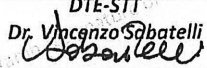


Summary of		EN12976-2		test results		Certification No.		15558 Rev.0					
Annex to Solar KEYMARK Certificate						Issued		2018-04-04					
Company		Pleion S.r.l.				Country		Italy					
Brand (optional)						Website		www.pleion.it					
Street		Via Venezia				E-mail		info@pleion.it					
Postal Code		37053		Cerea (VR)		Tel. / Fax		+39 442320295					
System family overview													
For each storage and collector size, give number of collectors													
Collector name	EGO Prime 110		EGO Prime 150		EGO Prime 180		EGO Prime 220		EGO Prime 260				
EGO Prime 110	1												
EGO Prime 150			1										
EGO Prime 180					1								
EGO Prime 220							1						
EGO Prime 260									1				
Name of system configuration						EGO Prime 180							
Collector name	EGO Prime 180		No. Collectors		1		Storage name		EGO Prime 180				
Calculated annual results for "solar-only / preheat system"													
Location	Qd,sh	Daily drawoff 140 l				Daily drawoff 170 l				Daily drawoff 200 l			
		Qd,hw	QL	Qpar	fsol	Qd,hw	QL	Qpar	fsol	Qd,hw	QL	Qpar	fsol
	MJ/y	MJ/y	MJ/y	%	MJ/y	MJ/y	MJ/y	%	MJ/y	MJ/y	MJ/y	%	
Stockholm SE		7808	3227		0.41	9481	3521		0.37	11154	3676		0.33
Würzburg DE		7487	3549		0.47	9091	3926		0.43	10695	4131		0.39
Davos CH		8471	4698		0.55	10286	5056		0.49	12101	5253		0.43
Athens GR		5818	4334		0.74	7065	4931		0.70	8312	5386		0.65
Optional OP													
Perf. indicators for the table above													
Qd,sh	MJ/y	Not relevant for solar domestic hot water system											
Qd	MJ/y	Annual heat demand for domestic hot water											
QL	MJ/y	Annual heat energy delivered by the solar system											
Qpar	MJ/y	Annual parasitic energy: (electricity for pumps/controllers)											
f_{sol} = QL/Q_d	-	Solar fraction											
Ref. conditions	G	Stockholm SE	Würzburg DE	Davos CH	Athens GR	Optional OP							
	G	1,157	1,230	1,684	1,736								
	T_{a,ave}	7.5	9.0	3.2	18.5								
	T_{c,ave}	8.5	10.0	5.4	17.8								
	± ΔT_c	6.4	3.0	0.8	7.4								
G	kWh/m²	Annual irradiation South, 45°											
T_{a,ave}	°C	Annual average outdoor air temperature											
T_{c,ave}	°C	Annual average mains cold water temp.											
ΔT_c	K	Seasonal variation of T_c											
Th	45 °C	Desired hot water temperature (mixing valve temperature).											
Max. operating press. - collector side			400	kPa	Max. operating press. - tank side			400	kPa				
Testing Laboratory		ENEA - Centro Ricerche Trisaia											
Website		http://www.trisaia.enea.it											
Test report id. number		RP.2016.SYS.191.1; RP.2018.SYS.201.1											
Date of test report		2016-12-15; 2018-03-26											
Test method		ISO 9459-2 (CSTG)											
Comments of test lab						ENEA DTE-STT Dr. Vincenzo Sabatelli 							
Additional test report: RP.2016.SYS.191a.1.													

All values are subject to some uncertainty; e.g. the uncertainty on system output is typically in the range of ± 5 % to ± 15 %

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