



nZEB in a box

nZEB solutions for apartments

EVAir F30 - Product Overview











Compliance Overview of EcoVolt EVAir F30

Ventilation (cMEV), Space Heating and Domestic Hot Water solution for New Build Apartments.

- Covers all space heating, hot water, & ventilation requirements for new build apartments
- Integrates space heating, domestic hot water, & ventilation into one unit.
- Fully nZEB compliant.
- Complies with Part F & Part L building regulations.
- Seasonal Co-efficiency of Performance (SCOP) of 3.52.













Product Guide to EcoVolt EVAir

Space heating, domestic hot water, & ventilation into one enclosed unit.

Footprint of 800mm x 800mm utility cupboard, ideal for space constricted developments.

Selection of pre-plumbed cylinders available (100L, 150L)

All pipework, valves and connectors used are WRAS Approved.

Ceiling mounted louvres to extract air from wet areas.

Fresh air intake through windows or wall ventilators/grilles, & through an air duct system.

No additional PV Panels required for nZEB compliance.

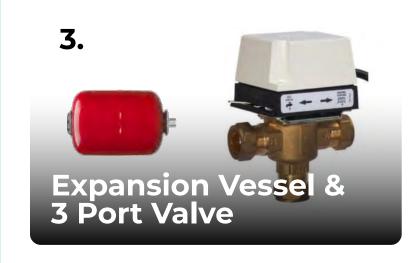
Fully connected system with Wi-FI control via the Tuya app.

Full remote access for landlord/building management control.

EVAir F30 System

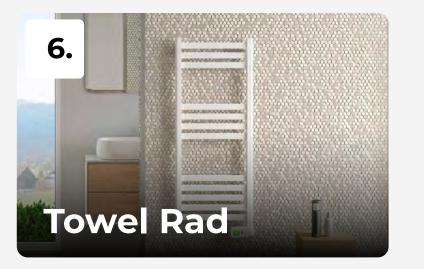
















How does the EVAir F30 system work?

Damp Air Removed

Damp/ Stale air is **extracted** from wet rooms' (kitchen, bathrooms', utility) via adjustable ceiling mounted louvres within each wet area.

EVAir F30 works its magic

The air is pulled into the EVAir F30 by a powerful & highly efficient built-in fan, flows across an evaporator containing a low temperature, low pressure refrigerant, from which the heat is extracted through a heat exchanger into the sealed refrigerant circuit.



Condensor Coil & Water

4.

This high pressure, high temperature refrigerant travels from the compressor to the condenser coil inside the tank. The heat from the refrigerant transfers to the water via the coil.

Pressure = Increased Temperature

The refrigerant moves to the built-in compressor, which increases the pressure & temperature of the refrigerant.

Refrigerant cools down

5.

Having transferred the heat to the water, the refrigerant returns to a low temperature and pressure, and reverts to the evaporator.

Cycle Continues

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The cycle continues until the refrigerant has transferred enough heat to bring the stored water to its desired temperature.

Switch Off

7.

