



SCHEMATICS

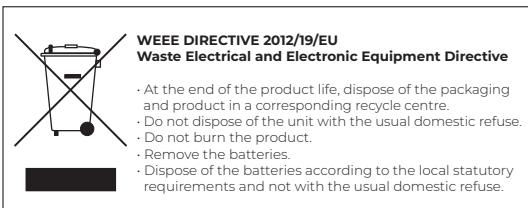
LOGIC AIR MONOBLOC HEAT PUMP SYSTEM



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 MARK OF QUALITY FOR THE INSTALLATION, COMMISSIONING AND SERVICING OF DOMESTIC HEATING AND HOT WATER SYSTEMS

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



Ideal Heating reserve the right to vary specification without notice

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

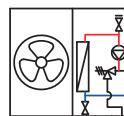
Figure 1. Legend

LEGEND

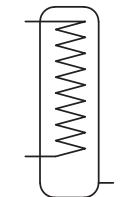
- CH WATER FLOW PIPework
- ← CH WATER RETURN PIPework
- DHW HOT WATER OUTLET PIPework
- ← DHW COLD WATER INLET PIPework
- System Boundary

COMPONENT SYMBOLS

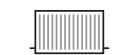
- ▷ GATE VALVE
- ▷ GATE VALVE
- ▷ CHECK VALVE
- ▷ DOUBLE CHECK VALVE
- ▷ AUTOMATIC AIR VENT
- ▷ PRESSURE RELIEF VALVE
- ▷ PRESSURE REDUCING VALVE
- ▷ AUTOMATIC BY-PASS VALVE
- ▷ ANTI-FREEZE VALVE
- ▷ 2 WAY VALVE
- ▷ 3 WAY VALVE
- ▷ CIRCULATING PUMP
- ~ FLEXIBLE HOSE
- ⊕ IMMERSION HEATER
- || PLATE HEAT EXCHANGER
- PIPE INSULATION
- [MF] MAGNETIC FILTER
- ▷ STRAINER
- ▷ REDUCER
- FLOW BALANCING VALVE WITH WATER FLOW INDICATOR (10 – 50 l/min)



MONOBLOCK HEAT PUMP



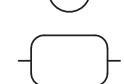
INDIRECT DHW CYLINDER



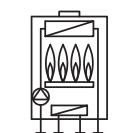
HEAT Emitter



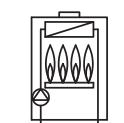
EXPANSION VESSEL



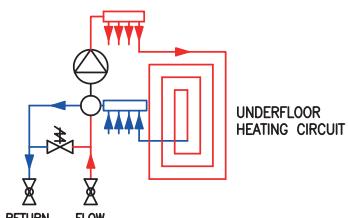
VOLUMISER



COMBINATION BOILER



SYSTEM BOILER



UNDERFLOOR HEATING CIRCUIT

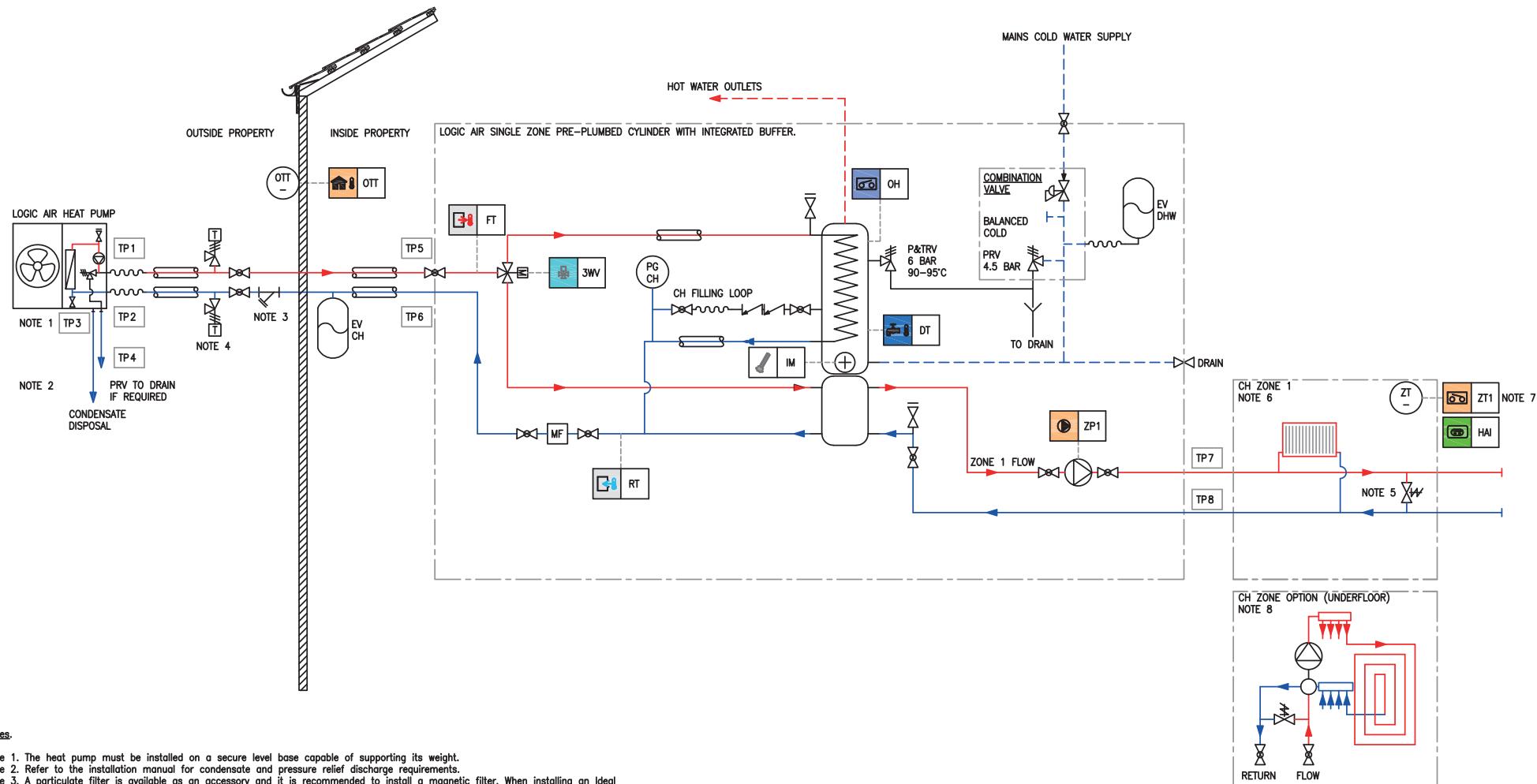
FLOW
RETURN

INSTRUMENT ABBREVIATIONS
(LOGIC AIR CONTROL BOX CONNECTIONS)

- | | |
|-------|--------------------------------|
| [FT] | FLOW THERMISTOR |
| [RT] | RETURN THERMISTOR |
| [HT] | HEADER THERMISTOR |
| [DT] | DHW THERMISTOR |
| [OTT] | OUTDOOR TEMPERATURE THERMISTOR |
| [ZT1] | ZONE 1 ON/OFF THERMOSTAT |
| [ZT2] | ZONE 2 ON/OFF THERMOSTAT |
| [HAI] | HALO AIR INTERFACE |
| [OH] | OVERHEAT THERMOSTAT |
| [ZP1] | HEATING ZONE PUMP 1 |
| [ZP2] | HEATING ZONE PUMP 2 |
| [IM] | IMMERSION HEATER |
| [DP] | DHW PUMP |
| [3WV] | 3 WAY VALVE |
| [2WV] | 2 WAY VALVE |
| [BLR] | GAS BOILER |

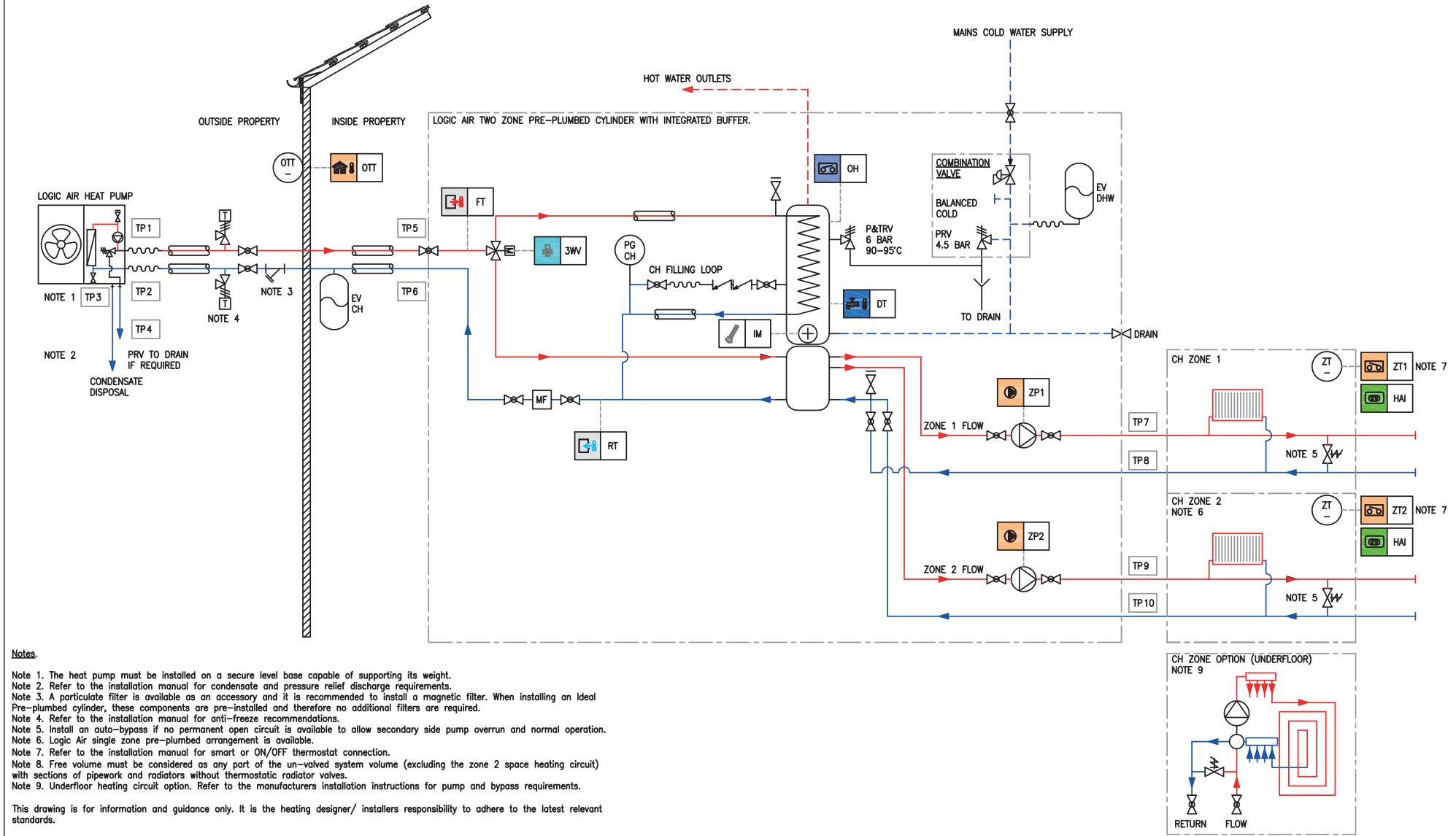
CONNECTION POINT LIST				
TP No	DESCRIPTION	SIZE	MATERIAL	TYPE
1	HEAT PUMP FLOW	1" BSP	BRASS	BSP MALE
2	HEAT PUMP RETURN	1" BSP	BRASS	BSP MALE
3	HEAT PUMP CONDENSATE DISPOSAL	—	—	—
4	PRESSURE RELIEF VALVE (PRV)	15MM	COPPER	COPPER PIPE OUTLET
5	CYLINDER HEAT PUMP FLOW	28MM	BRASS	COMPRESSION
6	CYLINDER HEAT PUMP RETURN	28MM	BRASS	COMPRESSION
7	ZONE 1 FLOW	28MM	BRASS	COMPRESSION
8	ZONE 1 RETURN	28MM	BRASS	COMPRESSION

