

The Renewable Solutions Provider

Making a World of Difference

Accredited Ecodan Installer:

Telephone:

Email:

Address:

Commissioning Document

Ecodan Heating and Hot Water Heat Pumps



Air Conditioning | Heating
Ventilation | Controls



IMPORTANT DOCUMENTS
To Be Kept At All Times
With Equipment

IMPORTANT
This Sheet Must Be
Kept With Equipment



Notes

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Service Record

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Ecodan Service Record

It is recommended that your Ecodan is serviced regularly and that the appropriate Service Interval Record is completed.

Service Provider

Before completing the appropriate Services Interval Record below, please ensure you have carried out the service as described in the manufacturer's instructions.

Always use the manufacturer's specified spare part when replacing components.

SERVICE 1

AEI Engineer Name:

AEI Company Name:

AEI Telephone No. AEI No.

Comments:

Sig. Date:

SERVICE 2

AEI Engineer Name:

AEI Company Name:

AEI Telephone No. AEI No.

Comments:

Sig. Date:

SERVICE 3

AEI Engineer Name:

AEI Company Name:

AEI Telephone No. AEI No.

Comments:

Sig. Date:

SERVICE 4

AEI Engineer Name:

AEI Company Name:

AEI Telephone No. AEI No.

Comments:

Sig. Date:

SERVICE 5

AEI Engineer Name:

AEI Company Name:

AEI Telephone No. AEI No.

Comments:

Sig. Date:

SERVICE 6

AEI Engineer Name:

AEI Company Name:

AEI Telephone No. AEI No.

Comments:

Sig. Date:

SERVICE 7

AEI Engineer Name:

AEI Company Name:

AEI Telephone No. AEI No.

Comments:

Sig. Date:

SERVICE 8

AEI Engineer Name:

AEI Company Name:

AEI Telephone No. AEI No.

Comments:

Sig. Date:

SERVICE 9

AEI Engineer Name:

AEI Company Name:

AEI Telephone No. AEI No.

Comments:

Sig. Date:

SERVICE 10

AEI Engineer Name:

AEI Company Name:

AEI Telephone No. AEI No.

Comments:

Sig. Date:



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Service Record

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Mains Pressure Hot Water Storage System Service Record

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Service Provider

Before completing the appropriate Services Interval Record below, please ensure you have carried out the service as described in the manufacturer's instructions.

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AEI Telephone No. AEI No.

Comments:

Sig. Date:

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AEI Telephone No. AEI No.

Comments:

Sig. Date:

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AEI Telephone No. AEI No.

Comments:

Sig. Date:

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Sig. Date:

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AEI Telephone No. AEI No.

Comments:

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SERVICE 10

AEI Engineer Name:

AEI Company Name:

AEI Telephone No. AEI No.

Comments:

Sig. Date:



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Annual Service Tasks

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Ecodan
Model No.

Ecodan
Serial No.

MECHANICAL TASKS

- 1 Inspect and clean evaporator fins. Repair damaged fins using a fin comb if required
- 2 Check visually for signs of oil leaks which may indicate a refrigerant leak (check for leaks if necessary)
- 3 Check integrity of refrigerant / water pipe work and lagging, repair lagging if required
- 4 Check system operation
- 5 Check the antifreeze and if necessary top up the concentration as per manufacturer's recommendations
- 6 Check and clean the magnetic particle filter
- 7 Check system pressure
- 8 Release any air from the primary/heating systems

CONTROLLER TASKS

- 9 Check for the correct operation and temperature setting of the thermostats
- 10 Check the operation of the zone valves
- 11 Check the operation and the timing of the immersion heater

On completion check that the whole system is working satisfactorily

- Mitsubishi Electric recommends that the frequency of maintenance visits to be a maximum of 12 months between inspections.
- Frequency of maintenance may increase dependent upon the equipment and local water conditions e.g. hard water, scale forming, water containing a high proportion of solids.
- Failure to maintain the system to the above minimum recommendations could result in the warranty becoming null and void.
- Please fill in the Service Record sheet to confirm the above tasks have been carried out on the Ecodan outdoor unit.



