

The Breacan Mooney
Geothermal
Installation of the Year 2016 Competition
Mountcharles, Co. Donegal

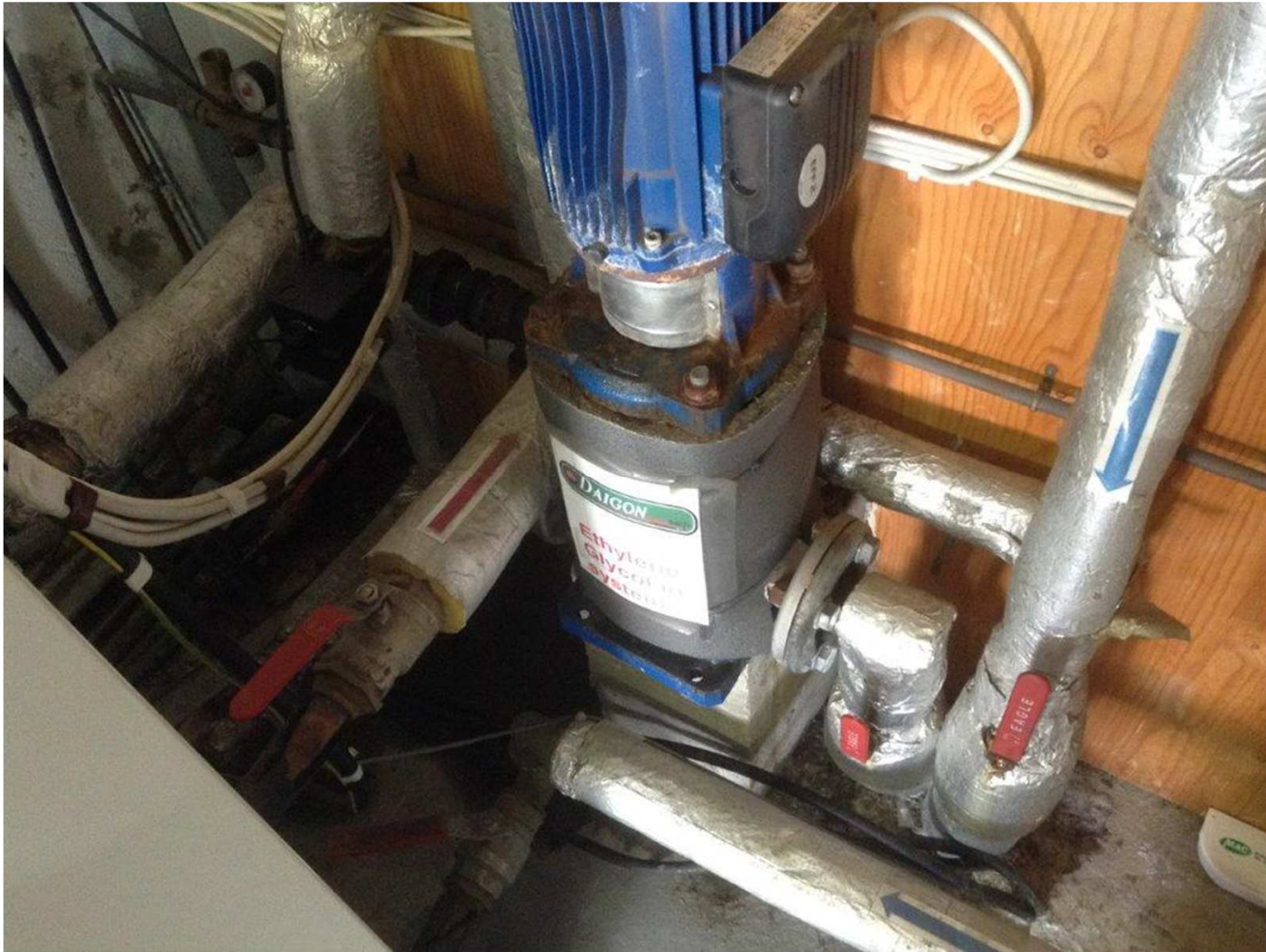
