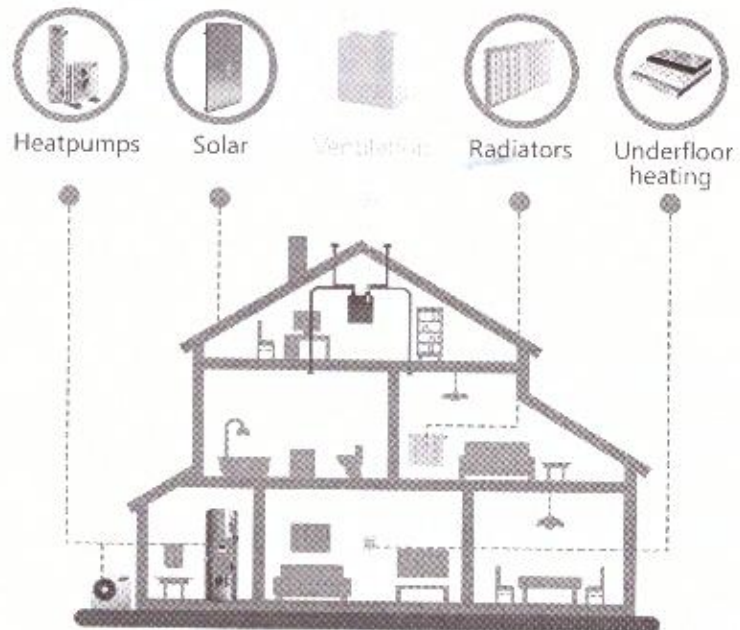


CASE NO: 310631806177 B - SQT-160722

SITE	L GALLAGHER, REAR OF 6 PETLANDS ROAD, HAYWARDS HEA
PROJECT REF	L GALLAGHER, REAR OF 6 PETLANDS ROAD, HAYWARDS HEA
HOUSE TYPE	REAR OF 6 PETLANDS ROAD, HAYWARDS HEATH
REVISION DATE	25/06/2026
VALID FROM	18/09/2025
VALID TO	24/08/2026
REVISION NO.	4
QUOTED BY	BRIAN COYNE
MERCHANT	JOULE UK REP ACCOUNT



Joule is a market leader in the design and supply of heating, hot water, ventilation and renewable systems in Ireland and UK. A new build or retrofit project is the ideal scenario for embracing renewable heating. From this ultimate blank slate, Joule can help you tailor your property's heating system to meet low-carbon regulations and reduce ongoing utility bills. Joule have developed a wide ranging portfolio of solutions for heating, hot water and ventilation systems. So whether it's a heat pump, underfloor heating, ventilation or our industry leading extensive range of hot water cylinders, Joule have the solution for you.

TABLE 1 QUOTATION SUMMARY		ALL PRICES EX-VAT			
TABLE NO.	PRODUCT	TECHNICALS	LIST PRICE	DISCOUNT	DISCOUNTED LINE PRICE
Table 2	 Heatpump		£ 7,157.10	0.00%	£ 7,157.10
Table 3	 Underfloor Heating		£ 1,236.65	0.00%	£ 1,236.65
Table 4	 Radiators		£ 2,610.92	0.00%	£ 2,610.92
Table 5	 Solar		£ 3,322.87	0.00%	£ 3,322.87
Summary			£ 14,327.54		£ 14,327.54

HEATPUMP SAMSUNG

- Reduced CO2 emissions
- A highly energy efficient system
- Low noise levels - as low as 35dB(A)



TABLE 2 SQT-160722 HEATPUMP ALL PRICES EX-VAT

ITEM NO.	DESCRIPTION	Q	LIST PRICE	LINE DISCOUNT %	DISCOUNTED PRICE
HXSM-G6-002	SAMSUNG MONO 8-6.37KW 1PH SO SYS	1	£ 3,064.62	0%	£ 3,064.62
HHSM-G600008-1	Samsung Mono HP 8kW 1ph - Gen 6	1			
HZSMC-G7-CNMIM	Mono Control Centre G6,G7& HT (E03CN001)	1			
HZK-0Y-000001F	1" Y Pattern Strainer with Isolation	1			
HZK-0V-0000028	28mm Iso Valve Red	2			
HZK-CW00000028	28mm washer for braided hose	4			
HZK-H28-U-P750	Pair-750mm Heat Pump Flexible Braided Hoses	1			
TNVEKIT-00000Z	Unvented Kit box	1			
Sub Total					£ 3,064.62

