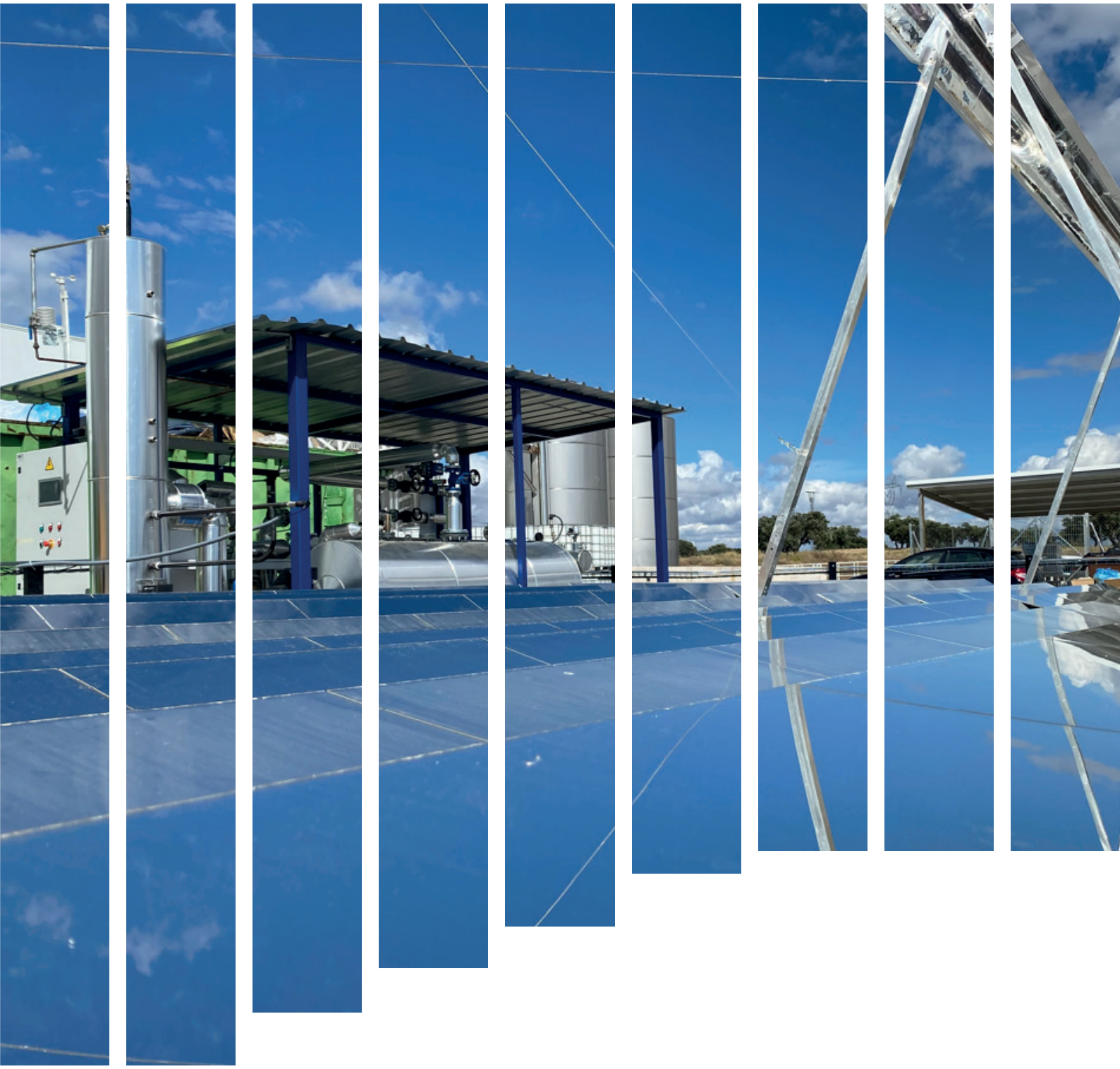


R&D Equipment

SOLATOM

All-in-one solution for solar concentration research and development

www.solatom.com

Solar field

SOLATOM's **FLT** linear Fresnel collector brings modular solar fields perfect for small pilot plants and demonstration projects

- Aperture area from 26.4 m²
- Peak power of 0.5 kW/m²
- Modular and transportable. Ideal for temporary projects
- Ultra-lightweight (25 kg/m²), suitable for both ground and rooftop
- No foundations required
- Certified under ISO 9806 and wind tunnel tested

