

Hayes Higgins Partnership
Integrated construction solutions

Project Managers, Chartered Civil, Structural and Building Services Engineers

TIPPERARY COUNTY COUNCIL
Cahir Market House Business Centre, Cahir, Co. Tipperary

DATA SHEETS for the ☐
Mechanical WATER SERVICES Installation
at
Cahir Market House

Issue	
Revision	T01
Remarks	Tender Issue
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Prepared By	
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for the
DATA SHEETS for the Mechanical WATER SERVICES Installation
For Cahir Market House**

Issue Date and Revision Number

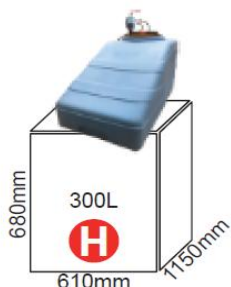
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Data Sheet No.01			
Project:	Cahir Market House	Data Sheet:	General
Project No.:	21ME006	Revision:	T01
Client:	Tipperary County Council	Date:	06/03/2026
Equipment must be supplied from companies that meet the following Minimum Requirements: The supplier must have had an office in Ireland for the last five years The supplier must be able to provide on request ten positive references from previous installations of the proposed equipment. The supplier must have a minimum of 5 No. support staff in Ireland. All equipment must be fit for the intended purpose and suitable for the weather conditions found at the site. All equipment must comply with all statutory regulations and requirements. All suppliers proposed must be able to provide a technically competent representative who is capable of fully understanding the equipment provided and advising on commissioning and operational information. All equipment must be EEE registered where such a product exists and is fully compliant with the specification."□ □			
Warranties:			
Equipment Type	2 Years	5 Years	15 Years
Cold Water Tank and Booster	X		
Rainwater Harvesting Tanks			X
Rainwater Harvesting Pumps and Components	X		
Flushing Valve System and components		X	
Water Meters	X		
Undersing Water Heater	X		
Maintenance:			
System/Equipment	6-months		12-months
Water System Controls	Check all water system set-points/control logic/data logging and ensure these		Check all water system set-points/control logic/data logging and ensure these are correct and locked to avoid tampering.
Water Storage Tanks	Check and correct if necessary: 1) contamination, debris, sediment, or pest activity. 2) damage to the tank shell or foundation, or corrosion of internal supports and bolts. 3) properly working overflow pipes and a secure, properly fitted access ladder (if applicable) 4) leaking pipe fittings.		Check and correct if necessary: 1) contamination, debris, sediment, or pest activity. 2) damage to the tank shell or foundation, or corrosion of internal supports and bolts. 3) properly working overflow pipes and a secure, properly fitted access ladder (if applicable) 4) leaking pipe fittings.
Pumps and Piping	Check that pumps are performing as per commissioning data and correct any faults/errors		Performance Testing: Measure and record flow rate, suction, discharge pressure, and power consumption to ensure the pump is operating within specified parameters. Clean all filters and strainers. Connections: Check that all mechanical and electrical connections are secure and tight.
Flushing valves	Check system parameters: Monitor and adjust the flushing parameters (time, temperature, and volume) as needed		Perform annual maintenance as per manufacturers instructions.

Data Sheet No.01			
Project:	Cahir Market House	Data Sheet:	General
Project No.	21ME006	Revision:	T01
Client:	Tipperary County Council	Date:	06/03/2026

It shall be the duty of the contractor to check that equipment proposed fully meets the specification
Any items installed that do not meet the specification shall be removed and replaced
At no cost to the contract
All plant shall contain the CE mark
References above to equipment shall also refer to plant and components.

