

SYSTEM MASTER BOARD 1*			
SW1	SW2	SW3	SW4
OFF	See Control*	See Control*	ON
ON	OFF	OFF	ON
ON	OFF	OFF	OFF
ON	OFF	OFF	OFF
OFF	OFF	ON	OFF
OFF	OFF	ON	OFF
OFF	OFF	OFF	OFF
See Control*	OFF	OFF	

BOARD 2*			
SW1	SW2	SW3	SW4
OFF	OFF	OFF	ON
ON	OFF	OFF	OFF
ON	OFF	OFF	OFF
OFF	OFF	OFF	OFF
OFF	OFF	OFF	OFF
OFF	OFF	OFF	OFF
ON	OFF	OFF	OFF
OFF	ON	OFF	

BOARD 3*			
SW1	SW2	SW3	SW4
OFF	OFF	OFF	ON
ON	OFF	OFF	OFF
ON	OFF	OFF	OFF
OFF	OFF	OFF	OFF
OFF	OFF	OFF	OFF
OFF	OFF	OFF	OFF
ON	OFF	OFF	OFF
OFF	ON	OFF	

SW1-3 (OUTDOOR)-ON * SW1-4 (OUTDOOR)-ON *
 *Please see system control section of the outdoor installation manual for 3 or more units.
 SW5-5 & SW8-3 (OUTDOOR)-ON SW5-5 & SW8-3 (OUTDOOR)-ON

Wiring Connections (Outputs)	
EQUIPMENT	TERMINAL / FTC6 BOARD
P1	OUT1 TBO.1 1-2 / 2*
P2	OUT1 TBO.1 1-2 / 3*
P3	OUT13 TBO.4 3-4 / 1*
P4	OUT3 TBO.1 5-6 / 1*
3WAY V. 1	OUT4 TBO.2 4-6 / 2*

EQUIPMENT	TERMINAL / FTC6 BOARD
3WAY V. 2	OUT4 TBO.2 4-6 / 3*
IMM. H.	**IHC 2/T1 4/T2 / 1*

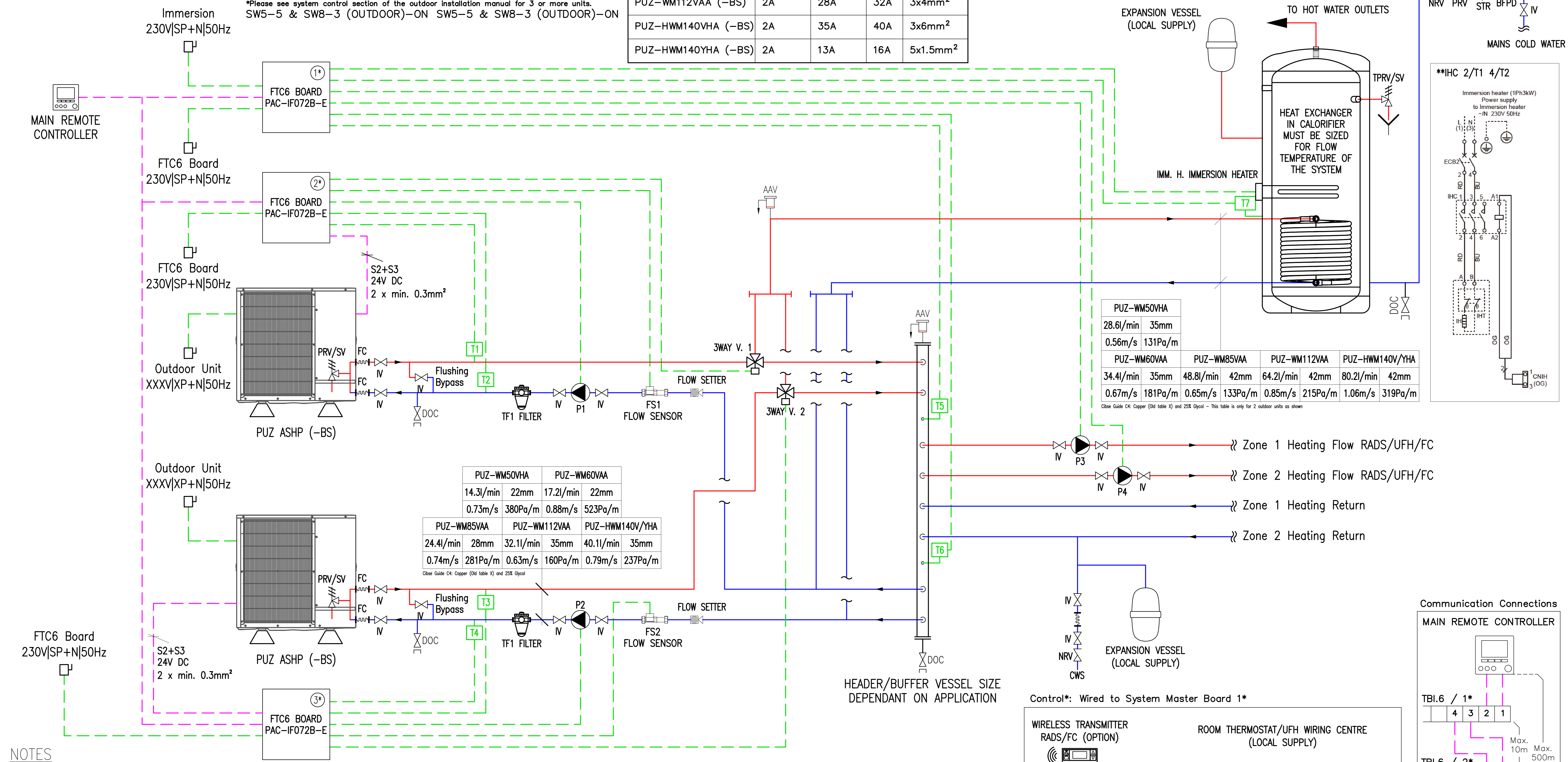
EQUIPMENT	TERMINAL / FTC6 BOARD
T3	THW1 CNW12 1-2 / 3*
T4	THW2 CNW12 3-4 / 3*
T5	THW1 CNW12 1-2 / 1*
T6	THW2 CNW12 3-4 / 1*
T7	THW5B CNW5 / 1*

