

SCHEMATICS

LOGIC AIR MONOBLOC HEAT PUMP SYSTEM





When replacing any part on this appliance, use only spare parts that you can be assured conform to the safety and performance specification that we require. Do not use reconditioned or copy parts that have not been clearly authorised by Ideal Heating.

For the very latest copy of literature for specification and maintenance practices visit our website idealheating.com where you can download the relevant information in PDF format.







The code of practice for the installation, commissioning& servicing of central heating systems



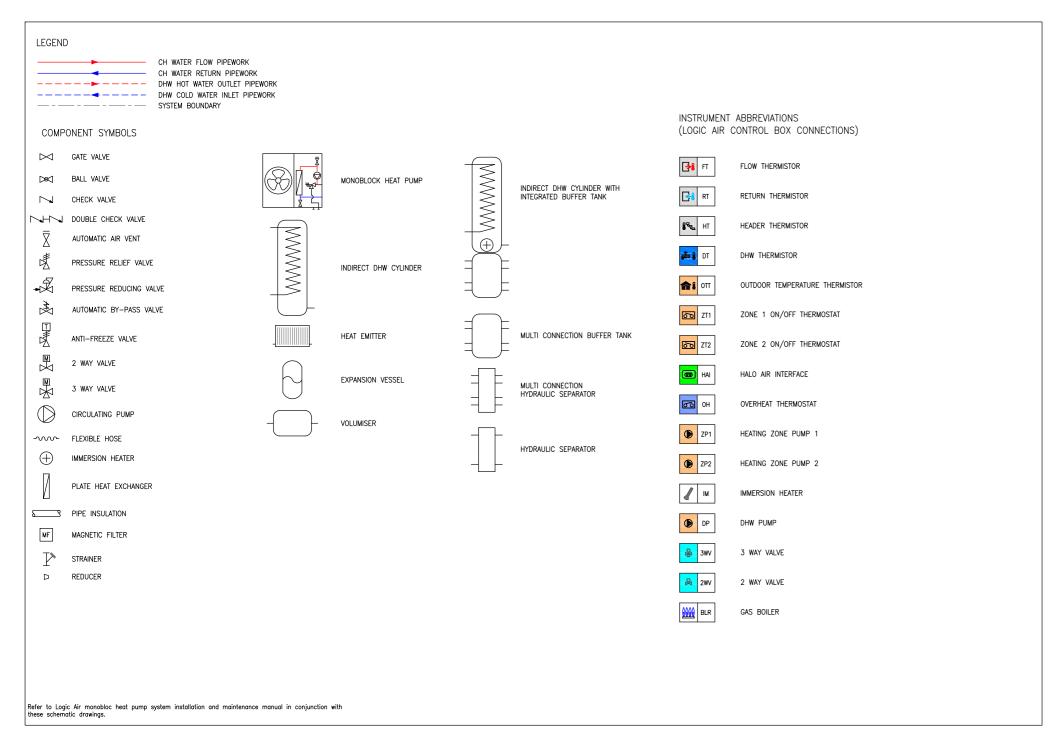


Ideal Heating reserve the right to vary specification without notice

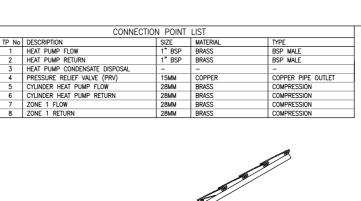
CONTENTS

iaure 1.	Legend
•	Logic Air + Single Zone Pre-Plumbed Cylinder with Integrated Buffer
igure 3.	Logic Air + Two Zone Pre-Plumbed Cylinder with Integrated Buffer
iaure 4.	Logic Air + Single Zone Pre-Plumbed Cylinder
-	Logic Air + Standard Non Pre-Plumbed Heat Pump Cylinder + Buffer with Single Zone
•	Logic Air + Standard Non Pre-Plumbed Heat Pump Cylinder + Buffer with Two Zones
•	Logic Air + Single Zone Pre-Plumbed Cylinder with Integrated Low Loss Header
•	Logic Air + Two Zone Pre-Plumbed Cylinder with Integrated Low Loss Header

① IMPORTANT: PLEASE USE THIS MANUAL IN CONJUNCTION WITH THE LOGIC AIR MONOBLOC HEAT PUMP SYSTEM – INSTALLATION & SERVICING MANUAL



