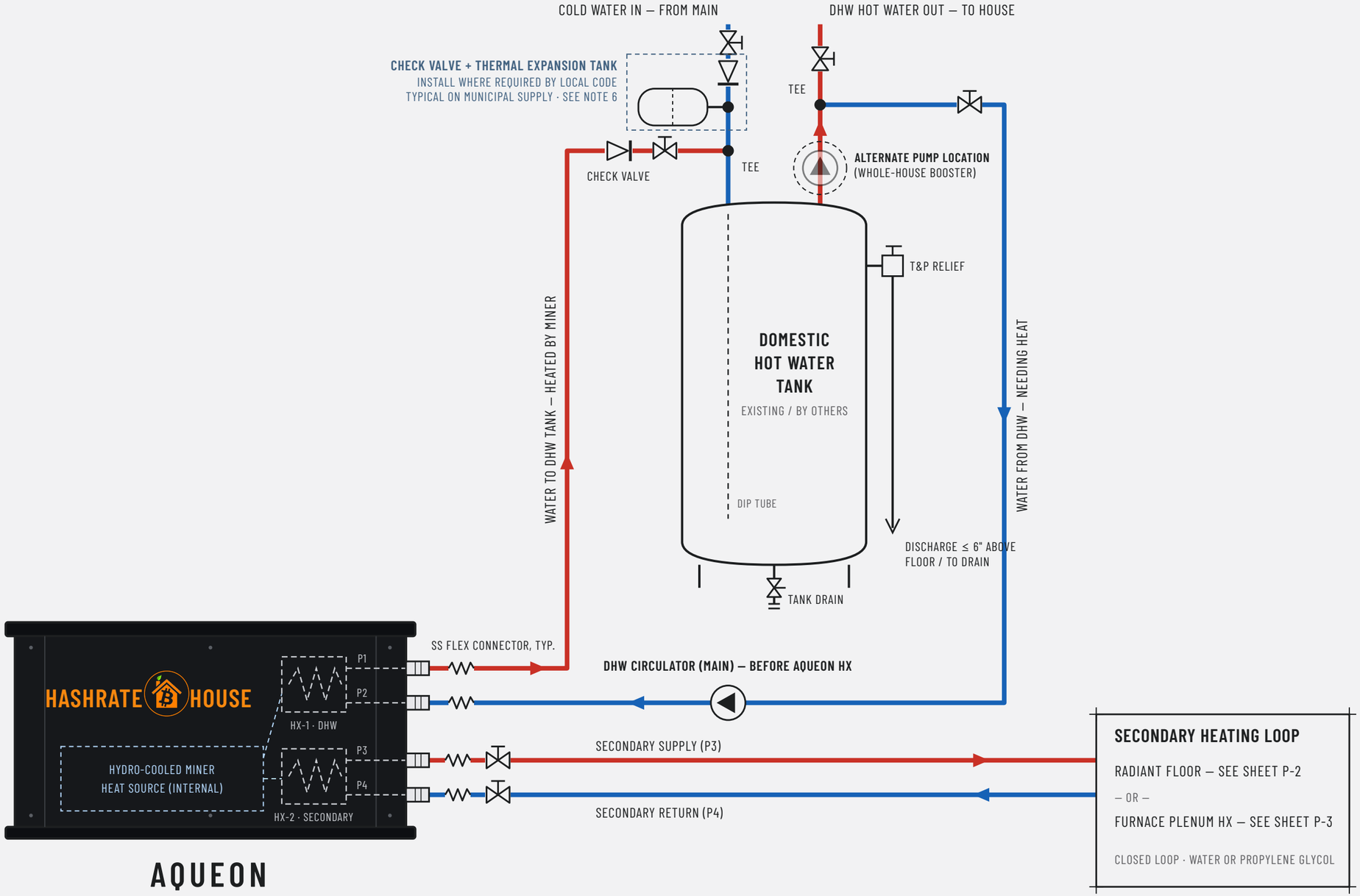


AQUEON

HASHRATE HOUSE HEAT RECOVERY UNIT · INTEGRATED HX-1 / HX-2

PORT	SERVICE	SIZE
P1	DHW supply — heated water to tank	¾" NPT
P2	DHW return — from tank	¾" NPT
P3	Secondary supply — to heating load	¾" NPT
P4	Secondary return — from heating load	¾" NPT

1 / P-1 **SYSTEM PIPING SCHEMATIC — AQUEON + DHW TANK + SECONDARY LOOP**

SCALE: NOT TO SCALE · DIAGRAMMATIC

HASHRATE HOUSE

Heating integration drawings

PROJECT

AQUEON HEATING SYSTEM INTEGRATION

SHEET TITLE

SYSTEM OVERVIEW — DHW & SECONDARY LOOP

LEGEND

- Supply / hot
- Return / cold
- Internal / hidden
- Ball valve
- Check valve
- SS flex connector
- Circulator pump
- T&P relief valve
- Drain valve
- Tee
- Expansion tank

