

COMPACT SOLAR STATION DN25 WITH CONTROLLER

Technical datasheet Nr 76

• DESCRIPTION:



Solar



High efficiency circulator pump

The compact solar station DN25 ensures the efficient circulation of the solar fluid in the solar loop. It contains all the components necessary for the proper functioning of the primary solar system.

It is entirely pre-mounted and includes a controller 600X*, factory preprogrammed, in order to facilitate the commissioning. It is designed for wall mounting. It is equipped with a high efficiency solar circulator pump which provides a high manometric head.

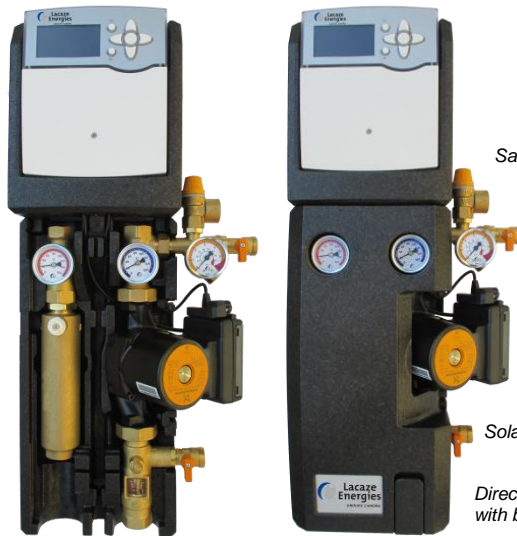
This station is adapted for up to 60m²_{aperture} of flat-plate collectors SUN 300 and up to 36m²_{absorber} of vacuum tube collectors SUN 400. *under conditions

Solar controller 600X
with 5 temperature sensors Pt1000

2 ball valves (flow-return) with anti-thermosiphon check valve 200mmCE (can be opened) and removable metal thermometer 0-160°C

Permanent air bleeder with manual air vent valve

Expanded PolyPropylene insulation



Safety group:

- Solar safety valve 6 bar – 3/4" int
- Solar fill valve
- Pressure gauge 0-6 bar
- Expansion vessel connection 3/4" ext with flat seal

Simple high efficiency solar circulator pump
GRUNDFOS SOLAR PML 25-145 MLI-C

Solar drain valve

Direct readable flowmeter 5-40l/min with ball valve for flow balancing

• TECHNICAL SPECIFICATIONS:

Fonctionning range		Hydraulic performance curves	
Maximum operating temperature	120°C		<p>Area (m²)</p> <p>Flow rate (m³/h)</p>
Maximum peak temperature (duration < 15 minutes)	160°C		
Maximum allowed pressure	10 bar		
Set pressure of the safety valve	6 bar		
Maximum percentage of glycol	50%		
Materials			
Valves and fittings	Laiton		
Gaskets	EPDM		
Anti-thermosiphon check valves	Laiton		
Insulation	EPP (λ=0,041W/(m.K))		
Dimensions		<h3>Electric characteristics</h3>	<p>Power supply 230 V – 50 Hz</p> <p>Current consumption 1.1 A</p>
Height (with controller block)	670 mm		
Height (without controller block)	474 mm		
Width (with fill valve)	334 mm		
Depth (with insulation)	160 mm		
Spacing (flow-return)	100 mm		
Connections for pipes	1"int		
Connection for expansion vessel	3/4"ext flat seal		
Connection for safety valve	3/4"int		

• AVAILABLE MODEL:

Reference	Designation
50070204002	Compact solar station DN25 with controller