virtu HOT

Solar Redefined

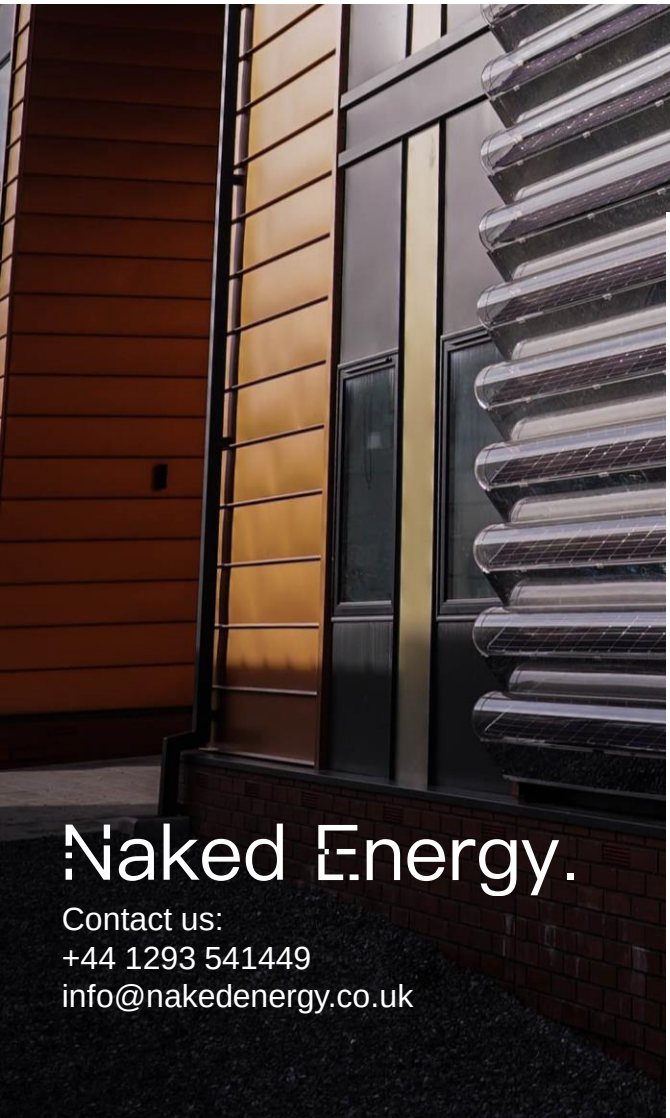
versatile solar thermal solution for business:

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

More energy, less space

30-50% more financial savings*

80-300% more CO_2 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.

VirtuHOT® delivers solar heat through its unique modular and compact design, making it 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 lick below to watch introductory film
http://virtu.nakedenergy.co.uk/

Naked Energy.

Contact us:
+44 1293 541449
info@nakedenergy.co.uk

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

Area

Gross area of tube (m^2)	0.72
Total gross area on flat roof (m^2)	0.84

Weight

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

Materials

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]	370
Annual Thermal Yield (kWh_{th}) [2]	401
Operating temperature	up to 100°C

Carbon Savings

Annual Scope 1 ($kgCO_2e$) [3]	90.0

Financial Savings (London, UK)

Annual Gas Bills Savings [4]	£ 15.64
RHI Payment [5]	£ 44.03
Total Annual Savings + RHI	£ 59.67

Example annual outputs for other global locations

per tube	Brasilia	London	Dubai	Los Angeles	Cape Town	Palermo
Thermal (kWh)	649	401	827	757	689	621
Scope 1 ($kgCO_2e$) [3]	149.2	90.0	190.2	174.1	158.4	142.8
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 $kgCO_2$ / kWh_{th} | [4] solar heat displacing gas at 3.12 pence / kWh burned in 80% efficient boiler | [5] RHI payment of 10.98 pence / kWh_{th} on systems under 200 kWp_{th} | Specifications may vary. Outputs subject to formal EN and IEC certification.