Adjudicated by John Burgess

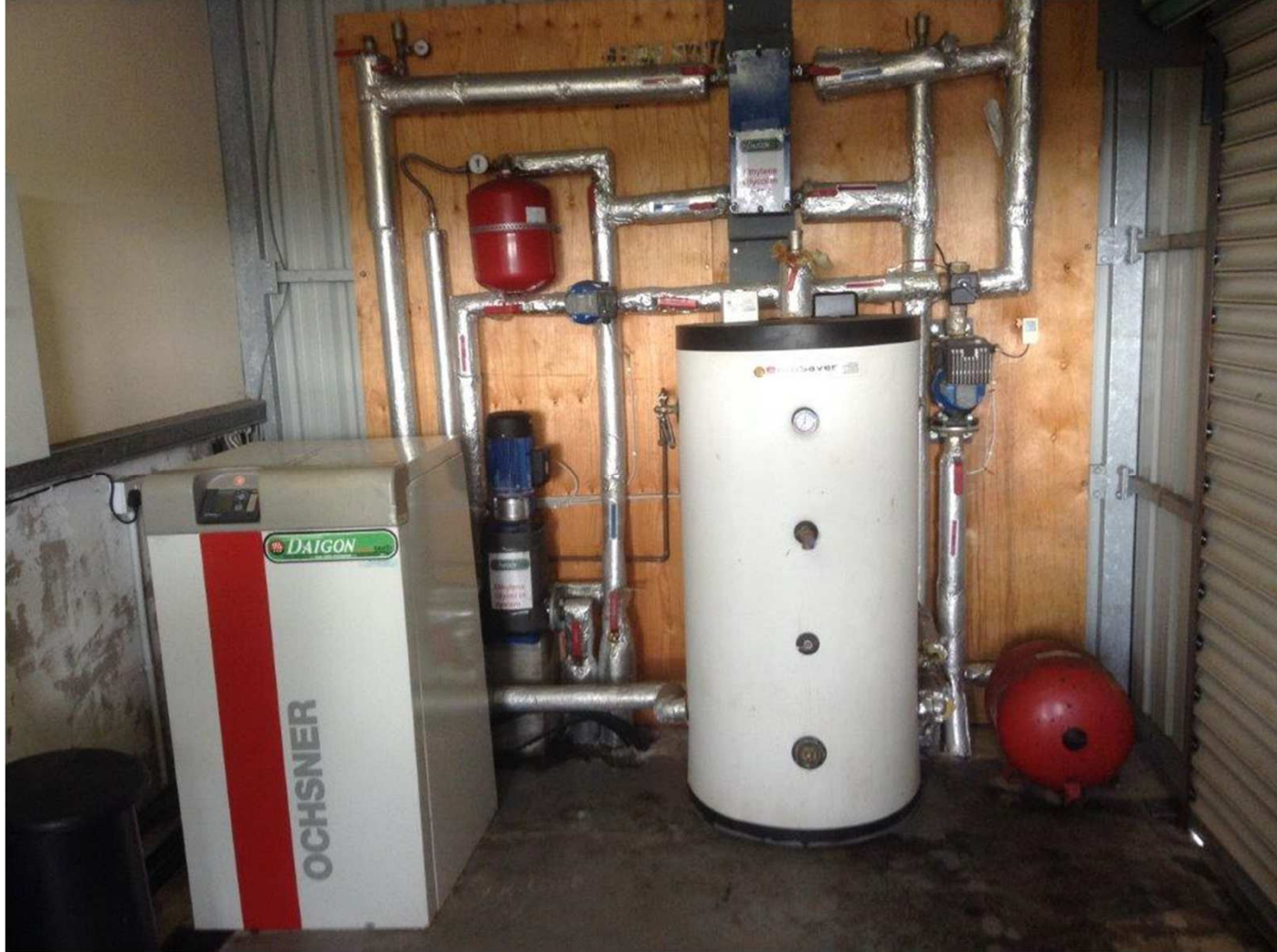
11th March 2016













OCHSNER WÄRMEPUMPEN

