

TPS 20

The two-string solar station TPS 20 is a complete pre-assembled hydraulic unit with integrated Steca controller TR 0301. The pump assembly is the connecting link between the solar collector system and the hot water storage tank, and includes all fittings and safety devices for safe and long-lasting operation of a solar thermal system. Complete prefabrication enables quick and easy installation of all system hydraulics. With the aid of a newly developed flow rate display, and an inspection glass made of borosilicate glass, the present flow rate is always indicated. For increased operational safety of the system, an optional integrated air scoop can be used as a continuous air separator in the supply circuit. The standard is a Wilo Star ST20/6 solar thermal pump with an installation length of 130 mm. Alternatively, other pump types with G1 threaded connectors (e.g. Wilo Star ST20/7) are available at extra cost. The supply circuit and the circulation pump can be shut off completely, so that it is not necessary to empty the entire solar energy system for servicing or pump replacement. In keeping with our high quality standards, all fluid-carrying components are brass and completely screw-fitted.

Features:

- DN 20 solar station with integrated Steca controller TR 0301
- Standard pump: Wilo Star ST20/6 (ST20/7, for example, available at extra cost)
- Full metal dial thermometer 0 - 160 °C for supply and return
- Newly developed flow display from 1 - 20 L/min.
- 6 bar safety valve, approved for solar energy systems
- 0 - 6 bar manometer, high-temperature resistant, full metal with shut-off valve
- Gravity brakes in supply and return, made of solid brass, can be installed with shut-off ball valve
- Integrated air scoop for continuous air separation during operation
- Integrated and easy-to-use flushing and filling unit before the pump, via emptying taps
- Elastic design heat insulation made of expanded polypropylene (EPP), can be used at up to 120 °C and for short periods up to 160 °C, 100 % insulation of fittings with very good ventilation and cooling of the pumps
- Wall-mounting with steel wall bracket for very easy installation
- ¾" connections, external threads, flat sealing
 - Simple stainless steel corrugated pipe connection on the collector side flat sealing ¾" or
 - Cutting ring screw connection DN 20-18mm Cu or DN 20-15mm Cu or
 - Commercially available fittings

Solar station	TPS 20
Nominal size	DN 20
Circulation pump	Wilo Star ST20/6 (optional e.g. ST20/7)
Fittings	brass
Seals	Klingsil / EPDM
Insulation	expanded polypropylene (EPP)
Max. pressure	10 bar
Max. temperature	120 °C, temporarily 160 °C
Gravity brakes	supply and return, installable 2 x 200 mm wc = 400 mm wc total
Flow display	1 - 20 L/min
Safety valve	6 bar, for solar thermal systems
Manometer	0 - 6 bar, high-temp. resistant
Thermometer	0 - 160 °C, full metal
Connections	¾" external thread
Centre distance	90 mm
Dimensions incl. insulation l x w x h	520 x 315 x 170 mm




TPS 20 AF complete with
- Wilo Star ST20/6 pump
- TPA A-20 Air separator
- TPA F-20 Flow display

TPS 20 with controller TR 0301



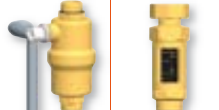
inclusive		Typ
X	X	TPS 20 AFR31
X	-	TPS 20 AR31
-	X	TPS 20 FR31
-	-	TPS 20 R31
Air separator	Flow display	



TPS 20 without controller



inclusive		Typ
X	X	TPS 20 AF
X	-	TPS 20 A
-	X	TPS 20 F
-	-	TPS 20
Air separator	Flow display	



TPA ADG^{3/4"}

^{3/4"} connection set for expansion vessel

For connection to the ^{3/4"} safety set; stainless steel corrugated hose ^{3/4"} int. thread – int. thread x 500 mm, wall bracket with fixing materials, for max. vessel Ø = 440 mm



TPA FPA

Hand pump, filling pump and injection pump

External thread = ^{1/2"}, 15mm hose connection, with additional emptying tap, attainable pressure up to approx. 4 bar, length 225 mm

TPA A-20

Air separator DN 20

Specially developed for continuous degasification of the heat-transfer fluid of solar energy systems. Optimal installation site: in the supply of the collector within the solar station. Separated air builds up in the air separator, and can be released occasionally by hand. This is particularly advisable when using stainless steel corrugated pipes in order to completely bleed the system.

Dimensions l x w:
130 mm x 75 mm; air stop: Ø 60 mm

Connections:
2 x ^{3/4"} external thread connections



TPA F-20

Flow display DN 20

Flow rate measuring device with functional inspection, can be used at up to 120 °C in „cold“ return, measuring range 1-20 L/min

Dimensions l x w:
106 mm x 40 mm

Connections:
Top 1" internal thread (union nut), bottom ^{3/4"} external thread



TPA SVS-2015

Cutting ring screw connection set

Suitable for TPS 20 solar station, 2 connections packed as a set, made of brass, for Cu pipe Ø 15 mm, with ^{3/4"} nut



TPA SVS-2018

Cutting ring screw connection set

Suitable for TPS 20 solar station, 2 connections packed as a set, made of brass, for Cu pipe Ø 18 mm, with ^{3/4"} nut