Mechanical Data Sheet No.02			
Project:	Cahir Market House	Data Sheet:	Cold Water Sorage Tanks
Project No.	21ME006	Revision:	T01
Client:	Tipperary County Council	Date:	06/03/2026
Cold Water Storage Tanks			
CWST-01			
Manufacturer/Supplier		Aquabox or equal appvd	
Product		Compact - 12004	
Location		Attic	
Capacity		300Ltr	
Onboard Pump		Yes	
Flowrate		4.5 m³/hr	
Head		29.5m	
Kw		0.4	
Dimensions (HxDxL)		680mmx610mmx1150mm	
V/Ph/Hz		220-240V, 1Ph, 50Hz	



Data Sheet No.03			
Project:	Cahir Market House	Data Sheet:	Thermostatic Blending Valves
Project No.	21ME006	Revision:	T01
Client:	Tipperary County Council	Date:	06/03/2026
General			
Purpose:	Regulation of Domestic Hot Water Temperatures		
Number:	1No. Per Hot Water Outlet as per M-300 Series Drawings		
Duty			
Outlet temperature for wash hand basins (°C):	38		
Outlet temperature for sinks (°C):	50		
Inlet Cold Temperature (°C):	10		
Inlet Max Hot Temperature (°C):	60		
Maximum Pressure Differential (hot to cold) (bar):	0.5		
Maximum pressure drop accross valve (bar):	0.1		
Manufacturer		Product	
Horne / Danfoss (or equal and approved)		(or equal and approved)	
Photo			
			
Notes			
Valves to be tamper proof to prevent changing of setpoint temperature without tools Particular care shall be taken where several fittings are fed from a single valve as Pressure drop must be limited to 0.1 bar. Note that it may be necessary to oversize Valves to minimise pressure drop. Blending valves shall conform to BS1415 Part II All outlet temperatures to be tested prior to handover A certificate confirming the testing of all outlets shall be provided to the Employers Representative on completion. Blending valves to be TM3 approved Valves shall be WRAS approved			

Data Sheet No.04

Project:	Cahir Market House	Data Sheet:	Water Meters
Project No.	21ME006	Revision:	T01
Client:	Tipperary County Council	Date:	06/03/2026

Water Meters

Meter Ref	Location	Normal Flowrate (l/s)	Line Size (mm)
WM.01 MAINS WATER METER	LG-78 Mech Plant room	4	25
WM 02. COLD WATER METER	Attic	5	32
Elster (or equal and approved)		H4000/ H4300 (or equal and approved)	

Water meter type to be ultrasonic

Meters shall be complete with modbus interface or other interface to allow connection to the BMS provided

Modbus interfaces that are supplied separately to the meter are not acceptable

Meters shall pass to the BMS the actual reading on the meter and not just pulses.

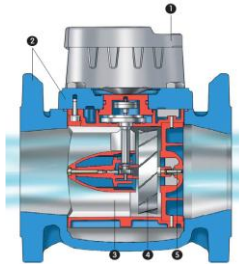
The meters shall be accurate over the full range shown above

The meters shall be accurate to within 0.05 l/s

The total pressure drop through the meter shall be no more than 5kPa at the maximum flow specified.

Meters are to be supplied with batteries

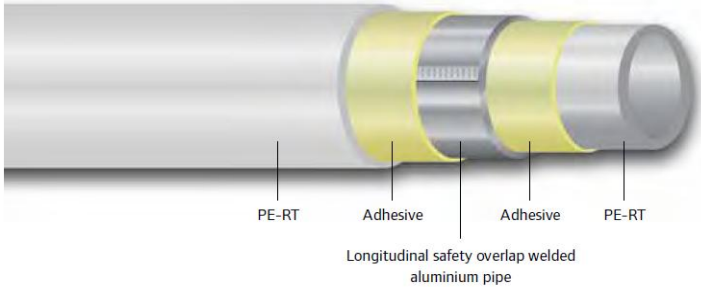
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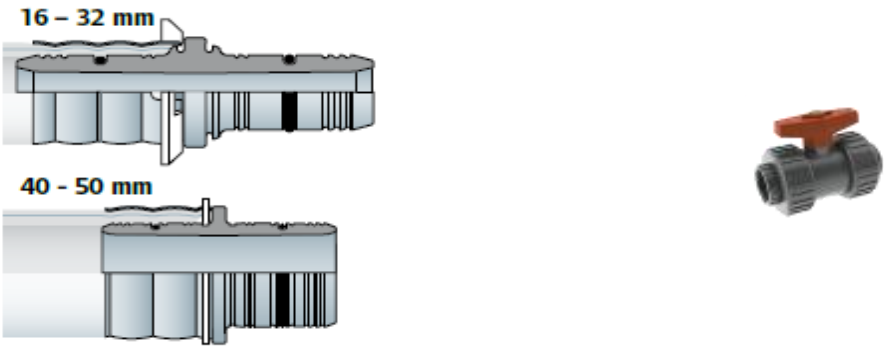