EQUIPMENT	TERMINAL / FTC6 BOARD
FS1	INA1 TBL.4 1-3 (CN1A) / 2*
FS2	INA1 TBL.4 1-3 (CN1A) / 3*

Wiring Connections (Inputs)	
EQUIPMENT	TERMINAL / FTC6 BOARD
T1	THW1 CNW12 1-2 / 2*
T2	THW2 CNW12 3-4 / 2*

Power Supply				
EQUIPMENT	STARTING CURRENT	MAX CURRENT	MCB	MIN. CABLE
PUZ-WM50VHA (-BS)	2A	13A	16A	3x1.5mm ²
PUZ-WM60VAA (-BS)	2A	13A	16A	3x2.5mm ²
PUZ-WM85VAA (-BS)	2A	22A	25A	3x2.5mm ²
PUZ-WM112VAA (-BS)	2A	28A	32A	3x4mm ²
PUZ-HWM140VHA (-BS)	2A	35A	40A	3x6mm ²
PUZ-HWM140YHA (-BS)	2A	13A	16A	5x1.5mm ²

Power Supply			
EQUIPMENT	MAX CURRENT	MCB	MIN. CABLE
PAC-IF072B-E	10A	16A	3x1.5mm ²
IMM. H.	13A	16A	3x2.5mm ²



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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 (After removing the air, automatic air vent(s) must be closed)
 - IV ISOLATING VALVE
 - DOC DRAIN OFF COCK
 - NRV NON RETURN VALVE
 - PRV/SV PRESSURE RELIEF VALVE/SAFETY VALVE
 - STR STRAINER
 - FC FLEXIBLE CONNECTION
 - PRV PRESSURE REDUCING VALVE
 - P PUMP
 - T TEMPERATURE SENSOR
 - TF1 FILTER/STRAINER
 - FS FLOW SENSOR
 - BFPD BACK FLOW PREVENTION DEVICE (if fitted)
 - TPRV/SV TEMPERATURE PRESSURE RELIEF VALVE/SAFETY VALVE
 - FLOW SETTER

HYDRAULIC COMPONENTS SUPPLIED BY MEUK:
 FLEXIBLE PIPES
 FLOW SENSOR

OPTIONAL HYDRAULIC COMPONENTS SUPPLIED BY MEUK:
 TF1 FILTER
 FLOW SETTER



CLIENT

PROJECT
 PUZ-OUTDOOR UNITS
 STANDARD SCHEMATIC ECODAN CASCADE

TITLE
 MECHANICAL SERVICES
 MITSUBISHI 2X FTC6 ECODAN UNITS
 DUAL CYLINDER
 TO LOW LOSS HEADER/BUFFER VESSEL
 2 HEATING ZONES
 SAME FLOW TEMPERATURES

SCALE	ORIGINAL SIZE	DATE
NTS	A0	JANUARY 2021

DRAWN	DESIGNED	INIT	CHECKED	INIT
D. CASADO	D. CASADO		R. TAYLOR	

DRAWING NUMBER	REVISION
MEU-UK/FTC6/WMXXX/2Z/2C	1

- ### NOTES
- After removing the air, automatic air vent(s) must be closed.
 - The Ecodan outdoor unit must be installed on anti-vibration mounts. Rubber mounting blocks are recommended.
 - Adequate provision should be made to prevent condensate from collecting around the outdoor units. A soak away or drip tray can be used.
 - Flexible hoses shall be used to connect the Ecodan unit to the primary pipe work.
 - A flow sensor PAC-FS01-E is required to be installed in the return pipe work to each unit. Flow setters are optional and they have the ability to change the flow rates if needed.
 - Adequate filtration must be used on the return pipework to each Ecodan outdoor unit. This can be either; Magnetic filter (TF1 supplied by MEUK) or strainer with air dirt separator.
 - It is the responsibility of the installing contractor to provide adequate protection against freezing of pipe work. MEUK recommend 25% glycol dosage of the primary circuit. 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.
 - Isolation valves and flushing bypass circuit are recommended for the outdoor unit. This is best practice and not required for warranty purposes.
 - The contractor should make the necessary arrangements to ensure the design of the system meet the requirement of the application and where possible follow industry guidelines and best practice.
 - This schematic must be used in conjunction with the corresponding technical submission document issued by Mitsubishi Electric.
 - A back flow prevention device may include check valves, a water meter or an additional PRV.
 - If a device that prevents backflow is installed on the cold water supply to the PRV then a means of accommodating expansion due to local warming of the pipe is recommended to be fitted between the device and PRV.