This Commissioning Checklist is to be completed in full by the AEI who commissioned the Ecodan and associated equipment as a means of demonstrating compliance with the appropriate Building Regulations and then handed to the customer to keep for future reference. For further information, please refer to Mitsubishi Electric training literature and installation manual. Failure to install and commission this equipment to the manufacturer's instructions may invalidate the warranty but does not affect statutory rights.

Customer Name	<input type="text"/>	Address
Tel No.	<input type="text"/>	
Ecodan Model	<input type="text"/>	
Ecodan No.	<input type="text"/>	Commissioned By (print name) <input type="text"/> Commissioning Date <input type="text"/>
AEI Company Name & Address		
<input style="height: 20px;" type="text"/>		
AEI No.	<input type="text"/>	Tel No. <input type="text"/> Building Regulations Notification No. (if applicable) <input type="text"/>

CONTROLS - SYSTEM AND HEAT PUMP		Tick the appropriate boxes if applicable
1 Time & Temperature Control To Heating	<input type="radio"/> Room Thermostat & Programmer/Timer	<input type="radio"/> Programmable Room state <input type="radio"/> Weather Compensation <input type="radio"/> Optimum Start Control
2 Time & Temperature Control To Hot Water	<input type="radio"/> Cylinder Thermostat & Programme Timer	<input type="radio"/> Combined with heat pump main controls
3 Heating Zone Valves (including underfloor loops)	<input type="radio"/> Fitted	<input type="radio"/> Not Required
4 Hot Water Zone Valves or 3 way-valve	<input type="radio"/> Fitted	<input type="radio"/> Not Required
5 Thermostatic Radiator Valves	<input type="radio"/> Fitted	<input type="radio"/> Not Required
6 Heat Pump Safety Interlock	<input type="radio"/> Built in	<input type="radio"/> Provided
7 Flow & Cylinder temperature sensors correctly positioned?	<input type="radio"/> Yes	<input type="radio"/> No
8 Automatic Bypass System	Fitted <input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Not Required
9 Weather Compensation Settings (if applicable)	<input type="text"/> °C flow at <input type="text"/> °C outdoor & <input type="text"/> °C flow at <input type="text"/> °C outdoor	
10 Control System	<input type="text"/> FTC2 <input type="text"/> FTC3 <input type="text"/> FTC4 <input type="text"/> FTC5	
11 Third Party Controls?	<input type="radio"/> Yes <input type="radio"/> No	<input type="text"/> Manufacturer Name & Model
12 Are the third party controls correctly interlocked?	<input type="radio"/> Yes	<input type="radio"/> No

ALL SYSTEMS		Tick the appropriate boxes if applicable
1 The heating system has been filled and pressure tested		<input type="radio"/> Yes
2 Expansion vessel for heating is sized, fitted & charged in accordance with manufacturer's instructions		<input type="radio"/> Yes
3 The heat pump is fitted on a solid/stable surface capable of taking its weight		<input type="radio"/> Yes
4 The system has been flushed and cleaned in accordance with BS7593 and heat pump manufacturer's instructions		<input type="radio"/> Yes
5 What system cleaner was used?	<input type="text"/>	
6 Outdoor fuse rating	<input type="text"/> A <input type="text"/> Type	
7 Cylinder coil surface area or Plate heat exchanger	<input type="text"/> M ² <input type="radio"/> Plate heat exchanger fitted <input type="radio"/> Not available heating only	
8 What antifreeze was used	<input type="text"/>	
9 What is the concentration level?	<input type="text"/> % or down to <input type="text"/> °C	
10 Legionella protection	<input type="text"/> °C every <input type="text"/> days	
11 Circulating pump(s) speed settings?	<input type="text"/>	
12 Measured flowrate	Domestic hot water <input type="text"/> Litres/min	Heating <input type="text"/> Litres/min
13 Measured steady state delta T (Flow and Return)	<input type="text"/> °C	Flow Temperature <input type="text"/> °C Return Temperature <input type="text"/> °C

