

PROJECT: ST CLERANS HOUSE, CRAUGHWELL, CO. GALWAY



System Specification

Fröling T4 90kW Woodchip System

- 4.5m spring blade agitator system.
- Single phase to three phase inverter system

Heating System Integration

- 1500l buffer tank with low loss thermal insulation
- 120m of pre-insulated pipe work from boiler room to main house
- Integration with retained - existing heat pump system via flat plate heat exchanger
- Heat pumps to be utilised to provide DHW during summer months
- Remove existing open vented low efficiency wood burner
- Heat meter for verified heat delivery and accurate system efficiency

Fuel

Woodchip sourced and chipped on the grounds of the estate

Fuel Consumption

60 Tonnes per annum

Self-Sustainability

The ample forests on the estate are thinned annually. Timber is stacked and left to dry before chipping into both the fuel store and storage area in the purpose built shed.

Financial Saving

Support Scheme for Renewable Heat

An estate with a similar heat profile would expect to receive annual payments of approx. €11,000 per annum for 15 years under the support scheme.

Projected payback on capital expenditure for full turnkey system 4-5 years.

Boiler

Fröling T4 90kW woodchip system complete with premium-quality high-temperature combustion chamber with firebrick lining for minimum emissions and optimal combustion.

The Fröling T4 boiler offer modulating power outputs from 27kW to 90kW while maintaining high efficiency combustion above 90%. Touch screen controller and free access to system via Smartphone, tablet, laptop, etc...

Fuel feed system

The system consists of spring agitator system and feed auger complete with rotary ball fire safety system

Services Rendered

- Design
- Installation
- Commissioning
- Customer free remote access via any web browser
- Service support via free online web browser

About the Client

First known as Issercleran, St Cleran's was built around 1784 by the burke family.

Since it's construction the estate has had a number of high profile owners, including film director John Huston, and subsequently US chat show host Merv Griffin, in 2012.

The house which sits on 44 acres has 11 bedrooms, over the years the house has seen many upgrades and is now heated from sustainable forestry gathered from the estate.