

# Product fiche

Group: Water heaters & storage tanks

Date: 14-09-2017

Section: Solar Devices

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

Suppliers name or trademark

**Nobel International EAD**

Suppliers model identifier

Type: **Solar water heater**

Model: **Aelios CUS 160/3**

## Technical parameters

	Symbol:	Value:	Unit:		Symbol	Load profile	Value	Unit
Collector aperture area:	$A_{sol}$ =	<b>2.80</b>	$m^2$					
Zero loss collector efficiency:	$\eta_0$ =	<b>73</b>	%	Annual non-solar heat contribution:	$Q_{nonsol}$ =	M	<b>472</b>	kWh
First order heat loss coefficient:	$a_1$ =	<b>3.75</b>	$W/(m^2K)$		$Q_{nonsol}$ =	L	<b>1275</b>	kWh
Second order heat loss coefficient:	$a_2$ =	<b>0.015</b>	$W/(m^2K^2)$		$Q_{nonsol}$ =	XL	<b>2690</b>	kWh
Incidence angle modifier:	$IAM$ =	<b>0.85</b>		Pump power consumption	$Sol_{pump}$ =		<b>0</b>	W
Storage nominal volume:	$V$ =	<b>151</b>	litres	Standby power consumption	$Sol_{standby}$ =		<b>0</b>	W
Backup designated part of storage:	$V_{bu}$ =	<b>94</b>	litres	Annual auxiliary electricity consumption	$Q_{aux}$ =		<b>0</b>	kWh