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

<table>
<thead>
<tr>
<th></th>
<th>SOLCDF22</th>
<th>SOLCDF32</th>
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<tbody>
<tr>
<td>Gross collector area (m²)</td>
<td>3.3</td>
<td>4.9</td>
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<tr>
<td>Absorber area (m²)</td>
<td>1.9</td>
<td>2.8</td>
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<tr>
<td>Aperture area (m²)</td>
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<td>3.05</td>
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<tr>
<td>Length (mm)</td>
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<td>2164</td>
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<tr>
<td>Width (mm)</td>
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<td>Height (mm)</td>
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<td>120</td>
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<tr>
<td>Weight (kg)</td>
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<td>68</td>
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<td>Liquid content (l)</td>
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<tr>
<td>Heat loss coefficient a1:</td>
<td>1.336 W/m²K</td>
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<td>a2: 0.0064 W/m²K²</td>
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<td>Stagnation temperature (°C)</td>
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<td>Absorber material</td>
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<tr>
<td>Emission</td>
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<tr>
<td>Connections</td>
<td>Double O-ring</td>
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<tr>
<td>Max. operating pressure (bar)</td>
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</table>

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

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

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