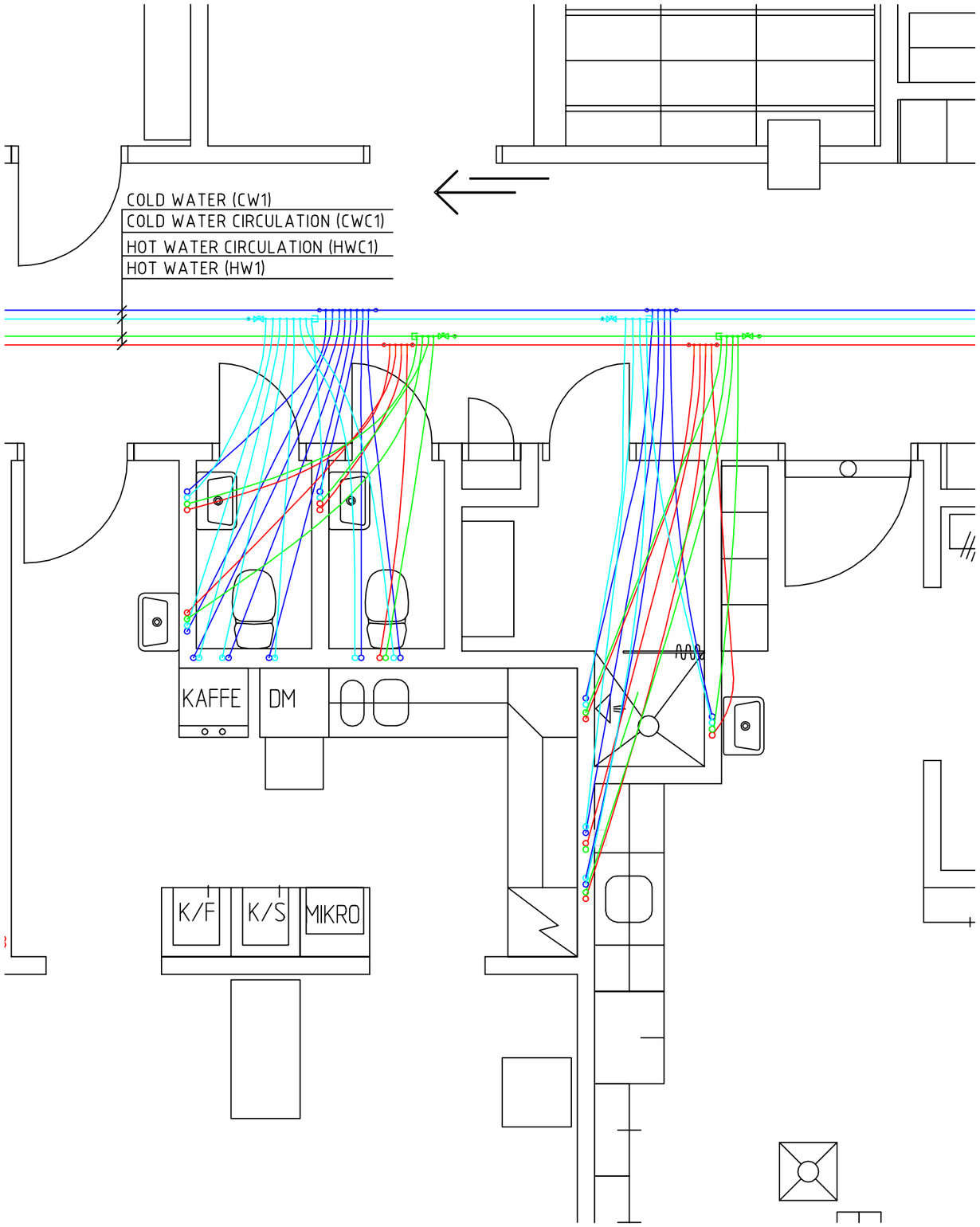
Installation of the Zeonda – Circulation Method



Explanation

INSTALLATION

= COLD WATER (CW1)
= COLD WATER CIRCULATION (CWC1)
= HOT WATER (HW1)
= HOT WATER CIRCULATION (HWC1)
= ZONE VALVE
= DISTRIBUTOR FLOW PIPE
= DISTRIBUTOR RETURN PIPING

ASSEMBLEING

In main pipes connect distributors serving distribution pipes.

Distribution pipes connect every unit or in sequense with WC in the end.

Distribution pipes using plusprisol.

Avoid to boundle CW- and HW- pipes together. Boundle CW/CWC and HW/HWC apart.

DIMENSIONING

Temperature: CW = 10°C, HW = 55°C.

Dimensioning CWC:
Max temperature riesing 2°C, Max speed in CWC-pipe 0,8 m/s.
Main pipes insulates serie 41.

