

WARMFLOW Zeno

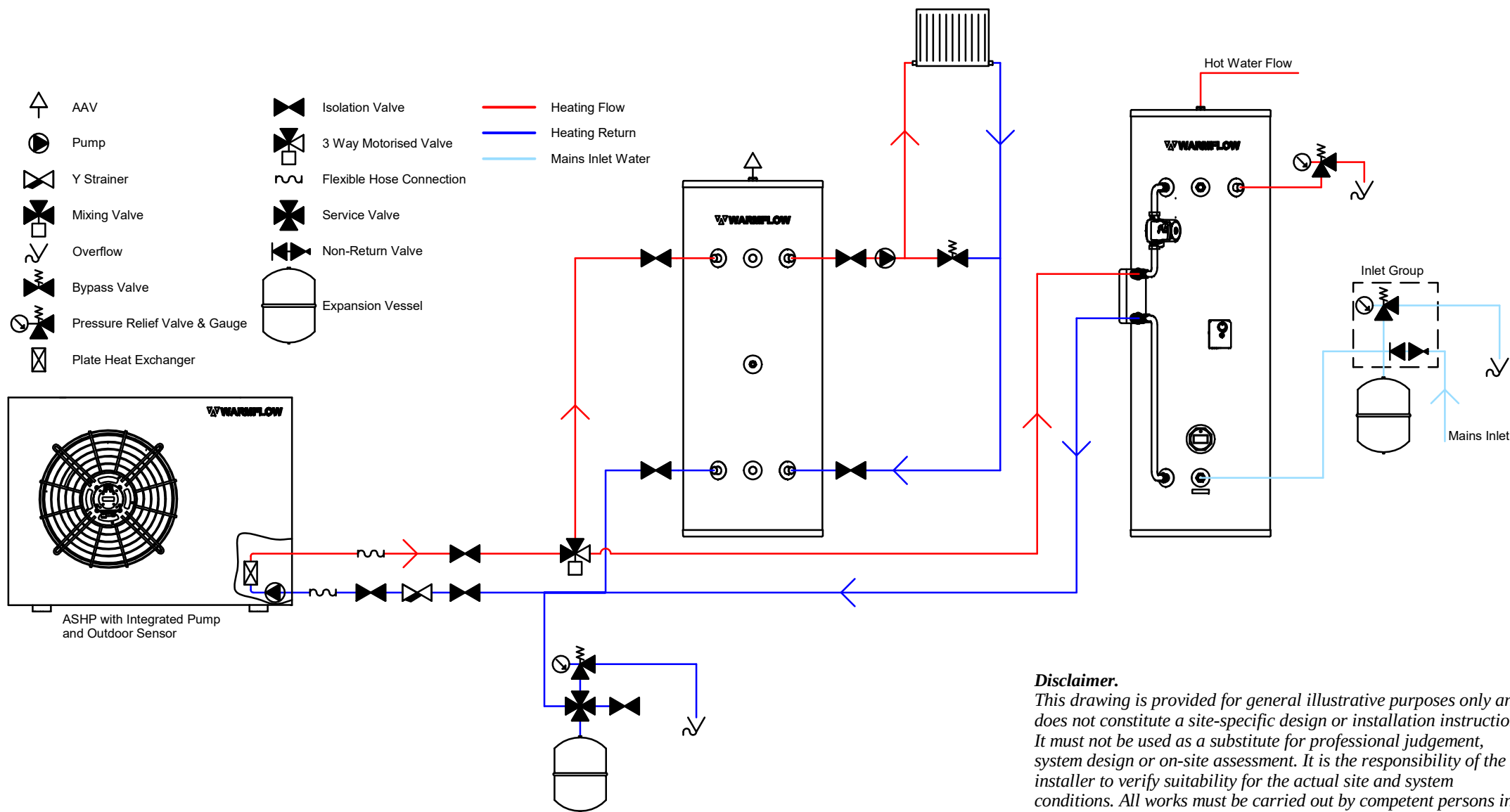
AIR SOURCE HEAT PUMP

ZENO R290 AIR SOURCE HEAT PUMP INSTALLATION SCHEMATICS

www.warmflow.co.uk