A 3350 Stadt Haag, Ochsner-Straße 1, (07434) 42 451-0

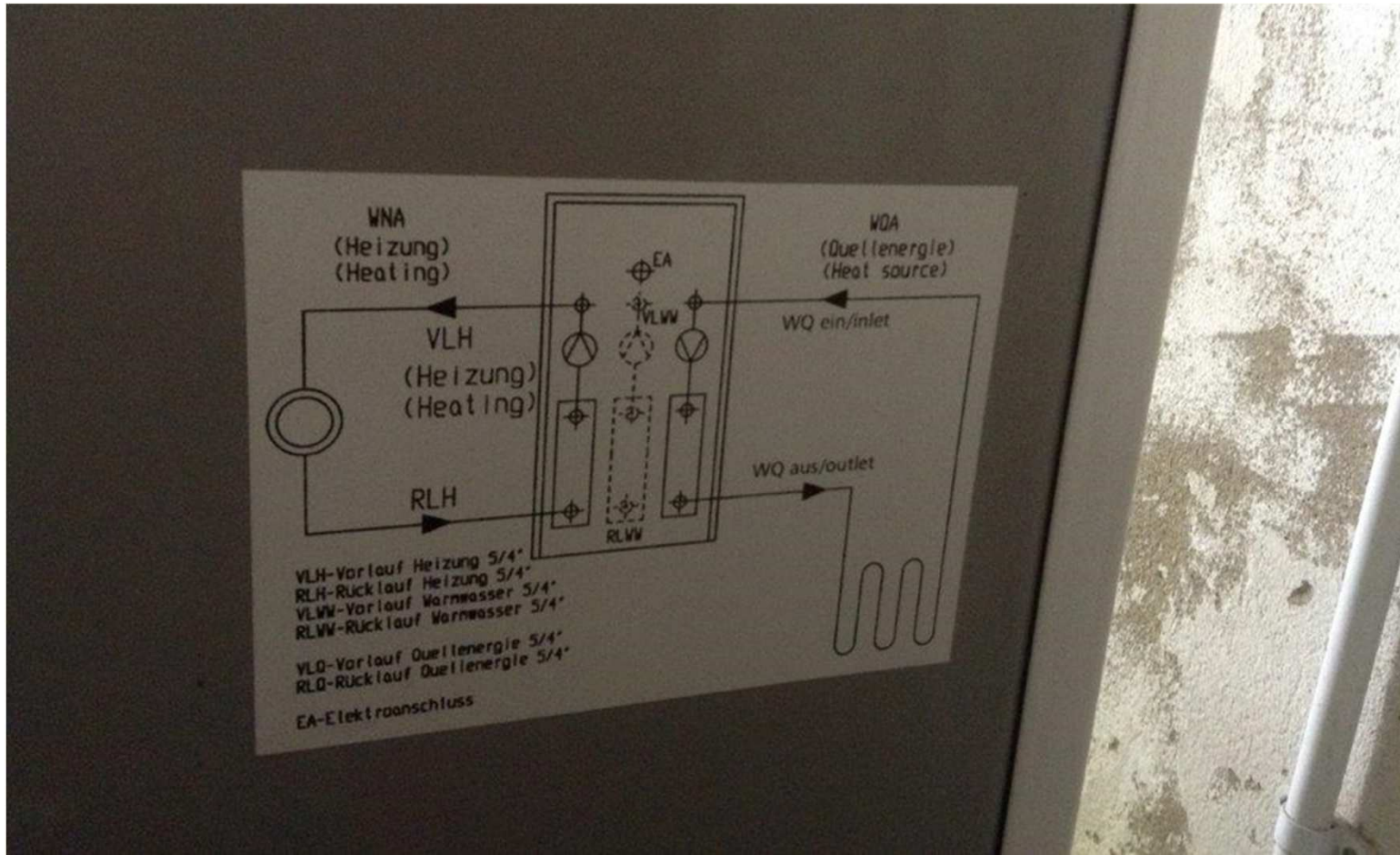
Heat Pump Type GMSW 38
Serial Number 508201096

