



Pratica N° CS-12-018  
File No.

## RAPPORTO DI PROVA TESTING REPORT

**CPD-13-006**

<b>Secondo la norma</b> <i>In conformity with standard</i>	EN 12815:2001 + EN 12815:2001/A1:2004 + EN 12815:2001/AC:2006 + EN 12815:2001/A1:2004/AC:2006
<b>Tipo di apparecchio</b> <i>Type of appliance</i>	Residential cooker fired by solid fuel
<b>Prova</b> <i>Testing</i>	ITT (Initial Type Testing)
<b>Fabbricante</b> <i>Manufacturer</i>	CORRADI CUCINE S.r.L. Via Spagna, 1/A 37069 <u>VILLAFRANCA DI VERONA (VR)</u> - ITALY
<b>Marchio</b> <i>Trade mark</i>	J. CORRADI
<b>Tipo</b> <i>Type</i>	JCWA90-8 - JCWA90-10
<b>Materiale pervenuto il</b> <i>Goods arrival</i>	12/03/2012
<b>Bolla n°</b> <i>Document n°</i>	459
<b>Esso si costituisce di</b> <i>It consists of</i>	32 pages and 1 enclosure
<b>Laboratorio</b> <i>Laboratory</i>	IMQ PRIMACONTROL S.r.l. - I - 31020 Zoppè S.Vendemiano (TV) Via dell'Industria, 55 - Tel. 0438 778358 - 470255 - Fax 0438 778360
<b>Limitazioni</b> <i>Disclosure</i>	La riproduzione di questo rapporto di prova non è autorizzata che sottoforma di fotocopia integrale fac-simile salvo approvazione scritta del laboratorio Il presente rapporto di prova riguarda solo l'apparecchio provato nelle condizioni descritte.  <i>The only reproduction allowed is an integral fac-simile copy, Unless written approval of the laboratory The test report concerns only the appliance tested under the conditions described.</i>
<b>Data inizio test</b> <i>Date test's beginning</i>	2012/03/20
<b>Data fine test</b> <i>Date test's ending</i>	2012/03/28
<b>Data di emissione</b> <i>Issue date</i>	2013/04/22
<b>Il tecnico delle prove</b> <i>Technical responsible of test</i>	Dino Grotto 
<b>Il responsabile del Laboratorio</b> <i>Head Approval Department</i>	Nicola Bottolo 

Manufacturer  
Type  
Test report N°

**CORRADI CUCINE S.r.L.**  
JCWA90-8 - JCWA90-10  
CPD-13-006

Date 2013/04/22  
Technician Dino Grotto

## Summary data

Type		JCWA90-8	JCWA90-10	----	
Fuel type		Wood logs	Wood logs	----	
Solid fuel test chimney $\Phi$		150	150	----	
Nominal heat output	Primary air position	Closed	Open	----	
	Secondary air position	Fixed	Fixed	----	
	Bottomgrate position	Fixed	Fixed	----	
	Medium outlet pression	Pa	11	11	----
	Mass of test fuel hourly	kg/h	2,4	3,3	----
	Mean flue gas temperature	$^{\circ}\text{C}$	238	242	----
	Flue gas mass flow	g/s	10,4	11,4	----
	Mean content of CO to 13% O <sub>2</sub>	%	0,05	0,08	----
	Heat input	kW	10,5	13,5	----
	Nominal heat output (declared)	kW	8,4 (8)	10,6 (10,5)	----
	Nominal water heat output (declared)	kW	----	----	----
	Nominal space heat output (declared)	kW	----	----	----
	Efficiency	%	80,6 (80,5)	78,3 (78)	----
	Refuelling interval (declared)	h	1 (1)	1,1 (1)	----
Reduced heat output	Primary air position	----	Closed	----	
	Secondary air position	----	Fixed	----	
	Bottomgrate position	----	Fixed	----	
	Medium outlet pression	Pa	----	11	----
	Mass of test fuel hourly	kg/h	----	1,3	----
	Mean flue gas temperature	$^{\circ}\text{C}$	----	207	----
	Flue gas mass flow	g/s	----	9,4	----
	Mean content of CO to 13% O <sub>2</sub>	%	----	0,10	----
	Heat input	kW	----	7,0	----
	Nominal heat output (declared)	kW	----	5,2 (5)	----
	Nominal water heat output (declared)	kW	----	----	----
	Nominal space heat output (declared)	kW	----	----	----
	Efficiency	%	----	75 (75)	----
	Refuelling interval (declared)	h	----	0,5 (0,5)	----
Appliance is provided with a protection glove		Yes	Yes	----	
Electrical power supply (declared)	W	----	----	----	
Maximum operating pressure	bar	----	----	----	
Distance to adjacent combustible materials	- back - side - floor under	mm mm mm	See page 32 See page 32 See page 32	See page 32 See page 32 See page 32	----
The appliance can be used in a shared flue		No	No	----	
The appliance is capable of		Intermittent combustion	Intermittent combustion	----	