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



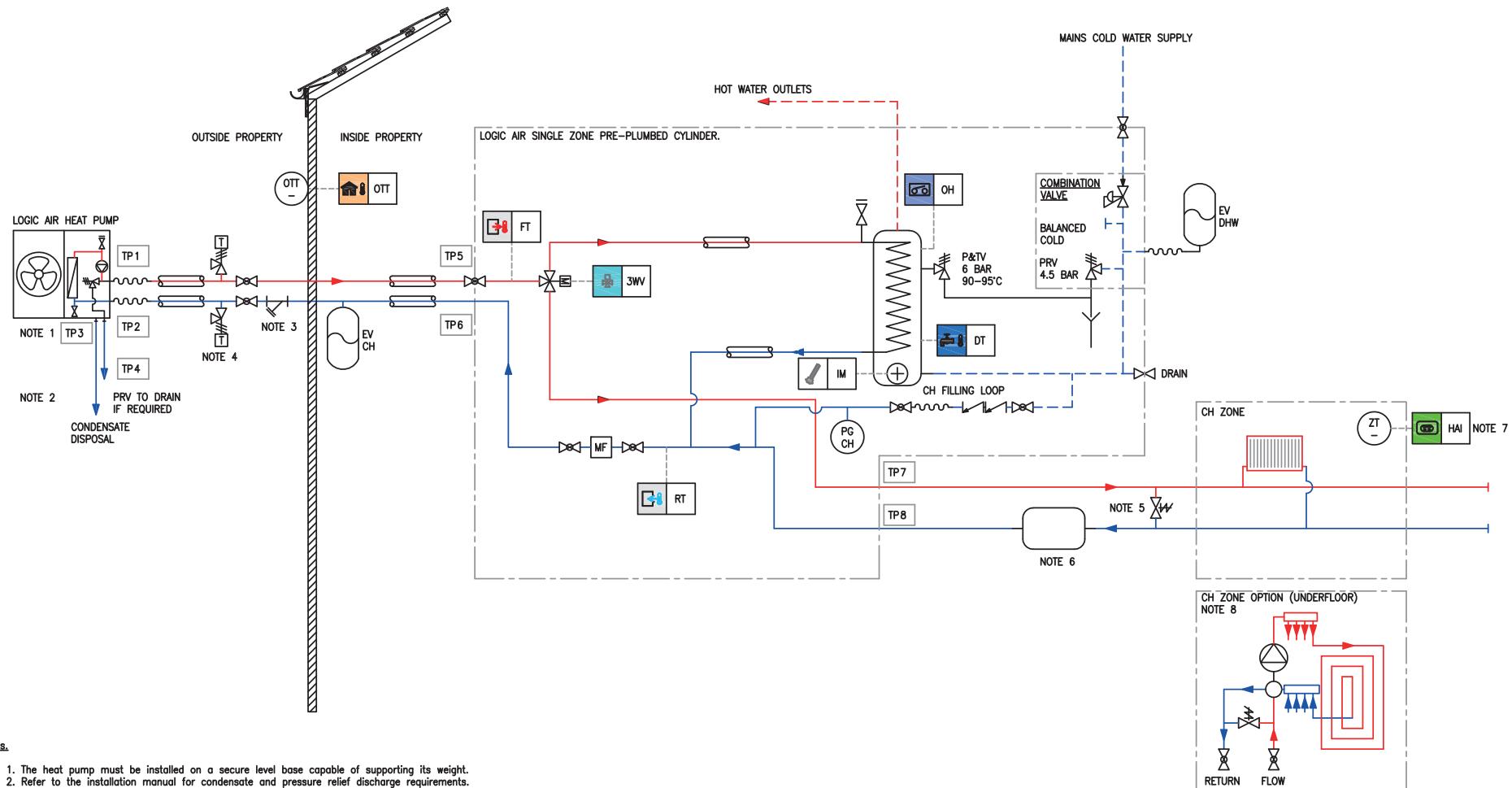
CONNECTION POINT LIST				
TP No	DESCRIPTION	SIZE	MATERIAL	TYPE
1	HEAT PUMP FLOW	1" BSP	BRASS	BSP MALE
2	HEAT PUMP RETURN	1" BSP	BRASS	BSP MALE
3	HEAT PUMP CONDENSATE DISPOSAL	—	—	—
4	PRESSURE RELIEF VALVE (PRV)	15MM	COPPER	COPPER PIPE OUTLET
5	CYLINDER HEAT PUMP FLOW	28MM	BRASS	COMPRESSION
6	CYLINDER HEAT PUMP RETURN	28MM	BRASS	COMPRESSION
7	ZONE 1 FLOW	28MM	BRASS	COMPRESSION
8	ZONE 1 RETURN	28MM	BRASS	COMPRESSION
9	ZONE 2 FLOW	28MM	BRASS	COMPRESSION
10	ZONE 2 RETURN	28MM	BRASS	COMPRESSION

Figure 3. Logic Air + Two Zone Pre-Plumbed Cylinder with Integrated Buffer



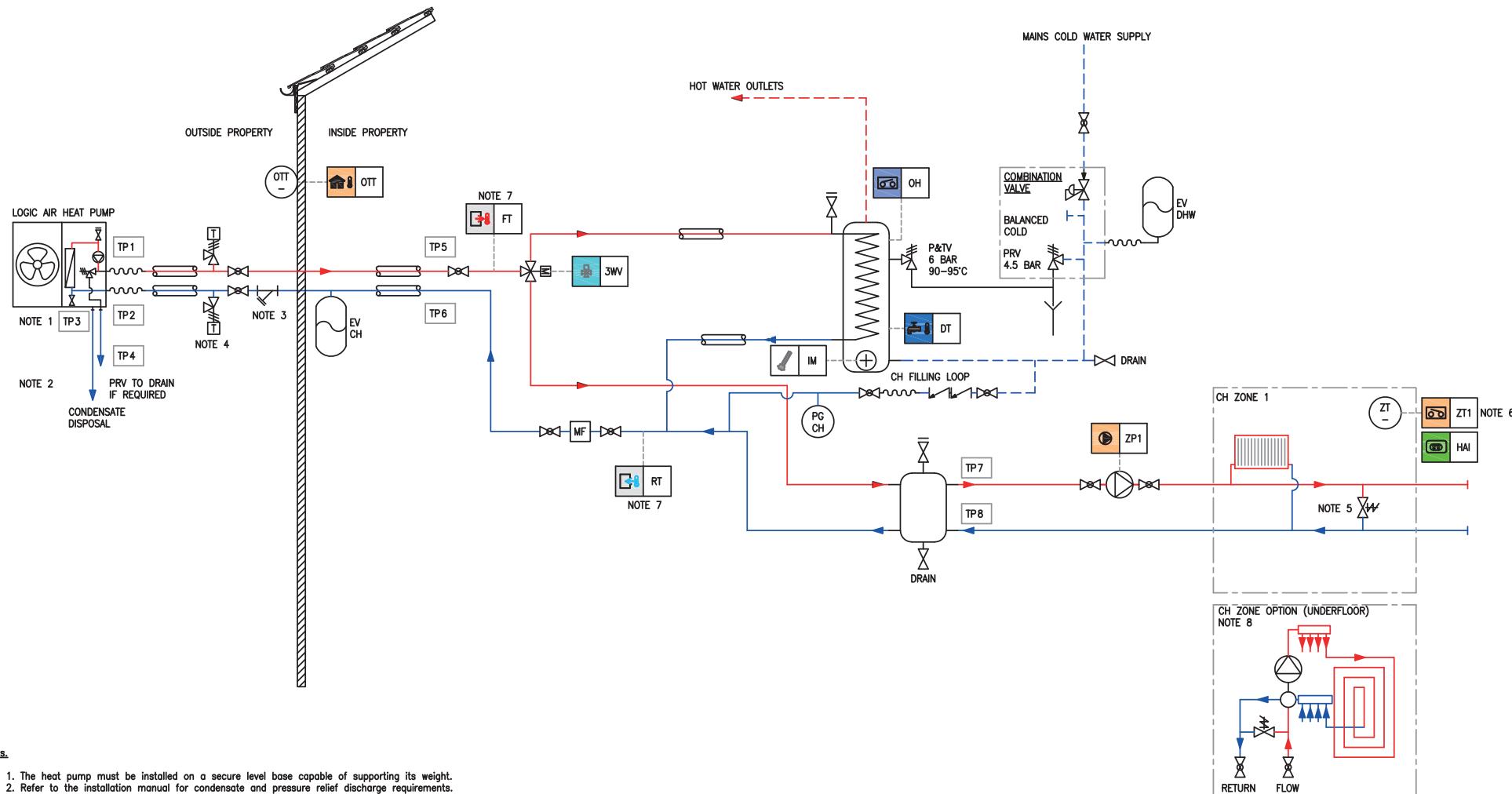
CONNECTION POINT LIST				
TP No	DESCRIPTION	SIZE	MATERIAL	TYPE
1	HEAT PUMP FLOW	1" BSP	BRASS	BSP MALE
2	HEAT PUMP RETURN	1" BSP	BRASS	BSP MALE
3	HEAT PUMP CONDENSATE DISPOSAL	—	—	—
4	PRESSURE RELIEF VALVE (PRV)	15MM	COPPER	COPPER PIPE OUTLET
5	CYLINDER HEAT PUMP FLOW	28MM	BRASS	COMPRESSION
6	CYLINDER HEAT PUMP RETURN	28MM	BRASS	COMPRESSION
7	ZONE 1 FLOW	28MM	BRASS	COMPRESSION
8	ZONE 1 RETURN	28MM	BRASS	COMPRESSION