Dimensioning HWC:
Max temperature loss 2°C, Max speed in HWC-pipe 0,8 m/s.
Main pipes insulates serie 43

Energy loss in mixer: CWC = 5 watt, HWC = 20 watt.

Energy loss in distribution pipe: Calculated with IsoDim.
CW/CWC DN 15 = 2,4 W/m.
HW/HWC DN 15 = 5,3 W/m.

Energy loss in mainpipe: Calculated with IsoDim.
CW/CWC DN 42 = 1,8 W/m.
HW/HWC DN 35 = 6,1 W/m.

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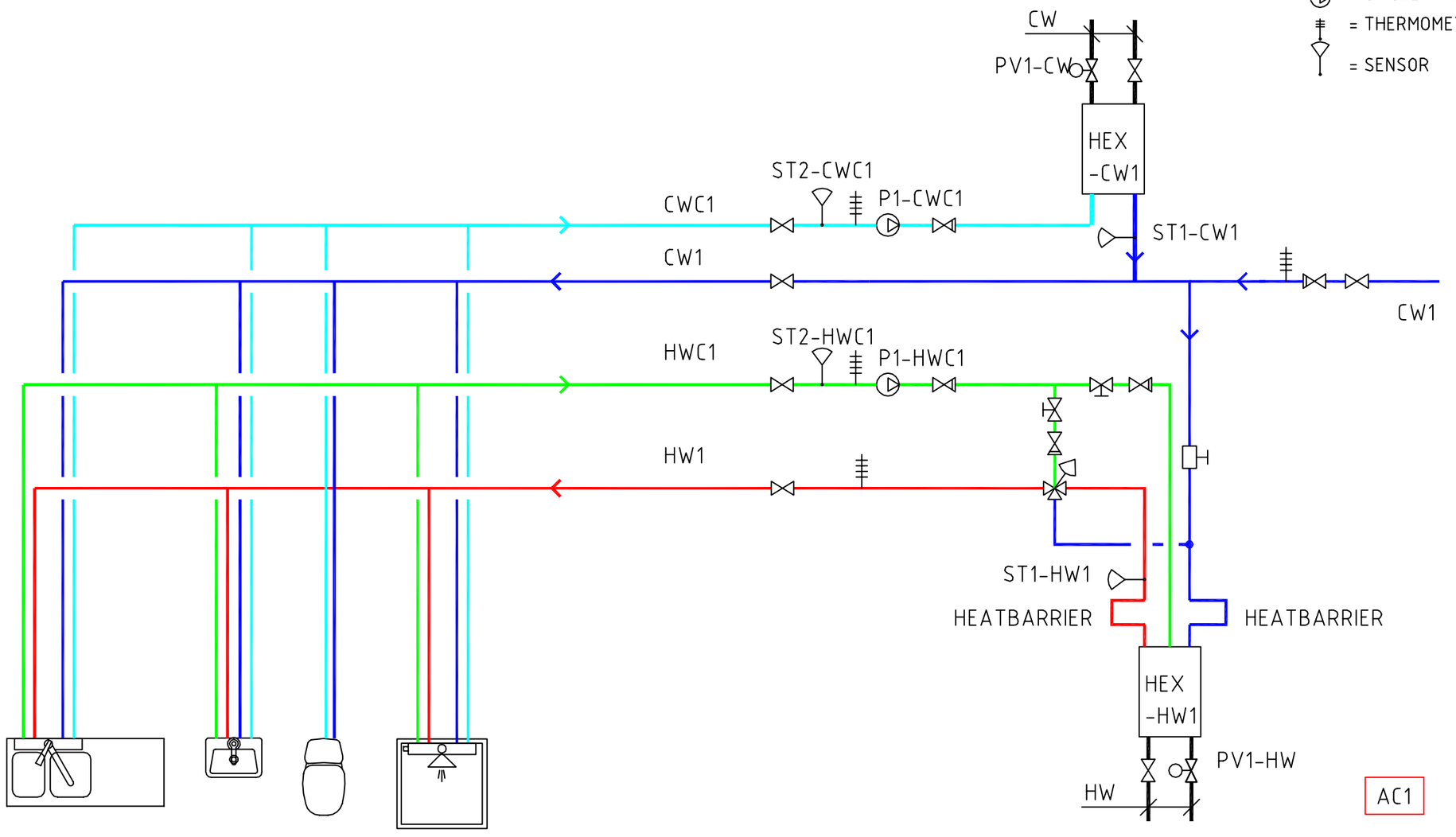
Explanation

INSTALLATION

= COLD WATER (CW1)
= COLD WATER CIRCULATION (CWC1)
= HOT WATER (HW1)
= HOT WATER CIRCULATION (HWC1)
= ZONE VALVE
= STOP VALVE
= CHECK VALVE
= PILOT VALVE (PV)
= MIXING VALVE
= CIRCULATION PUMP
= THERMOMETER
= SENSOR



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