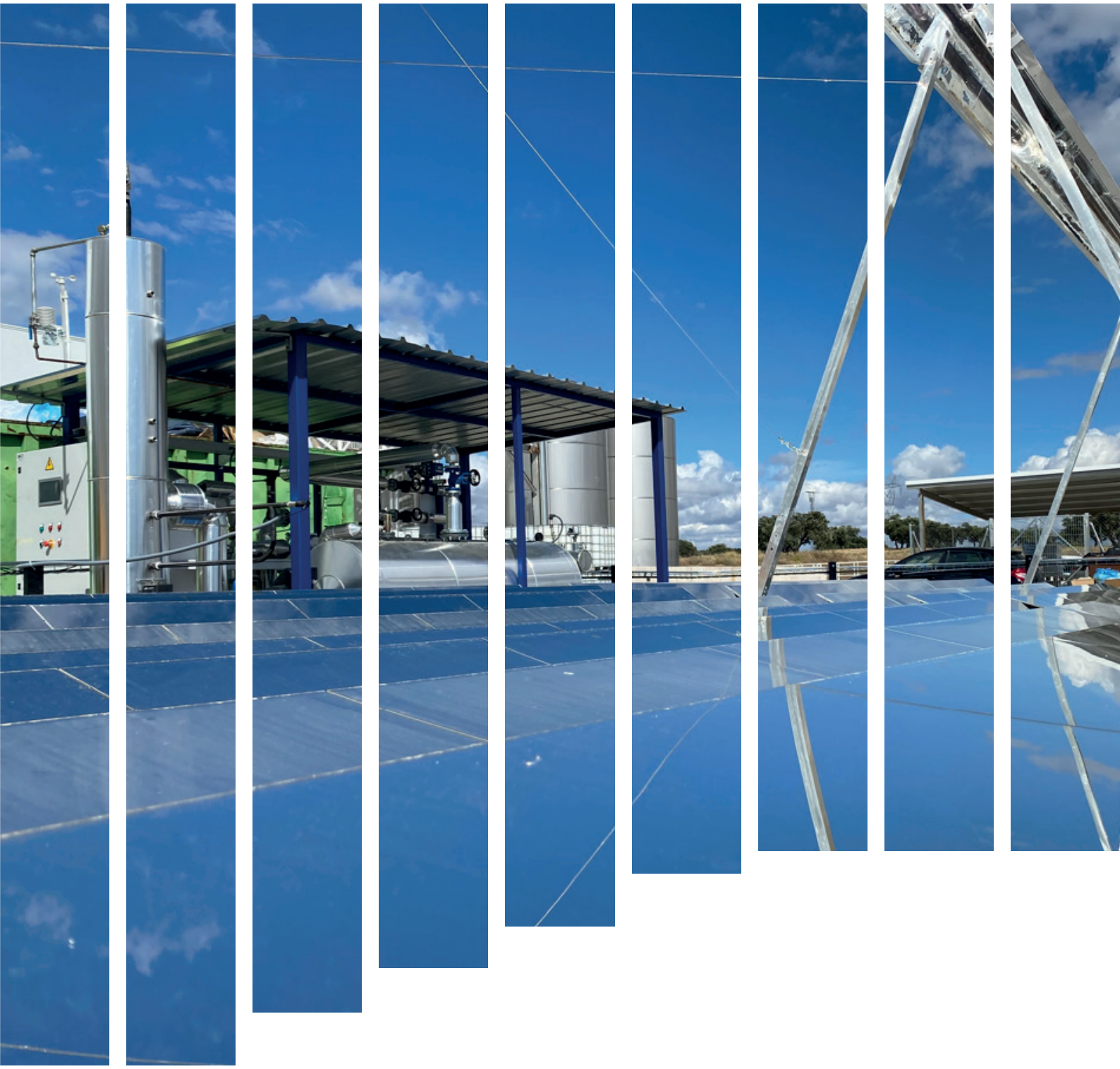


R&D Equipment

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

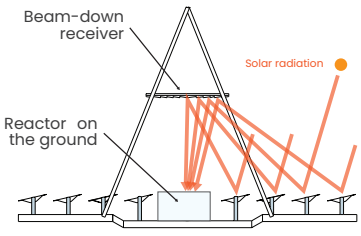
Solar field deployment

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.

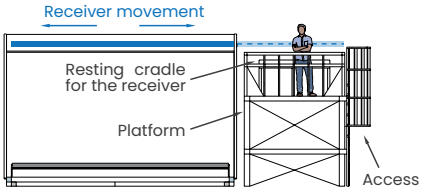
Beam-down system

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.

