

## Case Study

# Air conditioning offers family year-round comfort



When Cloda Egan was looking to add an extension and loft conversion to her family home in Huddersfield, she had no idea just how beneficial an air conditioning system would be... and how useful it would become for heating her house!



Cloda and her partner Tom and two daughters have lived in the home for about seven years, and they decided to build an extension and convert the loft into an additional bedroom.



When designing the kitchen and diner extension, they initially planned to include a radiator to supplement the underfloor heating but that would have taken up valuable wall space, so they decided to look at an air conditioning unit instead.

At the same time the couple also decided to install an air conditioning unit in the loft extension as it gets very hot in summer and very cold in winter.

“Most people don’t realise that air conditioning can heat as well as cool, but it’s perfect for the loft conversion and makes it comfortable for my daughter all year round,” explained Cloda.

“We tend to use the kitchen unit more in winter when it can be used to boost the heating when we arrive home in the evening,” adds Cloda explaining that recently when the gas boiler broke down, the air conditioning proved invaluable.

“Unfortunately, we woke up in the morning and the boiler had failed so there was no hot water and there was no heating, so obviously we were really cold, and we ended up using the aircon units for the heat as well then, making it a lifesaver.”



The couple chose an M Series MXZ multi-split outdoor unit linked to two stylish wall-mounted Zen units, one in black for the kitchen diner and one in silver for the bedroom. The system was installed in just one day and, with the flexibility to add up to six individual indoor units from the MXZ system, this was the ideal solution.



The indoor Zen units combine an impressively low power consumption with a quiet, yet powerful performance. In addition to silver and black, they are also available in stylish white with all three colours designed to complement modern interior décor. The wall-mounted units have a distinctively styled front panel that not only looks appealing but also helps to make cleaning of the unit easier.

Each indoor unit offers easy operation with a backlit controller with 7-day time clock and an in-built Wi-Fi interface which enables remote system control and monitoring along with voice control compatibility with Amazon Alexa or Google Assistant.

Hay fever sufferers will benefit from the in-room air purification through the advanced V-Blocking filter, which helps neutralise bacteria, viruses, allergens, dust and mould.

The multi-Split MXZ unit uses R32 which has a lower global warming potential (GWP) and up to six M Series wall mounted, cassette, ducted, floor mounted or ceiling suspended indoor units of different capacities can be operated from a single outdoor unit. This makes it a highly economic and efficient answer for multi-room applications, whilst also offering space saving benefits.

For further information in creating the perfect indoor environment for your home, whatever the weather, visit our dedicated homeowners air conditioning page:

[les.mitsubishielectric.co.uk/homeowners/our-air-conditioning](https://les.mitsubishielectric.co.uk/homeowners/our-air-conditioning)





# Installation Summary

**R32**

### Outdoor Unit

#### ■ 1 x MXZ-F R32 Inverter Heat Pump

Available in: 3.3kW, 4.2kW, 5.4kW, 6.8kW, 7.2kW, 8.3kW, 10.2kW, 12.2kW



### Indoor Units

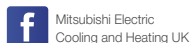
#### ■ 2 x MSZ-EF R32 Zen Inverter Heat Pump



**M series**



Telephone: 01707 282880  
email: [air.conditioning@meuk.mee.com](mailto:air.conditioning@meuk.mee.com)  
[les.mitsubishielectric.co.uk](http://les.mitsubishielectric.co.uk)



UNITED KINGDOM Mitsubishi Electric Europe Living Environment Systems Division  
Travellers Lane, Hatfield, Hertfordshire, AL10 8XB, England. Telephone: 01707 282880

IRELAND Mitsubishi Electric Europe

Plunkett House, Grange Castle Business Park, Nangor Road, Dublin 22, Ireland. Telephone: (00353) 1 4198800 Email: [sales.info@meir.mee.com](mailto:sales.info@meir.mee.com) Web: [les.mitsubishielectric.ie](http://les.mitsubishielectric.ie)

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Note: The fuse rating is for guidance only and please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a fluorinated greenhouse gas, R410A (GWP:2088), R290 (GWP:3), R32 (GWP:675), R407C (GWP:1774), R134a (GWP:1430), R513A (GWP:631), R454B (GWP:466), R454C (GWP:148), R1234ze (GWP:7) or R1234yf (GWP:4). \*These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. In case of Regulation (EU) No.626/2011 from IPCC 3rd edition, these are as follows. R410A (GWP:1975), R32 (GWP:550), R407C (GWP:1650) or R134a (GWP:1300).

Effective as of March 2025