Add-Ons

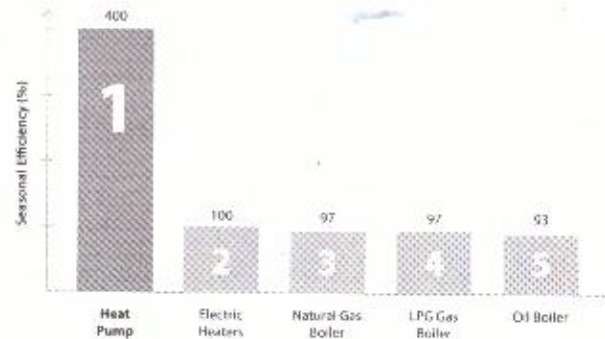
BTSSD-00050LFC	Joule 50L Heat Pump Buffer Cylinder	1	£ 459.65	0%	£ 459.65
TCIMVG-0250NFC	250L sol TWIN HG short C	1	£ 1,776.77	0%	£ 1,776.77
Sub Total					£ 2,236.42

Optional Extras

HZK-0C-0000020	20L CONCENTRATE HP FLUID	1	£ 102.00	0%	£ 102.00
HZK-0K-00600MM	Anti Vibration Fix-it Foot 600mm	1	£ 65.85	0%	£ 65.85
COMMISSION-ASHP-UNPL	UNPLUMBED ASHP COMMISSION (SERVICE/INSTALL ONLY)	1	£ 770.00	0%	£ 770.00
HZC-0000A25-60	circulating pump (25/7m)	2	£ 285.58	0%	£ 285.58
HZK-0P-0028X01	Flowmeter 28mm x 1" compression	1	£ 48.03	0%	£ 48.03
TZM-I-PH-022MM	Honeywell 2-Port Valve 22mm (Plastic Housing)	2	£ 197.04	0%	£ 197.04
TZM-I-PH-028MM	Honeywell 2-Port Valve 28mm (Plastic Housing)	2	£ 387.56	0%	£ 387.56

TABLE 2		SQT-160722 HEATPUMP	ALL PRICES EX-VAT			
ITEM NO.	DESCRIPTION	Q	LIST PRICE	LINE DISCOUNT %	DISCOUNTED PRICE	
Sub Total					£ 1,856.06	
Total					£ 7,157.10	

Heat pumps are the most efficient source of heating among all methods available on the market. At a relatively low delivered energy cost (£/kWh) its seasonal efficiency is more than four times higher than other heating system options. Heatpumps generate lower cost compared to natural gas boilers, oil boilers, wood pellet boilers, coal's stoves, LPG gas boilers, peat briquettes stoves and electric heaters.



- » Dwelling is assumed to be built or renovated to a minimum of 2016 Building regulation standards.
- » Mains Water Supply Assumed.
- » This quote includes 1 x 20L of concentrate heat pump fluid. The total required quantity should be calculated by the installer.
- » Heating expansion vessel is not included on quote and should be sized by the installer
- » Please Note a volumizer may be required in order to achieve required minimum system volume

UNDERFLOOR HEATING - INVA CLIP

- InvaClip Underfloor Heating System
- Comfortable Even Heat
- Design Layouts Included



TABLE 3		SQT-160722	UNDERFLOOR HEATING		ALL PRICES EX-VAT	
ITEM NO.	DESCRIPTION	Q	LIST PRICE	LINE DISCOUNT %	DISCOUNTED PRICE	
Floor 1						
Manifolds						
UZM-0000000-06	ufh 6 circuit manifold	1	£ 179.72	0%	£ 179.72	
UZA-000000000J	UFH actuator	6	£ 111.66	0%	£ 111.66	
UZM-U000000000	UFH Manifold Pipe Unions (16mm - Standard)	12	£ 28.20	0%	£ 28.20	
Thermostats						
UZS-PRT-00000W	PRTW digital room stat (wireless)	1	£ 96.14	0%	£ 96.14	
Pipes						
UP-M16X2-0075M	ufh pipe 16mm P/Al/P Pipe (75m)	3	£ 221.34	0%	£ 221.34	
UP-M16X2-0100M	ufh pipe 16mm P/Al/P Pipe (100m)	1	£ 98.36	0%	£ 98.36	
UP-M16X2-0200M	ufh pipe 16mm P/Al/P Pipe (200m)	1	£ 196.74	0%	£ 196.74	
Fixing Methods						
UZC-3000000060	Box of UFH Pipe Clip (60mm) - 300pcs	5	£ 129.85	0%	£ 129.85	
UP-C-000-0050M	ufh pipe conduit (50m coil)	1	£ 46.02	0%	£ 46.02	
UZI-0000000050	ufh edge strip ins (50m) - 150mm Tall	2	£ 128.62	0%	£ 128.62	
Sub Total					£ 1,236.65	
Total					£ 1,236.65	

