

COMPACT SOLAR STATION DN20 WITHOUT CONTROLLER

Technical datasheet Nr 75

• DESCRIPTION:



Solar



High efficiency circulator pump

The compact solar station DN20 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 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 30m²_{aperture} of flat-plate collectors SUN 300 and up to 18m²_{absorber} of vacuum tube collectors SUN 400. *under conditions

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 WILO YONOS PARA ST 15/13 PWM

Solar drain valve

Direct readable flowmeter 3-22l/min with ball valve for flow balancing

• TECHNICAL SPECIFICATIONS:

Fonctionning range		Hydraulic performance curves													
Maximum operating temperature	120 °C														
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	Brass	<table border="1"> <thead> <tr> <th colspan="2">Dimensions</th> </tr> </thead> <tbody> <tr> <td>Hauteur (sans bloc régulateur)</td> <td>383 mm</td> </tr> <tr> <td>Height (without controller block)</td> <td>334 mm</td> </tr> <tr> <td>Width (with fill valve)</td> <td>150 mm</td> </tr> <tr> <td>Depth (with insulation)</td> <td>100 mm</td> </tr> <tr> <td>Spacing (flow-return)</td> <td>3/4"int</td> </tr> </tbody> </table>	Dimensions		Hauteur (sans bloc régulateur)	383 mm	Height (without controller block)	334 mm	Width (with fill valve)	150 mm	Depth (with insulation)	100 mm	Spacing (flow-return)	3/4"int	
Dimensions															
Hauteur (sans bloc régulateur)	383 mm														
Height (without controller block)	334 mm														
Width (with fill valve)	150 mm														
Depth (with insulation)	100 mm														
Spacing (flow-return)	3/4"int														
Gaskets	EPDM														
Anti-thermosiphon check valves	Brass														
Insulation	EPP (λ=0,041W/(m.K))														
Dimensions															
Hauteur (sans bloc régulateur)	383 mm														
Height (without controller block)	334 mm														
Width (with fill valve)	150 mm	<table border="1"> <thead> <tr> <th colspan="2">Electric characteristics</th> </tr> </thead> <tbody> <tr> <td>Power supply</td> <td>230 V – 50 Hz</td> </tr> <tr> <td>Current consumption</td> <td>0.66 A</td> </tr> </tbody> </table>	Electric characteristics		Power supply	230 V – 50 Hz	Current consumption	0.66 A							
Electric characteristics															
Power supply	230 V – 50 Hz														
Current consumption	0.66 A														
Depth (with insulation)	100 mm														
Spacing (flow-return)	3/4"int														
Connections for pipes	3/4"int flat seal														
Connection for expansion vessel	3/4"int														

• AVAILABLE MODEL:

Reference	Designation
40030502001	Compact solar station DN20 without controller