



LOGIC AIR HYBRID

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FEATURES

The Logic Air Hybrid system combines our market leading gas boiler range with our flagship Logic Air monobloc air source heat pump. Controlled by the Logic Air control box, the system provides bivalent control with efficient and cost-effective heating and instantaneous hot water.



LOGIC AIR HYBRID KEY FEATURES

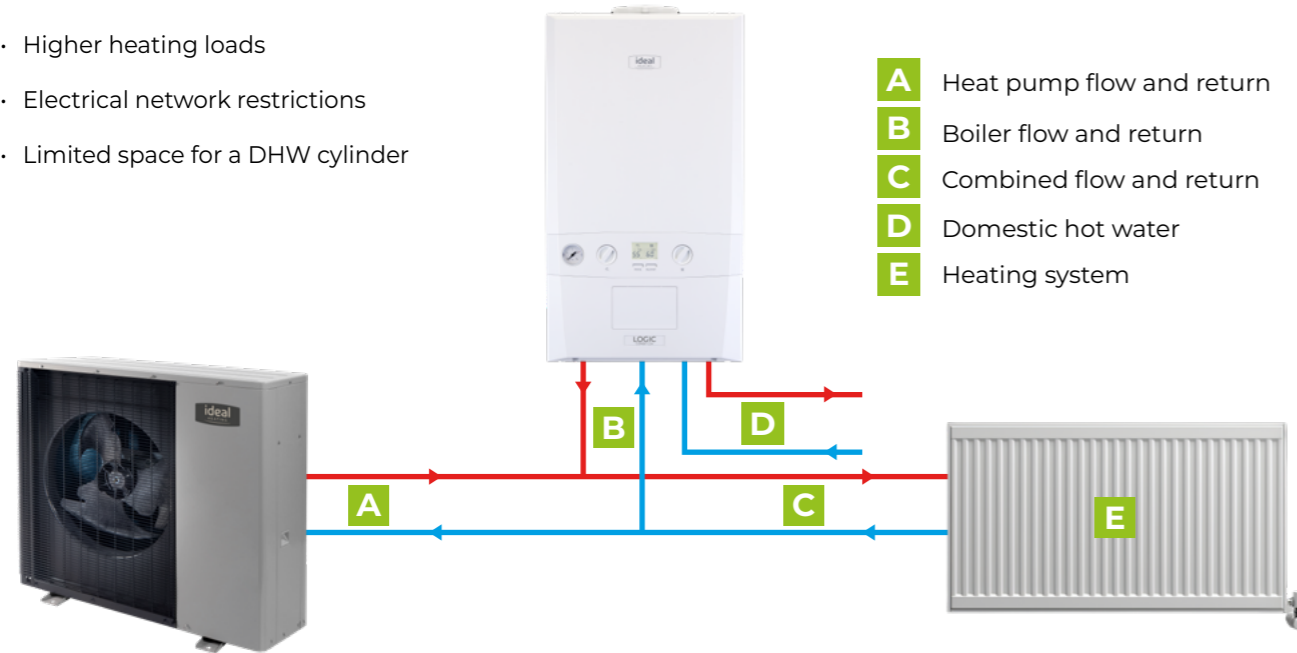
- ✓ Integrated controller within the heat pump
- ✓ Bivalent control strategy
- ✓ Integration with combi, system or heat only controls
- ✓ No hydraulic separation required
- ✓ The Logic Air range is Quiet Mark certified
- ✓ Easy to install
- ✓ Boilers designed for UK homes
- ✓ Flexible warranties
- ✓ UK wide engineer coverage



OPERATION

The Logic Air integrates seamlessly with a Logic Combi C boiler providing a heating and hot water solution that reaps the efficiency benefits of an air source heat pump with the instantaneous hot water and additional heat provided by a combi boiler. This 'best of both worlds' solution provides a climate friendly solution to properties with:

- Higher heating loads
- Electrical network restrictions
- Limited space for a DHW cylinder



EXAMPLE

Heat pump



Outdoor unit: Ideal Logic Air

Accessories:

- Antivibration feet - AH809536 (required)
- Y-strainer/filter - 936911 (required)
- Control:
 - Logic Air control box - 235797
- Buffer tank - AH700436 (optional)

Boiler



Boiler: Logic Combi C30

Accessories:

- Flue (required)
- Filter
- Cylinder (only if system or heat only boiler installed)

SPECIFICATION

		Logic Air 4kW	Logic Air 5kW	Logic Air 8kW	Logic Air 10kW
Ideal product code		AH750664	AH750665	AH750666	AH750667
Heating [A 7°C / W 35°C]*	Capacity (kW)	4	5	8.2	10.3
	Power input (kW)	0.75	0.97	1.58	2.1
	COP	5.34	5	5.19	4.9
Heating [A 7°C / W 55°C]*	Capacity (kW)	4	5	8.2	10.3
	Power input (kW)	1.33	1.64	2.67	3.42
	COP	3	3.04	3.07	3.01
Sound power level (EN 12102 - 1)	dB(A)	52	52	55	55
Pipework connection sizes	Heating F/R	1" BSP	1" BSP	1" BSP	1" BSP
Dimensions outdoor unit (mm)	Width	1095	1095	1095	1095
	Depth	518	518	518	518
	Height	798	798	1008	1008
	Volume (m ³)	0.45	0.45	0.57	0.57
	Weight (kg)	86	86	110	110
Electrical data	Electrical supply (50 Hz)	230v	230v	230v	230v
	Phase	Single phase	Single phase	Single phase	Single phase
Refrigerant charge (kg)*	R32	0.88	0.88	1.47	1.47
Logic Combi ²	Product code (C24/C30)	228307/228308			
	Max CH output (C24/C30)	24.2/24.2			
	Min CH output (C24/C30)	4.8/6.1			
	DHW output (C24/C30)	24.2/30.2			
	SSHEE (C24/C30)	94/94			
Boiler dimensions (mm)	Width	395			
	Depth	278			
	Height	700			
Hybrid control	Strategy	Bivalent point			
	System master	Heat pump			

*Performance data in accordance with EN 14825 : 2016, EN 1210, EN 14511 : 2018. The energy efficiency provided may not correspond to the actual energy once installed in a building, as the efficiency is influenced by other factors such as heat loss in the distribution system and the capacity of the products in relation to building size and characteristics.

LOGIC AIR HYBRID FLOWCART

Step 1 Outdoor unit.



Logic Air 4 kW – AH750664
 Logic Air 5 kW – AH750665
 Logic Air 8 kW – AH750666
 Logic Air 10 kW – AH750667

Step 2 Boiler.



Boiler: Logic Combi C24 - 228307
 Logic Combi C30 - 228308



Flue

Step 3 Control.



Logic Air wall
 mounted control box.
 235797

Step 4 Accessories.