Figure 4. Logic Air + Single Zone Pre-Plumbed Cylinder



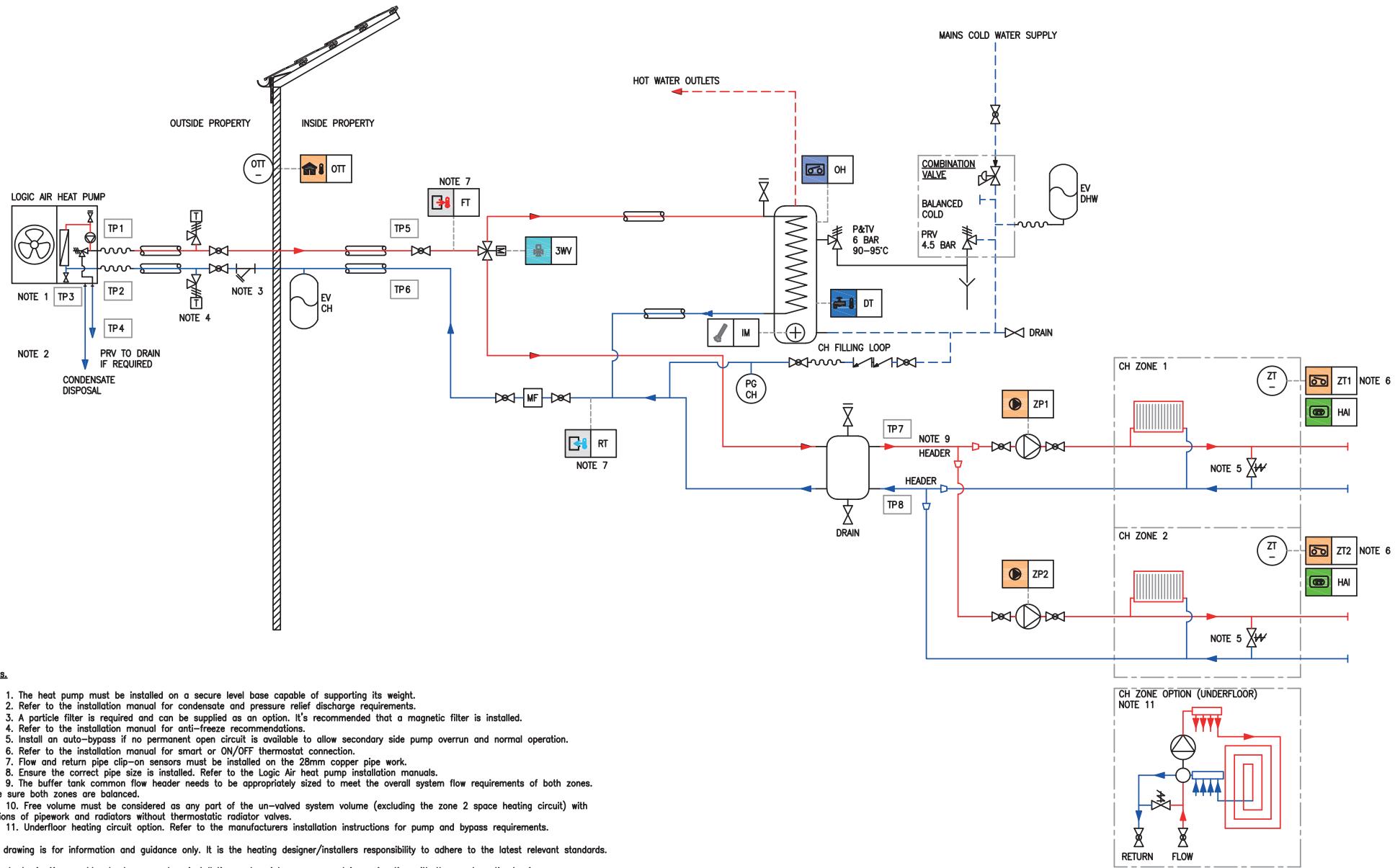
CONNECTION POINT LIST				
TP No	DESCRIPTION	SIZE	MATERIAL	TYPE
1	HEAT PUMP FLOW	1" BSP	BRASS	BSP MALE
2	HEAT PUMP RETURN	1" BSP	BRASS	BSP MALE
3	HEAT PUMP CONDENSATE DISPOSAL	—	—	—
4	PRESSURE RELIEF VALVE (PRV)	15MM	COPPER	COPPER PIPE OUTLET
5	HEAT PUMP FLOW	28MM	BRASS	COMPRESSION
6	HEAT PUMP RETURN	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



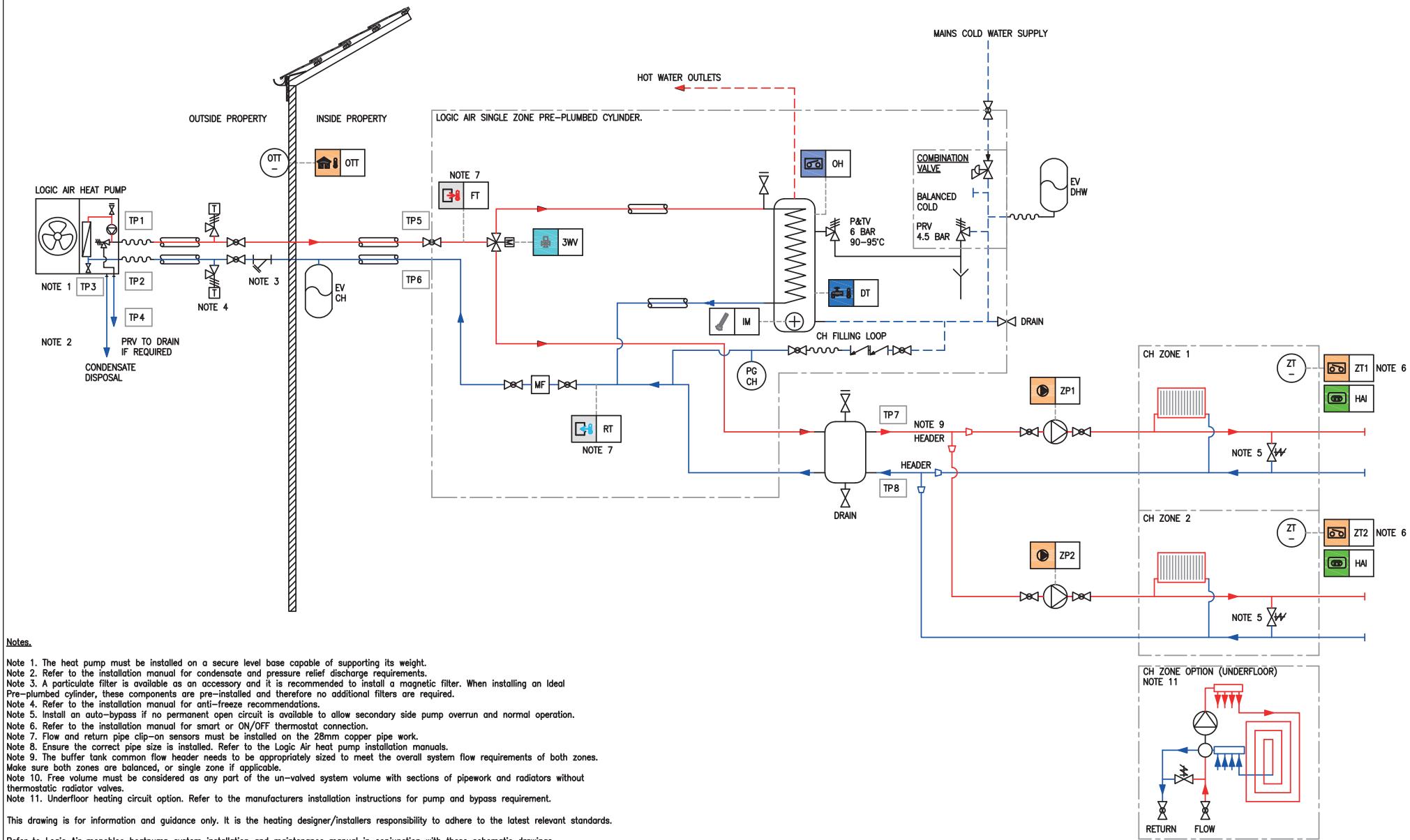
CONNECTION POINT LIST				
TP No	DESCRIPTION	SIZE	MATERIAL	TYPE
1	HEAT PUMP FLOW	1" BSP	BRASS	BSP MALE
2	HEAT PUMP RETURN	1" BSP	BRASS	BSP MALE
3	HEAT PUMP CONDENSATE DISPOSAL	—	—	—
4	PRESSURE RELIEF VALVE (PRV)	15MM	COPPER	COPPER PIPE OUTLET
5	HEAT PUMP FLOW	28MM	BRASS	COMPRESSION
6	HEAT PUMP RETURN	28MM	BRASS	COMPRESSION
7	ZONE FLOWS	28MM	BRASS	COMPRESSION
8	ZONE RETURNS	28MM	BRASS	COMPRESSION

