

## APPENDIX A1

**EVA - EMP**  
**TEST REPORT ON ENERGY CONSUMPTION**  
**HOT & COLD DRINKS MACHINES**  
**CATEGORY 6**

### MACHINE INFORMATION

|                                               |           |    |
|-----------------------------------------------|-----------|----|
| Machine Type                                  | Grandezza |    |
| Manufacturer                                  |           |    |
| Model Number                                  |           |    |
| Serial Number                                 |           |    |
| Compressor Power (If cold drink machine only) |           |    |
| Test Date                                     | 22/06/14  |    |
|                                               |           |    |
| Boiler Volume                                 | 11000     | ml |
| Nominal Boiler Temperature                    | 85        | °C |
| Energy Saving Temperature                     | 70        | °C |

### TEST CONDITIONS

|                                    |    |    |
|------------------------------------|----|----|
| Ambient Test Temperature (°C)      | 24 | °C |
| Ambient Test Relative Humidity (%) | 62 | %  |
| Inlet Water Temperature (°C)       | 24 | °C |

### ENERGY MEASUREMENTS HOT DRINKS

|                                       |     |      |                |
|---------------------------------------|-----|------|----------------|
| Heat Up Phase Measurement             | HU  | 760  | Watthours      |
| Idle Phase Measurement                | IM  | 124  | Watthours/hour |
| Vending Phase Measurement             | VM  | 460  | Watthours      |
| Average Drink Volume Measurement      | DV  | 4,25 | Litres         |
| Number of Drinks delivered            | NOD | 30   | Drinks         |
| Average Drink Temperature Measurement | DT  | 78   | °C             |

|                                     |        |     |                |
|-------------------------------------|--------|-----|----------------|
| Cool Down Duration (from IS to ESS) | CDD    |     | hours          |
| Cool Down energy consumption        | CD-ESM |     | Watthours      |
| Energy Saving Mode measurement      | ESM    | 92  | Watthours/hour |
| Heat Up from Energy Saving Mode     | HU-ESM | 160 | Watthours      |

| Values from EVA-EMP report        |     |       |        |
|-----------------------------------|-----|-------|--------|
| Inlet water T                     |     | 24,0  | °C     |
| Idle phase                        | IM  | 124,0 | wh/h   |
| Vending phase                     | VM  | 460,0 | wh     |
| Total drink volume                | DV  | 4,250 | litres |
| Avg. drink temp.                  | DT  | 78,0  | °C     |
| Energy saving mode                | ESM | 92,0  | wh/h   |
| Duration of VM in hours e.g. 4,0  |     | 1,0   | hrs    |
| No. of drinks dispensed during VM |     | 30,0  | cups   |

|                                  |                   |                    |
|----------------------------------|-------------------|--------------------|
| Energy                           |                   | Vending machine    |
| Manufacturer                     | RheaVendors Group | ◀A                 |
| Model                            | Grandezza         |                    |
| More efficient                   |                   |                    |
| A++                              |                   | ◀A                 |
| A+                               |                   |                    |
| A                                |                   |                    |
| B                                |                   |                    |
| C                                |                   |                    |
| D                                |                   |                    |
| E                                |                   |                    |
| F                                |                   |                    |
| G                                |                   |                    |
| Less efficient                   |                   |                    |
| Total energy consumption         |                   | 142 wh/L           |
| Measured at                      |                   | 50 L/24h           |
| ~ no. of cups in ml              |                   | 353 cups of 142 ml |
| Energy consumption in Idle Mode: |                   | 2976 wh/24h        |

Test Performed By: **Giuseppe Migliavacca**

Signed: **Maurilio Luca Pizzo**

Date: **26 Giu 2014**