Schematic Guide



OUTSIDE PROPERTY

NOTE 3

NOTE 4

INSIDE PROPERTY

TP5

Figure 2. Logic Air + Single Zone Pre-Plumbed Cylinder with Integrated Buffer

MAINS COLD WATER SUPPLY

NOTE 5 XH4/

TP8

COMBINATION VALVE

P&TRV 6 BAR 90-95°C



LOGIC AIR HEAT PUMP

NOTE 1 TP3

TP4

▼ IF REQUIRED

CONDENSATE

- Note 1. The heat pump must be installed on a secure level base capable of supporting it's weight.
- Note 2. Refer to the installation manual for condensate and pressure relief discharge requirements.
- Note 3. A particle filter can be supplied as an option and it's recommended that a magnetic filter is installed. Logic Air Pre-plumbed cylinders are supplied complete with a combined magnetic and particle filter.
- Note 4. Anti-freeze valves are required if glycol is not used in the system.
- Note 5. Install an auto-bypass if no permanent open circuit is available to allow secondary side pump
- overrun and normal operation.
- Note 6. Logic Air two zone pre-plumbed arrangement is available.
- Note 7. Refer to the installation manual for smart or ON/OFF thermostat connection.

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 heat pump system installation and maintenance manual in conjunction with these schematic drawings.