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



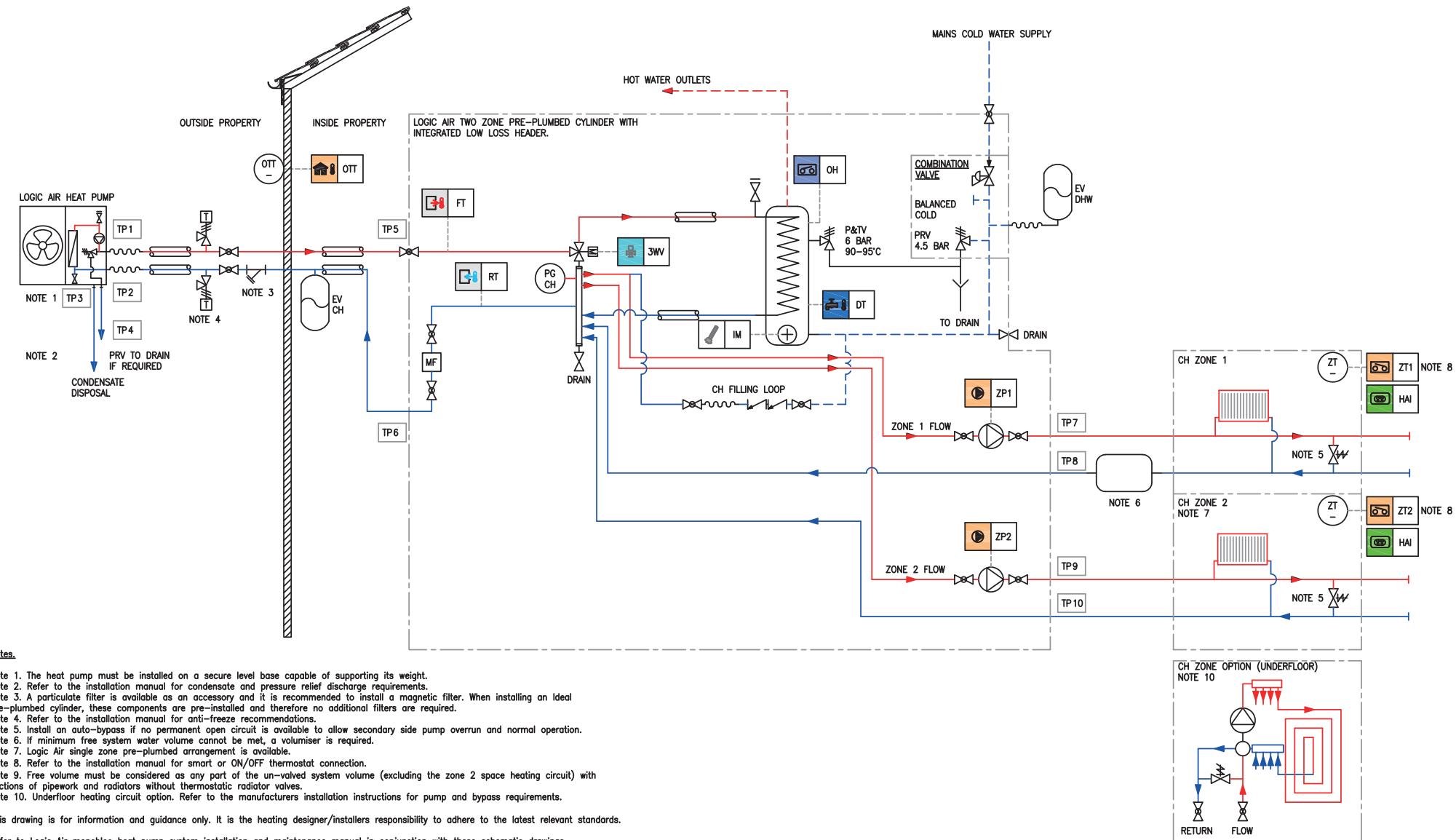
CONNECTION POINT LIST				
TP No	DESCRIPTION	SIZE	MATERIAL	TYPE
1	HEAT PUMP FLOW	1" BSP	BRASS	BSP MALE
2	HEAT PUMP RETURN	1" BSP	BRASS	BSP MALE
3	HEAT PUMP CONDENSATE DISPOSAL	—	—	—
4	PRESSURE RELIEF VALVE (PRV)	15MM	COPPER	COPPER PIPE OUTLET
5	HEAT PUMP FLOW	28MM	BRASS	COMPRESSION
6	HEAT PUMP RETURN	28MM	BRASS	COMPRESSION
7	ZONE FLOWS	28MM	BRASS	COMPRESSION
8	ZONE RETURNS	28MM	BRASS	COMPRESSION

Figure 7. Logic Air + Single Zone Pre-Plumbed Cylinder + External Buffer with Two Zones



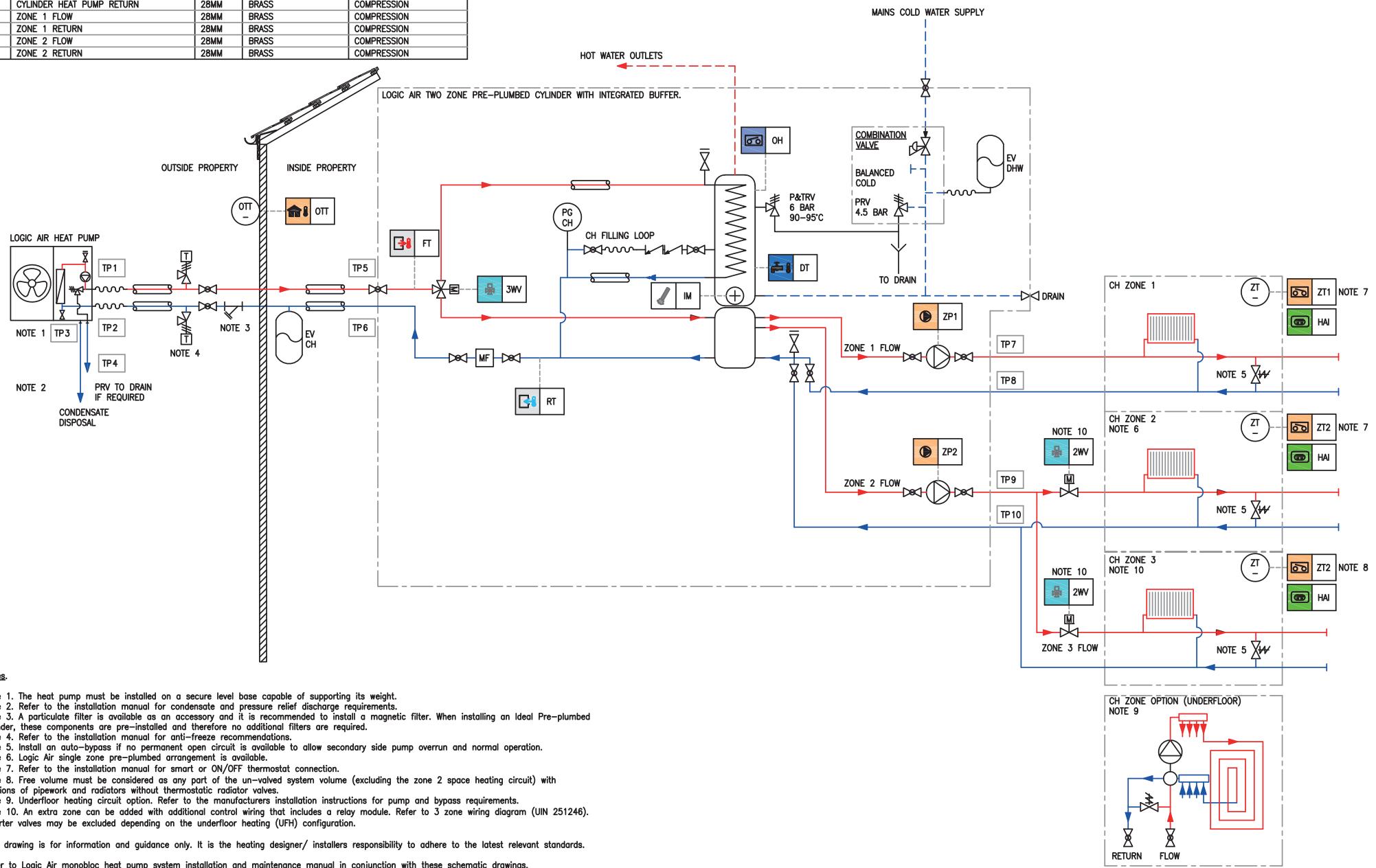
CONNECTION POINT LIST				
TP No	DESCRIPTION	SIZE	MATERIAL	TYPE
1	HEAT PUMP FLOW	1" BSP	BRASS	BSP MALE
2	HEAT PUMP RETURN	1" BSP	BRASS	BSP MALE
3	HEAT PUMP CONDENSATE DISPOSAL	—	—	—
4	PRESSURE RELIEF VALVE (PRV)	15MM	COPPER	COPPER PIPE OUTLET
5	CYLINDER HEAT PUMP FLOW	28MM	BRASS	COMPRESSION
6	CYLINDER HEAT PUMP RETURN	28MM	BRASS	COMPRESSION
7	ZONE 1 FLOW	28MM	BRASS	COMPRESSION
8	ZONE 1 RETURN	28MM	BRASS	COMPRESSION
9	ZONE 2 FLOW	28MM	BRASS	COMPRESSION
10	ZONE 2 RETURN	28MM	BRASS	COMPRESSION

Figure 8. Logic Air + Two Zone Pre-Plumbed Cylinder with Integrated Low Loss Header



