

Residential Heating

ecodan[®]
Renewable Heating Technology



Residential Heating & Ventilation Heating Controls

Presented by

William Boston & Simon Watts

Your presenters today



Simon Watts
Specification Sales Manager
Residential Heating & Ventilation Systems



William Boston
Pre Sales Technical Engineer
Residential Heating & Ventilation Systems



Audio

Attendees will be in listen only mode to ensure the best experience for all



Questions

We welcome these & ask that your questions be submitted for the Q&A session



Recording

We are recording this session to enable access at your convenience

Heating Controls

Agenda

- Main Controller features & benefits
- MELCloud
- MELConsole
- Alexa
- New features
- Q&A



heating@meuk.mee.com

Introduction

- 100 years of experience
- Leading the way with innovation
- Focused on quality



Control & accessory solutions

Intelligent range of controls and accessories to suit all applications

Integrated



Main RC Flow
Temp.
Controller
(standard)

Wireless



Zone Temp.
Controller
(option)

MELCloud



Cloud System
Controller
(standard)

Standalone



FTC6 or
FTC2BR
Controller
(option)

Alexa



Smart Controls

FTC6 Controls & Features

Available with all PUZ R32 Ecodan units

5.0kW

6.0kW

8.5kW

11.2kW

14.0kW¹



Compact

Ultra Quiet

Ultra Quiet

Ultra Quiet

Zubadan

R32

R32

R32

R32

R32

¹ Both 1 & 3 phase variants are available

Intelligent Controls for Heating

- Auto Adaption – Improved self learning compensation curve. Avoids over heating and wasting energy
- Weather compensation – Match flow temperature to external temperature
- Fixed flow temperature – Useful for commissioning



Intelligent Controls Hot Water

- Normal/Eco – Extra fast or extra efficient heat up options
- Legionella Prevention – to meet regulation requirements
- Extra temperature sensor on pre plumbed cylinders – only heat as much water as required



Intelligent Controls Additional Features

- Data Monitoring – log energy supply and demand
- RHI Compliant Metering – allows access to government grants
- Cascade Logic – Multiple similar units controlled as one for larger heat loss requirements
- Hybrid Logic – Ecodan and another heat source, such as fossil fuel boiler working together

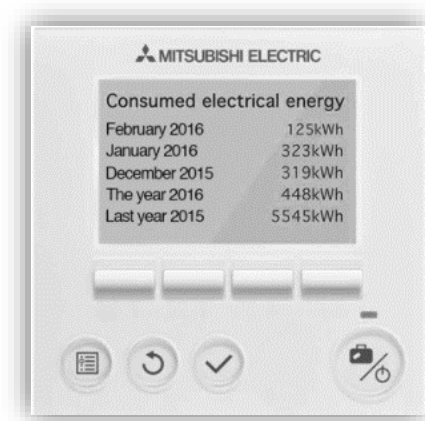


Energy Metering & Monitoring

- Time & Date
- Operation mode
- Flow temp & Return temp
- Tank temp
- Flow rate (Primary Circuit)
- Data collection

	THW1	THW2	THW5	Flow
10:00 ☀	41°C	38°C	54°C	20L
9:55 ☀	38°C	38°C	54°C	20L
9:50 ☀	48°C	48°C	54°C	20L
9:45 🚗	60°C	56°C	54°C	15L
9:40 🚗	59°C	55°C	52°C	15L

████████████████████ (1/5)