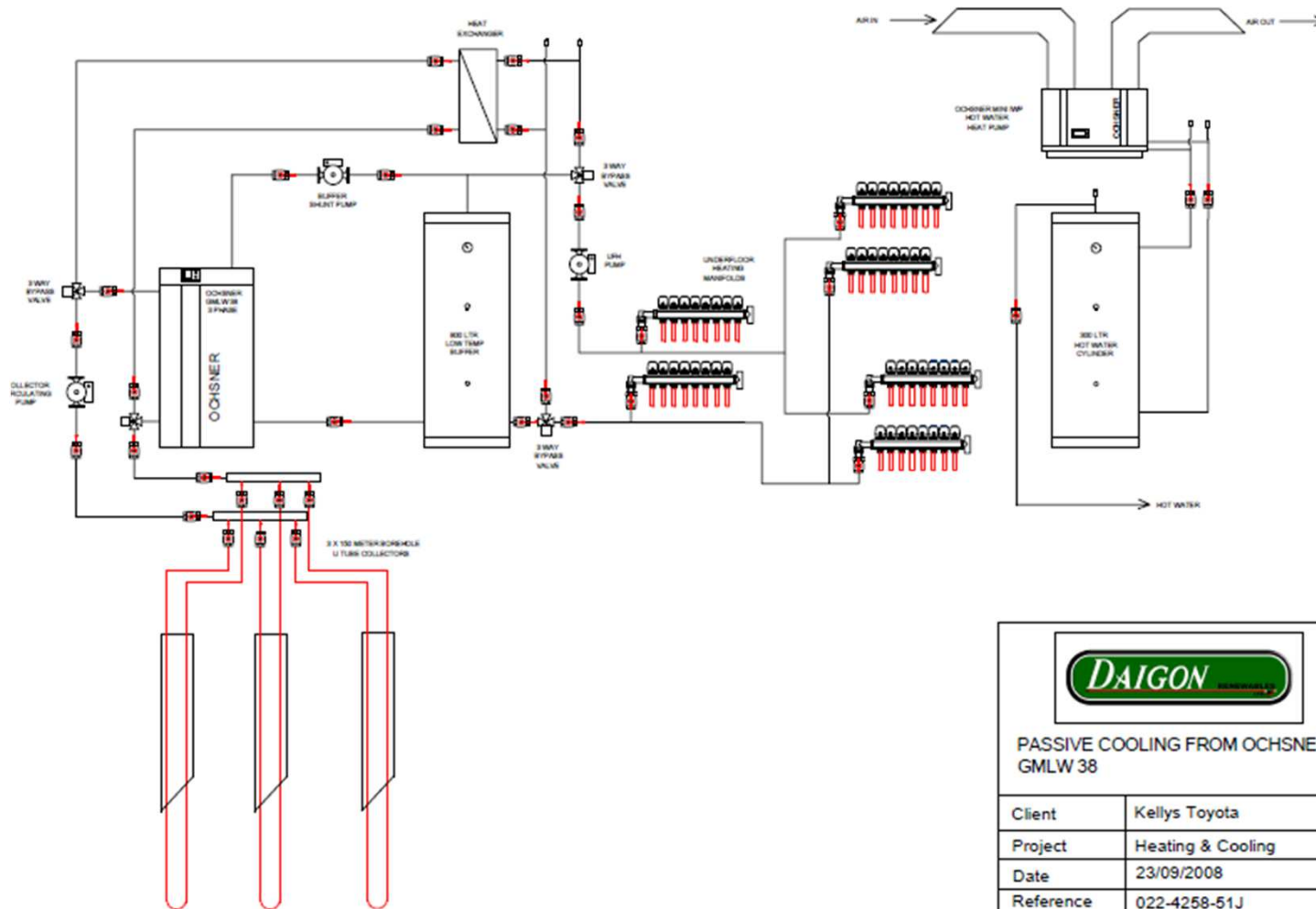



Refrigerant R407C	3,4 kg
Nominal Voltage 400V 3/N/PE 50 Hz	
Heating Capacity	28,8 kW
Power Consumption	6,4 kW
Coefficient of Performance	4,5
Drawn Current/ Power Factor	13,5A/0,68 cos
Performance Data at	S0/W35
Max. Operating Current	22 A
Starting Current without limitation	90 A
Starting Current with limitation	45 A
Operating Range Evaporator	-5/+15 °C
Max. Operating Pressure (brine)	max. 6 bar
Operating Range Condenser	55 °C
Max. Operating Pressure (water)	max. 6 bar