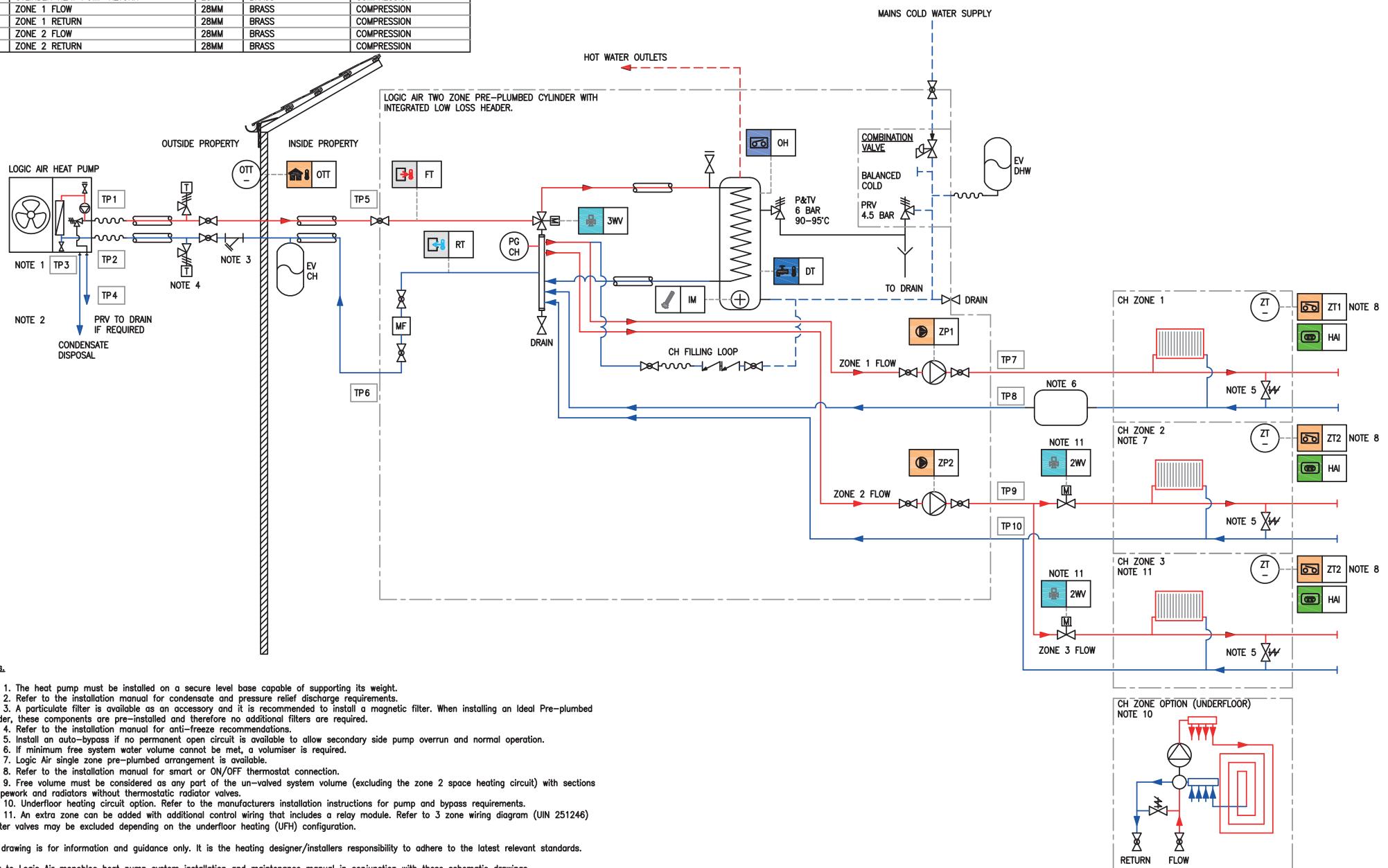
CONNECTION POINT LIST				
TP No	DESCRIPTION	SIZE	MATERIAL	TYPE
1	HEAT PUMP FLOW	1" BSP	BRASS	BSP MALE
2	HEAT PUMP RETURN	1" BSP	BRASS	BSP MALE
3	HEAT PUMP CONDENSATE DISPOSAL	—	—	—
4	PRESSURE RELIEF VALVE (PRV)	15MM	COPPER	COPPER PIPE OUTLET
5	CYLINDER HEAT PUMP FLOW	28MM	BRASS	COMPRESSION
6	CYLINDER HEAT PUMP RETURN	28MM	BRASS	COMPRESSION
7	ZONE 1 FLOW	28MM	BRASS	COMPRESSION
8	ZONE 1 RETURN	28MM	BRASS	COMPRESSION
9	ZONE 2 FLOW	28MM	BRASS	COMPRESSION
10	ZONE 2 RETURN	28MM	BRASS	COMPRESSION

Figure 9. Logic Air Three Zone + Two Zone Pre-Plumbed Cylinder with Integrated Buffer (Note, requires additional 3rd party electrical wiring for a 3rd zone).



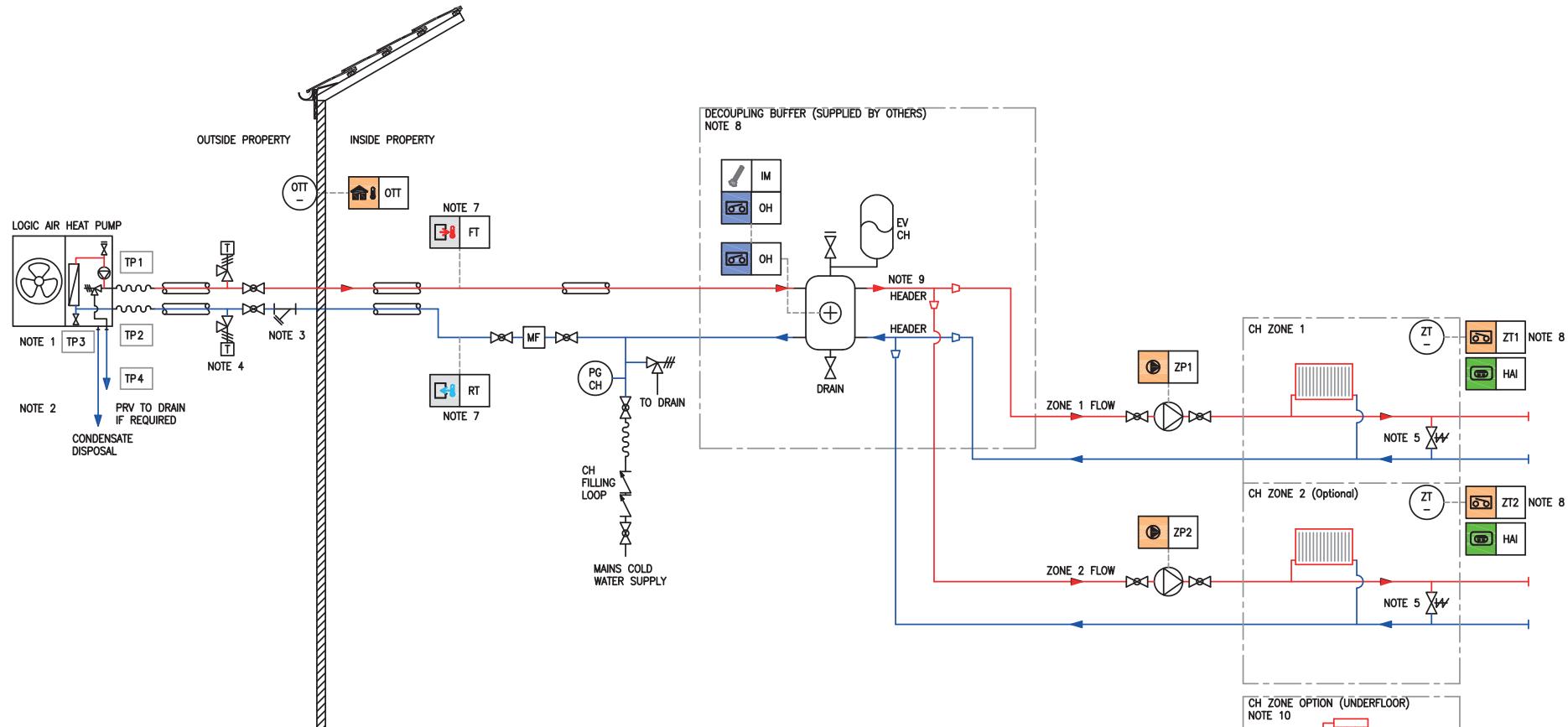
CONNECTION POINT LIST			
TP No	DESCRIPTION	SIZE	MATERIAL
1	HEAT PUMP FLOW	1" BSP	BRASS
2	HEAT PUMP RETURN	1" BSP	BRASS
3	HEAT PUMP CONDENSATE DISPOSAL	—	—
4	PRESSURE RELIEF VALVE (PRV)	15MM	COPPER
5	CYLINDER HEAT PUMP FLOW	28MM	BRASS
6	CYLINDER HEAT PUMP RETURN	28MM	BRASS
7	ZONE 1 FLOW	28MM	BRASS
8	ZONE 1 RETURN	28MM	BRASS
9	ZONE 2 FLOW	28MM	BRASS
10	ZONE 2 RETURN	28MM	BRASS

Figure 10. Logic Air Three Zone + Two Zone Pre-Plumbed Cylinder with Integrated Low Loss Header (Note, requires additional 3rd party electrical wiring for a 3rd zone).



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

Figure 11. Logic Air + Decoupling Buffer for Heating Only with Two Zones

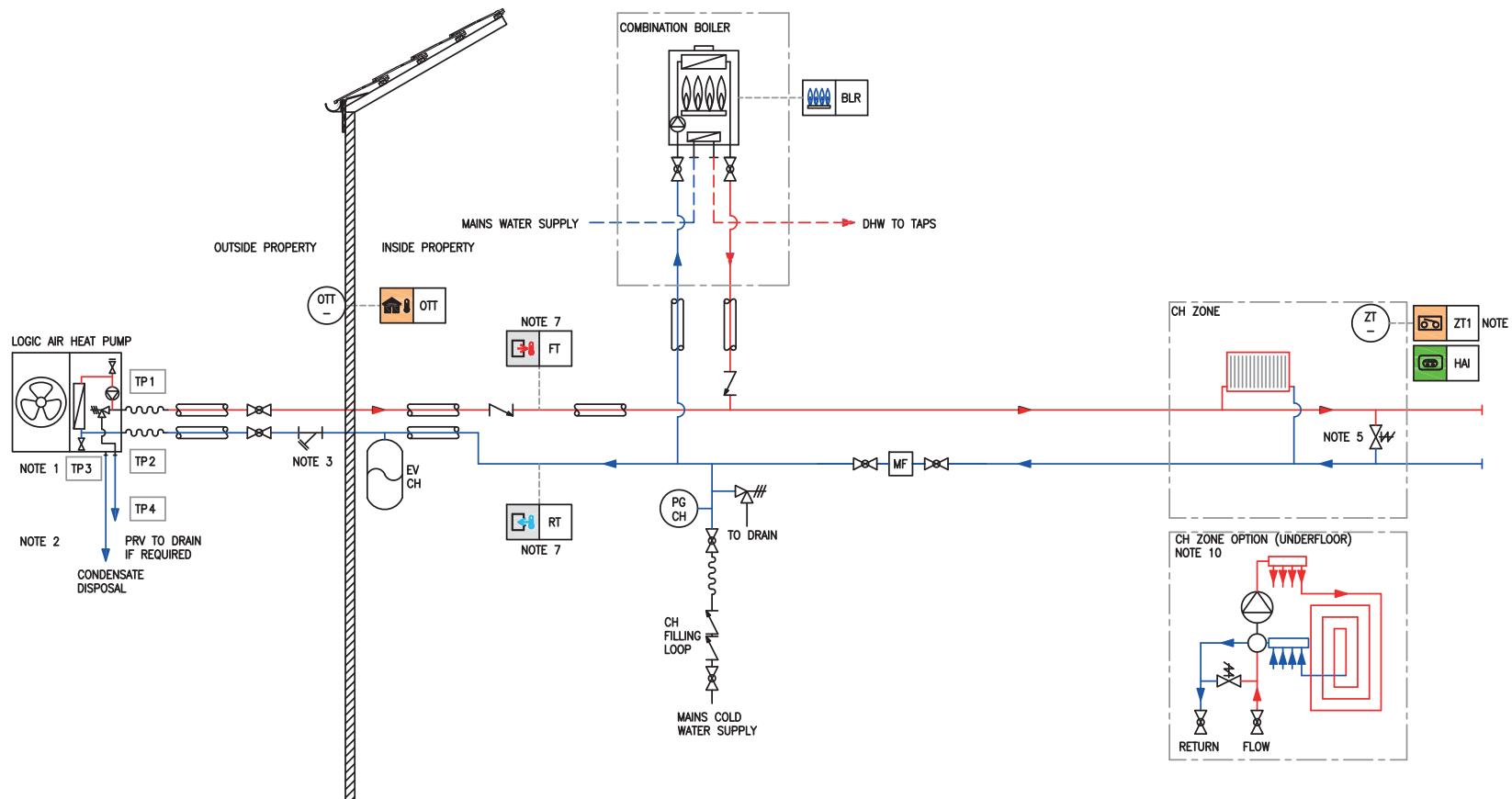


This drawing is for information and guidance only. It is the heating designer/ installers responsibility to adhere to the latest relevant standards.