Once the water has reached the desired temperature, the EVAir will switch off

EVAir F30 System

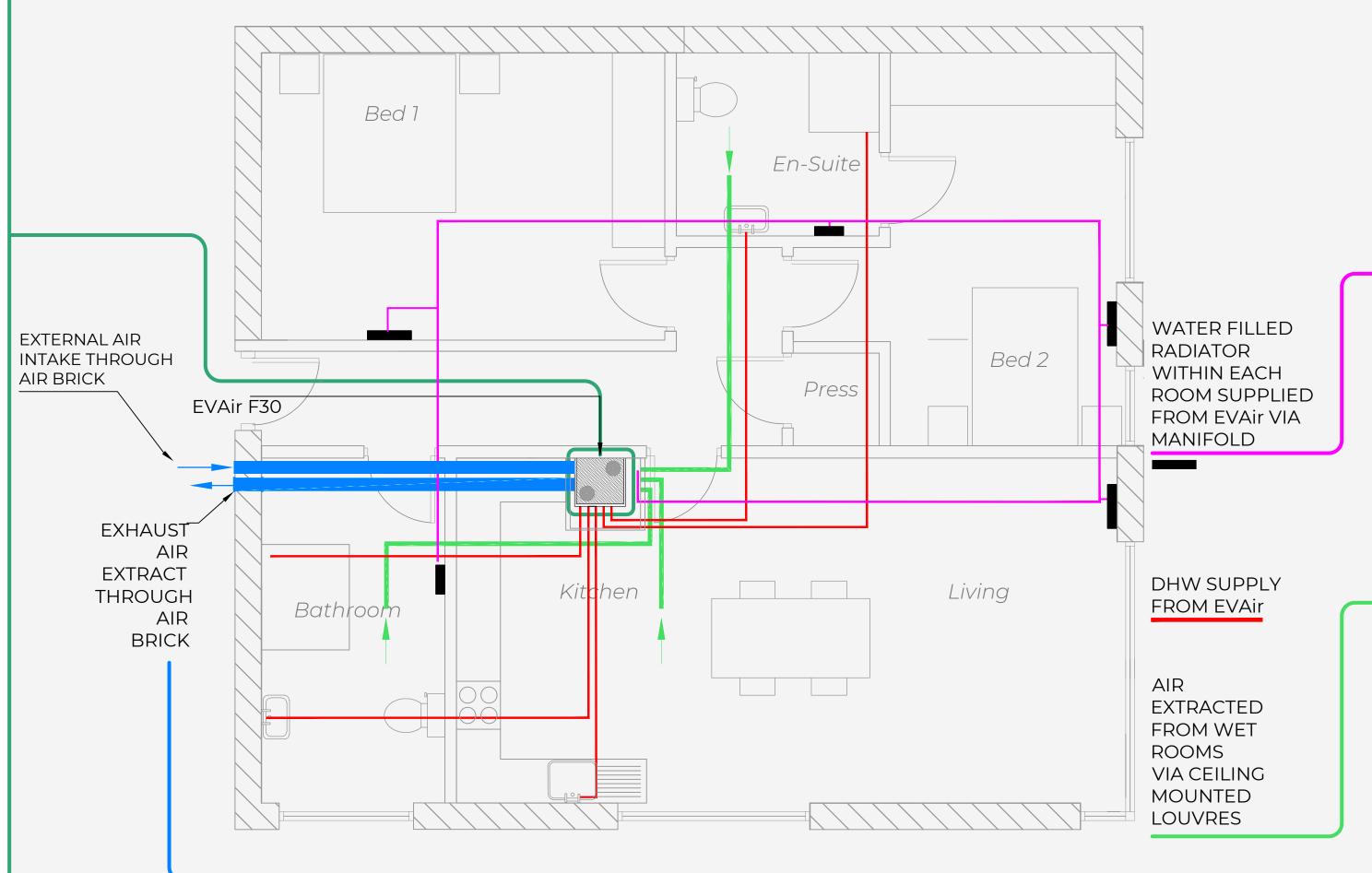




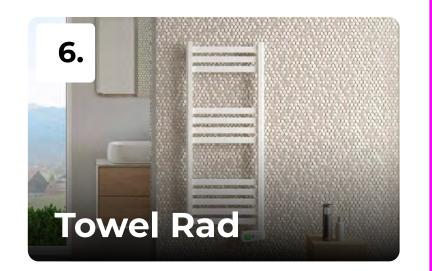




EVAir F30 Positioning



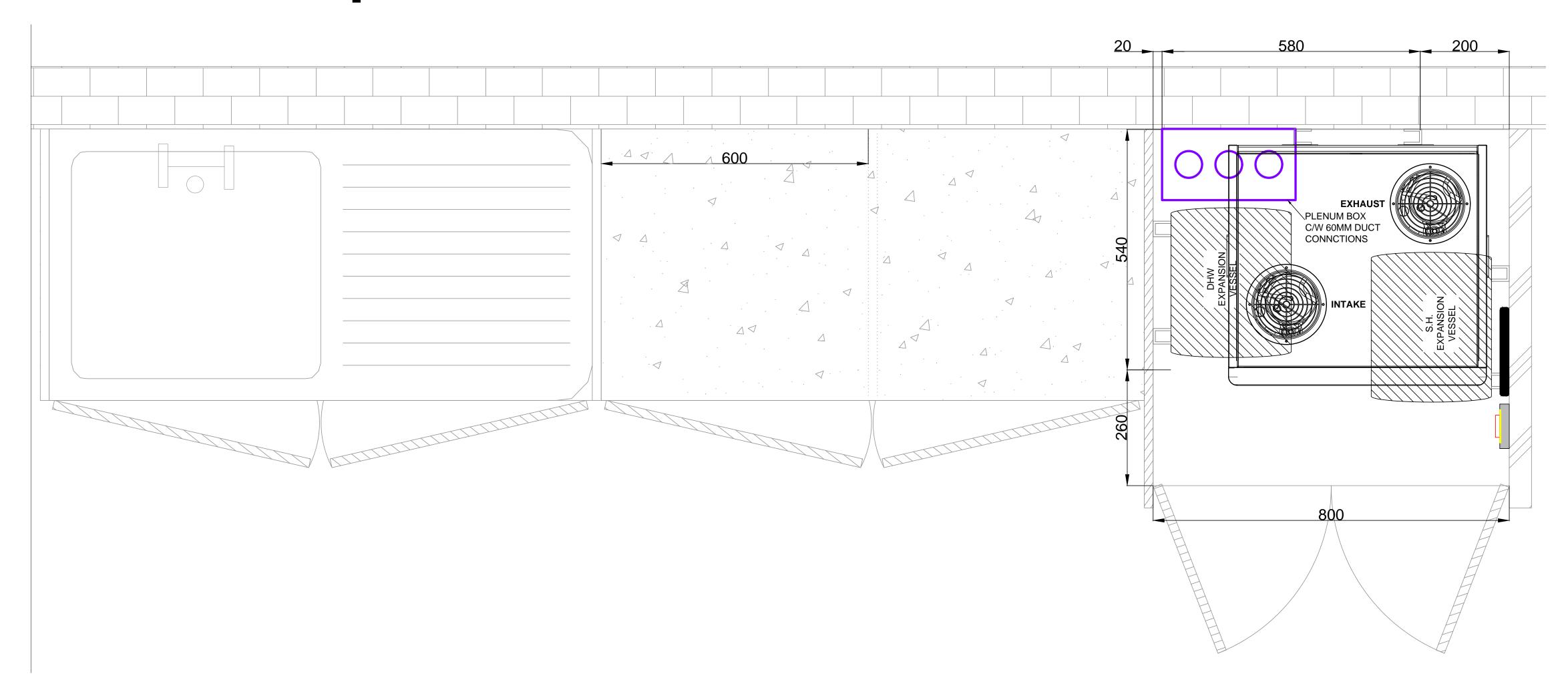








EVAir F30 Cupboard Plan



EVAir F30 Cupboard Layout SH Expansion Vessel __60MM DUCTS TO EXTRACT FROM WET 150MM INSULATED FLEXIBLE EXTRACT DUCT NOTE: FLATPACK OPTIONS AVAILABLE **EcoVolt EVAir F30** EXTRACTED TO OUTSIDE -150MM INSULATED -FLEXIBLE EXTRACT DUCT; AIR INTAKE NOTE: FLATPACK OPTIONS 580 550 AIR INTAKE FROM WET **DHW Expansion** –EVAir - F30 AIR EXTRACTED TO OUTSIDE Vessel 490 35MM ANTI VIBRATION MOUNTING FAN SPEED **Hot Water Storage Cylinder** 2400 DHW / _HOT WATER SUPPLY WIRING CENTRE Options available for a ISOLATION . SWITCH | 540 100L or 150L hot water IMMERSION, 3 PORT VALVE, ELECTRICAL CONNECTION storage cylinder with a built in buffer vessel. DAMPERS. CONDENSATE UNDERSIDE VIEW 1300 SPACE OF , 225MM FOR PRE-066 **Insulated Flexi Duct** VALVES. 100L DUPLEX STAINLESS STEEL 100L DUPLEX STAINLESS STEEL HOT WATER STORAGE CYLINDER HOT WATER STORAGE CYLINDER 40 25L BUFFER VESSEL 554 554 **Plenum Box** 800 580 800 FRONT VIEW PLAN VIEW

