

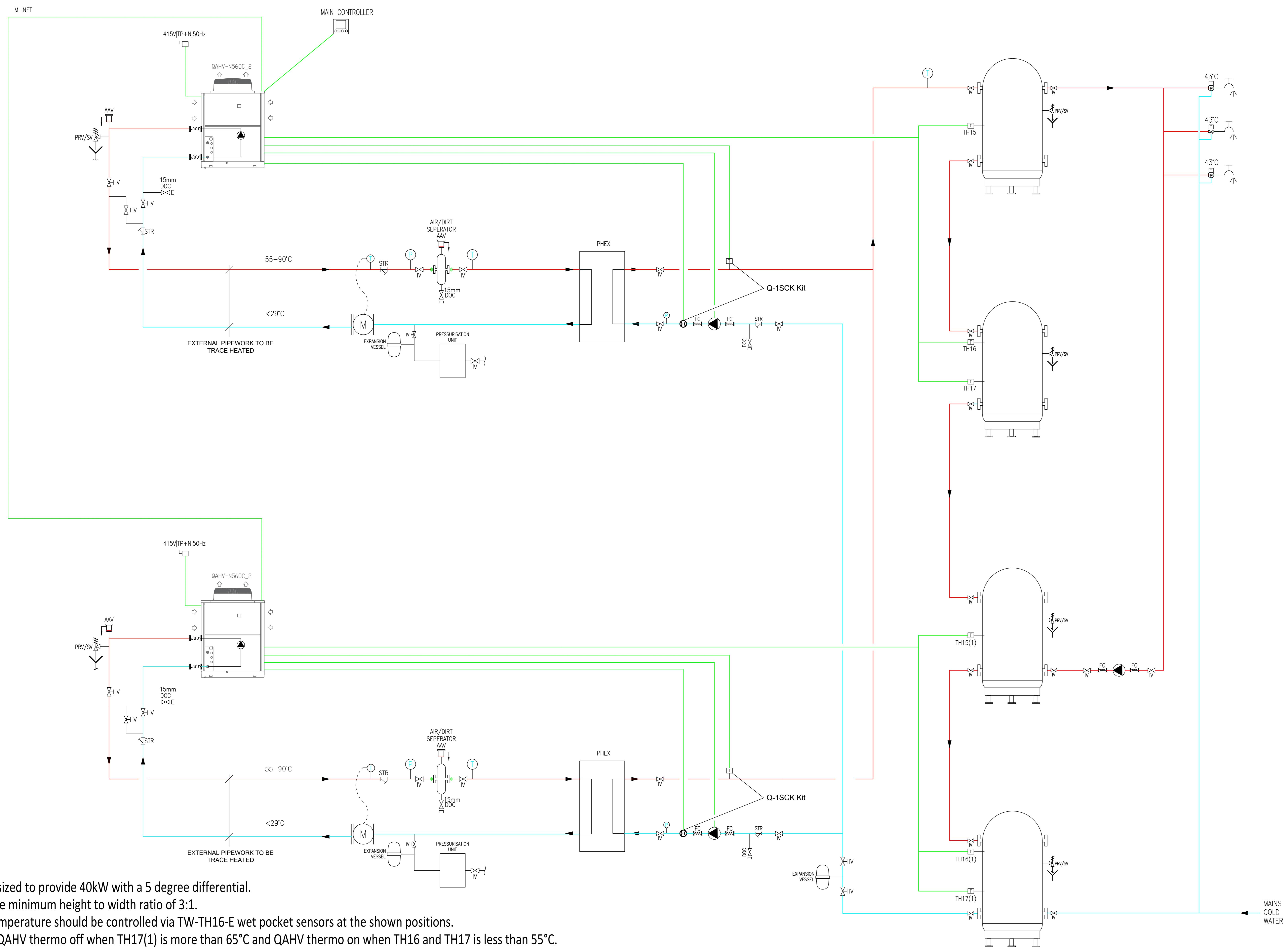
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All dimensions are in mm unless otherwise stated

For information only, DO NOT SCALE drawing

All works shall be carried out in accordance with the Specification

Contractor must verify all dimensions on site before commencing any work or shop drawings



LEGEND

- AAV AUTOMATIC AIR VENT
- IV ISOLATING VALVE
- DOC DRAIN OFF COCK
- NRV NONE RETURN VALVE
- SV SAFETY VALVE
- STR STRAINER
- FC FLEXIBLE CONNECTION
- TEMPERATURE GAUGE
- PRESSURE GAUGE
- PUMP
- TW-TH16-E TEMPERATURE SENSOR
- 3 PORT VALVE
- FLOW SENSOR
- 2 PORT VALVE

NOTES

- Each PHEX to be sized to provide 40kW with a 5 degree differential.
- Tanks should have minimum height to width ratio of 3:1.
- Tank set point temperature should be controlled via TW-TH16-E wet pocket sensors at the shown positions.
- Typical control - QAHV thermo off when TH17(1) is more than 65°C and QAHV thermo on when TH16 and TH17 is less than 55°C.
- QAHV internal primary side pump is variable speed (0-30l/m) and is able to provide 77kPa external head at 17l/m, maximum distance 60m from QAHV to PHEX.
- Secondary side pump to be controlled via 0-10V signal and should be variable flow up to 30 l/m.
- Secondary side flow and temperature to be monitored by the QAHV using the Q-1SCK kit.
- Maximum of 16 QAHV units operating in a single control group.
- Pumped return to enter in the bottom of the tank before the last tank to prevent de-stratification.
- Adequate provision should be made to prevent condensate from collecting around the outdoor units.
- It is the responsibility of the installing contractor to provide adequate protection against freezing of pipe work. If the water circuit freezes and damages the equipment the warranty will become void.
- All water systems should be designed, installed and commissioned in accordance with industry good practice guidelines; such as, but not limited to: BSRIA Guide BG2/2010 - Water System Commissioning, BSRIA Guide BG29/2011 - Pre-Commissioning of Pipework Systems, BSRIA Guide BG50/2013 - Water Treatment for Closed Heating & Cooling Systems, CIBSE Commissioning Code W - Water distribution systems, CIBSE Heat Networks: Code of Practice for the UK CP1 2015
- The contractor should make the necessary arrangements to ensure the design of the system meets the requirement of the application and comply with all current building regulations.
- All electrical work must be carried out in accordance with the current version of BS7671.

REV	DESCRIPTION	DESN	CHKD	DATE
<p>MITSUBISHI ELECTRIC LIVING ENVIRONMENTAL SYSTEMS</p>				
CLIENT				
PROJECT 2 no. QAHV with Peak Hot Water Storage				
TITLE MECHANICAL SERVICES MITSUBISHI QAHV-N560YA				
SCALE	NTS	ORIGINAL SIZE	A1	DATE
				JULY 2020
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				R. GRANT
DRAWING NUMBER	MEU-UK/QAHV/PS/2			REVISION
				3