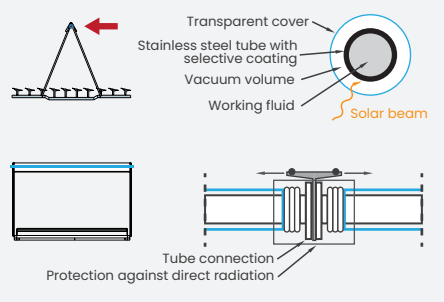


Receiver system

Range of interchangeable receiver systems for all types of applications

Vacuum absorber tubes

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

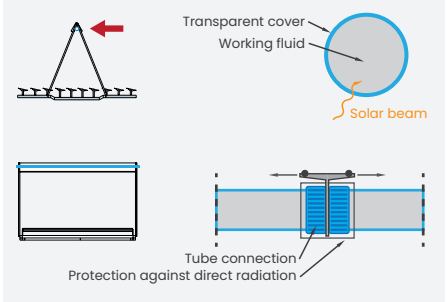




Connection between absorber tubes

Transparent tubular receivers

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

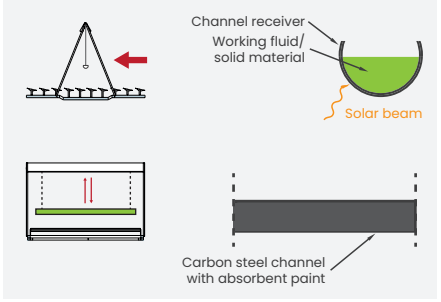




Transparent receiver in operation

Channel receiver with hoisting system

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





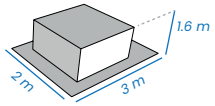
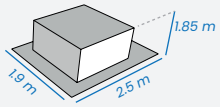
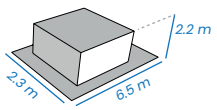
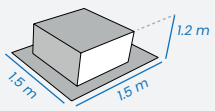
Channel receiver with hoisting system

Hydraulic units





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

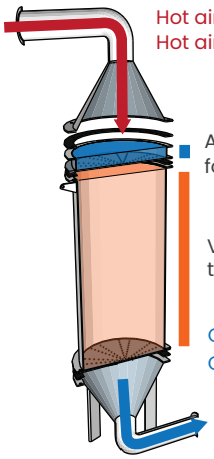
Process	Standard operation	Dimensions
Pressurized hot water	Fluid : Water T_{op} : 150 °C P_{op} : 5 bar	
Direct steam generation	Fluid : water-steam T_{op} : 165 °C P_{op} : 6 bar	
Indirect steam generation	Fluid : water/steam T_{op} : 165 °C P_{op} : 6 bar	
Hot air	Fluido : Air T_{op} : 300 °C P_{op} : 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 March 2027 (in euros)

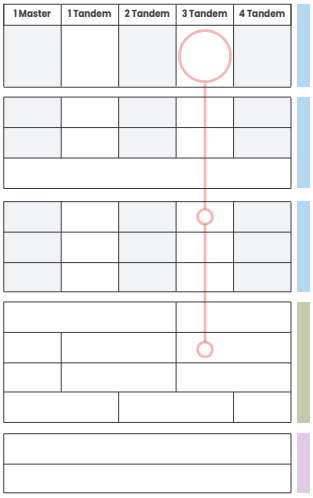
	1 Master	1 Tandem	2 Tandem	3 Tandem	4 Tandem	
Solar field standard *EWK, deployed by client, without receiver system, includes spare parts, includes remote commissioning* *Cost per m²*	19,945 755	30,825 389	52,324 329	74,344 312	95,170 300	Solar field
Deployment by SOLATOM	4,590	4,831	6,591	8,006	10,032	Solar field add-ons
Beam-down system	4,284	10,608	21,216	31,314	40,902	
Receiver-level platform	18,360					
Vacuum absorber tubes	4,850	7,731	14,738	19,613	24,198	Receiver system
Transparent tubular receivers	3,715	4,294	8,187	10,240	12,156	
Channel receiver with hoisting system	2,853	6,677	12,731	18,901	24,752	
Pressurized hot water	45,900			55,590		Hydraulic units
Direct steam generation	not availabe	72,930		82,620		
Indirect steam generation		91,392		101,388		
Hot air		27,234	36,312	not availabe		
Thermal storage solid materials	72,726					Thermal storage
Thermocline storage	25,500					

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

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www.solatom.com