

Direct flow evacuated tube solar collectors

High efficiency low carbon solution for hot water production

Dimplex evacuated tube collectors have been specifically designed for Northern European climates to provide an extremely efficient transfer of solar energy to heat, offering a highly efficient collector suitable for a number of applications.

Direct flow evacuated tubes are extremely versatile and can be mounted in almost any orientation including flat on the roof as no minimum slope angle is required. Therefore the range of applications is far wider than for flat plate collectors. Additionally the tubes can also be individually rotated toward the angle of incidence to maximise efficiency.

Standard kits are available as 20 or 30 tube packages, available as complete kits including manifold, tubes, roof kit and connections. They operate seamlessly with the hydraulic packs and EC-Eau solar thermal cylinders also offered by Dimplex.

Key Features

- High quality direct flow evacuated tube solar collectors for medium and high temperature hot water applications
- Suitable for both domestic and commercial applications
- Full vacuum direct flow tube
- Innovative high mechanical strength glass to metal seal
- Easy 'plug in' connections for:
 - Quick installation
 - Simple tube replacement
 - Standard tube spacing – even with multiple collectors/manifolds
- Easy to install – “one man job”
- Wide variety of mounting options including:
 - Tiled Roof, Slate Roof
 - Flat Roof (not elevated, collector laid flat)
 - Facade mounting
- High quality double 'o' ring connections ensure high quality, long lasting product
- Tubes can be rotated for optimal thermal efficiency
- 20 and 30 tube kits available which can be connected to create systems of up to 70 tubes
- 10 year product warranty
- Solar keymark approved



Specifications

	SOLCDF22	SOLCDF32
Gross collector area (m ²)	3.3	4.9
Absorber area (m ²)	1.9	2.8
Aperture area (m ²)	2.03	3.05
Length (mm)	2164	2164
Width (mm)	1500	2250
Height (mm)	120	120
Weight (kg)	45	68
Liquid content (l)	2.64	3.96
Heat loss coefficient	a1: 1.936 W/m ² K a2: 0.0064 W/m ² /K ²	
Stagnation temperature (°C)	192	
Absorber material	Copper	
Emission	5%	
Connections	Double o-ring	
Max. operating pressure (bar)	10	

Dimplex Solar Thermal System Packages

ROOF KIT PACKAGES

Choice of 20 and 30 tube collector kits (system can be designed for up to 70 tubes as one collector field)

Roof hook mounting for:

- Plain Tile
- Slate Tile

Coach Bolt mounting for:

- Plain Tile
- Slate Tile
- Sheet metal
- Facade
- Ground mounting (flat)

HYDRAULIC PACKAGES

- Two hydraulic packages available depending on size of collector field
- SOLHYPKETC-18 (2m² & 3m²)
- SOLHYPKETC-24 (4m² to 6m²)

Includes: Flow and return Pump Station, Controller, heat transfer fluid, expansion vessel and fixing kit



PACKAGE OPTIONS

- SOLDF22RT – 20 tubes with roof hooks
- SOLDF32RT – 30 tubes with roof hooks
- SOLDF22RST – 20 tubes with coach bolts
- SOLDF32RST – 30 tubes with coach bolts

Dimplex EC-Eau Solar Cylinders

DIMPLEX EC-EAU SOLAR CYLINDERS

Unvented, stainless steel construction

Choice of models from 175 – 300 litres

Indirect (twin coil) and direct (solar coil only) options

Optimally sized, high surface area heat exchangers for solar operation

Very low standing heat losses, due to 60mm CFC-free foam insulation and innovative design features

Manufactured from sustainable and recycled materials

25 year vessel warranty

Supplied complete with expansion vessel and all necessary safety equipment

KIWA approved

INDIRECT MODELS

ECSi175ST-580 – 175l twin coil

ECSi210ST-580 – 210l twin coil

ECSi250ST-580 – 250l twin coil

ECSi300ST-580 – 300l twin coil

DIRECT MODELS

ECSd175ST-580 – 175l single coil

ECSd210ST-580 – 210l single coil

ECSd250ST-580 – 250l single coil

ECSd300ST-580 – 300l single coil

Please see our EC-Eau cylinder brochure for full technical details