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

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

Figure 12. Logic Air + Combi Boiler + Single Zone without Buffer (Bivalent System)



Notes.

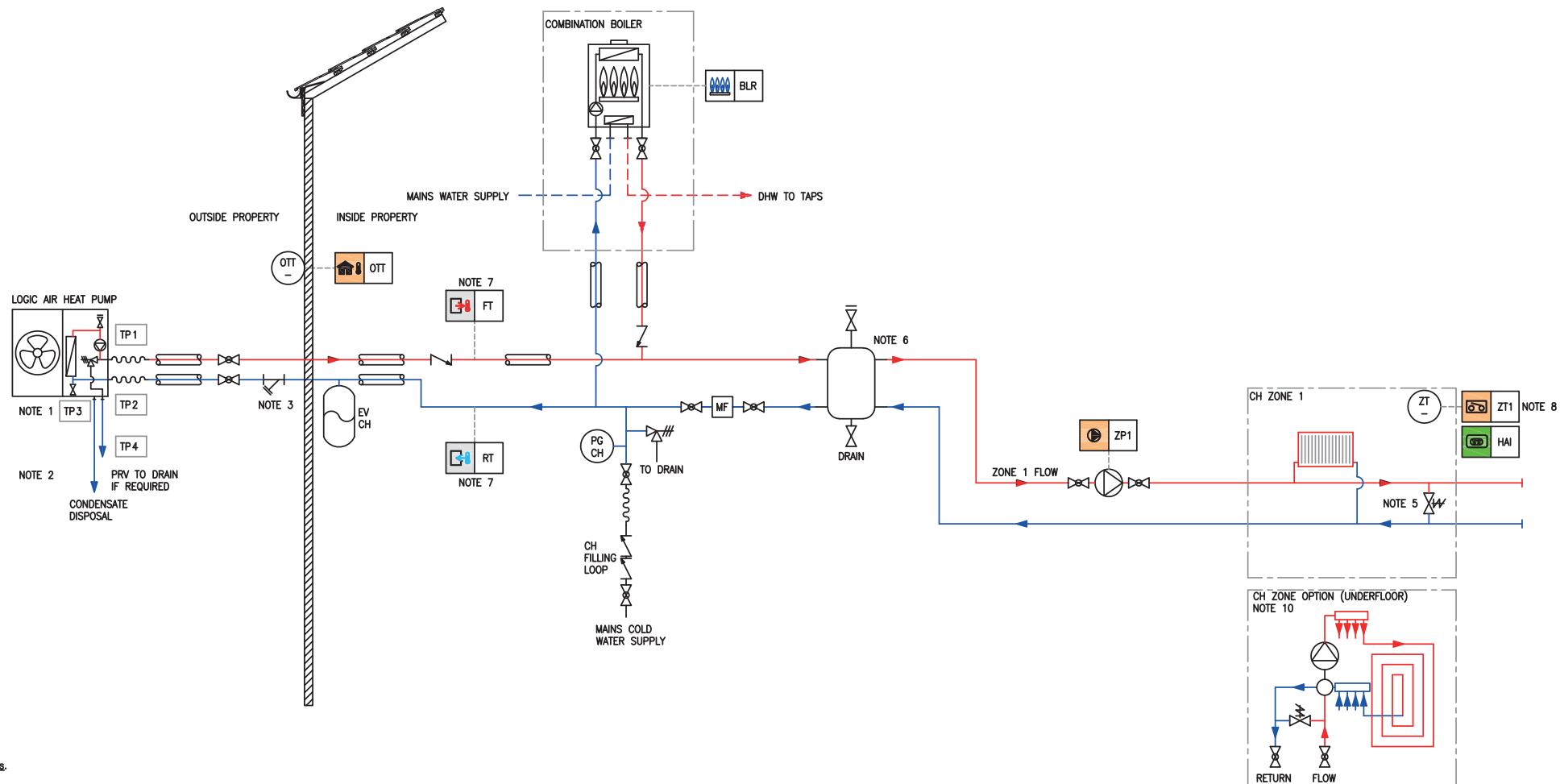
- Note 1. The heat pump must be installed on a secure level base capable of supporting its weight.
- Note 2. Refer to the installation manual for condensate and pressure relief discharge requirements.
- Note 3. A particulate filter is required and can be supplied as an option. A magnetic filter is recommended.
- 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. Boiler flow temperature should not be set above 50°C.
- 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.
- Note 10. Underfloor heating circuit option. Refer to the manufacturers installation instructions for pump and bypass requirements.

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

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

Figure 13. Logic Air + Combi Boiler + Buffer + Single Zone (Bivalent System)



Notes:

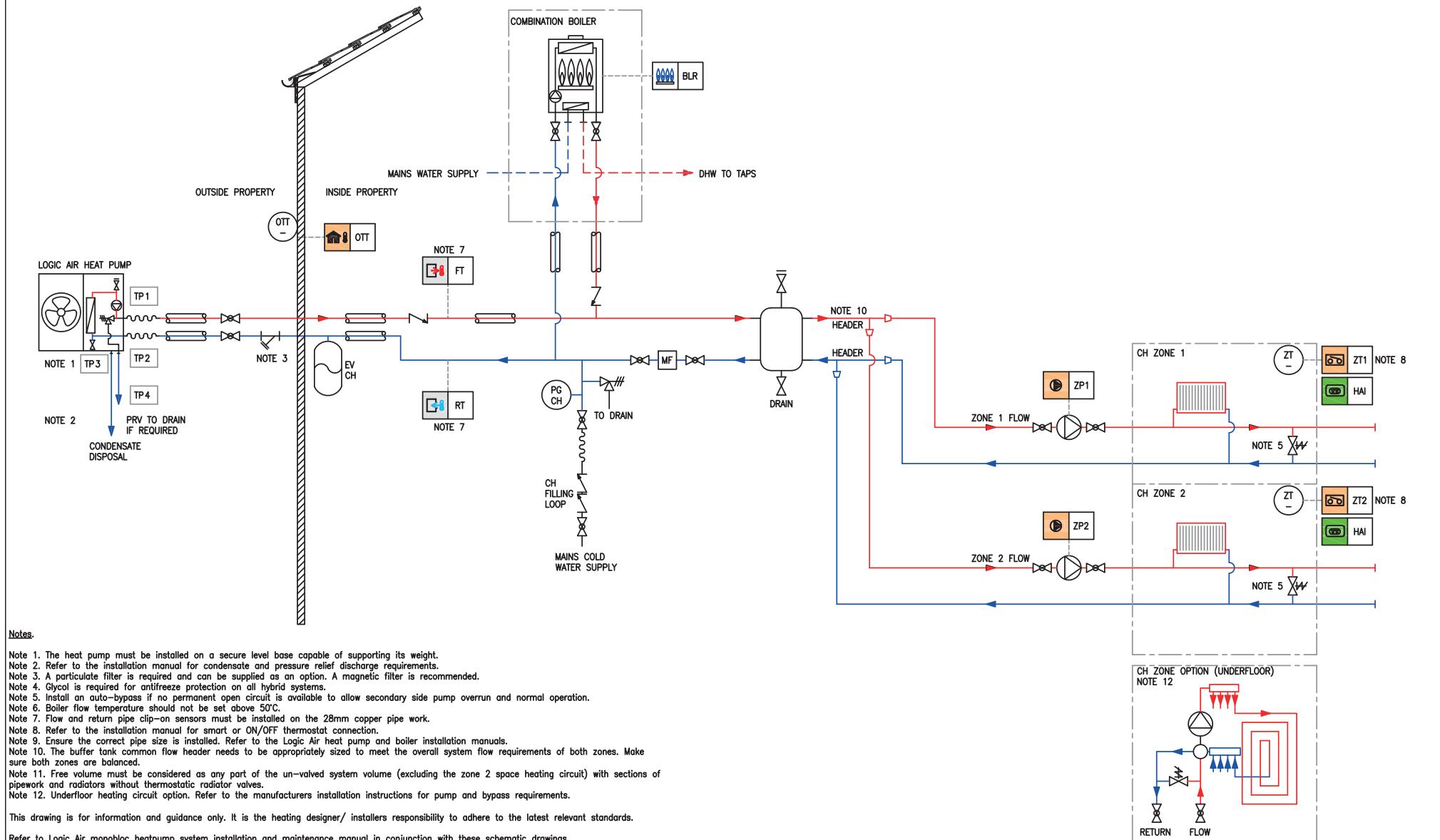
- Note 1. The heat pump must be installed on a secure level base capable of supporting its weight.
- Note 2. Refer to the installation manual for condensate and pressure relief discharge requirements.
- Note 3. A particulate filter is required and can be supplied as an option. A magnetic filter is recommended.
- 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. Boiler flow temperature should not be set above 50°C.
- 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.
- Note 10. Underfloor heating circuit option. Refer to the manufacturers installation instructions for pump and bypass requirements.

