



virtu^{PVT}

Solar
Redefined

Naked Energy.

2-in-1 solar solution for business:

- > Reduce heat and electricity costs
- > Improve property energy ratings
- > Meet corporate sustainability goals

More energy, less space

30–50% more financial savings*

80–300% more CO₂ savings*

Future company valuations will be measured on achieving environmental, social and governance metrics as consumers increasingly look at the environmental impact of the products and services they buy.

Virtu® delivers both heat and electricity through its breakthrough 2-in-1 solar technology. Its unique modular design is ideal for flat roofs, ground mounting and vertical facades.

Contact the Naked Energy team below and let's talk about how your business can control its energy costs with greater financial and carbon savings.

Click link below to watch introductory film
<http://virtu.nakedenergy.co.uk/>

 **PONZIO | SOLAR SA**

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* Compared to a PV system occupying same space.
Exact savings depend on your geographical location, cost of energy, the heat source being displaced and emission factor of the local power grid.



Product specifications

Dimensions – per tube

Width (mm) (latitude >40° N/S)	320
Length (mm) (tube + manifold)	2,260
Service corridor allowance (mm)	350
Height (mm)	255

Area

Gross area <i>incl. inter-tube spacing</i> (m ²)	0.72
Total space on flat roof <i>incl. corridors</i> (m ²)	0.84

Weight

Total weight (wet) (kg)	16.0
Roof loading (kg/m ²)	19.0

Materials

Photovoltaic cells	PERC monocrystalline
Absorber plate	Aluminium
Glass tube	Borosilicate 3.3
Mounting feet	Glass filled nylon

Energy outputs

Heat / power data – per tube

Peak Thermal (Wp _{th}) ¹	275
Peak Electrical DC (Wp _e) ¹	70
Annual Thermal Yield (kWh _{th}) ²	213
Annual Electrical AC Yield (kWh _e) ²	59.4
Operating temperature	up to 80°C

Carbon Savings

Annual Scope 1 (kgCO ₂ e) ³	48.0
Annual Scope 2 (kgCO ₂ e) ⁴	16.8

Financial Savings

Annual Gas Bills Savings ⁵	£ 8.32
Annual Electricity Bills Savings ⁶	£ 8.37
RHI Payment ⁷	£ 23.44
Total Annual Savings + RHI	£ 40.13

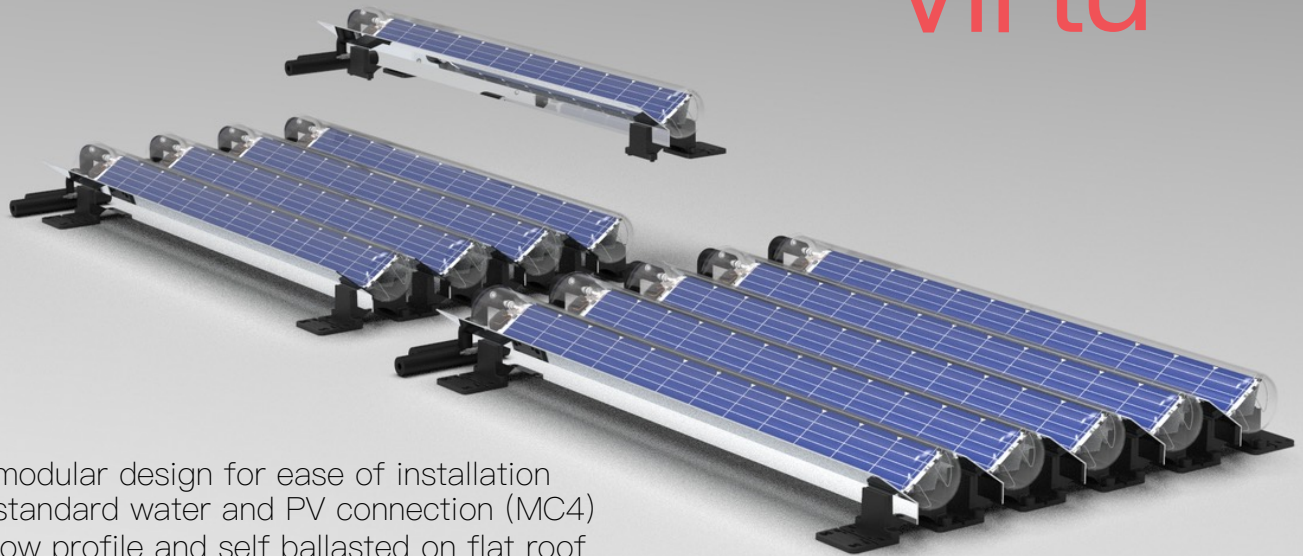
Example annual outputs for other global locations

per tube	Brasilia	London	Dubai	Los Angeles	Cape Town	Palermo
Thermal (kWh)	393	213	528	467	409	365
Electric (kWh AC)	92	59	114	109	100	90
Scope 1 (kgCO ₂ e) ³	90.4	48.0	121.4	107.4	94.0	83.9
Scope 2 (kgCO ₂ e) ⁸	24.6	16.8	80.1	33.7	95.6	31.0
Flat roof space (m ²) (latitude dependent)	0.57	0.84	0.70	0.70	0.70	0.78

Assumptions: ¹ Standard Reporting Conditions (1000 W/m², 20°C ambient, 1.3 m/s wind) at optimal incidence angle | ² London, UK with water at 55°C | ³ Emission factor of natural gas burned is 0.184 kgCO₂ / kWh_{th} | ⁴ Average emission factor of UK grid is 0.283 kgCO₂ / kWh_e | ⁵ solar heat displacing gas at 3.12 pence / kWh burned in 80% efficient boiler | ⁶ solar power displacing electricity at 14.10 pence / kWh assuming 12% DC:AC losses | ⁷ RHI payment of 10.98 pence / kWh_{th} on systems under 200 kWp_{th} | ⁸ Based on local electricity grid emission factors | Specifications may vary. Outputs subject to formal EN and IEC certification.

Mechanical specifications

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- modular design for ease of installation
- standard water and PV connection (MC4)
- low profile and self ballasted on flat roof
- integrated mounting system with adjustable pitch for different latitudes

