

Wonder Years Childcare  
Rossbrack, Manorcunningham  
Co. Donegal

Owners – Vincent & Marcella McNamee

Installer - Noel McGonigle & Neil McDaid – Diagon  
Heating

# Owner's Feedback

The owner's have repeatedly remarked at the ease of operating their system. They have noted that the heat level in the Crèche is constantly comfortable. They no longer have to arrive at the crèche an hour before opening to ensure that the rooms are warm enough. This reliability is due to the operation of the controls system which calls on the UFH to start so that the room is at the desired temperature at the time set on the programme while always having the benefit of preheated screed from the heat pump as a cost reduction measure, a facility not possible using oil as the running cost is prohibitive. They said that the crèche has greatly benefited from the ability of the EuroSmart to shut off in advance of closing so that heat is not wasted when they have already left the building this also adds to the reduction in running costs of the heat pump, by stopping any loading of the screed early in the day allowing for greater energy production possibilities at off peak times. The McNamee's noted that since the commissioning and programming of the new system there have been no adjustments necessary other than turning off the system over the summer holidays.

The owners can only compliment the system and suggest that a similar system should be installed in every childcare facility to allow more focus on the children requirements. They remarked that the Ochsner geothermal system requires little to no effort and that coupled with the EuroSmart Control system means that they can always rely on the crèche being at a constant temperature. They have also noted that their savings are approx. €12,000 per annum, which really helped the business pull through the economic turndown.









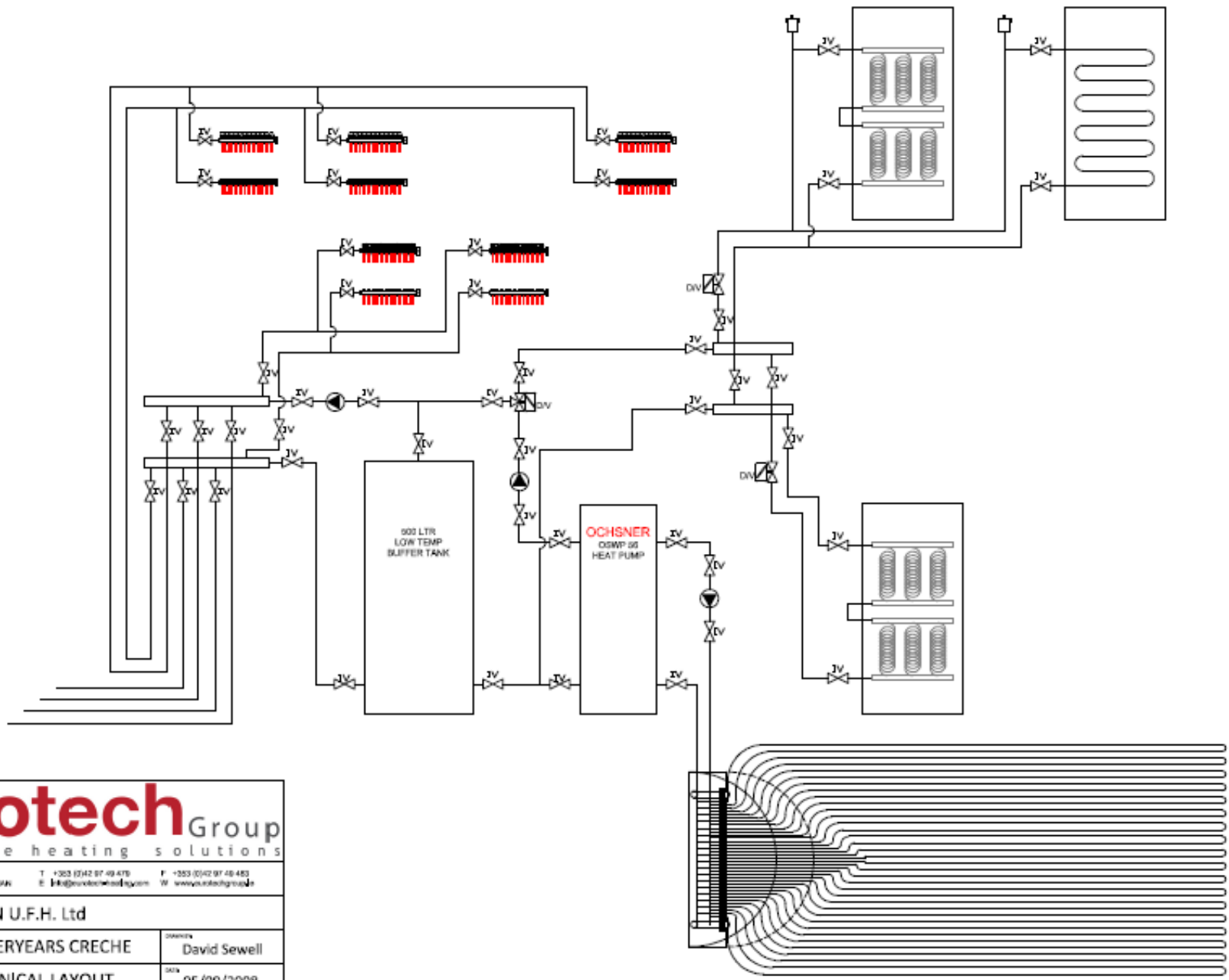












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CLIENT	DAIGON U.F.H. Ltd	
PROJECT	WONDERYEARS CRECHE	DESIGNER David Sewell
CONTRACT TYPE	MECHANICAL LAYOUT	DATE 05/09/2008

18 LOOP GROUND COLLECTOR







# Summary of relevant stats

Heated Area – 1,024m<sup>2</sup>

Ground loop area – 2,160m<sup>2</sup>

Flow rate – 1.9l/s

Water Temperatures Winter 8/5<sup>o</sup>C Summer 14/11<sup>o</sup>C

Size of heatpump – 43.6kW

Hours of operation – 1,872 hours/year

Energy Savings - €11,678 excl VAT

Carbon Dioxide Savings – 20.76 tonnes / year

Simple Payback – 4 years 2 months

Improved level of comfort for children and staff

*The Geothermal Association of Ireland presents the winner of the 2013*

# **Brecan Mooney Award**

*for excellence in Geothermal Energy Transfer Systems in the category  
of Closed Loop, Smaller than 100kW thermal capacity, to*

*Wonder Years Childcare*

*Manorcunningham, Co. Donegal*

*Presented on Wednesday 13<sup>th</sup> November 2013, for an*

*energy efficient, high quality geothermal heating system  
completed in November 2011 which succeeds in providing a  
controlled, stable & comfortable indoor environment with  
low associated energy, cost & CO<sub>2</sub> emissions.*

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John Burgess - Chair of the GAI

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Robin Curtis - Geoscience Ltd. Independent Adjudicator from UK