

**U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA)
 CERTIFICATION OF CONFORMITY
 PURSUANT TO 40 CFR PART 60 SUBPARTS AAA AND QQQQ
 2015 STANDARDS OF PERFORMANCE FOR NEW RESIDENTIAL WOOD HEATERS, NEW
 RESIDENTIAL HYDRONIC HEATERS AND FORCED-AIR FURNACES**

Disclaimer: The statutory provisions and the EPA regulations described in this document contain legally binding requirements. This document is not a substitute for those provisions or regulations, nor is it a regulation itself. In the event of a discrepancy, please refer to 40 CFR PART 60 Subparts AAA AND QQQQ, Sections 60.533(b) and 60.5475(b). This document may be revised periodically without public notice. If you have additional questions, please contact Rafael Sanchez at 202-564-7028 or via email at sanchez.rafael@epa.gov.

GENERAL INFORMATION

Manufacturer's Name: AICO SPA (Ravelli)

Heater Type (Circle One):	Adjustable Burn Rate Wood Heater	Pellet Stove	Single Burn Rate Heater	Hydronic Heater	Forced Air Furnace	Other: Pellet Insert
Hydronic Heater Type (Circle One):	Traditional	Full Storage	Partial Storage	Indoor/Outdoor	Other:	
Forced-Air Furnace Type (Circle One):	Small (less than 65,000 BTU/hr heat output)		Large (greater than 65,000 BTU/hr heat output)		Other:	
Fuel Type:	Crib	Pellet	Cordwood	Other:		

Model Name and Number:

- Roma

Catalyst: No

Mailing Address: Via Consorzio Agrario, 3/D Chiari, Italy

Street Address: Via Consorzio Agrario

City: Chiari	State: Brescia	ZIP Code: 25032
Phone: + 39 030 74 02 939	Fax: N/A	Web Site: http://usa.ravelligroup.it/

Address of Manufacturing Facility:

Jotul Poland Sp z o.o.
 ul. Ks. Jerzego Popieluszki 17
 Kaŕy Wrocławskie, Lower Silesian 55 080
 Poland

City: Kaŕy Wrocławskie	State: Kaŕy Wrocławskie	ZIP Code: 55 080
-------------------------------	--------------------------------	-------------------------

EPA APPROVED THIRD PARTY CERTIFIER

Authorized Representative: Aaron Reesor

Company: CSA Group

Phone: 416 747-2652	E-mail: aaron.reesor@csagroup.org	Fax: N/A
City: Toronto	State: Ontario, Canada	ZIP Code: M9W 1R3

**U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA)
 CERTIFICATION OF CONFORMITY
 PURSUANT TO 40 CFR PART 60 SUBPARTS AAA AND QQQQ
 2015 STANDARDS OF PERFORMANCE FOR NEW RESIDENTIAL WOOD HEATERS, NEW
 RESIDENTIAL HYDRONIC HEATERS AND FORCED-AIR FURNACES**

Disclaimer: The statutory provisions and the EPA regulations described in this document contain legally binding requirements. This document is not a substitute for those provisions or regulations, nor is it a regulation itself. In the event of a discrepancy, please refer to 40 CFR PART 60 Subparts AAA AND QQQQ, Sections 60.533(b) and 60.5475(b). This document may be revised periodically without public notice. If you have additional questions, please contact Rafael Sanchez at 202-564-7028 or via email at sanchez.rafael@epa.gov.

Position: Certifier – Fuels Group

Report Number: Polytest Test Report: PI-20123	Date of Tests: March 1 st 2016	Date of Report: REPORT DATE: April 22nd 2016; Revision 1: May 31st 2016 Revision 2: February 14th 2022 Revision 3: July 7th 2022 Revision 4: August 9th 2022 Project number: PI-20123
Quality Assurance Plan included?: Yes	Wood Heater /Hydronic Heater /Forced-Air Furnace Application Included: NO	Remarks: N/A
Affected Source Data Summary		
Wood Burning Heater	Hydronic Heater	Forced-Air Furnace
Weighted particulate emission average of 1 test runs: 0.74 grams per hour	Maximum Output Rating: _____ Weighted particulate emission average: X Lb/MMbtu output	Particulate emission average: X Lb/MMbtu output
Weighted average HHV efficiency of 1 test runs: 75.5%	Annual Efficiency Rating: _____	Overall thermal efficiency (HHV): X%
	Particle Emissions: _____	Overall Delivered Heat Efficiency: X%
AFFIRMATIONS		