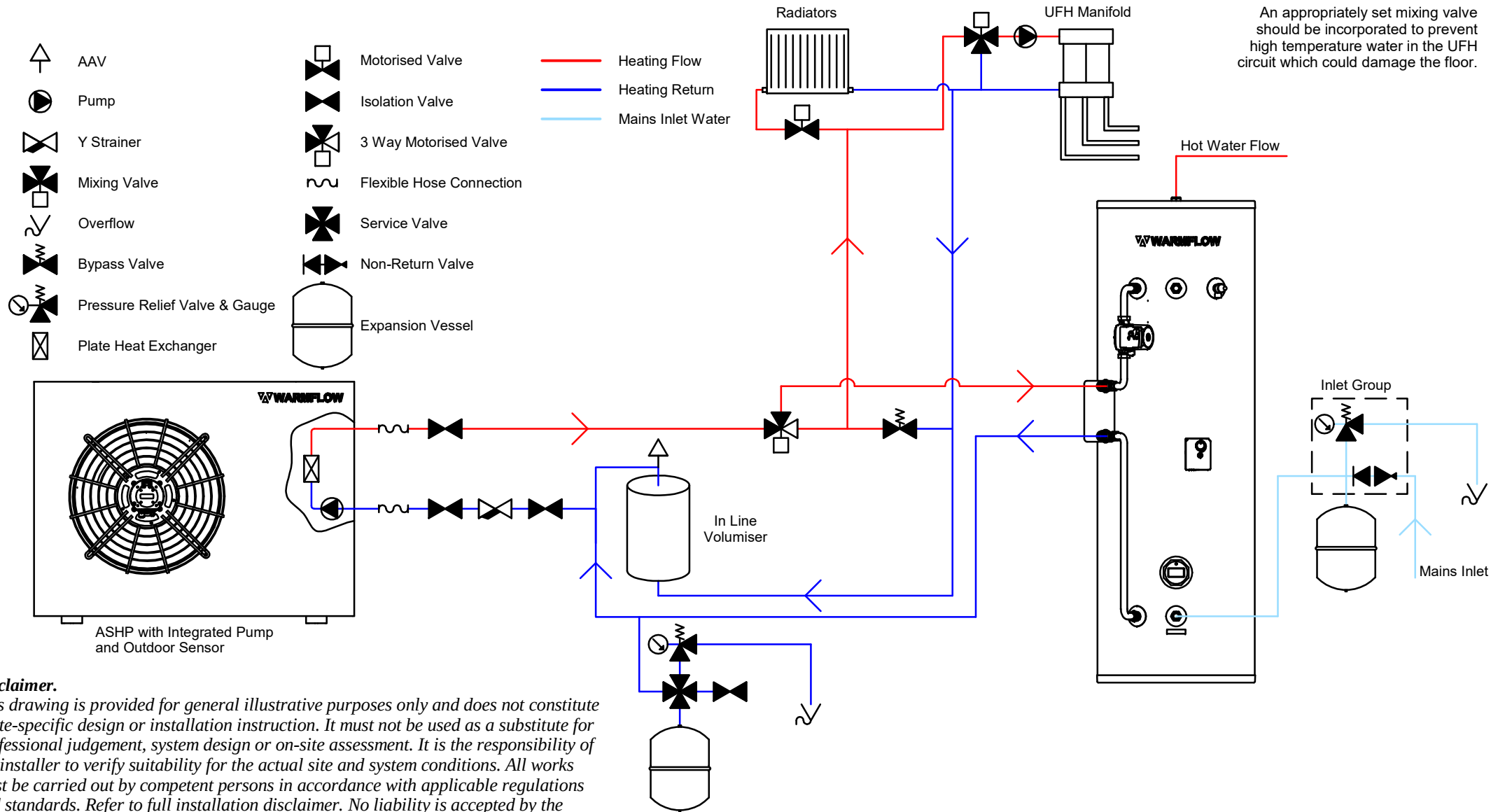
1 x ASHP + 1 x CYLINDER + 1 x BUFFER + RADIATORS - SCHEMATIC



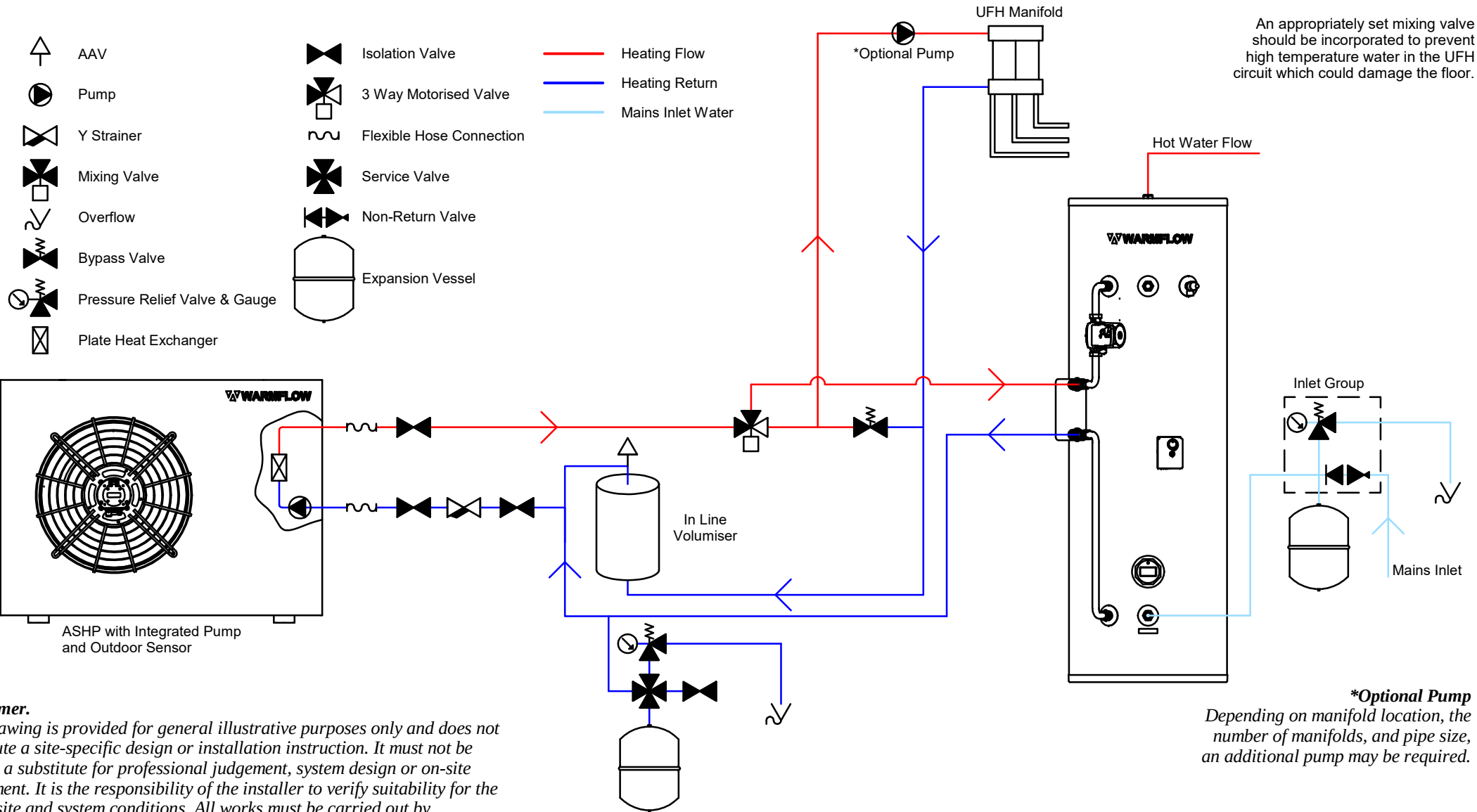
Disclaimer.