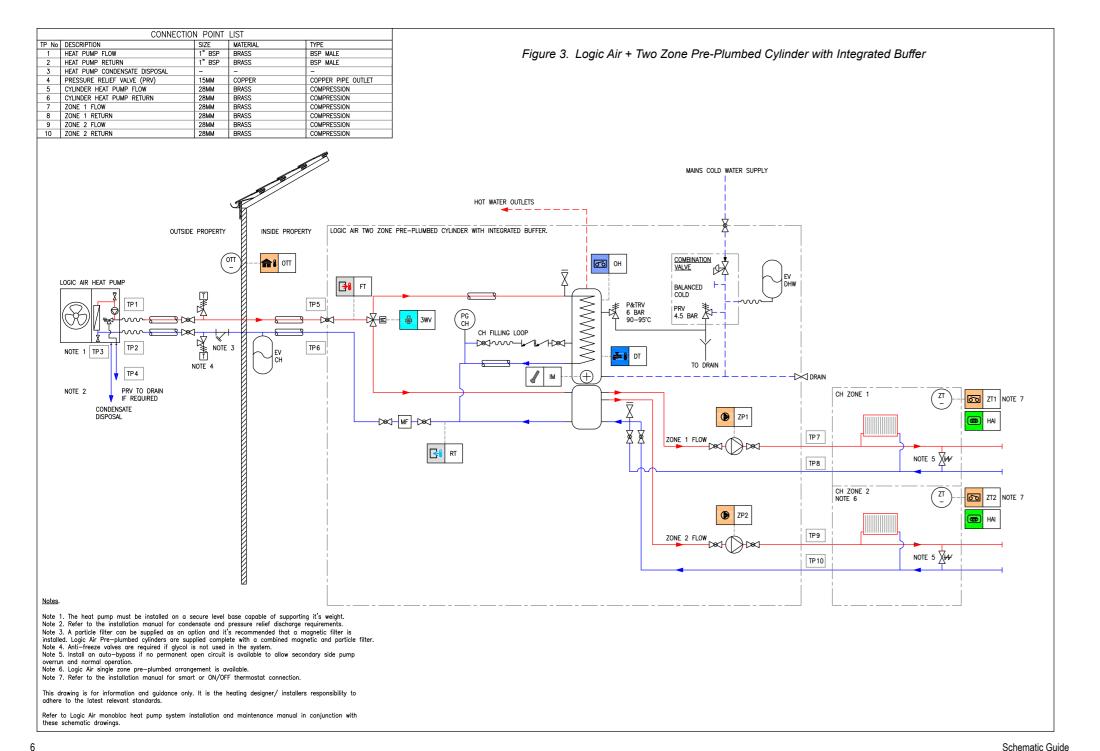
Schematic Guide

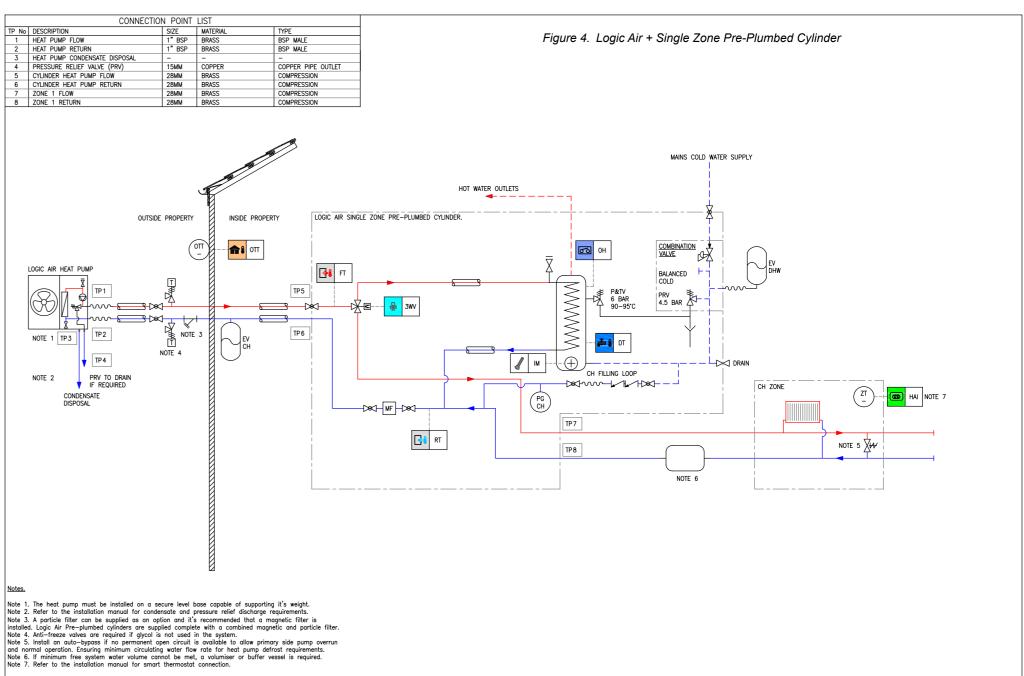
HOT WATER OUTLETS

CH FILLING LOOP

LOGIC AIR SINGLE ZONE PRE-PLUMBED CYLINDER WITH INTEGRATED BUFFER.

4-----





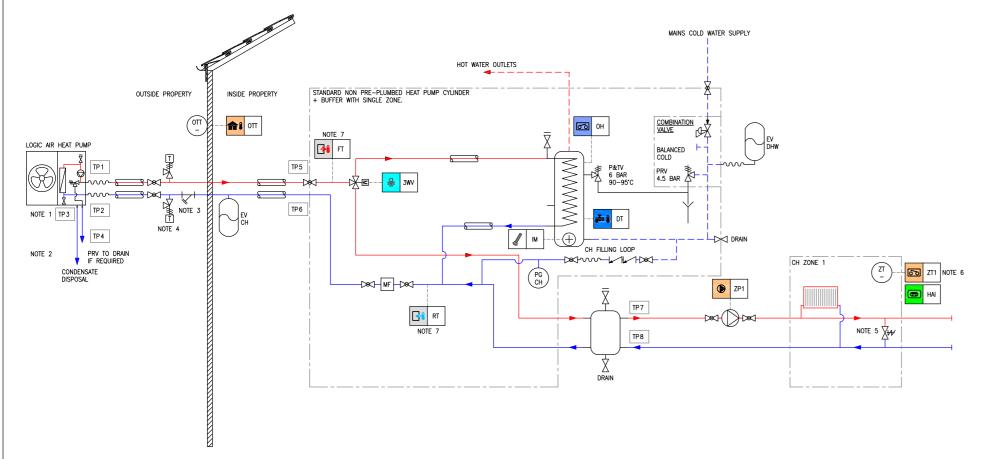
This drawing is for information and guidance only. It is the heating designer/installers responsibility to adhere

Refer to Logic Air monobloc heat pump system installation and maintenance manual in conjunction with these schematic drawings.

Schematic Guide

CONNECTION POINT LIST					
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	
5	HEAT PUMP FLOW	28MM	BRASS	COMPRESSION	
6	HEAT PUMP RETURN	28MM	BRASS	COMPRESSION	
7	ZONE FLOW	28MM	BRASS	COMPRESSION	
8	ZONE RETURN	28MM	BRASS	COMPRESSION	

Figure 5. Logic Air + Standard Non Pre-Plumbed Heat Pump Cylinder + Buffer with Single Zone



- Note 1. The heat pump must be installed on a secure level base capable of supporting it's weight. Note 2. Refer to the installation manual for condensate and pressure relief discharge requirements.
- Note 3. A particle filter is required and can be supplied as an option. It's recommended that a magnetic
- Note 4. Anti-freeze valves are required if glycol is not used in the system.

