

Overview OEM absorbers

Absorber manufacturer	Capacity [m ²]	Absorber widths [mm]	Absorber lengths [mm]	Coatings	Sheet material	Tube material	Tube wall thickness [mm]	Hydraulics	Connection technology
Astera, Spain	200,000	600 up to 1,300	1,300 up to 2,150	blue	Cu	Cu	0.5 up to 1.0	harp	ultrasonic
Chiryu Heater, Japan	n/a	1,000	1,960	chrome	stainless	stainless	1.0 / 3.0	n/a	welding
Dimas, Greece	> 200,000	2,200	up to 6,000	blue / chrome / paint	Al	copper	0.4 up to 1.0	harp	laser
ESC, Austria	120,000	1,250	2,500	blue	Al	Al / Cu	0.3 up to 0.5	harp / meander	Omega
Ezinc, Turkey	1,200,000	1,200	up to 3,000	blue / paint	Al / Cu	Al / Cu	0.5 up to 1.0	harp / meander	ultrasonic / extrusion
ForSun, Germany	120,000	1,250	3,000 / 8,000 ¹	blue / chrome	Al / Cu ²	Cu	0.4 / 0.5	harp / meander	CSW
GREENoneTEC, Austria	1,600,000	up to 1,200	up to 2,600 ³ / 4,000 ⁴	blue / paint	Al / Cu	Cu	0.35 up to 1.0	harp / meander	laser / ultrasonic
Kioto Clear Energy, Mexico	420,000	1,440	up to 4,400	blue / paint	Al / Cu	Cu	0.45 up to 0.9	harp	laser
Módulo Solar, Mexico	120,000	300 up to 2,440	500 up to 3,050	blue / chrome / paint	Al / Cu	Cu	n/a	harp	laser / ultrasonic
Nobel, Greece	340,000	935 / 1,200 / 1,420 / 1,920	935 / 1,420 / 1,920	blue / chrome / paint	Al / Cu	Al / Cu	0.5 up to 0.7 ⁵ / 1.0 ⁶	harp / meander	laser
Openplus, Portugal	380,000	100 up to 125 ¹ / 1,250	2,500 / 5,000	blue	Al / Cu	Al / Cu	0.4 up to 0.8	harp / meander	ultrasonic
Papaemmanouel, Greece	220,000	80 up to 1,500	1,000 up to 2,500	blue / paint	Al / Cu	Al / Cu	0.4 up to 0.6	harp / meander	laser / ultrasonic
Prime Laser Tech, Greece	250,000	up to 2,500	up to 6,000	blue / chrome / paint	Al / Cu	Cu / Al / dual	0.4 up to 0.7 ⁵ / 0.6 up to 1.0 ⁷	harp / meander	laser
Prosunpro Solar, China	9,000,000	950	1,840	blue / chrome	Al / Cu	Cu	0.5 up to 0.8	harp	laser / ultrasonic
Ruperti Werkstätten, Germany	100,000	1,200	2,350	blue	Al / Cu	Al / Cu	0.5 ⁵ / 0.8 ⁶	n/a	ultrasonic
Soltop, Switzerland	120,000	up to 1,250	up to 2,500	chrome ⁵ / blue ⁶	Al / Cu	Cu (Al)	0.5	meander	laser
Sunex, Poland	100,000	1,500	2,500	blue	Cu	Cu	0.5	harp / meander	ultrasonic / soldering
Sunway de México, México	8,800	n/a	n/a	paint	Al / Cu	Cu	n/a	n/a	ultrasonic
Termicol, Spain	200,000	1,250	up to 3,000	blue / paint	Al / Cu	Cu	0.4	harp	ultrasonic
Wagner & Co, Germany	n/a	1,200	2,200	blue	Al	Cu	0.4 / 0.7	harp / meander	laser

The largest capacities for absorber production are at Prosunpro, GREENoneTEC and Ezinc.

Source: company data

blue = highly selective vacuum deposition layer; chrome = black chrome; paint = black painted; stainless = stainless steel; CSW = Continuous Step Welding; Omega = Omega Technology; ¹ fins; ² fins only copper; ³ copper / copper; ⁴ aluminium / copper; ⁵ copper; ⁶ aluminium; ⁷ aluminium or dual

Fins can be manufactured continuously at any desired lengths.

Photo: Prosunpro