This drawing is provided for general illustrative purposes only and does not constitute a site-specific design or installation instruction. It must not be used as a substitute for professional judgement, system design or on-site assessment. It is the responsibility of the installer to verify suitability for the actual site and system conditions. All works must be carried out by competent persons in accordance with applicable regulations and standards. Refer to full installation disclaimer. No liability is accepted by the manufacturer for any loss or damage arising from reliance on this drawing.

1 x ASHP + 1 x CYLINDER + 1 x VOLUMISER + RADIATORS + UFH - SCHEMATIC

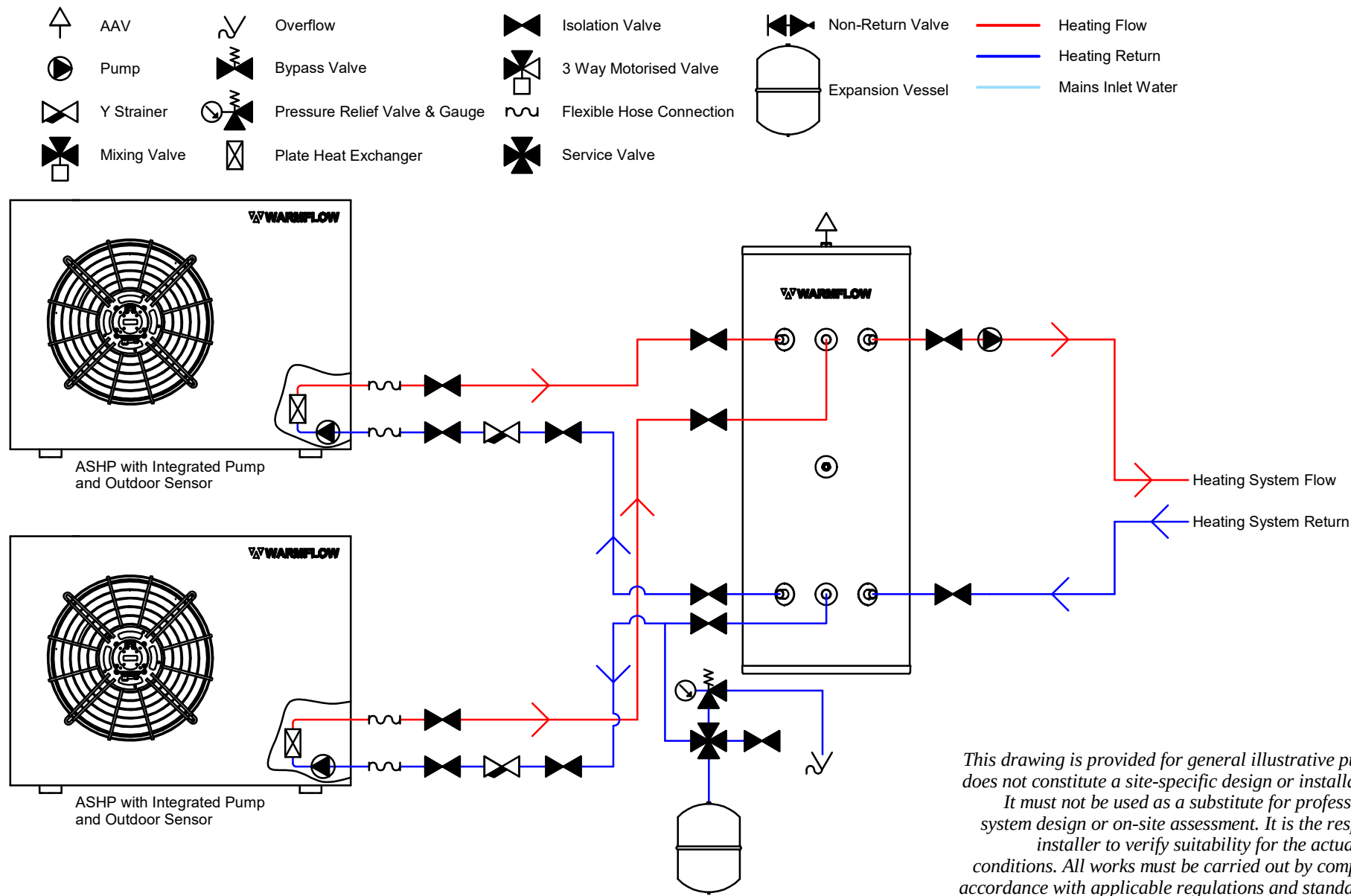


1 x ASHP + 1 x CYLINDER + 1 x VOLUMISER + UFH - SCHEMATIC



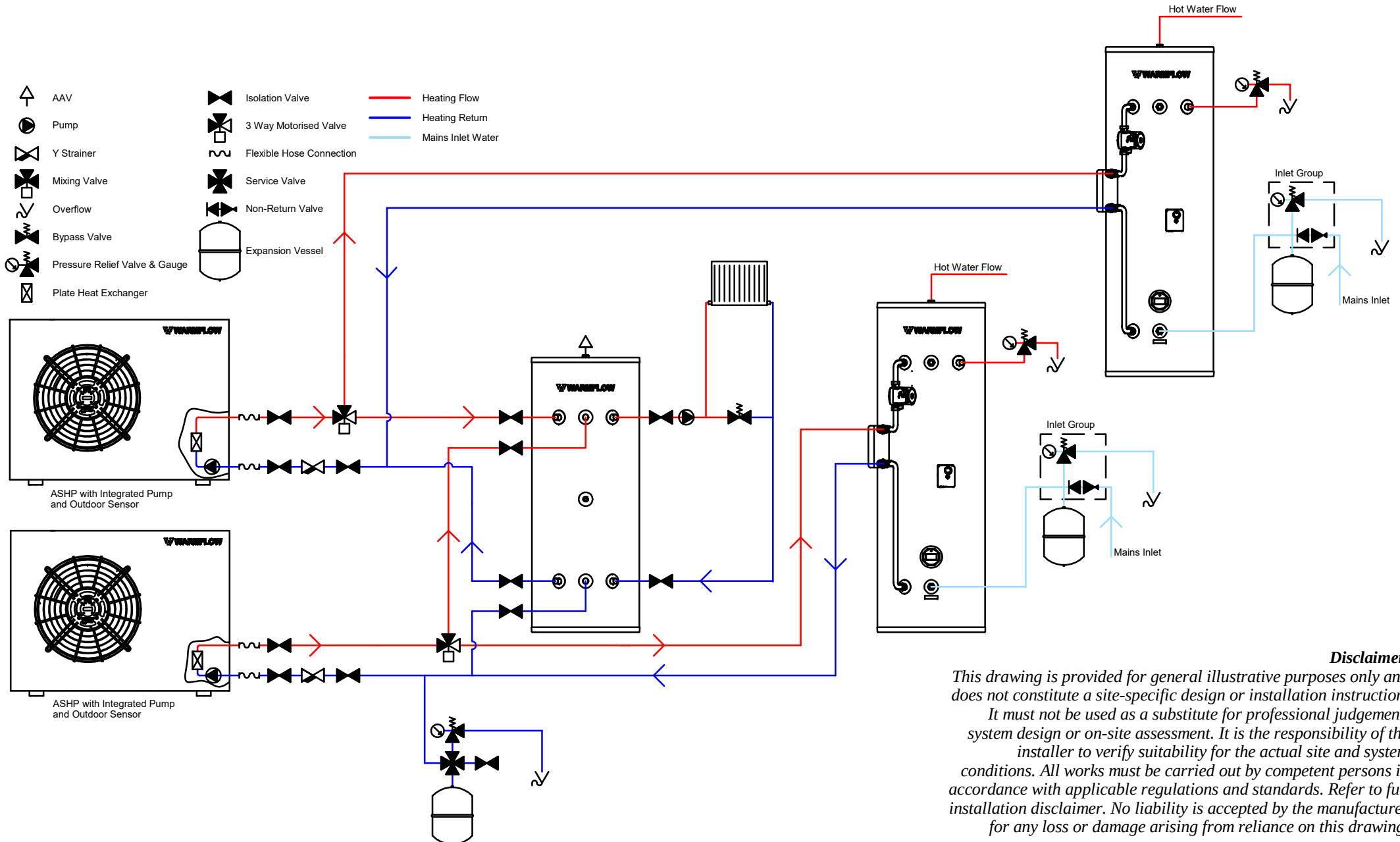
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2 x ASHP + 1 x BUFFER TANK + HEATING SYSTEM - SCHEMATIC



