



## Mobile metering, monitoring and control of Mitsubishi Electric Ecodan systems

All Ecodan Flow Temperature Control 5 (FTC5) systems come with free energy monitoring as standard. System users are able to measure both consumed electrical energy and produced heat energy to the nearest kWh. Further energy monitoring packs are also available, ranging from electric meter packs, through to a Renewable Heat Incentive (RHI) compliant Metering and Monitoring Service Pack (MMSM) which allows additional RHI payments to be claimed.

In addition to the basic system functionality features, i.e. hot water and heating status, with FTC5 the systems energy performance can also now be viewed. Historic energy consumption, heat production and run cost reports are available via the main controller, SD card or MELCloud.

Full remote control of system features, such as hot water and heating functions, frost protection, holiday mode and the 7 day schedule are also available from anywhere in the world via MELCloud.



Air Conditioning | Heating  
Ventilation | Controls



## Energy Monitoring Packs

Mitsubishi Electric have developed Energy Monitoring Packs to suit every domestic application, from hybrid through to full **RHI Metering and Monitoring Service Packs**, we have a pack to suit. Together with MELCloud we offer market leading metering, monitoring and control.

	Pack Code	Contents	Resolution / Application
Energy Monitoring Pack One	EMP1	Free inbuilt energy monitoring	Calculated estimate of nearest kilowatt hour (kWh). This pack is ideal for end user guidance.
Energy Monitoring Pack Two	EMP2	2 x Measuring Instrument Directive (MID) approved electric meters	Records and measures to 1 pulse per watt hour (Wh) ensuring accurate energy consumption figures. This pack is ideal for users wanting exact energy consumption, e.g. Housing Associations.
Energy Monitoring Pack Three - Monobloc	EMP3-M	2 x MID approved electric meters. 1 x MID approved heat meter	Records and measures to 1 pulse per watt hour (Wh) for both electricity consumed and heat produced. This pack is RHI MMSP compliant, which allows additional RHI payments to be claimed.
Energy Monitoring Pack Three - Split (Hydrobox only)	EMP3-S	2 x MID approved electric meters. 1 x MID approved heat meter	Records and measures to 1 pulse per watt hour (Wh) for both electricity consumed and heat produced. This pack is RHI MMSP compliant, which allows additional RHI payments to be claimed.
Energy Monitoring Pack - Hybrid-Monobloc	EMPH-M	1 x MID approved heat meter	Records and measures to 1 pulse per kilowatt hour (kWh). This pack is for hybrid systems requiring metering to comply with the RHI.
Energy Monitoring Pack - Hybrid-Split (Hydrobox only)	EMPH-S	1 x MID approved heat meter	Records and measures to 1 pulse per kilowatt hour (kWh). This pack is for hybrid systems requiring metering to comply with the RHI.

## Energy Monitoring Packs Summary

Included	EMP1	EMP2	EMP3-M	EMP3-S	EMPH-M	EMPH-S
User display of consumed / produced energy	Yes	Yes	Yes	Yes	Yes	Yes
2 x Electric Meters	No	Yes	Yes	Yes	No	No
Heat Meter - 1 pulse per Wh	No	No	Yes	Yes	No	No
Heat Meter - 1 pulse per kWh	No	No	No	No	Yes	Yes
Wi-Fi Interface	No	Optional	Yes	Yes	Optional	Optional
MMSP compliant	No	No	Yes	Yes	No	No

## EMP3 RHI Metering and Monitoring Service Pack (MMSP)

As part of the Domestic Renewable Heat Incentive (RHI), the Department of Energy and Climate Change (DECC) have financially incentivised consumers to fit optional metering and monitoring service packages.

A payment of £230 per annum for the 7 year length of the RHI will be paid to the equipment owner. MMSP can be retrospectively fitted and payments made on the remainder of the RHI term. The metering requirements laid down by DECC are very specific and require detailed heat and electric metering to a resolution of one pulse per watt hour.



## Introducing MELCloud for Ecodan



MELCloud is a Cloud based solution for controlling your Mitsubishi Electric Ecodan heating system either locally or remotely by PC, Mac, Tablet or Smartphone via the Internet.

### Key Features

- View electrical energy consumed and heat energy produced
- View and control your heating and hot water from anywhere in the world
- Holiday mode
- Set up of 7 day weekly schedule
- Temperature history reports
- Operation mode reports
- Live weather feed at location of Ecodan
- Compatible with Apple, Android, Windows and Blackberry operating systems
- Works on any PC / Mac / Tablet / Smartphone
- Share / restrict access and control of the Ecodan system



## MELCloud Wi-Fi Interface



### Supported Ecodan Models

All **Ecodan FTC5** systems have energy monitoring functionality and the ability to connect to MELCloud. A PAC-WF010-E Wi-Fi Interface is required to use MELCloud.

PAC-WF010-E Wi-Fi Interface		
DESCRIPTION		Wi-Fi Interface
CONNECT TO		Indoor Unit
MAX NUMBER OF UNITS		1
COMPATIBILITY		Ecodan FTC5
POWER SUPPLY		From indoor unit
DIMENSIONS (WxDxH) mm		88 x 18.5 x 49
CONTROL	On/Off	✓
	Mode	✓
	Heating Setpoint	✓
	Hot Water Boost	✓
	2-Zone Control	✓
	Holiday Mode	✓
	Timer	✓
	Frost Protection	✓
MONITOR	On/Off	✓
	Mode	✓
	Heating Setpoint	✓
	Tank Temperature	✓
	Tank Target Temperature	✓
	Outside Temperature	✓
	Fault Codes	✓
	Consumed Electrical Energy	✓ (not EMP1)
	Produced Heat Energy	✓ (not EMP1)

### Supported Hardware / Software

#### Tablets (Apps or WebClient)

Apple iPad / iPad mini  
Samsung Galaxy Tab / Note  
Google Nexus  
Dell Latitude 10  
Microsoft Surface  
BlackBerry PlayBook

#### Smartphones (Apps or WebClient)

Apple iPhone  
Samsung Galaxy S  
Google Nexus  
Nokia Lumia  
BlackBerry Z10

#### Operating Systems

Android  
Apple iOS / OS  
Microsoft Windows  
BlackBerry

#### Internet Browsers (WebClient only)

Microsoft Internet Explorer  
Google Chrome  
Apple Safari  
Mozilla Firefox  
Opera

#### Please Note:

This is not definitive list of all compatible devices, other similar devices which use supported Operating Systems or Internet Browsers should also work either via dedicated Apps or via Web Browser / WebClient options. Please note that user experience may vary slightly depending on hardware and software combination.



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Printed in January 2015 SAP No. 282700



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