2 Tandem in 1+1 Layout

Available solar field size and layout configuration:

	1 Master	1 Tandem	2 Tandem		3 Tandem		4 Tandem		>4T
*Peak power - kW**	13	40	79		119		158		*Available upon request*
Mirror area - m²	26.4	79.2	158.4		237.6		316.8		
Layout	1M	1	1 + 1	2	2 + 1	3	2 + 2	4	
Footprint - m²	61.3	121.2	232.4	244.5	348	365	469	485.4	
Dimensions	7.3 m × 8.4 m	7.3 m × 16.6 m	14 m × 16.6 m	7.3 m × 33.5 m	7 m + 7 m × 33.5 m	7.3 m × 50 m	14 m × 33.5 m	7.3 m × 66.5 m	

** Reference conditions: DNI=900 W/m2, T_{in}=150°C, T_{out}=180°C, T_{amb}=30°C, θ_{trans}=15°, θ_{long}=0° and vacuum absorbers*

Solar field transportation

One pre-assembled tandem in truck or standard shipping container 40¨

Remote control

Remote control of the solar field from a mobile phone

Real-time status of all tracking devices

Solar field add-ons

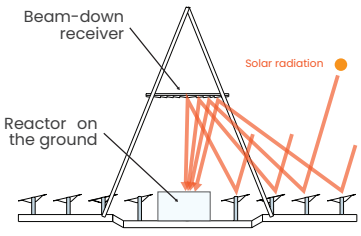
Solar field deployment

The FLT modules are shipped pre-assembled for customer deployment, with SOLATOM commissioning remotely.

It is also possible to ask SOLATOM for **on-site deployment** as an add-on.

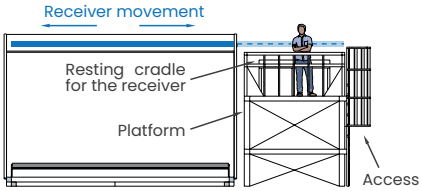
Beam-down system

Beam-down system for applications where the **receiver is located at ground level**. It is recommended for use with reactors or worm-type receivers/belt receivers.
The beam-down system's orientation is adjustable to achieve **different flux distributions at the receiver aperture.**
The beam-down system requires the removal of two rows of mirrors, reducing the aperture area by 20%.



Receiver-level platform

Scaffold-type platform for performing receiver-level testing. This system is recommended when testing with different types of receivers or performing receiver-level measurements are required.

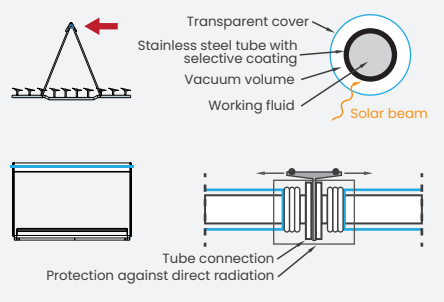


Receiver system

Range of interchangeable receiver systems for all types of applications

Vacuum absorber tubes

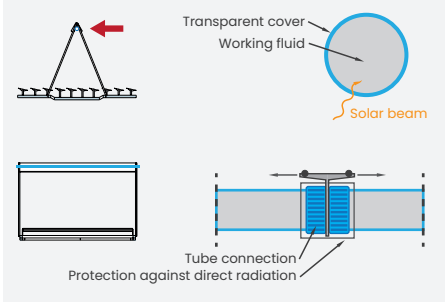
High vacuum absorber tube for high temperature thermal applications (<350°C)



Connection between absorber tubes

Transparent tubular receivers

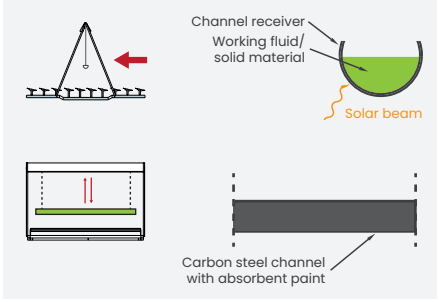
Transparent borosilicate tubing for photochemical and nanomaterial applications up to 70°C