**Note:** under attestation of conformity system3, the manufacturer, not the laboratory, is responsible for sampling.

Manufacturer **CORRADI CUCINE S.r.L.**

Type **JCWA90-8 - JCWA90-10**

Test report N° **CPD-13-006**

Date **2013/04/22**

Technician **Dino Grotto**

## Families appliances

In accordance with paragraph 9.2.1, the whole range of appliances listed in the following table has been grouped in family:

Type	JCWA90-8	JCWA90-10
Models	CO90L	CO90L
	CO100L	CO100L
	CO140LGE	CO140LGE
	BA90L	BA90L
	BA100L	BA100L
	BA140LGE	BA140LGE
	RB90L	RB90L
	RB100L	RB100L
	RB140LGE	RB140LGE

To represent the family, it have been tested the appliances with the highest and lowest nominal heat output chosen within a range of appliances having nominal heat outputs not exceeding 1,6:1 as required by paragraph 9.2.1 of the standard.

In decinding which appliance belongs to a family we take into account the construction and the performance characterisits of each appliance and we compare it with the list of table 1 of paragraph 9.2.1.

The other differences have not been considered important to this purpose.

The types chosen for the family are:

Type	JCWA90-8
Model	RB90L

Type	JCWA90-10
Model	RB90L

**Note:** under attestation of comformity system 3 the decision for grouping products into one family is the responsibility of the manufacturer: **CORRADI CUCINE S.r.L.**

Manufacturer **CORRADI CUCINE S.r.L.**  
 Type **JCWA90-8 - JCWA90-10** Date **22/4/2013**  
 Test report N° **CPD-13-006** Technician **Dino Grotto**

The fuel used during the test has the following specifications:

Size: **Wood logs**

Carbon content [%]	Hydrogen content [%]	Moisture content [%]	Net lower calorific value (wf) [kJ/kgss]	Net lower calorific value [MJ/kg]
42,5	4,9	12,6	15676	15,68

Residential solid fuel burning appliances - Emission test methods  
 Annex A A.2 German and Austrian particle test methods

