



# TAKA BIOME 300 DP



## General Characteristics

### Indirect Thermosiphon

Collector area	3,90 m <sup>2</sup>
Tank storage capacity	290 L
Weight Empty	192 kg
Weight Filled	496 kg
Collector number	02

### Heat exchanger

Exchanger type	Double Jacket
Fluid Capacity	12 L
Maximum operating pressure	2 bars
Transfer fluid	water + propylene glycol
Concentration	30%

## Collector K7 Characteristics

### General Characteristics

Dimensions (L x W x H)	1884 x 1035 x 77mm
Gross area	1,95 m <sup>2</sup>
Aperture area	1,84 m <sup>2</sup>
Maximum working pressure	10 bars
Weight Empty	29 kg
Absorber Capacity	1,1 L

### Absorber

Absorber grate	Copper in Harpe
Tube number	08
Riser Tube diameter	8 mm
Collector diameter	18 mm
Absorber type	Aluminium
Absorber number	01
Grate connection/absorber	laser welding
Absorber coating	Highly selective layer (MIROTHERM)

### Thermal Insulation

Bottom insulation	Mineral wool
Insulant thickness	30 mm
Nominal value of the thermal conductivity	0.039(W/m <sup>2</sup> °k)

## Transparent Cover

Glass quality	Special Solar glass tempered, clear and low iron content
Glass thickness	3,2 mm

## Collector housing

Frame material	Aluminium profile anodized in one piece
Frame background	Alluminium sheet
Frame thickness	75 mm Profile
Inlet connection	04
Inlet position	02 on each big side of the frame
Angular protection of the frame	04, shock resistant and UV protection

## Water Storage Tank Characteristics

### General Tank Characteristics

Tank disposition	Horizontal
Nominal capacity	290 L
Integrated Exchanger	no

### Dimensional Tank Characteristics

Outside diameter	0,55 m
Total length	2,05 m
Weight Empty	95 kg
Weight Filled	382kg

### Storage Tank Characteristics

Tank material	Steel for enamelling
Inside covering	Enamel
Hydraulic connection pipes	6 black steel pipes 4,5 mm ø 25,5 mm thickness
Corrosion protection	1 Enamel layer + 2 magnesium anodes
Maximum temperature	120 C°
Maximum pressure	14 Bars



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## Water tank Outside Cover

Jacket material	Galvanic pre lacquered sheet with plastic film protection.
Jacket thickness	0,6 mm
Colors	Grey, white, yellow sand

## Water tank insulation

Insulation material	Polyurethan foam
Insulation thickness	45 mm
Insulation density	37 kg/m <sup>2</sup> - 40 kg/m <sup>2</sup>
Insulation Making Process	High pressure machine injection

## Hydraulic Connexion Tank / collector

Tube material	Copper
Tube diameter	18 mm
Tube insulation	Armaflex insulating pipes

## Other Component's Characteristics

### Safety Group characteristics

Brand	SOPAL/SFR/WATTS
Valve calibration	7 bars

### Electric Booster /Resistance Structure

Brand	BAUMONT FRANCE
Power	Ceramic Resistance 1800 W
Position inside tank	Horizontal
Regulation mode	Thermostat
Wiring characteristics	2 x 2,5 mm <sup>2</sup>
Resistance Support	STAINLESS Steel Barrel

### Mounting set

Mounting set material	Galvanic Sheet/Magnelis (according to the request)
Thickness	1,5 & 2 mm
Tilt angle	Mainly 30°
Other tilt angles	upon request.