Required

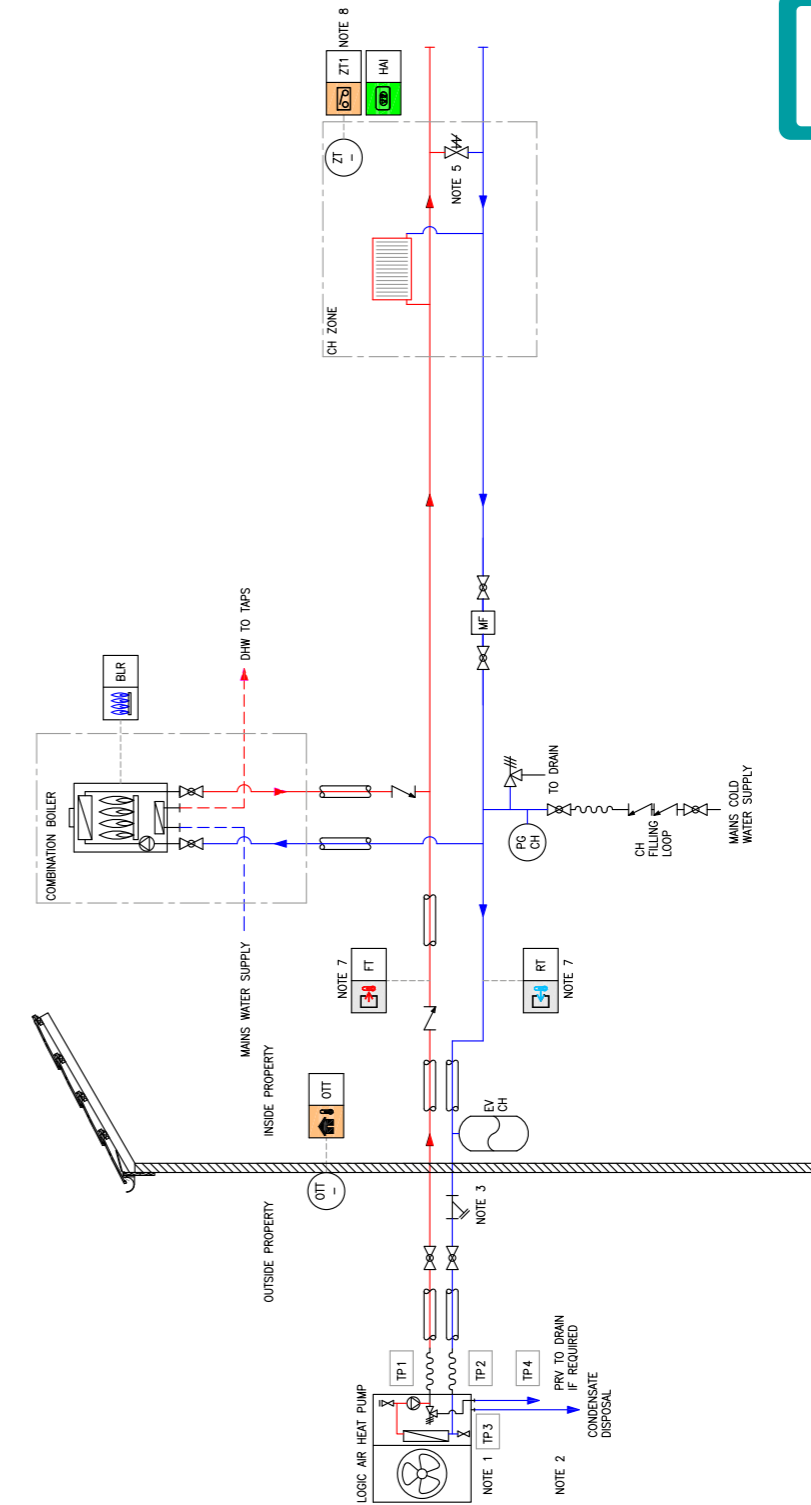
- Antivibration feet – AH809536
- Flexible hose:
 - 750mm – 236910
 - or
 - 500mm - 236909
- Filter:
 - Magnetic – 236911
 - or
 - Y-strainer - 236740

Optional

- Buffer tank:
 - 25L – AH700436
 - 50L – AH700437
- Filter ball valve - 236738

TP No	DESCRIPTION	SIZE	MATERIAL	TYPE
1	HEAT PUMP FLOW	1" BSP	BRASS	BSP MALE
2	HEAT PUMP RETURN	1" BSP	BRASS	BSP MALE
3	HEAT PUMP CONDENSATE DISPOSAL	-	-	-
4	PRESSURE RELIEF VALVE (PRV)	15MM	COPPER	COPPER PIPE OUTLET

Logic Air + Combi Boiler + Single zone
 without buffer (Bivalent system).



Notes:
 Note 1. The heat pump must be installed on a secure level base capable of supporting its weight.
 Note 2. Refer to the installation manual for condensate and pressure relief discharge requirements.
 Note 3. A particulate filter is required and can be supplied as an option. A magnetic filter is recommended.
 Note 4. Glycol is required for antifreeze protection on all hybrid systems.
 Note 5. Install an auto-bypass if no permanent open circuit is available to allow secondary side pump overrun and normal operation.
 Note 6. The flow and return pipe clip-on sensor must be installed on the 28mm copper pipe work.
 Note 7. Flow and return pipe clip-on sensors must be installed on the 28mm copper pipe work.
 Note 8. Refer to the installation manual for smart or ON/OFF thermostat connection.
 Note 9. Ensure the correct pipe size is installed. Refer to the Logic Air heat pump and boiler installation manuals.
 This drawing is for information and guidance only. It is the heating designer/ installers responsibility to adhere to the latest relevant standards.
 Refer to Logic Air monobloc heatpump system installation and maintenance manual in conjunction with these schematic drawings.



SCAN HERE
 FOR LOGIC AIR
 SCHEMATICS



SCAN HERE
 FOR LOGIC AIR
 INSTALL MANUAL



Customer Service:

01482 498660

Technical Help:

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