GENERAL NOTES

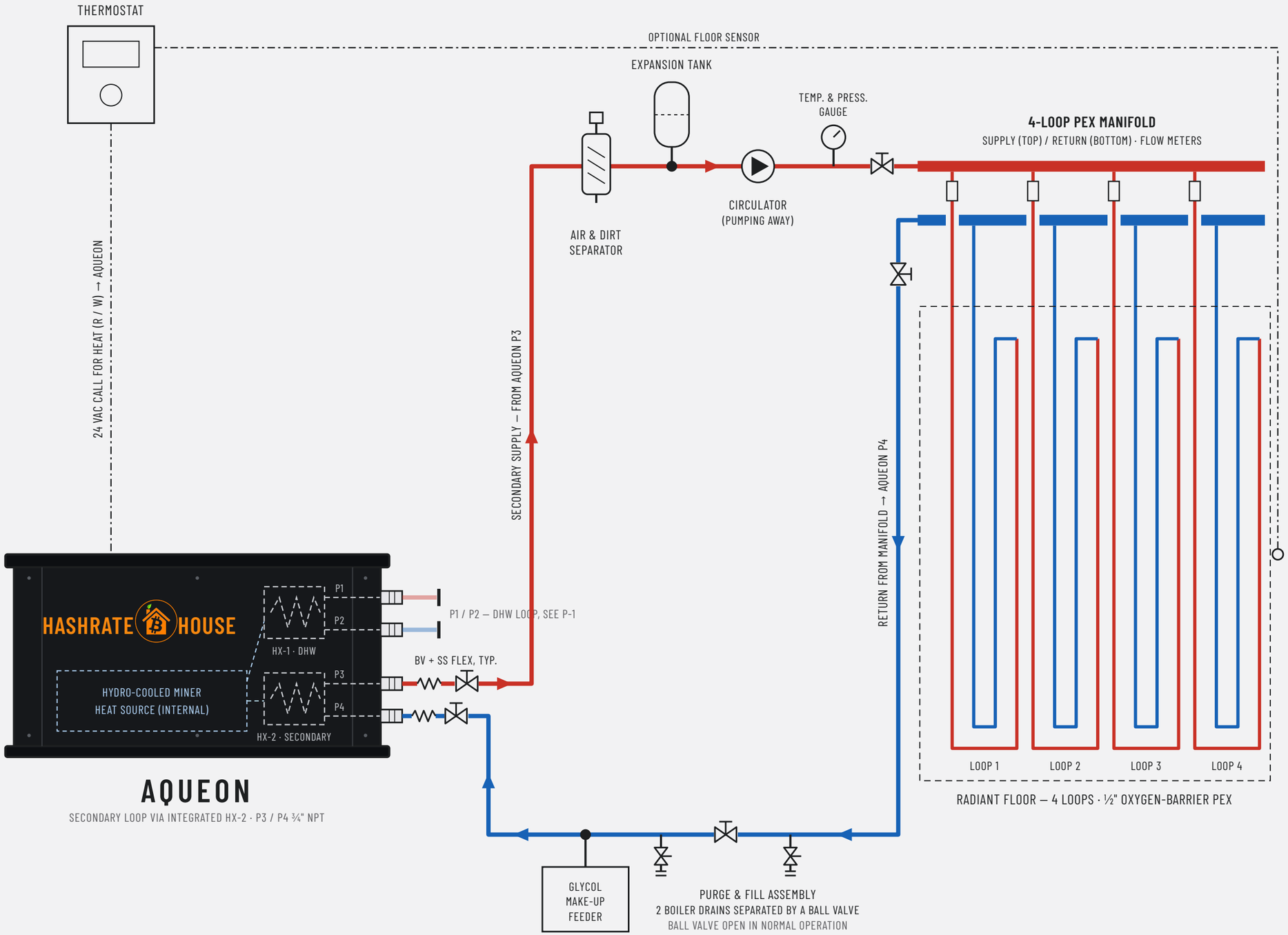
1. Diagrammatic only, not to scale. Verify all work against local plumbing / mechanical code and the Aqueon installation manual.
2. All Aqueon ports are ¾" NPT. Connect all four ports with included corrugated stainless-steel water heater flex connectors; unions not required.
3. DHW loop (P1 / P2) carries potable water. Use Lead- Free potable-rated materials only; no glycol.
4. Check valve on the heated-water line prevents back-flow from the cold main into the Aqueon.
5. Main DHW circulator is on the return, directly before the Aqueon HX. Alternate location: the tank hot outlet ahead of the tee, for use as a whole-house booster (shown faded). Install one or the other.
6. Check valve and thermal expansion tank on the cold inlet: install per local code or installation recommendation. Typically required on municipal supply with a closed system; often not required on a private well.
7. Tank T&P relief valve is required; pipe the discharge per code.
8. Secondary loop (P3 / P4) is a closed loop (water or propylene glycol), see P-2 / P-3. Heat exchangers are integral to the Aqueon.

DRAWN BY	DATE	SCALE
Hashrate House	10.29.2026	NTS

REV	REVISION
A	A · 10.29.2026 · Issued for review

Some items are shown for representation only. Not for construction. Verify with a licensed installer.