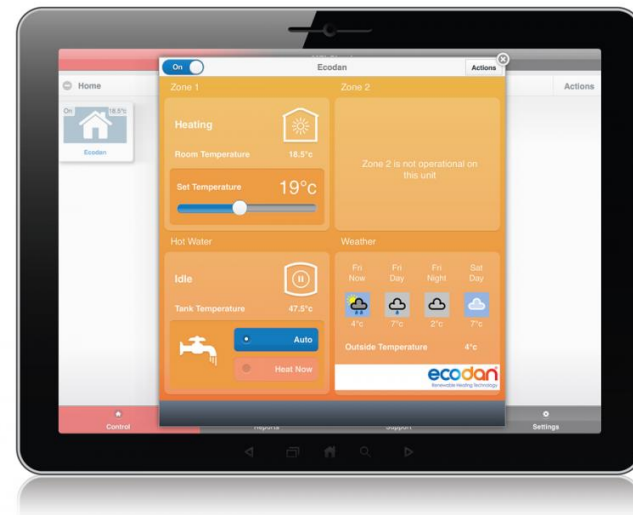
POLL QUESTION

- Were you aware of the extra funding available for metering and monitoring from the RHI

MELCloud



- Complete Control in the palm of your hand
- Holiday Mode
- Energy & Running cost reports
- Makes energy saving simple



Serious about Sustainability Podcast

Explore renewable heating solutions from the perspective of:

- Homeowners
- Self builders
- Contractors
- Housing associations



Alexa

- Control your heating and hot water with your voice!
- Simple to connect
- Easy to use



MELConsole

Follow these 3 easy steps to enjoy

Total peace of mind with smart control

1: Activate



Register now to activate your Mitsubishi Electric **Homeowner Guarantee**

and enjoy total peace of mind from the protection this **FREE** cover offers.

Activate today



2: Connect



Easily pair your Ecodan to the internet via its wi-fi adaptor, **download the MELCloud app** and enjoy **remote control & monitoring** of your Ecodan at home or on the move from your smartphone, tablet or PC.

MELCloud

Available on the App Store | Available on Google Play | Windows Store



3: Benefit



Once connected, you can also enjoy the benefits of **MELConsole** which provides **remote maintenance & technical support** reducing the need of a visit from an engineer.

MELConsole
Remote Maintenance & Technical Support

24/7 Technical Support



To activate, scan the QR Code or call: **0161 866 6064**
8am-5pm Mon-Fri (ex. Bank Holidays)



To find out how to connect, scan the QR Code or visit: **melcloud.com**



To find out more, scan the QR Code or call the Ecodan Helpdesk: **0161 866 6064**

MELConsole

- Fix heating issues with just one call
- Reduce engineers time on the road (Saving Money, time and carbon)
- Reduce number of return visits
- 24/7 Technical support - Total peace of mind



POLL QUESTION

- How much of an impact would these smart controls have on you if they were installed in your own home?

FTC6 - New Features

Making it fast simple and consistent



Setup Wizard	Quiet Mode	Quiet Mode
<p>Guides and prompts the user. Provides a step by step process for setting up the complete system</p>	<p>Commissioning engineers are now able to set the quiet mode from the main remote controller</p>	<p>Advanced controls allow homeowners to take advantage of flexible tariffs and external heating commands</p>

FTC6 New Features – Setup Wizard

- Quick & Time saving
- Accessible & logical
- Repeatable



FTC6 New Features – Quiet Mode

- Very quiet starting noise levels
- Intensity reduced by half using
- Quiet Mode – sound travels less
- Timer controlled

Model	Rated	
	PWL	PWL
WM50	61	57
WM60	58	55
WM85	58	55
WM112	60	57
HWM14	67	-

dB Level	Examples	Permitted Exposure (Hours per Day)
10	Breathing	
20	Whisper	
30	Library	
50	Quiet Office	
60	Conversational Speech, Electric shaver	
65	Piano Practice	
70	Noisy Restaurant	
75	Alarm Clock	
80	Vacuum Cleaner	
85	Garbage Disposal / Busy Hotel Lobby	
90	Tractor / Subway	8
100	Blender, Factory Noise	2
105	Motorcycle, Orchestra	1
110	Power Saw, Heavy Truck, Power Mower	0.5
115	Uncomfortable Feeling Starts	0.25
120	Disco / Loud Bar Music / Shotgun	0
130	Cymbal Crash, Air Raid Siren	0
140	Rock Concert Front Row / Jet	0
150	Chest begins to vibrate	0
160	Eardrum bursts	0
190	Loudest Possible Sound	0