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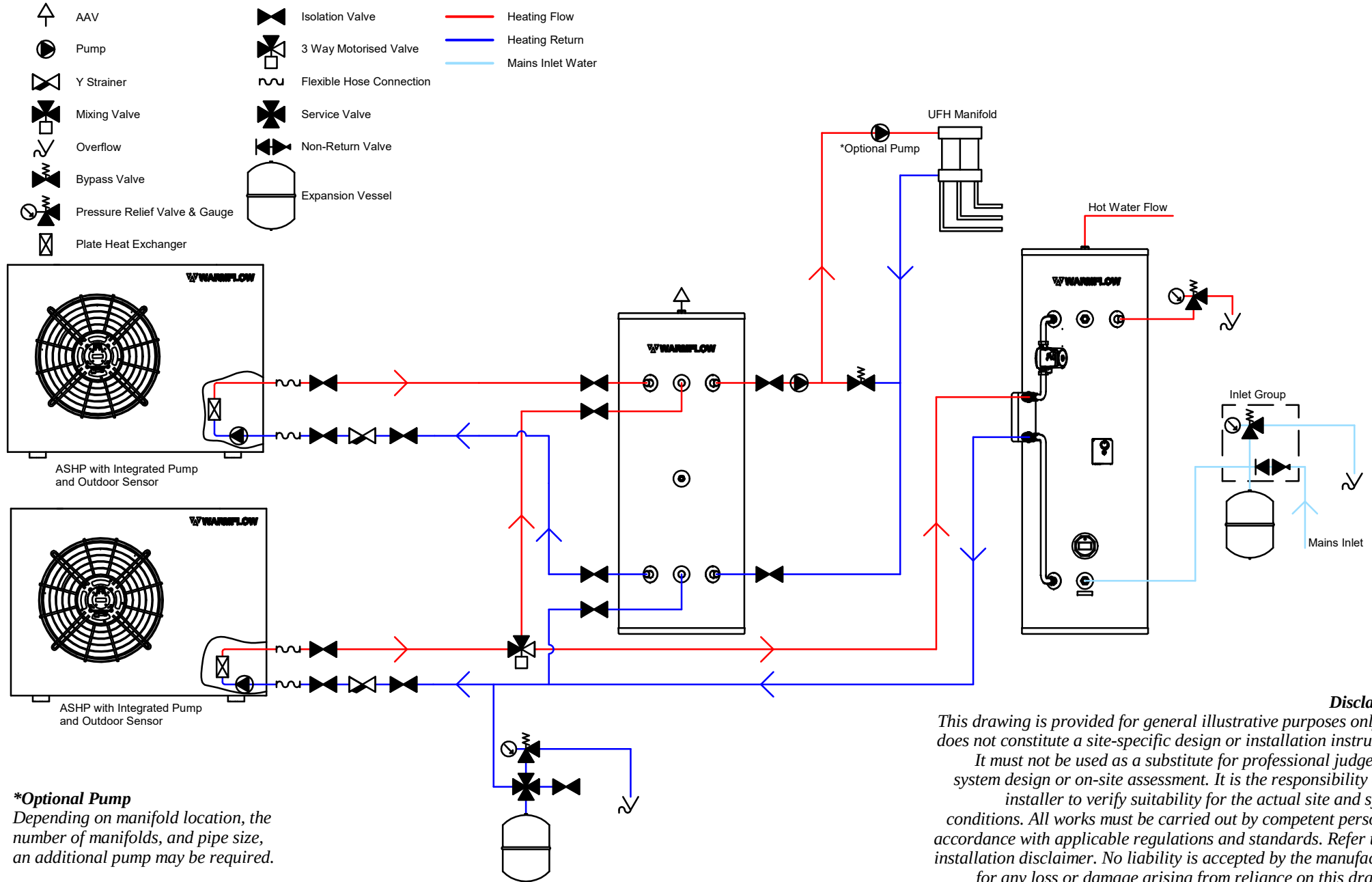
2 x ASHP + 2 x CYLINDER + 1 x BUFFER + RADIATORS - SCHEMATIC



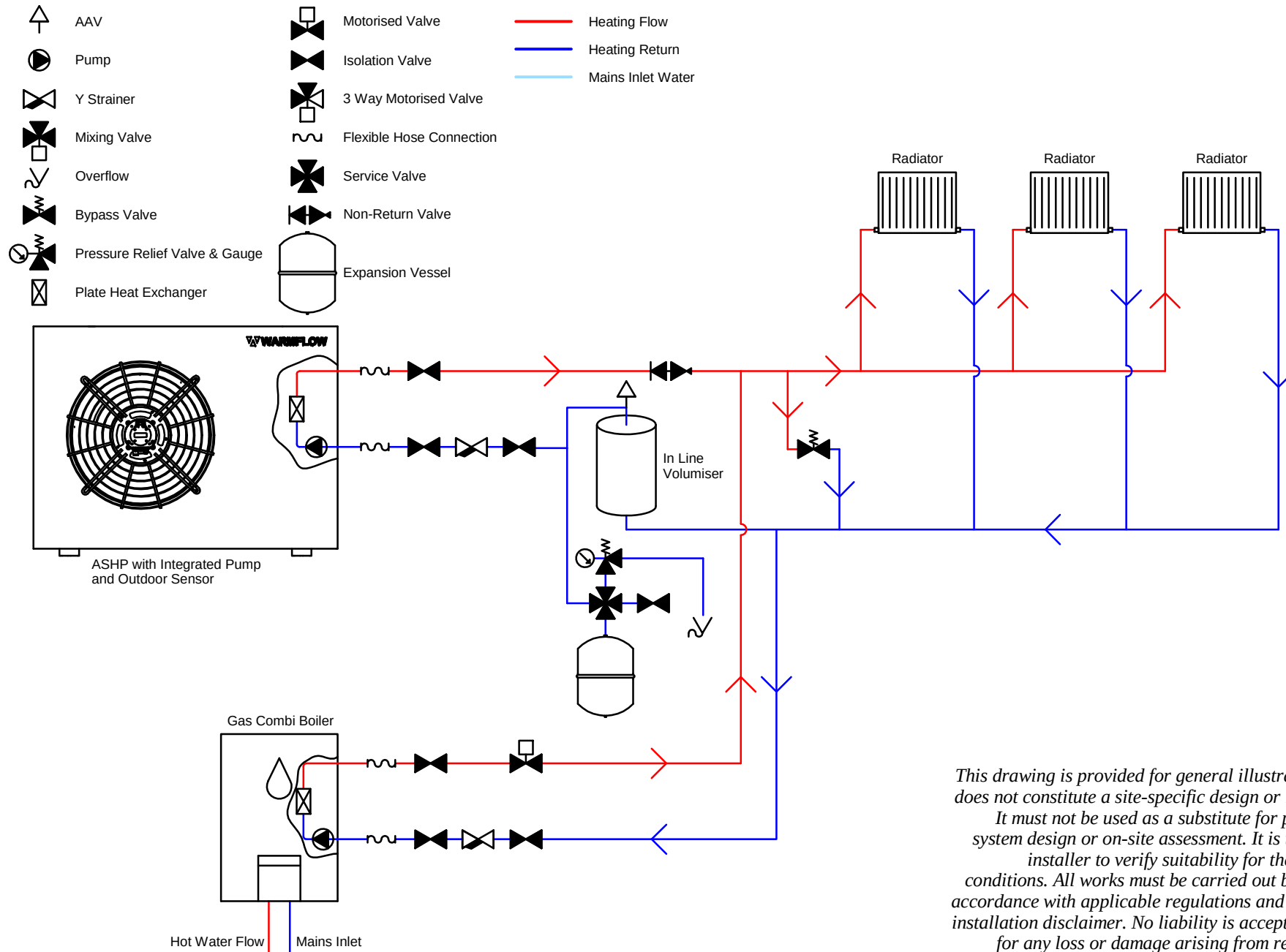
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2 x ASHP + 1 x CYLINDER + 1 x BUFFER + UFH - SCHEMATIC