21ME006

This schedule refers to meters inside the building used for client monitoring purposes

These meters are in addition to any Council water flow meters to be provided

Data Sheet No.05			
Project:	Cahir Market House		Data Sheet: Drinking Water Pipe-work
Project No.	21ME006		Revision: T01
Client:	Tipperary County Council		Date: 06/03/2026
Drinking Water System Pipe-work			
General		Construction	
Required:	For all drinking water pipe-work from building entry to water tanks and all legs feeding drinking water taps		
Construction:	Multi-Layer composite pipe consisting of a lap-welded aluminum (100% oxygen proof) diffusion barrier; with an inner layer of polyethylene with a minimum roughness $k=0.0004\text{mm}$ ensuring a lower pressure loss and an outer layer of polyethylene all having high temperature resistant polyethylene in accordance with DIN 16883 and diffusion tight exceeding the requirements of DIN 4726		
Thermal Conductivity:	0.4 W/mxk	Co-eff of Expansion	$25 \times 10^{-6} \text{ m/mxk}$
Uponor (or equal and approved)		MLCP (or equal and approved)	
Photo			
			
Notes			
WRAS Approved			

Data Sheet No.06				
Project:	Cahir Market House		Data Sheet:	Drinking Water Fittings
Project No.	21ME006		Revision:	T01
Client:	Tipperary County Council		Date:	06/03/2026
Drinking Water System Fittings				
General			Construction	
Required:	For all drinking water pipe-work from building entry to water tanks and all legs feeding drinking water taps			
Construction:	To ensure that drinking water does not come into contact with metal. Generally, PVC-U valves and PPSU press fittings for joints.			
Joints - Uponor / Valves - ASV Stubbe (or equal and approved)			PPSU MLC Composite Press Fittings (or equal and approved)	
Photo				
				
Notes				
WRAS Approved				

Mechanical Data Sheet No.07

Project:	Cahir Market House	Data Sheet:	Under Sink Heaters
Project No.	21ME006	Revision:	T01
Client:	Tipperary County Council	Date:	06/03/2026

Under Sink Heaters

	No-off	Height (mm)	Depth (mm)	Length (mm)	Model	Output (W)	Storage Capacity (liter)
USH-01	4	300	200	300	TRITON INSTAFLOW	1500	5
TOTALS	4					6000	20



Notes

1	Suitable for Cold Mains Supply only
2	Wall Mounted
3	Variable Temperature Setting
4	ABS Body
5	Mains Powered
6	Overheat Protection
7	2 Year Guarentee

Water Services Data Sheet No.8					
Project:	Cahir Market House		Data Sheet:	Hot Water Boiler	
Project No.	21ME006		Revision:	T01	
Client:	Tipperary County Council		Date:	06/03/2026	
Hot Water Boiler					
Boiler Ref	Location	Capacity (L)	Rating (kW)	Recovery (cups/hr)	Size (w/d/h mm)
HWB-01	Teachers and Staff	5.0	2.4	100	318x198x465
Manufacturer			Product		
Zip (or equal and approved)			Hydroboil Plus (or equal and approved)		
Photo					
					
Notes					
Finish to be Stainless Steel Unit shall store incoming cold water seperately from hot water Unit shall recycle energy from steam waste to pre-heat incoming cold water Unit to have high temperature insulation Power usage to automatically adjust to the load Unit to automatically enter an energy saving heat mode 2 hrs after end of use is detected An integral light detector is to automatically place the unit in sleep mode An integrated 24 hr 7 day timer shall be provided to turn the unit off when not required Boiling chamber to be stainless steel External surface of water boiler to be cold to the touch Two year warranty shall be provided including on-site parts and labour					