RADIATORS

- Riva Aluminium Radiators
- EN 422 Approved
- CE Certified

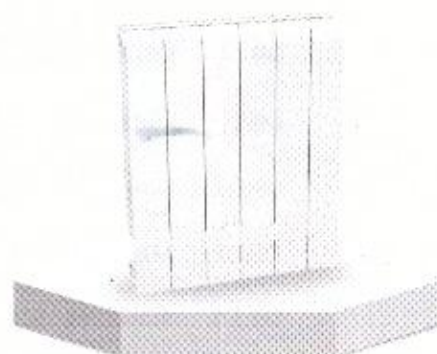


TABLE 4		SQT-160722	RADIATORS		ALL PRICES EX-VAT	
ITEM NO.	DESCRIPTION	Q	LIST PRICE	LINE DISCOUNT %	DISCOUNTED PRICE	
Floor 2						
RRL-580X80H-06	580x80mm horiz alu (RIVA) 6 section	1	£ 160.41	0%	£ 160.41	
RRL-580X80H-08	580x80mm horiz alu (RIVA) 8 section	1	£ 213.86	0%	£ 213.86	
RRL-580X80H-10	580x80mm horiz alu (RIVA) 10 section	1	£ 267.33	0%	£ 267.33	
RRL-580X80H-12	580x80mm horiz alu (RIVA) 12 section	1	£ 320.81	0%	£ 320.81	
RRL-580X80H-14	580x80mm horiz alu (RIVA) 14 section	3	£ 1,122.81	0%	£ 1,122.81	
RZB-F-0000000Z	alu rad fittings (no brkts)	7	£ 48.02	0%	£ 48.02	
RZF-B-R100580Z	ALU RAD 580 BRACKET (REV 1)	14	£ 106.12	0%	£ 106.12	
RZF-C-0000000S	ALU RAD FIXING SCREW	28	£ 7.28	0%	£ 7.28	
RZF-C-0000000W	ALU RAD FIXING FLAT WASHER	28	£ 7.28	0%	£ 7.28	
RZF-C-0000000WP	ALU RAD FIXING WALL PLUG	28	£ 7.28	0%	£ 7.28	
UZNH-000000002	UFH NEO HUB GEN 3	1	£ 253.58	0%	£ 253.58	
UZS-PRT-000000W	PRTW digital room stat (wireless)	1	£ 96.14	0%	£ 96.14	
Sub Total					£ 2,610.92	
Total					£ 2,610.92	

SOLAR

- Reduces Carbon Footprint
- Improves Home Efficiency
- Low Maintenance



TABLE 5 SQT-160722 SOLAR		ALL PRICES EX-VAT			
ITEM NO.	DESCRIPTION	Q	LIST PRICE	LINE DISCOUNT %	DISCOUNTED PRICE
SX-OR-2.0-0-02-S	2 PANEL 2M ON-ROOF SOLAR KIT - SLATE	1	£ 2,390.06	0%	£ 2,390.06
SW-OR-0000002V	On Roof Panel Vert 2m	2			
SKC-0000000002	2 Panel Clamp Kit	1			
SKN-C-000000CS2	solar controller Deltasol CS/2	1			
SVE-ALT-000024	Solar Expansion Vessel 24Ltr	1			
SZ-L-0D-0ERP5B	solar PUMPSTATION DUAL ERP 5m (GFOS)	1			
SKU-0000000020	20L pre-mixed solar fluid	1			
SW-00000000-P2	Aluminium Roof Profile 2m	1			
SKRP-5-0000002	2 Panel Roof Mounting Kit Slate	1			
SNW-0Y-0000000	JOULE NAVITAS INSTALL MANUAL	1			
OZM-00000.75HP	thermo mixing valve 3/4" ESBE	1			
SZ-G-0G-000004	solar pipe entry gasket set 4"	1			
SKT-0000000000	solar SS insulated tail 0.75m	2			
SZF-15-000-CAP	solar 1/2" blank cap	1			
SZF-22-000-CAP	solar 3/4" blank cap (female)	1			
SZF-22-000CAPM	solar 3/4" MALE blank cap	1			
SZ-R-000022X15	Solar reducing bush 22 x 15	1			
Sub Total					£ 2,390.06
Optional Extras					
SVS-0000000000	SOLAR EXP VESSEL CONNECT SET	1	£ 74.39	0%	£ 74.39
SVB-000000000P	Solar Discharge - Plastic	1	£ 119.16	0%	£ 119.16
SZ-J-0000DN-16	solar fitting joiner pack DN16	1	£ 32.46	0%	£ 32.46
SPD-16-50-0000	DN16 50M SOL SS PIPE DUO INS	1	£ 706.80	0%	£ 706.80
Sub Total					£ 932.81

