

## System's Product Fiche

**Group:** Water heaters & storage tanks  
**Section:** Solar devices  
**Reference:** According to ISO 9806:2013

Date: 07/12/2021

**Supplier's name**  
 ARISTON THERMO SpA

**Supplier's model identifier**  
 Type: Solar water heater  
 Model: KAIROS THERMO GR2 300-2  
 Details: (300L /2 x ARISTON Collector GR2)

| Technical Parameters                |                |       |                                    | Results (calculation's method SolCal:2013) |            |              |       |      |
|-------------------------------------|----------------|-------|------------------------------------|--------------------------------------------|------------|--------------|-------|------|
|                                     | Symbol         | Value | Unit                               |                                            | Symbol     | Load profile | Value | Unit |
| Collector's aperture area:          | Aa             | 3.60  | m <sup>2</sup>                     | Annual non-solar heat contribution         | Qnonsol    | M            | 971   | kWh  |
| Zero loss collector's efficiency:   | $\eta_0$       | 0.77  | %                                  |                                            | Qnonsol    | L            | 1592  | kWh  |
| First order heat loss coefficient:  | a <sub>1</sub> | 4.24  | W/(m <sup>2</sup> K)               |                                            | Qnonsol    | XL           | 2796  | kWh  |
| Second order heat loss coefficient: | a <sub>2</sub> | 0.019 | W/(m <sup>2</sup> K <sup>2</sup> ) |                                            | Qnonsol    | XXL          | 3813  | kWh  |
| Incidence angle modifier:           | IAM            | 0.95  | -                                  | Pump power consumption                     | Solpump    |              | 0     | W    |
| Storage nominal volume:             | V              | 276   | Liters                             | Standby power consumption                  | Solstandby |              | 0     | W    |
| Standing loss:                      | S              | 87    | Watt                               | Annual auxiliary electricity consumption   | Qaux       |              | 0     | kWh  |