**U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA)
CERTIFICATION OF CONFORMITY
PURSUANT TO 40 CFR PART 60 SUBPARTS AAA AND QQQQ
2015 STANDARDS OF PERFORMANCE FOR NEW RESIDENTIAL WOOD HEATERS, NEW
RESIDENTIAL HYDRONIC HEATERS AND FORCED-AIR FURNACES**

Disclaimer: The statutory provisions and the EPA regulations described in this document contain legally binding requirements. This document is not a substitute for those provisions or regulations, nor is it a regulation itself. In the event of a discrepancy, please refer to 40 CFR PART 60 Subparts AAA AND QQQQ, Sections 60.533(b) and 60.5475(b). This document may be revised periodically without public notice. If you have additional questions, please contact Rafael Sanchez at 202-564-7028 or via email at sanchez.rafael@epa.gov.

- **The above-named affected source has been tested by a laboratory qualified to test and report on the emissions of this type of product under 40 CFR Part 60, Standards of Performance for New Residential Wood Heaters, New Residential Hydronic Heaters and Forced-Air Furnaces (2015 Standards).**
- **The Test Report No. PI-20123, prepared by Danick Power and dated August 9th 2022, has been reviewed by Aaron Reesor and was found to be complete and to have used the correct procedures in accordance to the 2015 NSPS Standards.**
- **The emissions levels measured in the Test Report and listed above comply with the relevant particulate matter limits established by the 2015 NSPS Standards.**
- **The model listed above was tested to Particulate emissions: ASTM E2779-10 (section 9.4.1 integrate test run); ASTM E2515-11 as referred into 40 CFR Part 60 Subpart AAA, CSA B415.1-10 (for efficiency only) (Test method(s)).**
- **The permanent label and owner's manual meets the requirements of 40 CFR § 60.536 and/or § 60.5478.**
- **The above-named manufacturer, on the effective date of this certificate, was operating under a quality assurance plan, per 40 CFR § 60.533(m) and/or § 60.5475(m), that has been reviewed and approved by Aaron Reesor.**
- **The above-named manufacturer has contracted CSA Group to conduct regular (at least annual) unannounced audits of the manufacturing facility, affected source, and quality assurance plan pursuant to 40 CFR § 60.533(m) and/or § 60.5475(m).**

**U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA)
 CERTIFICATION OF CONFORMITY
 PURSUANT TO 40 CFR PART 60 SUBPARTS AAA AND QQQQ
 2015 STANDARDS OF PERFORMANCE FOR NEW RESIDENTIAL WOOD HEATERS, NEW
 RESIDENTIAL HYDRONIC HEATERS AND FORCED-AIR FURNACES**

Disclaimer: The statutory provisions and the EPA regulations described in this document contain legally binding requirements. This document is not a substitute for those provisions or regulations, nor is it a regulation itself. In the event of a discrepancy, please refer to 40 CFR PART 60 Subparts AAA AND QQQQ, Sections 60.533(b) and 60.5475(b). This document may be revised periodically without public notice. If you have additional questions, please contact Rafael Sanchez at 202-564-7028 or via email at sanchez.rafael@epa.gov.

**Aaron Reesor – CSA Group – Certifier – Fuels Group
 Print Name and Title**



Signature of Authorized Third-Party Representative

**Aug 11th 2022
 Date**

This is a certification of conformity to certify that the bearer has successfully completed the requirements pursuant to the 2015 NSPS Standards.

Third-party EPA approval expiration date: Aug 2027

V1

Remarks:

Revision 1 May 31st 2016

Revision 2 February 14th 2022

- Moisture in the tunnel assume change section 3.6
- Table 2.6 updated with deviation in g/Kg
- Appendix 1 molecular weight updated to 29 for all runs
- Appendix 1 updated with data and preburn data
- The section 3.4 p.11 updated for runs Anomalies, Validity and appropriateness detail.
- Updated Section 1.4 p.6 conditioning was done last week of February 2016
- Additional letter for TYPOs about mixing baffle in the original report.
- Table 2.1 additional emission number in gr/Mj

Revision 3 July 7th 2022

- Section 1.4 and 3.4 updated to mentioned ENplus program pellet have been used for aging and testing
- Appendix 8 updated with new picture and more detail on dilution tunnel
- Appendix 7 operation manual updated

Revision 4: August 9th 2022

- Include negative filter weights with calculations both corrected to zero and uncorrected in appendix 1.