

SYSTEM MASTER BOARD 1*				
	SW1	SW2	SW3	SW4
1	OFF	See Control*	See Control*	ON
2	ON	OFF	OFF	ON
3	ON	OFF	OFF	OFF
4	ON	OFF	OFF	OFF
5	OFF	OFF	ON	OFF
6	OFF	ON	OFF	OFF
7	OFF	ON	OFF	
8	See Control*	OFF	OFF	

#### DIP Switch Configuration Settings

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	ON	OFF	

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

SW1-3 (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

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 TB0.1 1-2 / 2*
P2	OUT1 TB0.1 1-2 / 3*
P3	OUT2 TB0.1 3-4 / 1*
P4	OUT3 TB0.1 5-6 / 1*

EQUIPMENT	TERMINAL / FTC6 BOARD
3WAY V. 1	OUT4 TB0.2 4-6 / 2*
MIXING V.	OUT5 TB0.2 1-3 / 1*
IMM. H.	**IHC 2/T1 4/T2 / 1*

#### Power Supply

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

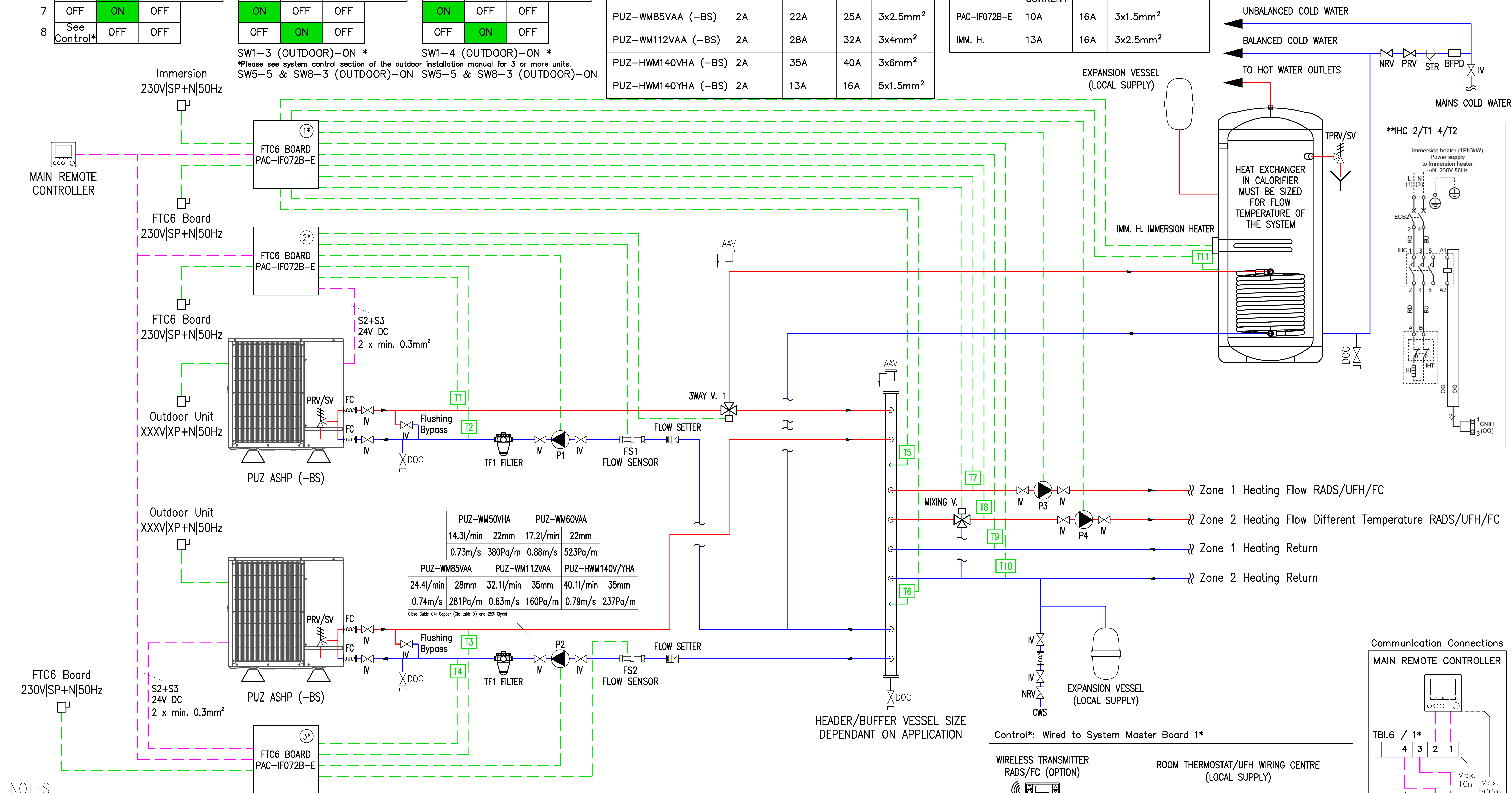
#### Wiring Connections (Inputs)

EQUIPMENT	TERMINAL / FTC6 BOARD
T1	THW1 CNW12 1-2 / 2*
T2	THW2 CNW12 3-4 / 2*
T3	THW1 CNW12 1-2 / 3*
T4	THW2 CNW12 3-4 / 3*
T5	THW1 CNW12 1-2 / 1*
T6	THW2 CNW12 3-4 / 1*

EQUIPMENT	TERMINAL / FTC6 BOARD
T7	THW6 TBI.5 7-8 / 1*
T8	THW8 TBI.5 3-4 / 1*
T9	THW7 TBI.5 5-6 / 1*
T10	THW9 TBI.5 1-2 / 1*
T11	THW5B CNW5 / 1*
FS1	INA1 TBI.4 1-3 (CN1A) / 2*
FS2	INA1 TBI.4 1-3 (CN1A) / 3*

#### Power Supply

EQUIPMENT	MAX CURRENT	MCB	MIN. CABLE
PAC-IF072B-E	10A	16A	3x1.5mm <sup>2</sup>
IMM. H.	13A	16A	3x2.5mm <sup>2</sup>



#### 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.

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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

REV	DESCRIPTION	DESN	CHKD	DATE
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CLIENT

PROJECT  
PUZ-OUTDOOR UNITS  
STANDARD SCHEMATIC ECODAN CASCADE

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

SCALE	ORIGINAL SIZE	DATE
NTS	A0	JANUARY 2021
DRAWN D. CASADO	DESIGNED D. CASADO	INIT R. TAYLOR
DRAWING NUMBER MEU-UK/FTC6/WMXXX/2ZM/1C	REVISION 1	