1 x ASHP + 1 x GAS COMBI BOILER + 3 x RADIATORS - SCHEMATIC

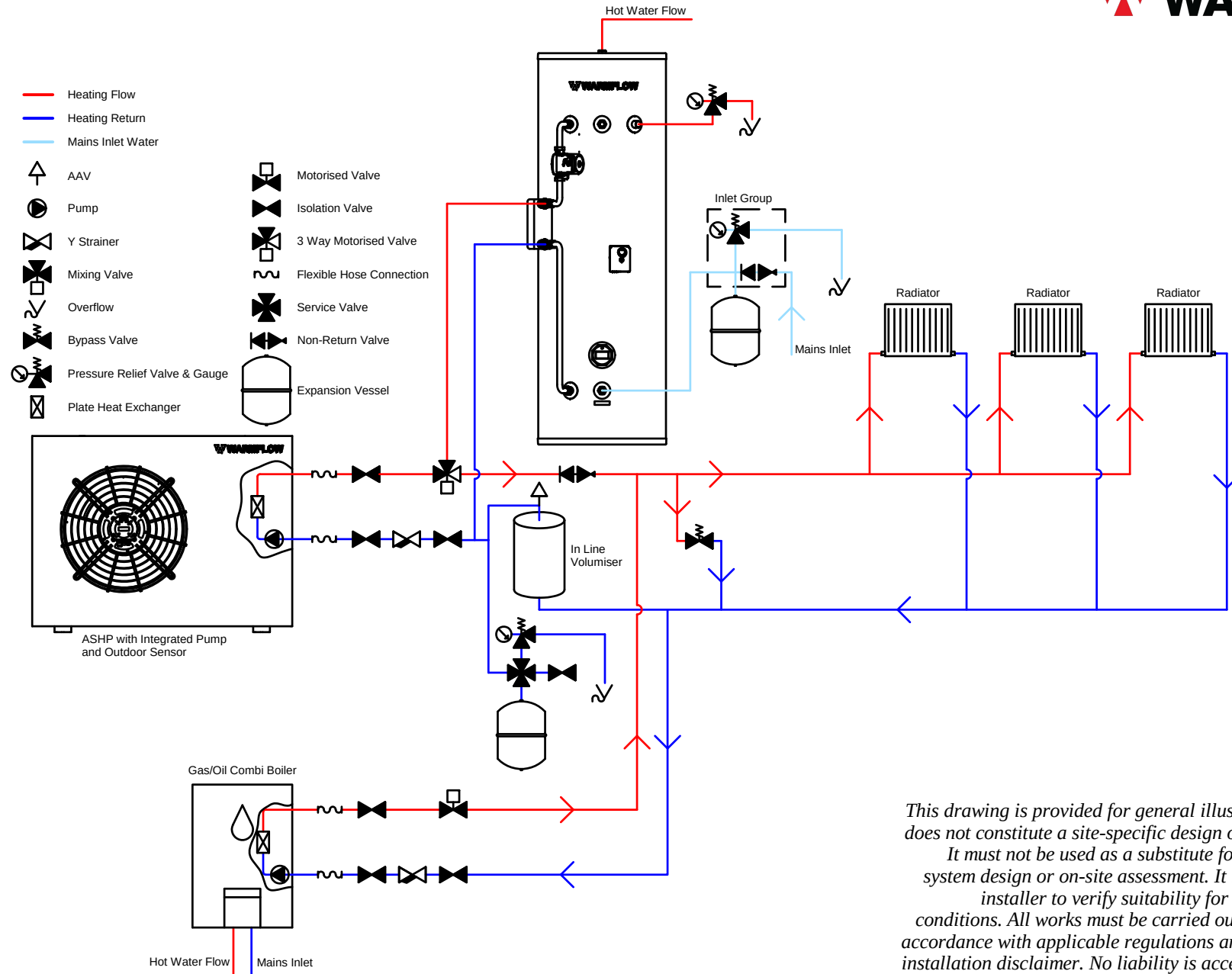


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1 x ASHP + 1 x GAS COMBI BOILER + 1 x CYLINDER + 3 x RADIATORS - SCHEMATIC



Disclaimer.