PWL = Sound Power Level (dBA) / Cap. Capacity (kW)

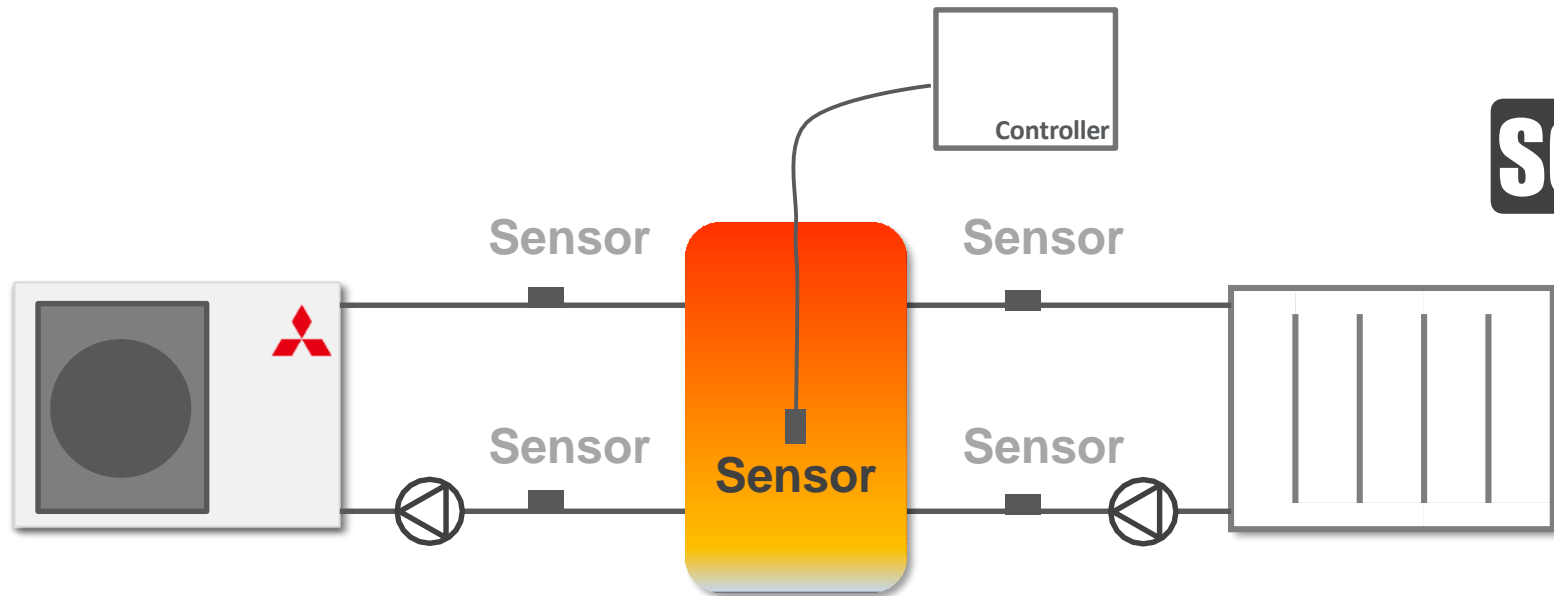
FTC6 New Features - Smart Grid

- 2 Volt Free Contacts
- Switch The System On/Off
- Set An Increased Temperature To Make The Most Of Available Energy

SG



FTC6 New Features – Buffer Vessel



- Extra sensors over buffer vessel
- Can be used to store heat
- Won't use Ecodan if there is heat in the buffer

POLL QUESTION

- How important do you think smart controls will be to the success of the uptake of heat pumps?

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Mitsubishi Electric Heating UK



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[Ecodan.co.uk](https://www.ecodan.co.uk)

POLL QUESTION

- How useful have you found this webinar?

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Q&A Session



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Thank You

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