SHEET **P-1** of 3



1 / P-2

RADIANT FLOOR PIPING — AQUEON SECONDARY LOOP

SCALE: NOT TO SCALE · DIAGRAMMATIC

HASHRATE HOUSE

Heating integration drawings

PROJECT

AQUEON HEATING SYSTEM INTEGRATION

SHEET TITLE

RADIANT FLOOR PIPING — 4-LOOP MANIFOLD

LEGEND

- Supply
- Return
- Control wiring 24 VAC
- Ball valve
- SS flex connector
- Circulator pump
- Expansion tank
- Air & dirt separator
- Boiler drain
- Temp. / press. gauge
- PEX floor loop
- Heated floor zone

GENERAL NOTES

1. Diagrammatic only, not to scale. Verify all work against local mechanical code and the Aqueon installation manual.
2. Aqueon P3 / P4 are ¾" NPT. Transition to PEX with ¾" NPT × PEX adapters. Connect with corrugated stainless-steel flex connectors (unions not required) and a ball valve at each port.
3. HX-2 is integral to the Aqueon and isolates this loop; no external heat exchanger is required.
4. Circulator pumps away from the expansion tank; air & dirt separator ahead of the pump on the supply.
5. Thermostat sends a 24 VAC call directly to the Aqueon. Circulator: switch it on the same call (Aqueon pump output or single-zone relay), or leave an ECM pump in PP / CP mode always on (~5–40 W). The Aqueon only makes heat on a call.
6. To purge, close the center ball valve, fill through one drain and purge out the other. Valve stays OPEN in normal operation.
7. Use propylene glycol where freeze risk exists. The make-up feeder holds ~12–15 psi cold fill.
8. Oxygen-barrier PEX. Balance loops at the manifold; keep each ½" loop ≤ 300 ft.

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SHEET **P-2** of 3

THERMOSTAT

G — FAN CALL → FURNACE BLOWER (24 VAC)

24 VAC CALL FOR HEAT (R / W) → AQUEON

WARM SUPPLY AIR TO HOUSE

SUPPLY PLENUM

A/C EVAPORATOR COIL (EXISTING)
NOT HEATED — COIL IS DOWNSTREAM

BURNER / HEAT EXCHANGER (EXISTING)
BACKUP / AUXILIARY HEAT

TUBE & FIN HYDRONIC COIL
IN RETURN AIR · UPSTREAM OF BLOWER

RETURN AIR

BLOWER

FILTER

UPFLOW FURNACE (EXISTING)

HASHRATE HOUSE

P1

P2

HX-1 · DHW

HYDRO-COOLED MINER
HEAT SOURCE (INTERNAL)

P3

P4

HX-2 · SECONDARY

P1 / P2 — DHW LOOP, SEE P-1

BV + SS FLEX, TYP.

BV + UNION (TYP.)

AQUEON

SECONDARY LOOP VIA INTEGRATED HX-2 · P3 / P4 ¾" NPT

EXPANSION TANK

TEMP. & PRESS. GAUGE

SUPPLY TO COIL

AIR SEPARATOR

CIRCULATOR

RETURN FROM COIL

GLYCOL MAKE-UP FEEDER

PURGE & FILL ASSEMBLY
BALL VALVE OPEN IN NORMAL OPERATION

1 / P-3

FURNACE HYDRONIC COIL PIPING — AQUEON SECONDARY LOOP

SCALE: NOT TO SCALE · DIAGRAMMATIC

HASHRATE HOUSE

Heating integration drawings

PROJECT

AQUEON HEATING SYSTEM INTEGRATION

SHEET TITLE

FURNACE PLENUM COIL PIPING — UPFLOW

LEGEND

- Supply
- Return
- Control wiring 24 VAC
- Ball valve
- Union
- SS flex connector
- Circulator pump
- Expansion tank
- Air & dirt separator
- Boiler drain
- Temp. / press. gauge
- Tube & fin coil
- Airflow

GENERAL NOTES

1. Diagrammatic only, not to scale. Verify against local code, the Aqueon manual and the furnace manufacturer.
2. Hydronic coil sits in the return air between filter and blower, upstream of the furnace HX and A/C coil, so cooled air is never reheated.
3. Thermostat W sends a 24 VAC call to the Aqueon; G runs the furnace blower. The Aqueon only makes heat on a call, so no aquastat or fan delay is needed.
4. Circulator: switch it on the heat call (Aqueon pump output or single-zone relay), or leave an ECM pump in PP / CP mode always on (~5–40 W).
5. Aqueon ports ¾" NPT. Stainless-steel flex connectors + ball valve at the Aqueon (no unions); ball valve + union at the coil. Manual air vent at the coil high point.
6. Circulator pumps away from the expansion tank; air & dirt separator on the supply.
7. Purge: close the center ball valve, fill through one drain and purge out the other. Valve stays OPEN in normal operation.
8. Use propylene glycol where freeze risk exists. Size the coil to the duct; seal the cabinet and provide an access panel.

DRAWN BY	DATE	SCALE
Hashrate House	10.29.2026	NTS

REV	REVISION
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SHEET **P-3** of 3