

# Product fiche

**Group:** Water heaters & storage tanks

**Date:** 26-09-2017

**Section:** Solar Devices

**Reference:** CDR 812/2013, annex IV, point 3

## Suppliers name or trademark

Nobel

## Suppliers model identifier

Type: Solar water heater

Model: Aelios CUS 300/5.2

## Technical parameters

	Symbol:	Value:	Unit:		Symbol	Load profile	Value	Unit
Collector aperture area:	$A_{sol}$ =	4.74	m <sup>2</sup>					
Zero loss collector efficiency:	$\eta_0$ =	73	%	Annual non-solar heat contribution:	$Q_{nonsol}$ =	M	325	kWh
First order heat loss coefficient:	$a_1$ =	3.75	W/(m <sup>2</sup> K)		$Q_{nonsol}$ =	L	851	kWh
Second order heat loss coefficient:	$a_2$ =	0.015	W/(m <sup>2</sup> K <sup>2</sup> )		$Q_{nonsol}$ =	XL	1756	kWh
Incidence angle modifier:	IAM =	0.85		Pump power consumption	Solpump =		0	W
Storage nominal volume:	V =	293	litres	Standby power consumption	Solstandby =		0	W
Backup designated part of storage:	V <sub>bu</sub> =	183	litres	Annual auxiliary electricity consumption	Q <sub>aux</sub> =		0	kWh