

## 1 Test item

**Initial type testing:** Pellet-roomheater Ego 2.0 Air  
**Design-testing:** Star 2.0 Air

## 2 Client

MCZ Group S.p.A.  
 Via la Croce, 8  
 I – 33074 Vigonovo di Fontanafredda (PN)

## 3 Size and placing of the order

The size of the order includes the initial type testing of the pellet-roomheaters Ego 2.0 Air and design-testing of Star 2.0 Air according to EN 14785 „Residential space heating appliances fired by wood pellets – requirements and test methods“ having regard to the agreements according to clause 15a B-VG „Inverkehrbringen von Kleinf Feuerungen und die Überprüfung von Feuerungsanlagen und Blockheizkraftwerken“ as well as to the “Erste Verordnung zur Durchführung des Bundes-Immissionsschutzgesetzes (1. BImSchV) - Stufe 2“.

The testing of the pellet-roomheater Ego 2.0 Air was carried out in the testing rooms of the “Versuchs- und Forschungsanstalt der Hafner Österreichs” (Research and Testing Centre of the Austrian stove-fitters). At the testing two tests at nominal heat output, a test at lower heat output as well as a test of the fire safety were carried out with the test-fuel wood pellets. For design-testing report VFH-14-007-P was taken. The placing of the order occurred in January 2014.

## 4 Results

	No.	Heat output level	Test results			Limit values		
						Art. 15a B-VG	EN 14875	BImSchV Stufe 2
			mg/MJ	% (13% O <sub>2</sub> )	mg/m <sup>3</sup> <sub>N</sub> (13% O <sub>2</sub> )	mg/MJ	% (13% O <sub>2</sub> )	mg/m <sup>3</sup> <sub>N</sub> (13% O <sub>2</sub> )
CO	1	Nominal	116	0,02	189	500	500	250
	2	Nominal	111	0,01	180			
	3	Lower	401	-	653	750	750	-
NO <sub>2</sub>	1	Nominal	61	-	100	150/100 <sup>1</sup>	-	-
	2	Nominal	62	-	101			
	3	Lower	56	-	92			
OGC	1	Nominal	4	-	6	30	-	-
	2	Nominal	3	-	4			
	3	Lower	16	-	22			
Dust	1	Nominal	10	-	20	50/25 <sup>1</sup>	-	30
	2	Nominal	11	-	21			
	3	Lower	36 <sup>2</sup>	-	70 <sup>2</sup>	-	-	-
η (%)	1	Nominal	90,2			78/80 <sup>1</sup>	75	85
	2	Nominal	90,0					
	3	Lower	90,7				70	-

<sup>1</sup> Limit values valid from 2015

<sup>2</sup> According to Clean Air Act 1993 and Clean Air Order 1981 (United Kingdom of Great Britain and Northern Ireland)

The requirements of EN 14785 are fulfilled as per clause 10.2 of the test report VFH-14-007-P. The limit values for emissions and efficiency of the agreement according to clause 15a B-VG „Inverkehrbringen von Kleinf Feuerungen und die Überprüfung von Feuerungsanlagen und Blockheizkraftwerken“ and the “Erste Verordnung zur Durchführung des Bundes-Immissionsschutzgesetzes (1.BImSchV) - Stufe 2“ for automatically loaded small firing plants are fulfilled. The specified nominal heat output (8.0 kW) is achieved. This short test report is an abstract of the test report VFH-14-007-P. It is only valid in connection with the test report VFH-14-007-P.

  
 Dipl.- Ing. Dr. Thomas Schiffert  
 Authorized Signatory



Vienna, 07.10.2014