 Note 5. Install an auto-bypass if no permanent open circuit is available to allow secondary side pump
- Note 6. Refer to the installation manual for smart or ON/OFF thermostat connection.
- Note 7. Flow and return pipe clip-on sensors must be installed on the 28mm copper pipe work.

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

MAINS COLD WATER SUPPLY HOT WATER OUTLETS STANDARD NON PRE-PLUMBED HEAT PUMP CYLINDER OUTSIDE PROPERTY COMBINATION VALVE NOTE 7 LOGIC AIR HEAT PUMP BALANCED 90-95°C NOTE 3 TP6 NOTE 1 TP3 NOTE 4 CH FILLING LOOP TP4 ▼ IF REQUIRED CONDENSATE DISPOSAL MF - D801-TP8 Note 1. The heat pump must be installed on a secure level base capable of supporting it's weight. Note 2. Refer to the installation manual for condensate and pressure relief discharge requirements. Note 3. A particle filter is required and can be supplied as an option. It's recommended that a magnetic Note 4. Anti-freeze valves are required if glycol is not used in the system.

Note 5. Install an auto-bypass if no permanent open circuit is available to allow secondary side pump Note 6. Refer to the installation manual for smart or ON/OFF thermostat connection. Note 7. Flow and return pipe clip-on sensors must be installed on the 28mm copper pipe work. This drawing is for information and guidance only. It is the heating designer/installers responsibility to adhere Refer to Logic Air monobloc heatpump system installation and maintenance manual in conjunction with these

COPPER PIPE OUTLET

COMPRESSION

COMPRESSION COMPRESSION Figure 6. Logic Air + Standard Non Pre-Plumbed Heat Pump Cylinder + Buffer with Two Zones

NOTE 5 XH

NOTE 5 XH

CONNECTION POINT LIST

TP No DESCRIPTION

1 HEAT PUMP FLOW

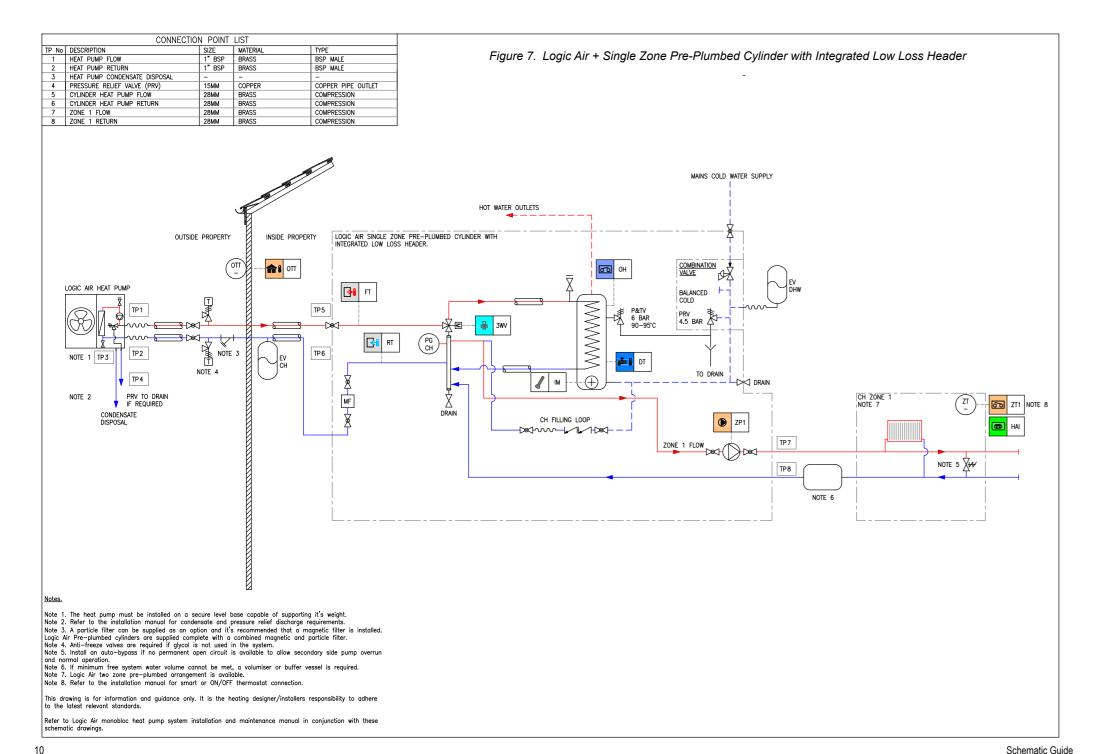
HEAT PUMP RETURN HEAT PUMP CONDENSATE DISPOSAL PRESSURE RELIEF VALVE (PRV)

