**

** - classification of the hot water solid fuel boilers according to standard EN 303-5:2001;


Boiler class (EN 303-5:2001): 3

Sofia, Bulgaria, Date: 10.06.2011

Executive director: 
/M.Sc. I. Vasilev /

Sofia 1220
sq. "Military ramp" ul. 202 № 8

E-mail: engineering@item-bg.com
www.item-bg.com

 (02)
832 50 08

1/1

This certificate for the hot water boilers of series "Practika" verifies that the boilers are in accordance with the requirements of standard EN 303-5:2001 – "Heating boilers for solid fuels, hand and automatically fired, nominal heat output up to 300 kW. Terminology, requirements, testing and marking", based on the test results of the testing laboratory protocols.

The limit values for emissions of the agreement according to clause 15a B-VG „Sicherheitsmaßnahmen betreffend Kleinf Feuerungen“(Protective provisions concerning small firing plants) for automatically loaded small firing plants are fulfilled. The efficiency as required in the agreement according to clause 15a B-VG "Einsparung von Energie" (The economy of energy) is achieved. The specified nominal heat output is achieved.

The values according to the guidelines for promotion of measures to use renewable energies in the heat market dated back to the 20th December 2009 of the Federal Office for Economy and Export Control (BAFA) are fulfilled.

The hot water boilers of series "Practika":

- Is provided with an automatic ignition system*
- Is provided with an extraction combustion products system*
- Is fired by wood pellet, as indicated by the manufacturer on the data plate and in the maintenance manual*

According to the test results, the MCZ company declares that the hot water boilers of series:

Trade name : "RED - Practika"

Are representatives of the following models :

Model : Practika 28

Model : Practika 33