

1 Test item

Design-testing: Pellet stoves Primula / Orchidea

2 Client

Red
Via G. Oberdan 86
I – 33070 Vigonovo di Fontanafredda (PN)

3 Size and placing of the order

The size of the order includes the testing of the pellet stoves Gardenia, Margherita, Primula and Orchidea according to EN 14785 having regard to the agreements according to clause 15a B-VG über „Schutzmaßnahmen betreffend Kleinf Feuerungen“ (Protective provisions concerning small firing plants) and „Einsparung von Energie“ (The economy of energy) as well as to the guidelines for promotion of measures to use renewable energies in the heat market dated back to the 20th February 2009. The testing of the pellet stoves Gardenia and Margherita was carried out as a design-testing. For examination of the construction and characteristics of the stoves Primula and Orchidea the pellet stove Club Air of Fa. MCZ – Caminetti e Stufe, Via G. Oberdan 86, I – 33070 Vigonovo di Fontanafredda (PN) (test report VFH-09-006-EP) was taken as an object of comparison.

The placing of the order occurred in July 2009.

4 Results

	No.	Heat output level	Test results		Limit values		
					clause 15a	EN 14785	BAFA ¹
			mg/MJ	mg/m ³ _N (13%O ₂)	mg/MJ	mg/m ³ _N (13%O ₂)	mg/m ³ _N (13%O ₂)
CO	1	Nominal	125	198	500	500	250
	2	Nominal	96	151			
	3	Lower	196	309			
NO ₂	1	Nominal	76	-	150	-	-
	2	Nominal	79	-			
	3	Lower	61	-			
OGC	1	Nominal	4	-	40	-	-
	2	Nominal	2	-			
	3	Lower	6	-			
Dust	1	Nominal	11	20	60	-	50
	2	Nominal	14	24			
	3	Lower	-	-			
η [%]	1	Nominal	91,8		78	75	89
	2	Nominal	91,6				
	3	Lower	94,1				

¹ Limit values according to the guidelines for promotion of measures to use renewable energies in the heat market dated back to the 20th February 2009 of the Federal Office for Economy and Export Control (BAFA)

The requirements of EN 14785 are fulfilled as per clause 8.2 of the test report VFH-09-014-EP.

The limit values for emissions of the agreement according to clause 15a B-VG „Schutzmaßnahmen 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 February 2009 of the Federal Office for Economy and Export Control (BAFA) are fulfilled.

This short test report is an abstract of the test report VFH-09-014-EP. It is only valid in connection with the test report VFH-09-014-EP. This design-test report is an expert advice out of range of the scope of the accreditation of the „Versuchs- und Forschungsanstalt der Hafner Österreichs“ (Research and Testing Center of the Austrian stove-fitters).



Dipl.- Ing. Dr. Thomas Schiffert
Authorized signatory

Vienna, 01.10.2009