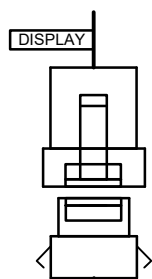
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AS0X-R290 - INSTALLER WIRING CENTRE CONNECTIONS

ASHP

12V = RED
GND = BLACK
RS485 A+ = WHITE
RS485 B- = YELLOW
SCREEN = GREEN/YELLOW



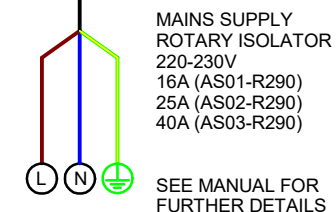
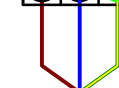
MASTER	ON/OFF	MODE	HEAT/COOL	DHW	ON/OFF	HEAT/COOL	ON/OFF	TT		BT		485A+	485A-
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭



4 CORE (0.75mm²) SCREENED
(BELDEN)
OR CAT 5/6 (DUCT GRADE)

TO WIRING CENTRE

L 230VAC	3 Way Valve 230VAC	N 230VAC	N 230VAC	Pump 230VAC	E-Heater 1 Live 230VAC	N 230VAC	N 230VAC	E-Heater 2 Live 230VAC	N 230VAC	DHW Electric Heater 230VAC
15	16	17	18	19	20	21	22	23	24	25



MAINS SUPPLY
ROTARY ISOLATOR
220-230V
16A (AS01-R290)
25A (AS02-R290)
40A (AS03-R290)

