

INSTALLATION CASE STUDY

Clivet Monobloc | Specifying to the Property, Not the Brand

Clean Energy. Smarter Future.



We Do Not Have A Favourite Brand.

Four case studies, four different manufacturers. Not indecision - the result of specifying against the property every time instead of against a supplier agreement.

SYSTEM

Clivet monobloc

REFRIGERANT

R32

FORMAT

Single fan

INSTALLER

Elixia Renewables

THE BRIEF

Why we did not fit the brand you have heard of

Most heat pump quotes start with a brand and work backwards. Ours start with the property and let the brand fall out at the end, which is how a well-specified system occasionally ends up with a badge the customer has never seen before.

Clivet is not a household name in the UK. It is a Veneto manufacturer with three decades in air conditioning and a partnership with the Midea group, and its monobloc range is widely fitted across Europe. Unfamiliar is not the same as unproven, and brand recognition is not a design criterion.

What actually decides the specification

Output matched to the calculated heat loss, with enough modulation range to run down at part load rather than cycling. Physical footprint that suits the space available. Flow temperature capability that suits the emitters already in the property. Performance held at low ambient temperatures, because January is when it matters. Controls the household will actually use. And parts, support and warranty that will still be there in ten years.

Every mainstream manufacturer makes a competent heat pump. The difference between a good installation and a poor one is almost never which one you chose - it is whether it was matched to the property.

The design envelope

Confirmed specification where stated. Remaining figures are indicative ranges typical of this class of property and system rather than measured values.

Heat pump	Clivet monobloc, R32 refrigerant, single fan
Range available	4 to 30 kW; single fan format up to 16 kW
Design heat loss	6-10 kW, typical of a house of this size and build
Design flow	40-50 degrees C on existing emitters, weather compensated
Hot water	200-250 litre unvented cylinder
Siting	Concrete plinth, anti-vibration feet, insulated flexible connections

THE SOLUTION

Five reasons this unit suited this house

None of these are marketing points. They are the things that were checked against the property before anything was ordered.

1 Single fan, compact footprint

The Clivet range stays single fan all the way up to 16 kW, which keeps the outdoor unit shorter and lighter than a twin fan machine of similar output. On a paved side area with a boundary wall close behind, that is the difference between a tidy installation and a compromised one.

2 Flow temperature high enough for the existing emitters

The range delivers flow temperatures up to 65 degrees C. That headroom meant the existing radiator circuit could be assessed at a sensible design temperature rather than the property being committed to a full emitter replacement before anything else was decided.

3 Performance held at low ambient

The range is rated to produce hot water down to -25 degrees C outside. British winters do not need that, but a machine designed for harsher climates is not working at the edge of its envelope during a cold snap here, which is exactly when a heating system is judged.

4 Quiet and super quiet operating modes

Selectable reduced-output modes for evenings and overnight, useful on a property where the unit sits close to a boundary and to neighbouring windows.

5 Controls the household will use

App control and Modbus connectivity as standard, so the system can be monitored and adjusted rather than set once and forgotten. A control system nobody understands is a control system nobody optimises.

Specify to the property, not to the supplier deal. It is the reason our case studies feature four different manufacturers and not one.

THE INSTALLATION

Level, isolated and accessible

The unit sits on a poured concrete plinth rather than directly on block paving. Paving settles, and a monobloc that goes out of level develops condensate and vibration problems that are tedious to fix later. Anti-vibration feet sit between the frame and the plinth so nothing transmits into the structure.

Primary connections are made in insulated flexible hoses, which absorb residual movement and make future removal for service straightforward. Pipework runs are lagged externally and enter the building at low level with clear access to isolation valves.

Scope of works

- Clivet monobloc air source heat pump, R32 refrigerant
- Room-by-room heat loss calculation and full system design
- Poured concrete plinth, anti-vibration mounts and levelling
- Insulated flexible primary connections and lagged external pipework
- Unvented hot water cylinder sized to household demand
- Weather compensation and app-based control configured on site
- System flushing, inhibitor dosing, balancing and documented handover

Typical performance for a system of this type

3.2-3.8

Seasonal efficiency for a well-designed system on existing radiators

Up to 65 C

Flow temperature available, giving headroom on existing emitters

A++ / A+++

Manufacturer energy class across the range, model and temperature dependent

Typical ranges for this class of property and system, confirmed per project at design stage. Maximum flow temperature and energy class are manufacturer stated capabilities across the range, not recommended design conditions - lower flow temperatures give better efficiency.

If your installer only ever quotes one manufacturer, ask why. It should be because it suited your property, not because it suited their buying.

Want a specification, not a sales pitch?

We size and specify against your property and tell you plainly why the machine we have chosen is the right one for it.

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