TABLE 5		SQT-160722	SOLAR	ALL PRICES EX-VAT		
ITEM NO.	DESCRIPTION		Q	LIST PRICE	LINE DISCOUNT %	DISCOUNTED PRICE
Total						£ 3,322.87

TABLE 6		HEATING SYSTEM ZONES	
HEATING ZONE NO.	ZONE DESCRIPTION		SCHEMATICS
1	Floor 1 - Manifold 1		Samsung - 1 Zone UFH & 1 Zone Radiator
2	Floor 2 - Radiators		Click here to view Mechanical & Electrical Schematics

TABLE 7		UNDERFLOOR SPECIFICATION					
ROOM NAME	FLOOR	MANIFOLD NAME	MANIFOLD POSITION	CIRCUIT LENGTH (m)	FIXING SYSTEM	PIPE CENTERS (mm)	THERMOSTAT ZONE GROUP
Kitchen/Dining/Family area	Floor 1	Manifold 1	CP'D	78 (x3)	Inva Clip	150	1
Living Room	Floor 1	Manifold 1	CP'D	73 (x2)	Inva Clip	150	1
Entrance Hall , WC	Floor 1	Manifold 1	CP'D	53	Inva Clip	150	1

TABLE 8		RADIATOR SPECIFICATION								
ROOM NAME	FLOOR	HEATLOSS (W)	RADIATOR OUTPUT (W)	ΔT (°C)	FLOW TEMP (°C)	DIMENSIONS (mm)				ITEM NO.
						H	L	D	PC	
Hall Landing	Floor 2	508	611.78	24.5	45	580	1,120	80	1,220	RRL-580X80H-14
Bedroom1	Floor 2	404	524.38	24.5	45	580	960	80	1,060	RRL-580X80H-12
Bedroom2	Floor 2	480	611.78	24.5	45	580	1,120	80	1,220	RRL-580X80H-14
Bedroom3	Floor 2	516	611.78	24.5	45	580	1,120	80	1,220	RRL-580X80H-14
Bedroom4	Floor 2	376	436.98	24.5	45	580	800	80	900	RRL-580X80H-10
Bathroom	Floor 2	236.5	275.99	20.5	45	580	640	80	740	RRL-580X80H-08
ES2	Floor 2	181.5	206.99	20.5	45	580	480	80	580	RRL-580X80H-06



Design External Air Temp: -2 °C

TABLE 9 - MIN U-VALUES

ROOM NAME	U VALUES (W/m ² .K)
External Windows	1.4
External Doors	1.4
External Floors	0.18
External Walls	0.18
External Ceilings	0.16
Party Windows	1.4
Party Doors	1.4
Party Floors	0.18
Party Walls	0.18
Party Ceilings	0.16

TABLE 10 - ROOM DESIGN PARAMETERS

ROOM NAME	CONNECTED ROOM	FLOOR	AREA (m ²)	HEAT LOSS (W)	HEAT LOSS (W/m ²)	AIR CHANGE RATE	INTERNAL AIR TEMP
Kitchen/Dining/Family area	No	1	34.5	1,725	50	1.5	21
Living Room	No	1	18.3	823.5	45	0.5	21
Entrance Hall	Yes	1	8.2	328	40	0.5	18
WC	Yes	1	1.5	75	50	1.5	18
Sub Total			62.5	2,951.5	47.22		
Hall Landing	No	2	12.7	508	40	0.5	18
Bedroom1	No	2	10.1	404	40	0.5	18
Bedroom2	No	2	12	480	40	0.5	18
Bedroom3	No	2	12.9	516	40	0.5	18
Bedroom4	No	2	9.4	376	40	0.5	18
Bathroom	No	2	4.3	236.5	55	1.5	22
ES2	No	2	3.3	181.5	55	1.5	22
Sub Total			64.7	2,702	41.76		
Total			127.2	5,653.5	44.45		

This Quote is subject to Joule Hot Water Systems UK Limited's ("Joule") standard terms and conditions of sale Ref: Rev1 April 2024 (the "Conditions"), a copy of which can be accessed at <https://jouleuk.co.uk/returns-policy-customer-terms-conditions> and/or is available upon request.

Should you wish to proceed, our team of professional engineers will provide comprehensive mechanical and electrical schematics for your project as well as full technical support for your chosen installer during the installation process. Certification for our products and system design is also available on request. Joule have competent engineers at the ready in the form of back up technical phone support and on-site support for any warranty call outs relating to our products.