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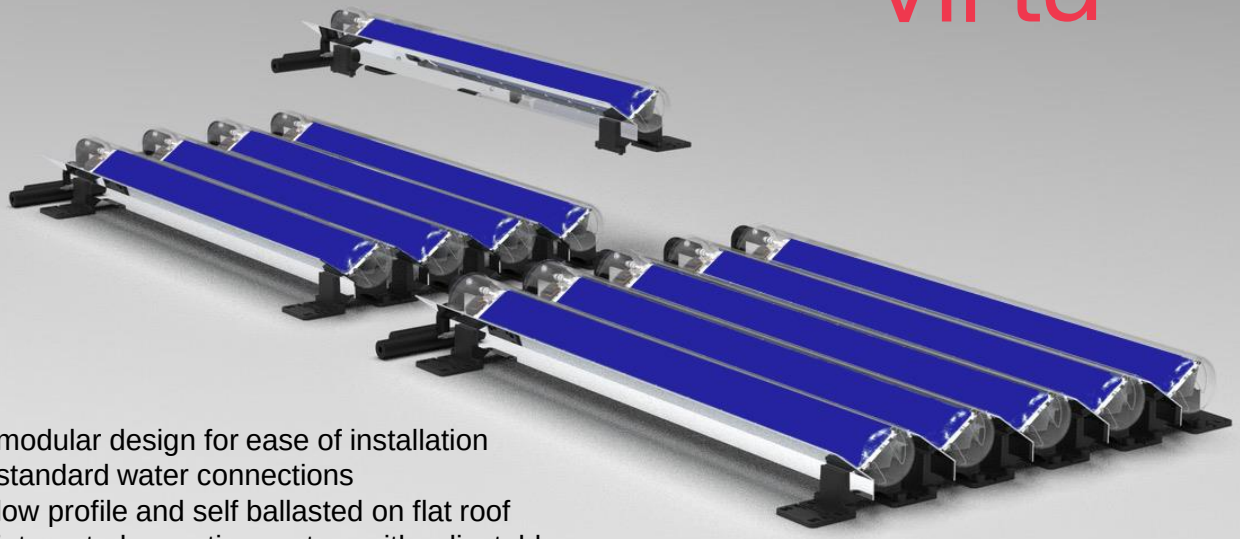
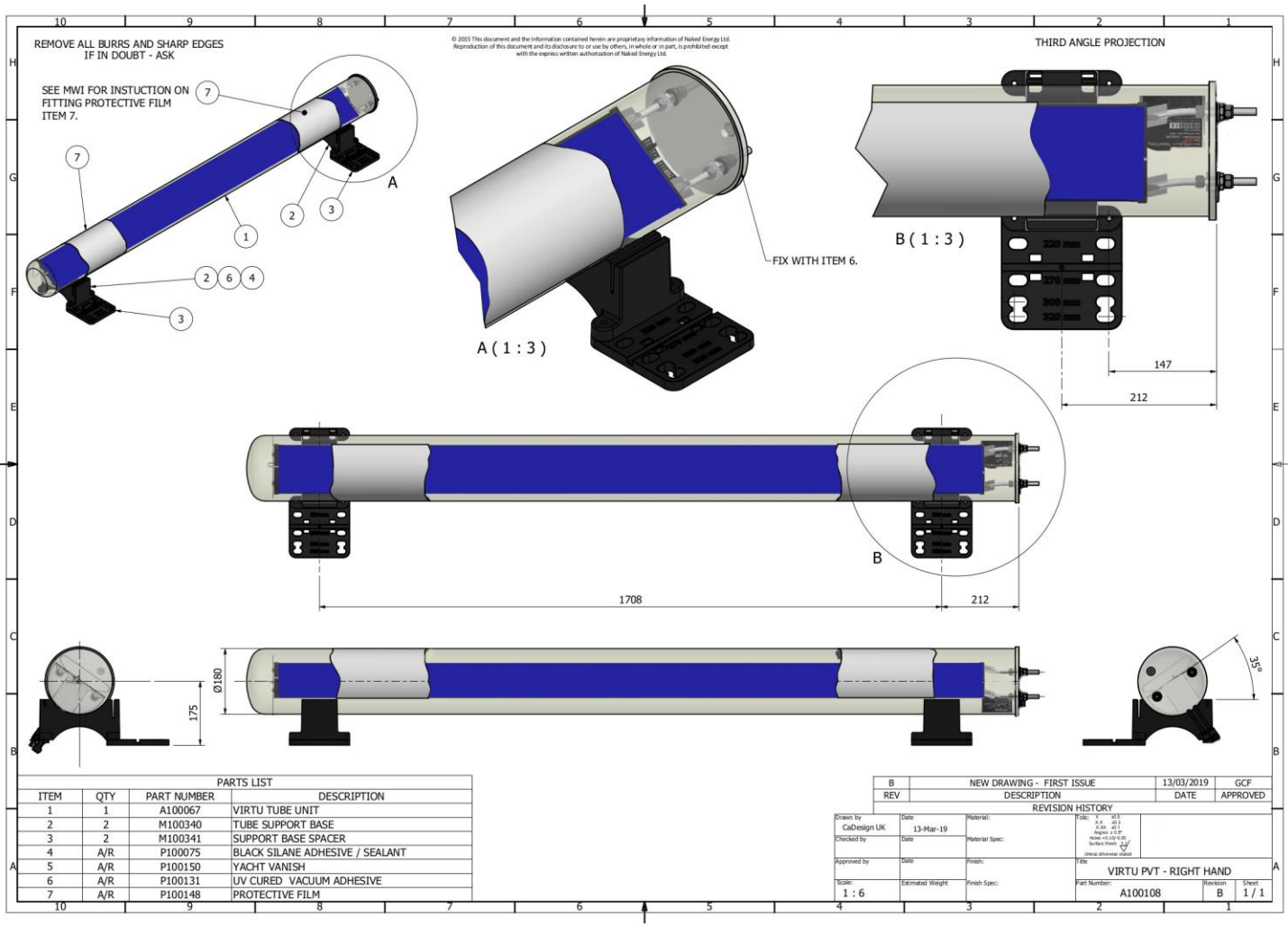
Mechanical specifications

virtu HOT



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



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	A100067	VIRTU TUBE UNIT
2	2	M100340	TUBE SUPPORT BASE
3	2	M100341	SUPPORT BASE SPACER
4	A/R	P100075	BLACK SILANE ADHESIVE / SEALANT
5	A/R	P100150	YACHT VANISH
6	A/R	P100131	UV CURED VACUUM ADHESIVE
7	A/R	P100148	PROTECTIVE FILM

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
B	NEW DRAWING - FIRST ISSUE	13/03/2019	GCF

Drawn by: CaDesign UK	Date: 13-Mar-19	Material:	Title: VIRTU PVT - RIGHT HAND
Checked by:	Date:	Material Spec:	
Approved by:	Date:	Finish:	Part Number: A100108
Scale: 1 : 6	Estimated Weight:	Finish Spec:	Revision: B
			Sheet: 1 / 1

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