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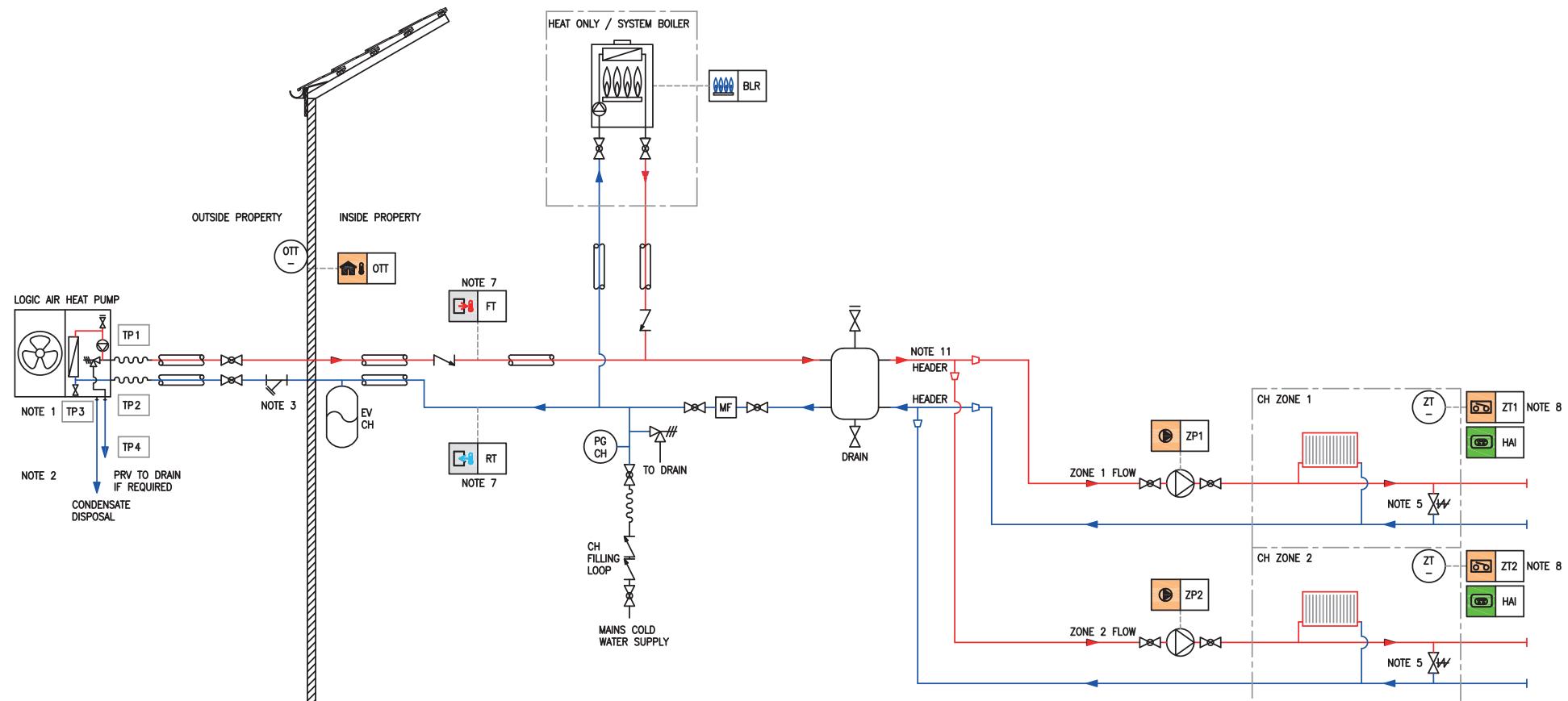
CONNECTION POINT LIST				
TP No	DESCRIPTION	SIZE	MATERIAL	TYPE
1	HEAT PUMP FLOW	1" BSP	BRASS	BSP MALE
2	HEAT PUMP RETURN	1" BSP	BRASS	BSP MALE
3	HEAT PUMP CONDENSATE DISPOSAL	—	—	—
4	PRESSURE RELIEF VALVE (PRV)	15MM	COPPER	COPPER PIPE OUTLET

Figure 14. Logic Air + Combi Boiler + Buffer + Two Zones (Bivalent System)



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

Figure 15. Logic Air + Heating Only + System Boiler + Buffer with Two Zones (Bivalent System)



Notes.

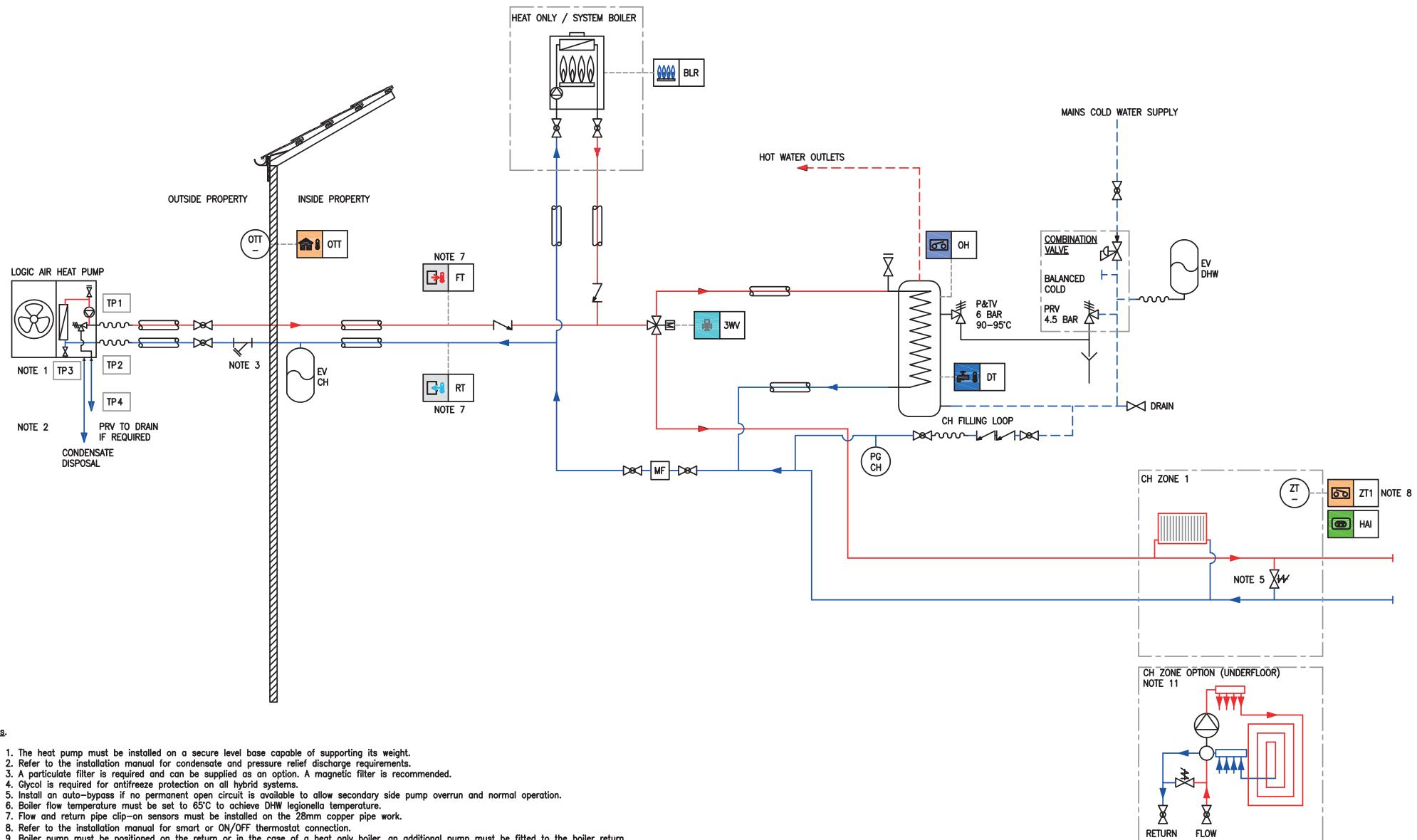
- Note 1. The heat pump must be installed on a secure level base capable of supporting its weight.
- Note 2. Refer to the installation manual for condensate and pressure relief discharge requirements.
- Note 3. A particulate filter is required and can be supplied as an option. A magnetic filter is recommended.
- 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. Boiler flow temperature should not be set above 50°C.
- 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. Boiler pump must be positioned on the return or in the case of a heat only boiler, an additional pump must be fitted to the boiler return.
- Note 10. Ensure the correct pipe size is installed. Refer to the Logic Air heat pump and boiler installation manuals.
- Note 11. The buffer tank common flow header needs to be appropriately sized to meet the overall system flow requirements of both zones. Make sure both zones are balanced.
- Note 12. Free volume must be considered as any part of the un-valved system volume (excluding the zone 2 space heating circuit) with sections of pipework and radiators without thermostatic radiator valves.
- Note 13. Underfloor heating circuit option. Refer to the manufacturers installation instructions for pump and bypass requirements.

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.

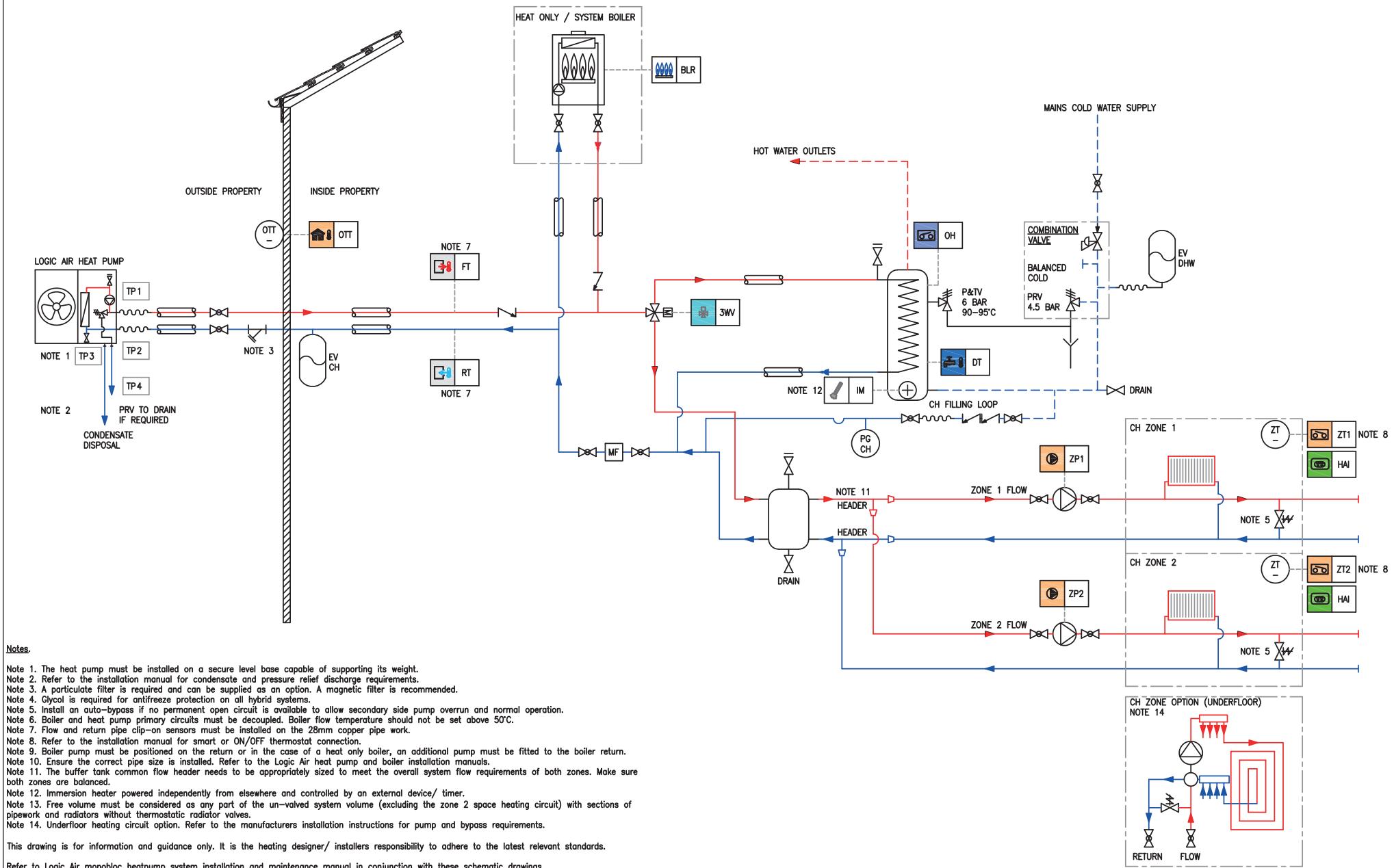
CONNECTION POINT LIST				
TP No	DESCRIPTION	SIZE	MATERIAL	TYPE
1	HEAT PUMP FLOW	1" BSP	BRASS	BSP MALE
2	HEAT PUMP RETURN	1" BSP	BRASS	BSP MALE
3	HEAT PUMP CONDENSATE DISPOSAL	—	—	—
4	PRESSURE RELIEF VALVE (PRV)	15MM	COPPER	COPPER PIPE OUTLET