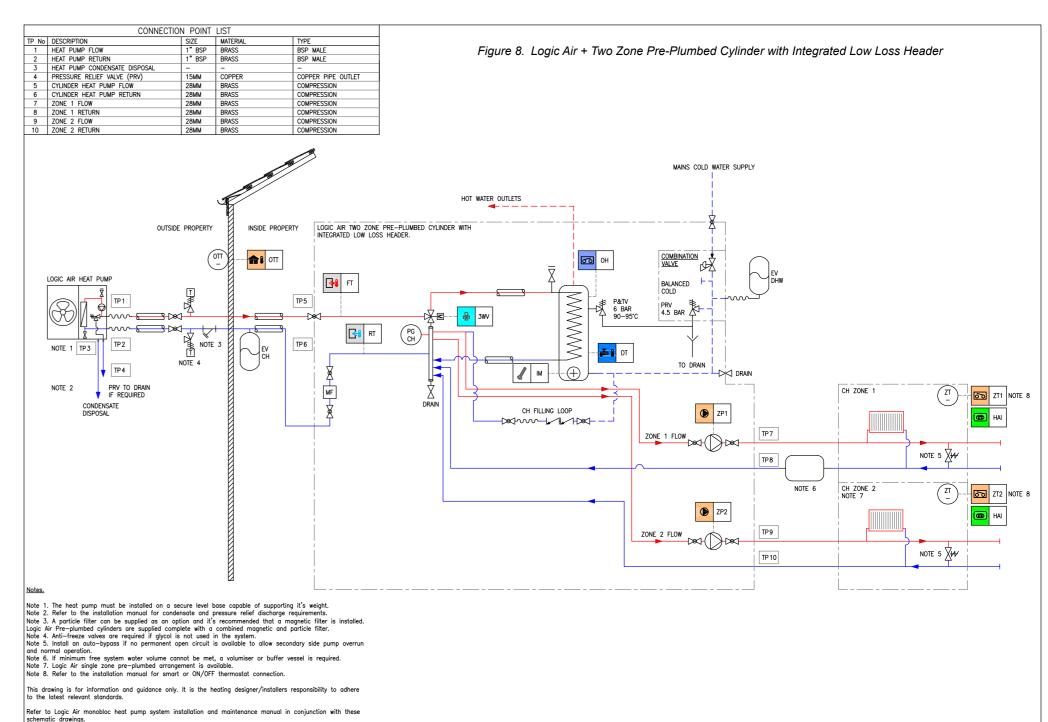
HEAT PUMP FLOW

HEAT PUMP RETURN

ZONE FLOWS 8 ZONE RETURNS

Schematic Guide Schematic Guide





Schematic Guide

At Ideal Heating we take our environmental impact seriously, therefore when installing any Ideal Heating product please make sure to dispose of any previous appliance in an environmentally conscious manner. Households can contact their local authority to find out how. See https://www.gov.uk/managing-your-waste-an-overview for guidance on how to efficiently recycle your business waste.

Technical Training

Our Expert Academy offer a range of training options designed and delivered by our experts in heating. For details please contact: expert-academy.co.uk



Ideal Boilers Ltd., pursues a policy of continuing improvement in the design and performance of its products. The right is therefore reserved to vary specification without notice.

Ideal is a trademark of Ideal Boilers.

Registered Office

Ideal Boilers Ltd., National Avenue, Hull, East Yorkshire, HU5 4JB Tel 01482 492251 Fax 01482 448858

Registration No. London 322 137

EU Authorised Representative:
Atlantic SFDT

44 Boulevard des Etats-Unis, 85 000 La Roche-Sur-Yon, France
+33 (0)2 51 44 34 34

Ideal Technical Helpline: 01482 498663 Ideal Consumer Helpline: 01482 498660 Ideal Parts: 01482 498665

idealheating.com