PLEASE NOTE THE OPERATION MANUEL!



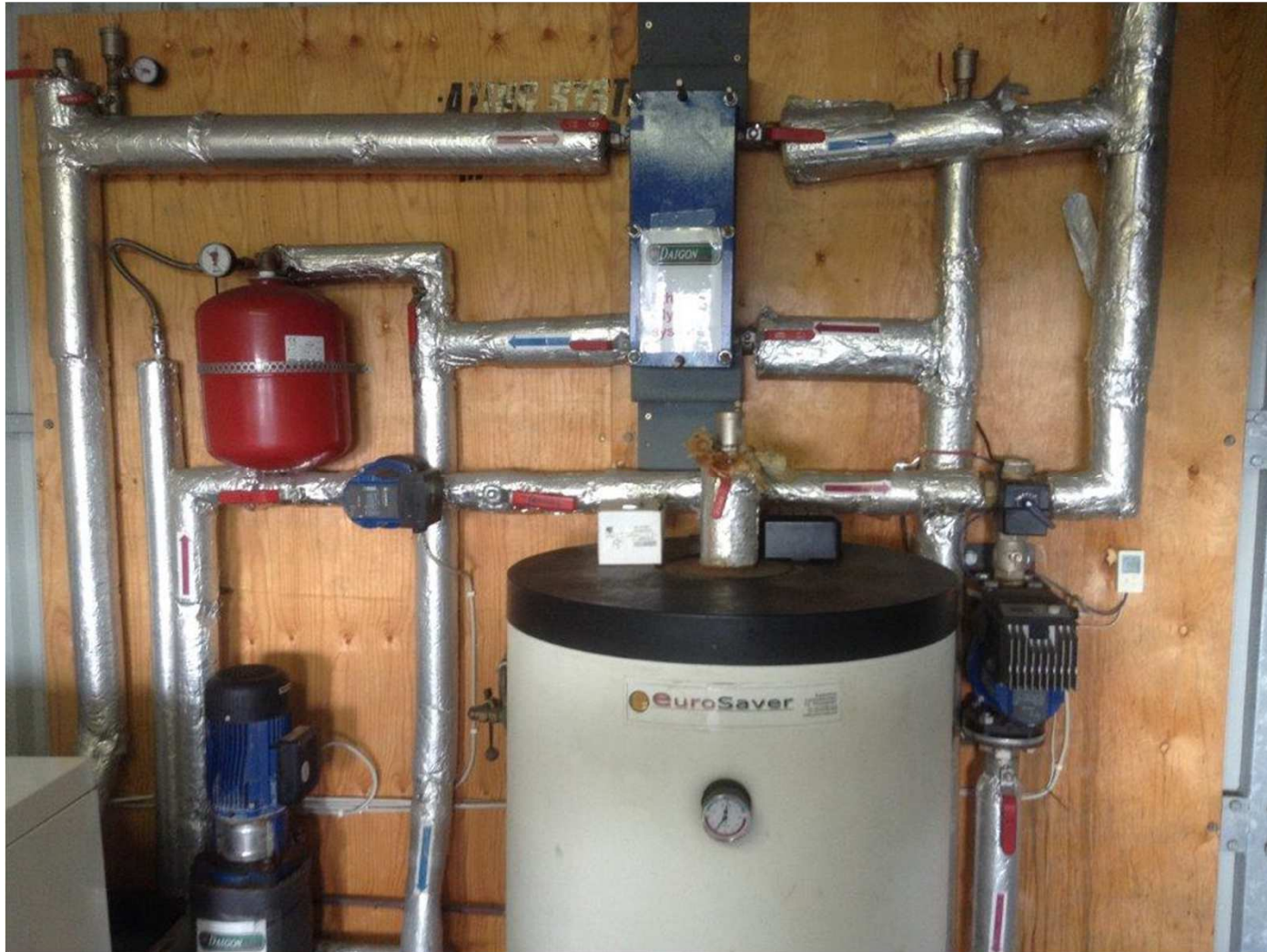


PASSIVE COOLING FROM OCHSNER GMLW 38

Client	Kellys Toyota
Project	Heating & Cooling
Date	23/09/2008
Reference	022-4258-51J
Drawn By	Neil Mc Daid































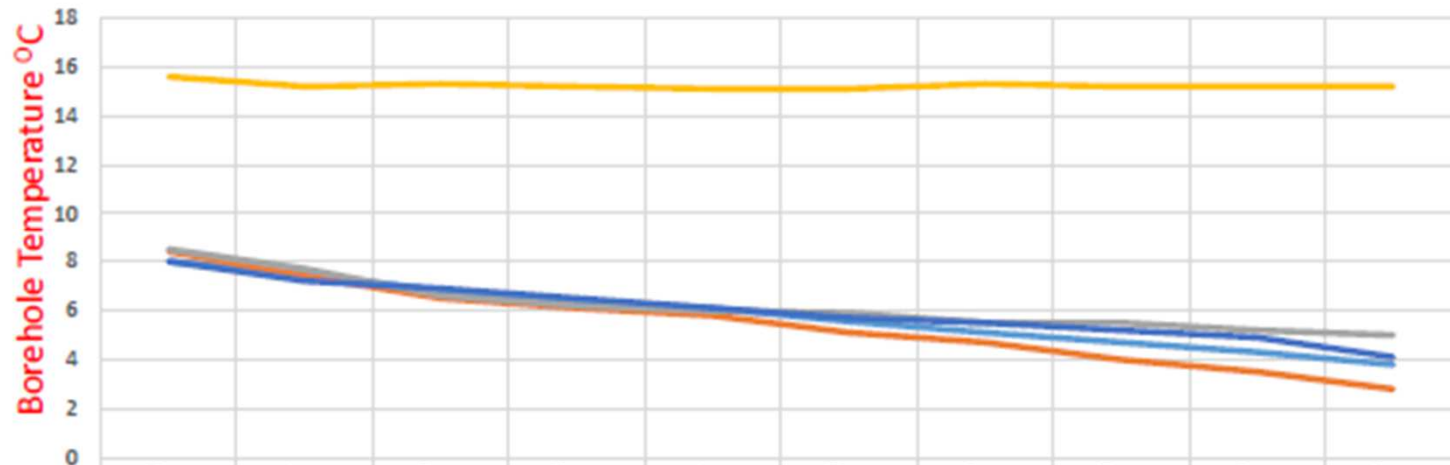


The Geothermal Association of Ireland
Ground Source Heat Pumps and Deep Geothermal Energy

Mountcharles



Geothermal Borehole Collector



	12am	1am	2am	3am	4am	5am	6am	7am	8am	9am
Oct	8	7.5	6.8	6.4	6.1	5.55	5.1	4.7	4.3	3.8
Jan	8.4	7.4	6.5	6.1	5.8	5.1	4.7	4	3.5	2.8
April	8.5	7.7	6.6	6.2	6	5.9	5.5	5.5	5.2	5
July	15.6	15.2	15.3	15.2	15.1	15.1	15.3	15.2	15.2	15.2
Oct2	8	7.2	6.9	6.5	6.1	5.7	5.5	5.2	4.9	4.1

Performance data of borehole collector recording a full year of data in Kellys Toyota from October 2010 to October 2011. Note the high temperature of the boreholes in July – this is due to the passive cooling of the Showroom that is being transferred to the collector.

The data shown is for night time use only and does not take into account day time use of the system.