OUTDOOR UNIT		Tick the appropriate boxes if applicable
1 Is all external pipework insulated?	<input type="radio"/> Yes	<input type="radio"/> No
2 Is the fan free from obstacles and operational? Adequate airflow?	<input type="radio"/> Yes	<input type="radio"/> No
3 Has suitable consideration been made for condensate discharge?	<input type="radio"/> Yes	<input type="radio"/> No
4 Flow and return isolation valves fitted?	<input type="radio"/> Yes	<input type="radio"/> No
5 Anti-Vibration mounting pads fitted?	<input type="radio"/> Yes	<input type="radio"/> No

HEATING MODE		Tick the appropriate boxes if applicable
1 Heating Temperatures	Heating Flow Temperature <input type="text"/> °C	Heating Return Temperature <input type="text"/> °C
2 Emitter type	underfloor heating <input type="radio"/> Yes <input type="radio"/> radiators <input type="radio"/> Yes <input type="radio"/> towel rail <input type="radio"/> Yes	
3 Emitters balanced?	<input type="radio"/> Yes	
4 Air removed from system?	<input type="radio"/> Yes	

DOMESTIC HOT WATER MODE <small>Measure and Record</small>		Tick the appropriate boxes if applicable
1 Is the heat pump connected to a hot water cylinder?	<input type="radio"/> Unvented <input type="radio"/> Vented <input type="radio"/> Not Connected	
2 Domestic hot water target temperature	<input type="text"/> °C <input type="radio"/> Cylinder heat up <input type="text"/> minutes	
3 Hot water has been checked at all outlets	<input type="radio"/> Yes	
4 Have Thermostatic blending valves been fitted?	<input type="radio"/> Yes <input type="radio"/> Not required	

ADDITIONAL SYSTEM INFORMATION		Tick the appropriate boxes if applicable
1 Additional heat sources connected	<input type="radio"/> Gas Boiler <input type="radio"/> Oil Boiler <input type="radio"/> Electric Heater <input type="radio"/> Solar Thermal <input type="text"/> Other	
2 Remove & clean line strainer if present	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not Applicable	
3 The operation of the heat pump and system controls have been demonstrated to the end-user	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not Applicable	

Commissioning Engineer's Signature	Customer's Signature (to confirm demonstration of equipment and receipt of appliance instructions)
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This Commissioning Checklist is to be completed in full by the competent person who commissioned the storage system as a means of demonstrating compliance with the appropriate Building Regulations and then handed to the customer to keep for future reference. Failure to install and commission this equipment to the manufacturer's instructions may invalidate the warranty but does not affect statutory rights.

Customer Name	<input type="text"/>	Address
Tel No.	<input type="text"/>	
Cylinder Make & Model	<input type="text"/>	
Cylinder Serial No.	<input type="text"/>	
Commissioned By (print name)	<input type="text"/>	Company Address
Reg Operative ID No.	<input type="text"/>	
Customer Name	<input type="text"/>	
Commissioning Date	<input type="text"/>	
To be completed by the customer on receipt of a Building Regulations Compliance Certificate*		
Building Regulations Notification No. (if applicable)	<input type="text"/>	

ALL SYSTEMS PRIMARY SETTINGS (indirect heating only)	Tick the appropriate boxes if applicable
1 Is the primary circuit a sealed or open vented system?	<input type="radio"/> Sealed <input type="radio"/> Open
2 What is the maximum primary flow temperature?	<input type="text"/> °C

