

COMPACT SOLAR STATION DN20 WITH CONTROLLER

Technical datasheet Nr 74

• DESCRIPTON:



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 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 30m²_{aperture} of flat-plate collectors SUN 300 and up to 18m²_{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 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

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%

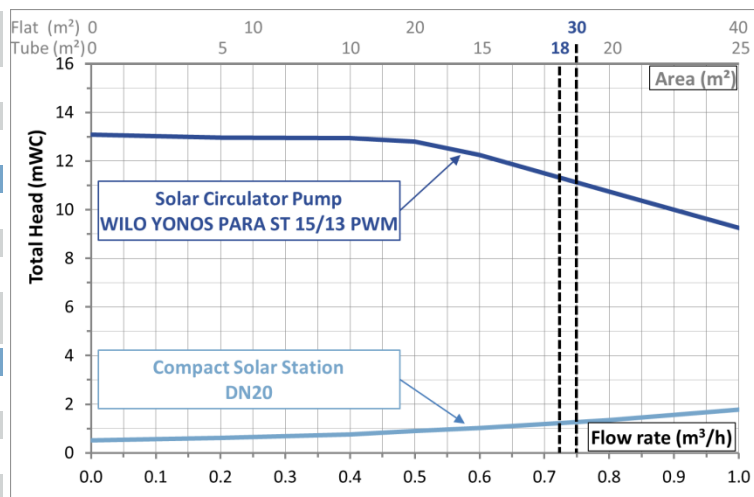
Materials

Valves and fittings	Brass
Gaskets	EPDM
Anti-thermosiphon check valves	Brass
Insulation	EPP (λ=0,041W/(m.K))

Dimensions

Height (with controller block)	570 mm
Height (without controller block)	383 mm
Width (with fill valve)	334 mm
Depth (with insulation)	150 mm
Spacing (flow-return)	100 mm
Connections for pipes	3/4"int
Connection for expansion vessel	3/4"ext flat seal
Connection for safety valve	3/4"int

Hydraulic performance curves



Electric characteristics

Power supply	230 V – 50 Hz
Current consumption	0.66 A

• AVAILABLE MODEL:

Reference	Designation
50070204001	Compact solar station DN20 with controller