Definition	Notation	Unit	JCWA90-10	JCWA90-10	-----
Type			JCWA90-10	JCWA90-10	-----
Testing fuel			Wood logs	Wood logs	-----
Date of test			23/3/2012	23/3/2012	-----
Solid fuel test chimney $\Phi$		mm	150	150	-----
Bottomgrate position			Fixed	Fixed	-----
Power selection			Nominal heat output	Reduced heat output	-----
Number of fuel charges			1	1	-----
Total charged fuel		kg	3,1	0,8	-----
Test lenght		h	1,1	0,5	-----
Mass of test fuel hourly		kg/h	2,8	1,6	-----
Medium inlet pression		Pa	11,0	11,0	-----
Room temperature	$t_r$	°C	26,7	25,6	-----
Declared heat output		kW	10,5	5,0	$\leq 50$
Sampling period		min	30	-----	15 (30)
Waste gas volume		l	270	-----	135 $\pm$ 6,75 (270 $\pm$ 13,5)
Sampling system temperature		°C	70	-----	70
Solids portion weight		mg	7,5	-----	-----
Average DUST content	DUST	mg/Nm <sup>3</sup>	27,8	-----	-----
Average O <sub>2</sub> content	O <sub>2</sub>	%	13,7	15,8	-----
Average CO <sub>2</sub> content	CO <sub>2</sub>	%	7,0	5,0	-----
Average CO content	CO	ppm	693	641	-----
Average CO content	CO	%	0,07	0,06	-----
Average content of CO at 13% O <sub>2</sub>	CO	%	0,08	0,10	-----
Average content of CO at 13% O <sub>2</sub>	CO	mg/Nm <sup>3</sup>	946	1231	-----
Average content of CO at 10% O <sub>2</sub>	CO	mg/Nm <sup>3</sup>	1301	1693	-----
Average content of CO at 0% O <sub>2</sub>	CO	mg/Nm <sup>3</sup>	2484	3232	-----
Average content of CO at 13% O <sub>2</sub>	CO	mg/MJ	241	314	-----
Average content of CO at 10% O <sub>2</sub>	CO	mg/MJ	332	432	-----
Average content of CO at 0% O <sub>2</sub>	CO	mg/MJ	634	825	-----
Average DUST content to 13% O <sub>2</sub>	DUST	mg/Nm <sup>3</sup>	30	-----	-----
Average DUST content to 10% O <sub>2</sub>	DUST	mg/Nm <sup>3</sup>	42	-----	-----
Average DUST content to 0% O <sub>2</sub>	DUST	mg/Nm <sup>3</sup>	80	-----	-----
Average DUST content to 13% O <sub>2</sub>	DUST	mg/MJ	8	-----	-----
Average DUST content to 10% O <sub>2</sub>	DUST	mg/MJ	11	-----	-----
Average DUST content to 0% O <sub>2</sub>	DUST	mg/MJ	20	-----	-----
Carbon content of the residue	C <sub>r</sub>	%	0,23	0,23	-----
Specific wet flue gas	G <sub>w</sub>	Nm <sup>3</sup> /kg	11,8	16,3	-----
Specif dry flue gas volume	G <sub>D</sub>	Nm <sup>3</sup> /kg	558,1	397,4	-----
Total hydrocarbon content (methane equivalents)	THC	mg/Nm <sup>3</sup>	9	24	-----
Average content of OGC to 13% O <sub>2</sub>	OGC	mg/Nm <sup>3</sup>	10	37	-----
Average content of OGC to 10% O <sub>2</sub>	OGC	mg/Nm <sup>3</sup>	14	51	-----
Average content of OGC to 0% O <sub>2</sub>	OGC	mg/Nm <sup>3</sup>	26	98	-----
Average content of OGC to 13% O <sub>2</sub>	OGC	mg/MJ	3	10	-----
Average content of OGC to 10% O <sub>2</sub>	OGC	mg/MJ	3	13	-----
Average content of OGC to 0% O <sub>2</sub>	OGC	mg/MJ	7	25	-----
Average content of NO <sub>x</sub>	NO <sub>x</sub>	ppm	41	-----	-----
Conversion factor	f <sub>NOx</sub>		2,05	2,05	-----
Average content of NO <sub>x</sub> to 13% O <sub>2</sub>	NOx	mg/Nm <sup>3</sup>	92	-----	-----
Average content of NO <sub>x</sub> to 10% O <sub>2</sub>	NOx	mg/Nm <sup>3</sup>	126	-----	-----
Average content of NO <sub>x</sub> to 0% O <sub>2</sub>	NOx	mg/Nm <sup>3</sup>	241	-----	-----
Average content of NO <sub>x</sub> to 13% O <sub>2</sub>	NOx	mg/MJ	23	-----	-----
Average content of NO <sub>x</sub> to 10% O <sub>2</sub>	NOx	mg/MJ	32	-----	-----
Average content of NO <sub>x</sub> to 0% O <sub>2</sub>	NOx	mg/MJ	62	-----	-----