ALL SYSTEMS	Tick the appropriate boxes if applicable
1 What is the incoming static cold water pressure at the inlet to the system?	<input type="text"/> bar
2 Has a strainer been cleaned on installation debris (if fitted)?	<input type="radio"/> Yes <input type="radio"/> No
3 Is the installation in a hard water area (above 200ppm)?	<input type="radio"/> Yes <input type="radio"/> No
4 If Yes, has a water scale reducer or scale trap been fitted?	<input type="radio"/> Yes <input type="radio"/> No
5 What type of scale reducer has been fitted?	<input type="text"/>
6 What is the hot water thermostat set temperature?	<input type="text"/> °C
7 What is the maximum hot water flow rate at set thermostat temperature (measured at high flow outlet)?	<input type="text"/> l/min
8 Time and temperature controls have been fitted in compliance with Part L of the Building Regulations?	<input type="radio"/> Yes <input type="radio"/> No
9 Type of control system (if applicable)	<input type="radio"/> Y Plan <input type="radio"/> S Plan <input type="radio"/> Other
10 Is the cylinder solar (or other renewable) compatible?	<input type="radio"/> Yes <input type="radio"/> No
11 What is the hot water temperature at the nearest outlet?	<input type="text"/> °C
12 All appropriate pipes have been insulated up to 1 metre or the point where they become concealed	<input type="radio"/> Yes <input type="radio"/> No

UNVENTED SYSTEMS ONLY	Tick the appropriate boxes if applicable
1 Where is the pressure reducing valve situated (if fitted)?	<input type="text"/>
2 What is the pressure reducing valve setting?	<input type="text"/> bar
3 Has a combined temperature and pressure relief valve and expansion valve been fitted and discharge tested?	<input type="radio"/> Yes <input type="radio"/> No
4 The tundish and discharge pipework have been connected and terminated to Part G of the Building Regulations	<input type="radio"/> Yes <input type="radio"/> No
5 Are all energy sources fitted with a cut out device?	<input type="radio"/> Yes <input type="radio"/> No
6 Has the expansion vessel or internal air space been checked?	<input type="radio"/> Yes <input type="radio"/> No

THERMAL STORES ONLY	Tick the appropriate boxes if applicable
1 What store temperature is achievable?	<input type="text"/> °C
2 What is the maximum hot water temperature?	<input type="text"/> °C

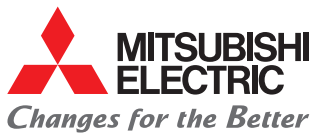
ALL INSTALLATIONS	Tick the appropriate boxes if applicable
1 The hot water system complies with the appropriate Building Regulations	<input type="radio"/> Yes <input type="radio"/> No
2 The system has been installed and commissioned in accordance with the manufacturer's instructions	<input type="radio"/> Yes <input type="radio"/> No
3 The system controls have been demonstrated to and understood by the customer	<input type="radio"/> Yes <input type="radio"/> No
4 The manufacturer's literature, including Benchmark Checklist and Service Record, has been explained and left with the customer	<input type="radio"/> Yes <input type="radio"/> No

Commissioning Engineer's Signature	Customer's Signature (to confirm satisfactory demonstration and receipt of manufacturer's literature)
<input type="text"/>	<input type="text"/>

* All installations in England and Wales must be notified to Local Authority Building Control (LABC) either directly or through a Competent Persons Scheme. A Building Regulations Compliance Certificate will be issued to the customer.



www.centralheating.co.uk



Telephone: 01707 282880

MELSmart Technical Services: 0161 866 6089

Option 1 - Air Conditioning Technical

Option 2 - Spares

Option 3 - Warranty

Option 4 - Heating Technical

Option 5 - Returns

Option 6 - Product Training and Site Services

Technical Support email: lestechhelpdesk@meuk.mee.com

Spares Support email: les.spares@meuk.mee.com

Warranty Support email: leswarranty@meuk.mee.com

Returns Support email: lesreturns@meuk.mee.com

web: heating.mitsubishielectric.co.uk

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to the environment



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