Transparent receiver in operation

Channel receiver with hoisting system

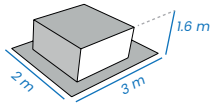
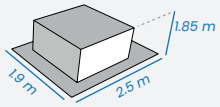
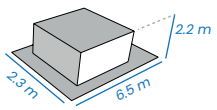
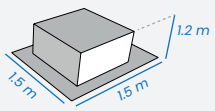
Channel receiver with hoisting system for static testing of semi-solid materials



Channel receiver with hoisting system

Hydraulic units

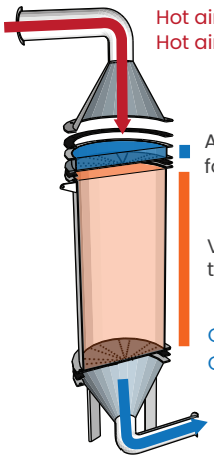
Selection of pre-assembled hydraulic units on skids for high-temperature thermal applications with different fluids

Process	Standard operation	Dimensions
Pressurized hot water	Fluid : Water T_{op} : 150 °C P_{op} : 5 bar	
Direct steam generation	Fluid : water-steam T_{op} : 165 °C P_{op} : 6 bar	
Indirect steam generation	Fluid : water/steam T_{op} : 165 °C P_{op} : 6 bar	
Hot air	Fluido : Air T_{op} : 300 °C P_{op} : 1 bar	
Thermal oil		*Available from 2026*

For all units: *Standard domestic single-phase 220 VAC power supply (3-phase available on request). Includes control cabinet with SCADA. Trans-portable in a shipping container. Outdoor mounting. Weather station. Requires vacuum absorbers. Solar field connection piping not included.*

Thermal storage

System for testing thermal storage in solid material



Characteristics

Volume for solid material => 1.5 m^3
Volume for PCM material => 0.135 m^3

- Allows easy exchange of materials in industrial gib bag type sack (1 ton)
- Allows different granulometries
- Possibility of power2heat type add-on

Includes: *Water/air hydraulic unit in SKID. Internal temperature sensors along the tank. Includes control cabinet with SCADA. Meteo station*

Pricing

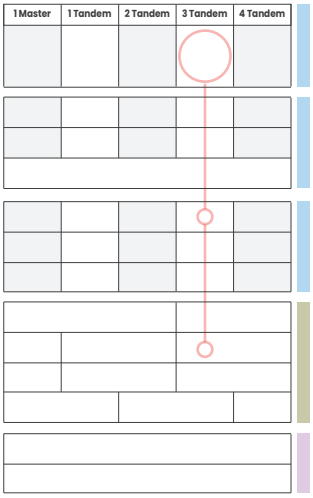
Prices valid until December 2025 (in euros)

	1 Master	1 Tandem	2 Tandem	3 Tandem	4 Tandem	
Solar field standard *EWK, deployed by client, without receiver system, includes spare parts, includes remote commissioning* *Cost per m²*	*19,845* *751*	*30,221* *381*	*51,298* *323*	*72,886* *306*	*93,304* *294*	**Solar field**
Deployment by SOLATOM	*4,500*	*4,736*	*6,462*	*7,849*	*9,835*	**Solar field add-ons**
Beam-down system	*4,200*	*10,400*	*20,800*	*30,700*	*40,100*	
Receiver-level platform	*18,000*					
Vacuum absorber tubes	*4,755*	*7,579*	*14,449*	*19,228*	*23,723*	**Receiver system**
Transparent tubular receivers	*3,642*	*4,210*	*8,026*	*10,039*	*11,918*	
Channel receiver with hoisting system	*2,797*	*6,546*	*12,481*	*18,530*	*24,267*	
Pressurized hot water	*45,000*			*54,500*		**Hydraulic units**
Direct steam generation	*not availabe*	*71,500*		*81,000*		
Indirect steam generation		*89,600*		*99,400*		
Hot air		*26,700*	*35,600*	*not availabe*		
Thermal storage solid materials	*71,300*					**Thermal storage**
Thermocline storage	*25,000*					

How to use the table:

1) Select the column with the size of the solar field:

2) Follow the column to select the desired additional items:



The thermal storage and the hydraulic units can be sold separately. The solar field add-ons and the receiver system require a solar field (they are not sold separately).

3) Add up all the selected items to get your budget

If you need more customization, contact our technical team at info@solatom.com

We are up to the challenge!

SOLATOM

Plaça Moli 9 U-II-6 Ind, 4, 46988 Paterna, Valencia
www.solatom.com