

Product fiche

PF-WH-SD

Group: Water heaters & storage tanks
 Section: Solar devices
 Reference: CDR 812/2013, annex IV, point 3

Date: 31/12/2022

Suppliers name or trademark:

CICERO HELLAS S.A.

Suppliers model identifier:

Brand: CALPAK
 Type: MARK 5
 Model: 160/2.1

Technical parameters:

Symbol:	Value:	Unit:
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Collector aperture area:	$A_{sol} = 1,96$	m^2
Zero loss collector efficiency:	$\eta_o = 0,780$	
First order heat loss coefficient:	$a_1 = 3,75$	$W/(m^2K)$
Second order heat loss coefficient:	$a_2 = 0,016$	$W/(m^2K^2)$
Incidence angle modifier:	$IAM = 0,96$	
Storage nominal volume:	$V = 151$	litres
Backup designated part of storage:	$V_{bu} = N/A$	litres

Load profile: M L XL XXL

Annual non-solar heat contribution Average climate (Strasbourg)

$Q_{nonsol} = 481$ 1354 2736 3883 kWh

Annual non-solar heat contribution Colder climate (Helsinki)

$Q_{nonsol} = 720$ 1704 3157 4321 kWh

Annual non-solar heat contribution Warmer climate (Athens)

$Q_{nonsol} = 156$ 767 2018 3129 kWh

Pump power consumption:

$sol_{pump} = N/A$ W

Standby power consumption:

$Sol_{standby} = N/A$ W

Annual auxiliary electricity consumption:

$Q_{aux} = N/A$ kWh