Figure 16. Logic Air + Heat Only Boiler Backup + Single Zone



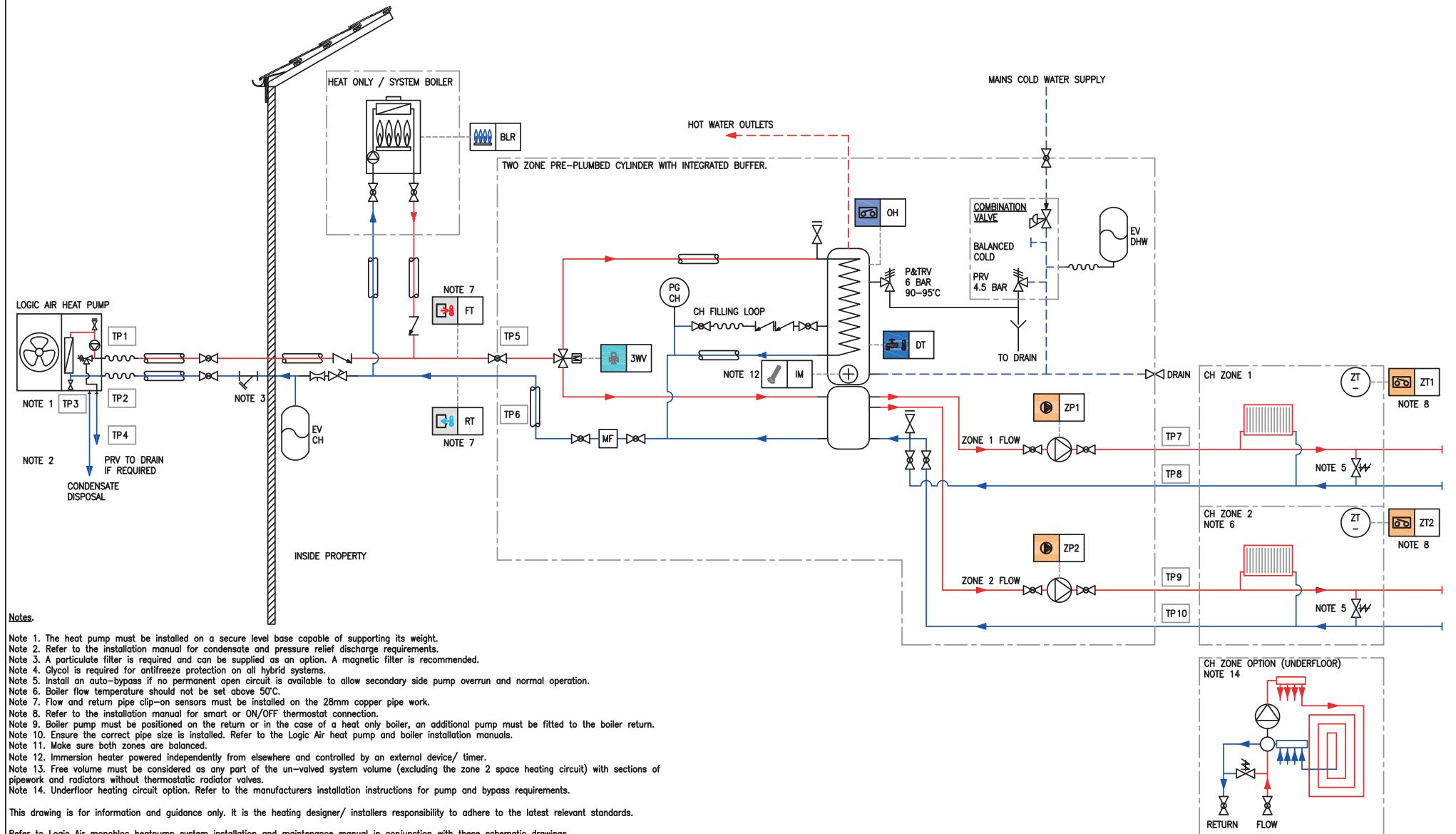
CONNECTION POINT LIST				
TP No	DESCRIPTION	SIZE	MATERIAL	TYPE
1	HEAT PUMP FLOW	1" BSP	BRASS	BSP MALE
2	HEAT PUMP RETURN	1" BSP	BRASS	BSP MALE
3	HEAT PUMP CONDENSATE DISPOSAL	-	-	-
4	PRESSURE RELIEF VALVE (PRV)	15MM	COPPER	COPPER PIPE OUTLET

Figure 17. Logic Air + Heat Only Boiler Backup + Buffer with Two Zones



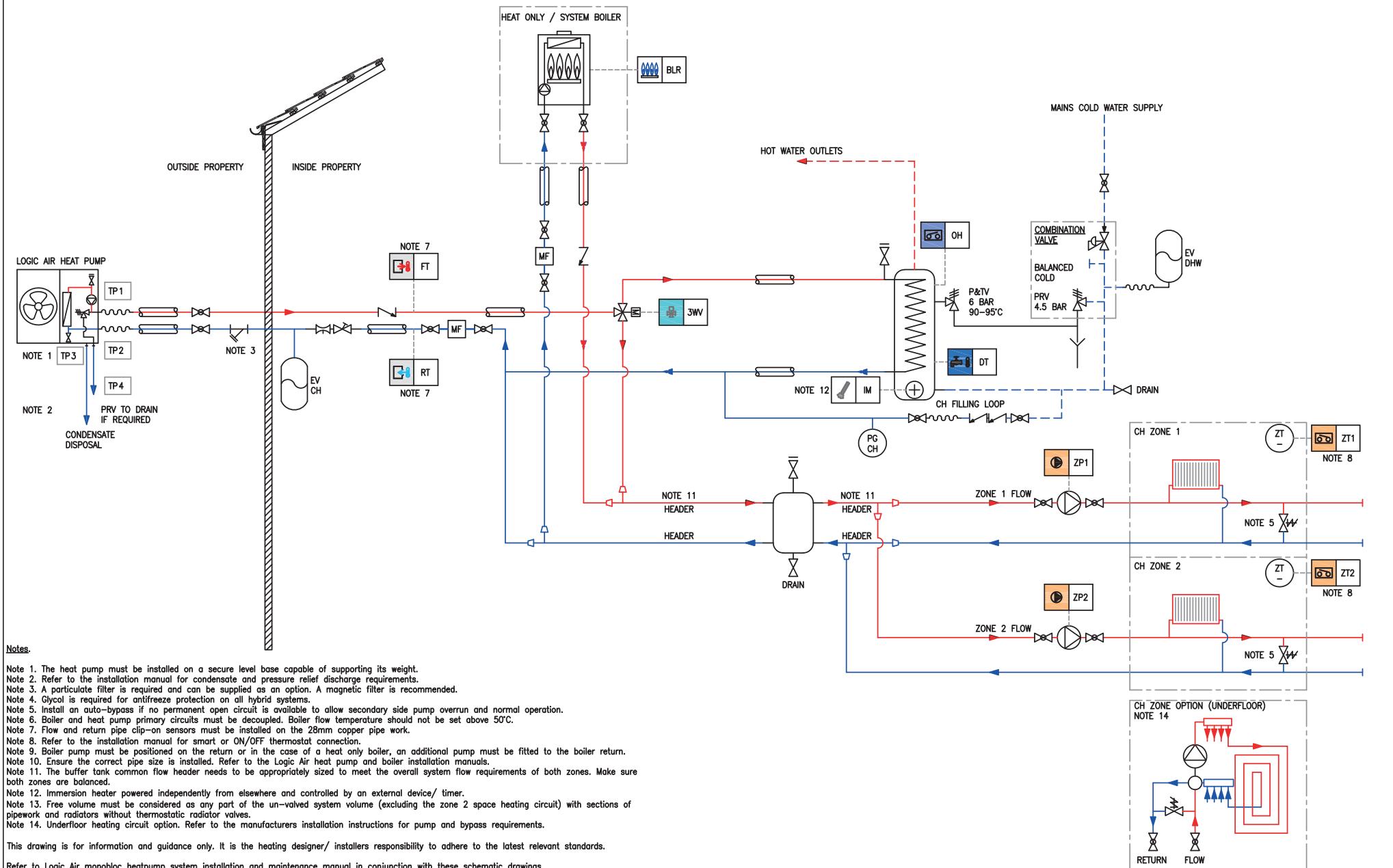
CONNECTION POINT LIST			
TP No	DESCRIPTION	SIZE	MATERIAL
1	HEAT PUMP FLOW	1" BSP	BRASS
2	HEAT PUMP RETURN	1" BSP	BRASS
3	HEAT PUMP CONDENSATE DISPOSAL	—	—
4	PRESSURE RELIEF VALVE (PRV)	15MM	COPPER
5	CYLINDER HEAT PUMP FLOW	28MM	BRASS
6	CYLINDER HEAT PUMP RETURN	28MM	BRASS
7	ZONE 1 FLOW	28MM	BRASS
8	ZONE 1 RETURN	28MM	BRASS
9	ZONE 2 FLOW	28MM	BRASS
10	ZONE 2 RETURN	28MM	BRASS

Figure 18. Logic Air + System Boiler + Two Zone Pre-Plumbed Cylinder with Integrated Buffer



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

Figure 19. Hydraulically Separated Logic Air + System Boiler + DHW + Two Zones (Bivalent System)



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.

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idealheating.com

The logo features the word 'ideal' in a bold, lowercase, sans-serif font. Below it, the word 'HEATING' is written in a smaller, uppercase, sans-serif font. A thin horizontal line is positioned under the 'ideal' text.