

Features and functionality

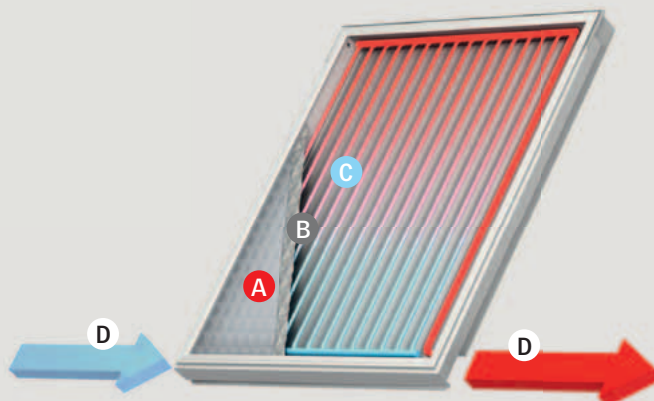
VELUX solar collectors bring together a slender and stylish design with a high heating effect and many functional details.

The newest generation of VELUX solar collectors are equipped with anti-reflective glass that allows up to 96% of the sunrays to reach the absorber. Also, it is now possible to connect up to 14 solar collectors in one single series thanks to minimal pressure loss in the system. A smaller system will benefit from the minimized pressure loss and save electricity due to a smaller pump workload.

The VELUX solar collectors use gasket-free tube connections that are extremely safe and facilitate a quick installation.

Benefits on installation and operation

- A** An anti-reflective treatment minimizes the amount of sunrays reflected by the glass. Instead, more light reaches the absorber and increases the heat effect.
- B** The highly solar-selective absorber takes in the sunrays and generates the highest possible amount of heat.
- C** A new and advanced harp pipe design minimizes pressure loss and enables the installation of up to 14 solar collectors in one single series, thereby avoiding hidden parallel connection pipework, flow metres and any kind of plumber work on the roof. In smaller systems, the reduced pressure loss will result in electricity savings due to the ease of the pump's work.
- D** Tube in- and outlet with gasket-free conic connections ensure an easier installation and no maintenance.



Technical dimensions for CLI 3001/5000

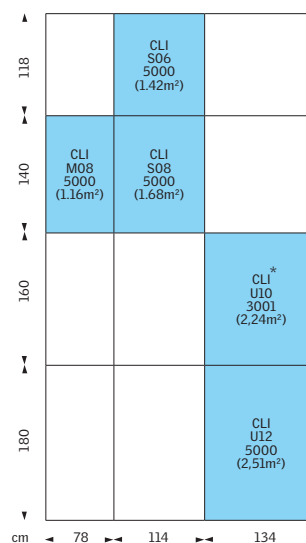
Measurements (mm)		Width				Height				Depth
		M08	S06 - S08	U10 - U12		S06	M08 - S08	U10	U12	
Gross	S	814	1174	1374	T	1207	1427	1629	1829	99
Frame	W	780	1140	1340	H	1173	1393	1595	1795	
Glass	I	747	1107	1307	J	1140	1360	1562	1762	
Aperture	E	697	1057	1257	F	1090	1310	1512	1712	
Absorber	K	705	1065	1265	L	1098	1318	1520	1720	
Packaging	-	864	1224	1424	-	1238	1458	1660	1860	105

Technical specifications for CLI 3001/5000

		CLI 5000				CLI 3001	
		M08	S06	S08	U12	U10	
Weights	Gross weight (kg)	25	30	34	51	45	
	Net weight (kg)	22	27	31	46	40	
Areas	Gross area (m ²)	1.2	1.4	1.7	2.5	2.2	
	Aperture area (m ²)	0.9	1.2	1.4	2.2	1.9	
	Absorber area (m ²)	0.9	1.2	1.4	2.2	1.9	
(Litres)		1.2	1.6	1.8	2.6	1.7	
Max operation pressure (bar)		6	6	6	6	6	
Test pressure (bar)		9	Not individually tested; thus values as CLI U12 5000			9	
Heat capacity (kJ (m ² K))		8.1				8.1	8.5*
Angle factor (K ^{dir} 50°)		0.97				0.97	0.89*
Stagnation temperature (°C)		193				193	125*
Efficiency	eta _a (start efficiency)	0.82				0.73*	
	a ₁ [W/(m ² K)]	3.29				0.82	5.10*
	a ₂ [W/(m ² K ²)]	0.017				2.64	0.03*
						0.0275	

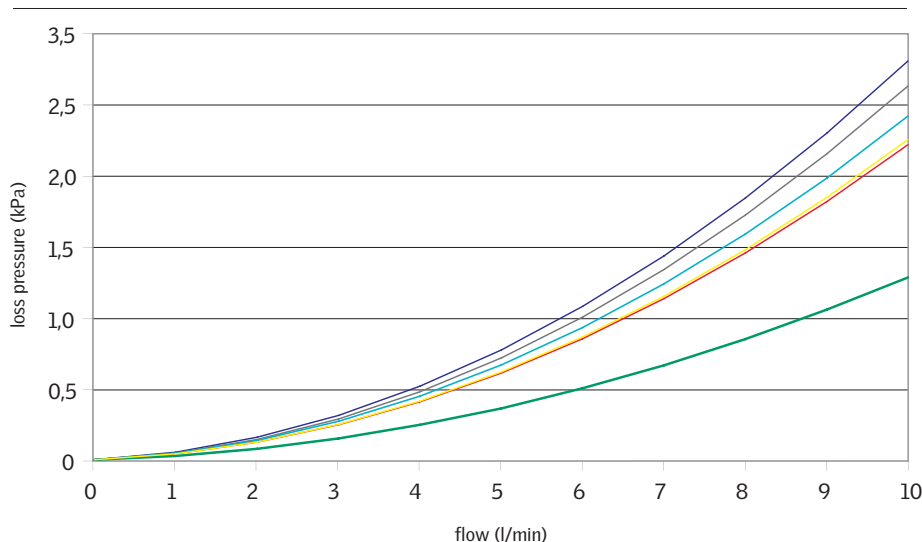
* Preliminary results. Final values will be available from May 2011.

VELUX solar collector sizes



() : Gross collector area
* CLI 3001 variant with blackpainted absorber

CLI 3001/5000 pressure losses



- ZFM/ZFR
- U10 3001
- S06 5000
- S08 5000
- M08 5000
- U12 5000