SEE MANUAL FOR
FURTHER DETAILS

WIRING CENTRE

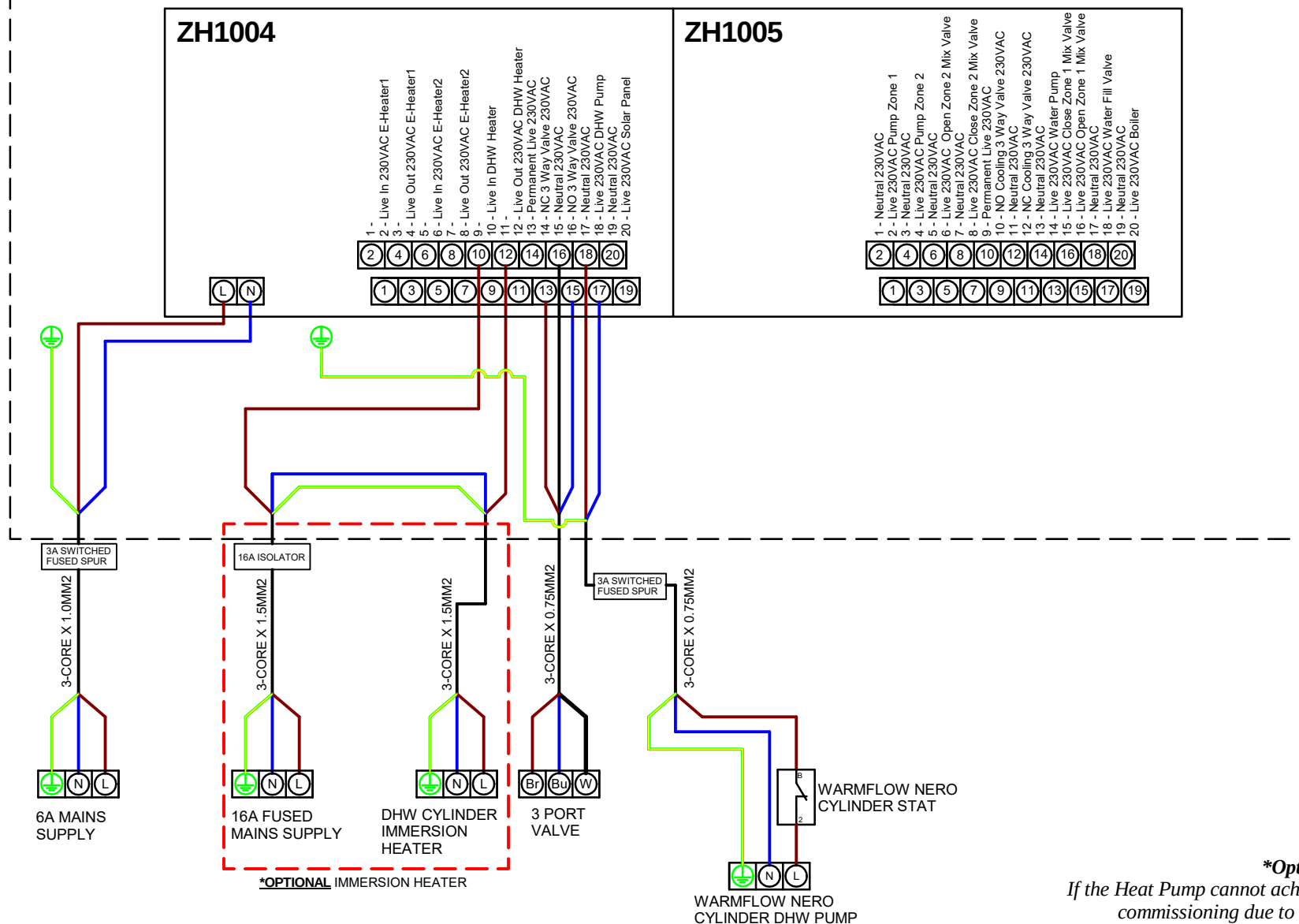
BP1000
MAIN BOARD

ZH1002
SENSORS &
VOLT FREE
CONNECTIONS

ZH1004
230V CONNECTIONS

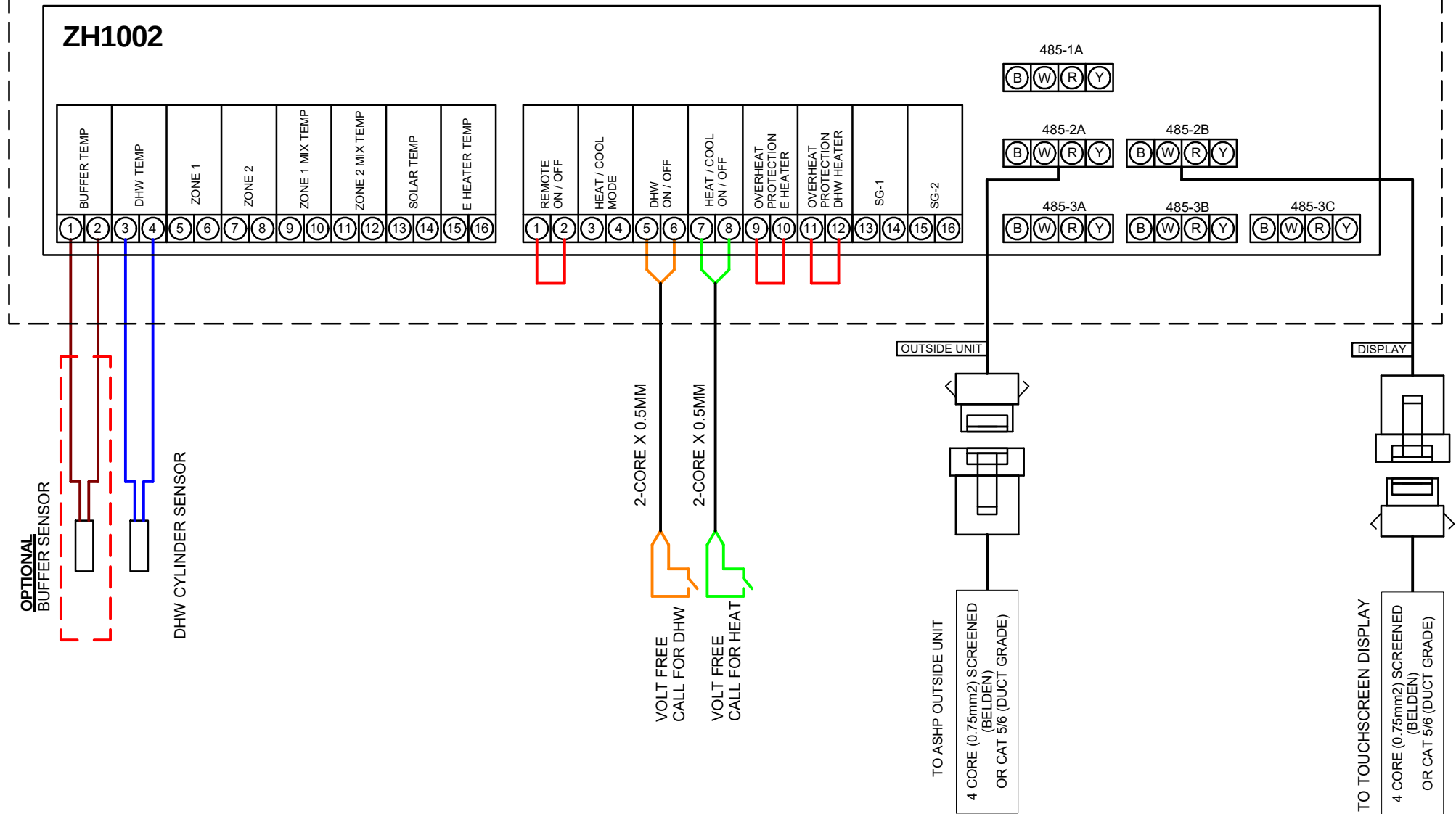
ZH1005
NOT USED

AS0X-R290 - INSTALLER WIRING CENTRE



***Optional Immersion Heater**
 If the Heat Pump cannot achieve 60 degrees DHW on commissioning due to insufficient cylinder heat transfer surface area, an Immersion Heater must be wired via a contactor for Legionella cycle purposes.

AS0X-R290 - INSTALLER WIRING CENTRE



AS0X-R290 - INSTALLER WIRING CONNECTIONS (WITHOUT WIRING CENTRE)

