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

DIP Switch Configuration Settings

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

SW1-3 (OUTDOOR)-ON *

	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	ON	OFF	

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	OUT2 TBO.1 3-4 / 1*
3WAY V. 1	OUT4 TBO.2 4-6 / 2*
3WAY V. 2	OUT4 TBO.2 4-6 / 3*

EQUIPMENT	TERMINAL / FTC6 BOARD
IMM. H.	**IHC 2/T1 4/T2 / 1*

Wiring Connections (Inputs)

T1	THW1 CNW12 1-2 / 2*
T2	THW2 CNW12 3-4 / 2*
T3	THW1 CNW12 1-2 / 3*

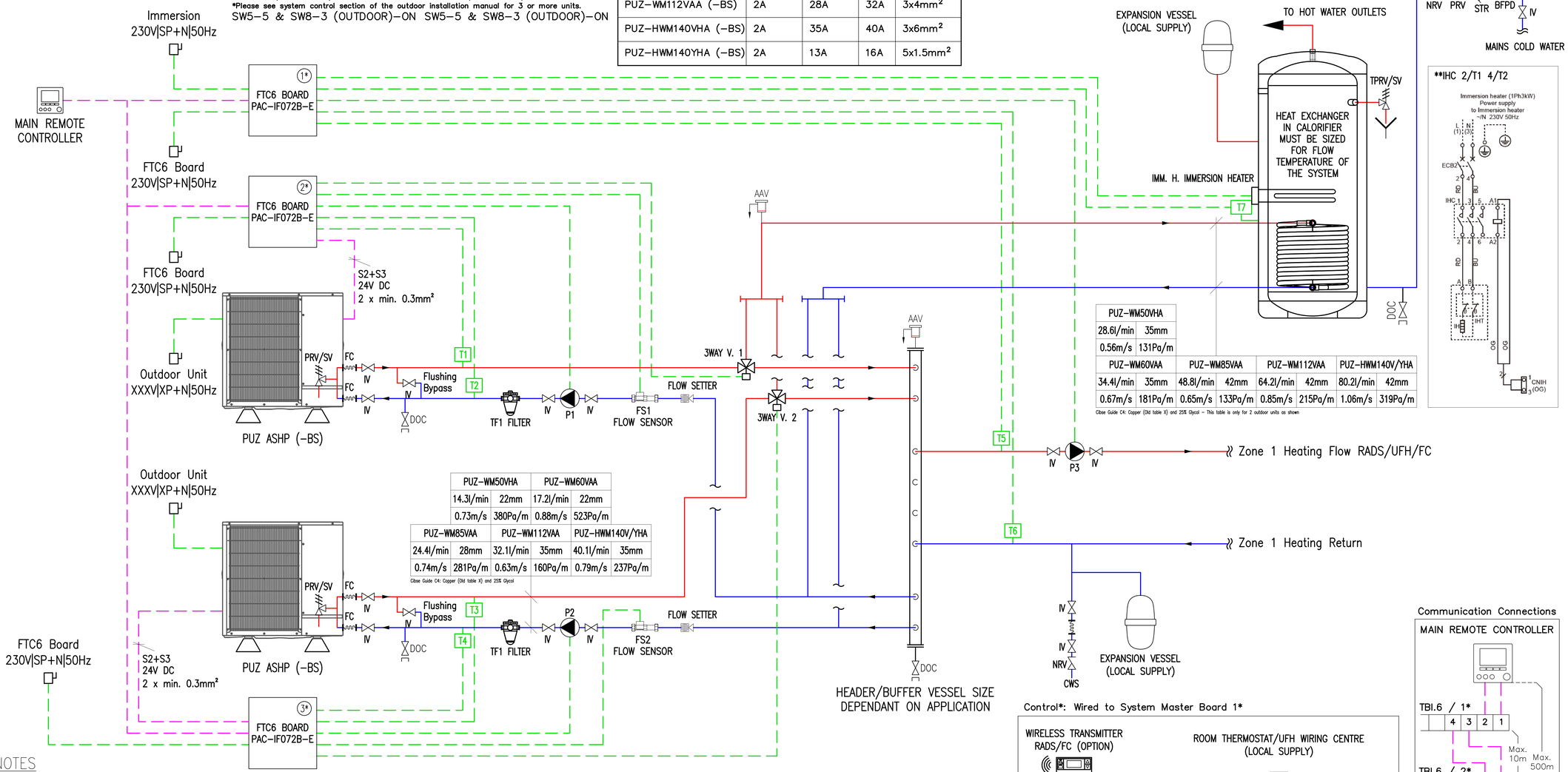
EQUIPMENT	TERMINAL / FTC6 BOARD
T4	THW2 CNW12 3-4 / 3*
T5	THW1 CNW12 1-2 / 1*
T6	THW2 CNW12 3-4 / 1*
T7	THW5B CNW5 / 1*
FS1	INA1 TBI.4 1-3 (CN1A) / 2*
FS2	INA1 TBI.4 1-3 (CN1A) / 3*

Power Supply

EQUIPMENT	STARTING CURRENT	MAX CURRENT	MCB	MIN. CABLE
PUZ-WM50VHA (-BS)	2A	13A	16A	3x1.5mm²
PUZ-WM60VAA (-BS)	2A	13A	16A	3x2.5mm²
PUZ-WM85VAA (-BS)	2A	22A	25A	3x2.5mm²
PUZ-WM112VAA (-BS)	2A	28A	32A	3x4mm²
PUZ-HWM140VHA (-BS)	2A	35A	40A	3x6mm²
PUZ-HWM140YHA (-BS)	2A	13A	16A	5x1.5mm²

Power Supply

EQUIPMENT	MAX CURRENT	MCB	MIN. CABLE
PAC-IF072B-E	10A	16A	3x1.5mm²
IMM. H.	13A	16A	3x2.5mm²



PUZ-WM50VHA	
28.6l/min	35mm
0.56m/s	131Pa/m

PUZ-WM60VAA		PUZ-WM85VAA		PUZ-WM112VAA		PUZ-HWM140V/YHA	
34.4l/min	35mm	48.8l/min	42mm	64.2l/min	42mm	80.2l/min	42mm
0.67m/s	181Pa/m	0.65m/s	133Pa/m	0.85m/s	215Pa/m	1.06m/s	319Pa/m

Cibse Guide C4: Copper (Old table X) and 25% Glycol - This table is only for 2 outdoor units as shown

PUZ-WM50VHA		PUZ-WM60VAA	
14.3l/min	22mm	17.2l/min	22mm
0.73m/s	380Pa/m	0.88m/s	523Pa/m

PUZ-WM85VAA		PUZ-WM112VAA		PUZ-HWM140V/YHA	
24.4l/min	28mm	32.1l/min	35mm	40.1l/min	35mm
0.74m/s	281Pa/m	0.63m/s	160Pa/m	0.79m/s	237Pa/m

Cibse Guide C4: Copper (Old table X) and 25% Glycol

Control*: Wired to System Master Board 1*

WIRELESS TRANSMITTER RADS/FC (OPTION)
WR WIRELESS RECEIVER (OPTION)
CNRF // SW1-8 ON
ADVANCE AUTO ADAPTATION // SW5-2 ON

OR

ROOM THERMOSTAT/UFH WIRING CENTRE (LOCAL SUPPLY)
Zone 1: IN1 TBI.1 7-8 (2 core Volt Free) // SW2-1 ON

Communication Connections

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.

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

MITSUBISHI ELECTRIC

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
1 HEATING ZONE

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/1Z/2C	1