

Product fiche

Group: Water heaters & storage tanks

Date: 14-09-2015

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 160/2

Technical parameters

	Symbol:	Value:	Unit:		Symbol	Load profile	Value	Unit
Collector aperture area:	$A_{sol} =$	1.88	m^2					
Zero loss collector efficiency:	$\eta_0 =$	73	%	Annual non-solar heat contribution:	$Q_{nonsol} =$	M	551	kWh
First order heat loss coefficient:	$a_1 =$	3.75	$W/(m^2K)$		$Q_{nonsol} =$	L	1476	kWh
Second order heat loss coefficient:	$a_2 =$	0.015	$W/(m^2K^2)$		$Q_{nonsol} =$	XL	3008	kWh
Incidence angle modifier:	$IAM =$	0.85		Pump power consumption	$Sol_{pump} =$		0	W
Storage nominal volume:	$V =$	151	litres	Standby power consumption	$Sol_{standby} =$		0	W
Backup designated part of storage:	$V_{bu} =$	94	litres	Annual auxiliary electricity consumption	$Q_{aux} =$		0	kWh
						XXL	4190	kWh