

# 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:	200/3

**Technical parameters:**

Symbol:	Value:	Unit:
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<i>Collector aperture area:</i>	$A_{sol} = 2,84$	m <sup>2</sup>
<i>Zero loss collector efficiency:</i>	$\eta_o = 0,790$	
<i>First order heat loss coefficient:</i>	$a_1 = 3,27$	W/(m <sup>2</sup> K)
<i>Second order heat loss coefficient:</i>	$a_2 = 0,022$	W/(m <sup>2</sup> K <sup>2</sup> )
<i>Incidence angle modifier:</i>	$IAM = 0,96$	
<i>Storage nominal volume:</i>	$V = 192$	litres
<i>Backup designated part of storage:</i>	$V_{bu} = N/A$	litres

Load profile: M                      L                      XL                      XXL

<b>Annual non-solar heat contribution Average climate (Strasbourg)</b>	$Q_{nonsol} =$	<b>340</b>	<b>1029</b>	<b>2281</b>	<b>3392</b>	kWh
<i>Annual non-solar heat contribution Colder climate (Helsinki)</i>	$Q_{nonsol} =$	603	1424	2780	3918	kWh
<i>Annual non-solar heat contribution Warmer climate (Athens)</i>	$Q_{nonsol} =$	69	443	1440	2507	kWh
<i>Pump power consumption:</i>	$sol_{pump} =$	N/A	W			
<i>Standby power consumption:</i>	$Sol_{standby} =$	N/A	W			
<i>Annual auxiliary electricity consumption:</i>	$Q_{aux} =$	N/A	kWh			