

Room Name	Water Treatment Plant Room		Room Number	WTPL
Revision	3			
Issue Date	20.03.17			
BRIEFING				
Briefed Area	15.00 m ²			
Hours of Operation	24 Hours			
Occupancy	1 - 2			
Acoustics	High level sound isolation			
Remarks				
Description / Special Requirements	<p>The Water Treatment Plant Room is a lockable room for water treatment systems used in dialysis, including booster pumps, particle filters, water softeners, carbon filters and reverse osmosis systems. Refer to Manufacturer's Specifications for details of Reverse Osmosis (RO) Water Treatment Plant equipment. In particular this equipment will incorporate a heat disinfection function, and water saving features. The Water Treatment Plant Room should be located in close proximity to the Renal Dialysis Unit to permit short tubing runs to each Treatment Bay, and permit staff to monitor and service the water treatment systems. Special Design Requirements: Ventilation, exhaust and/or airconditioning must be designed to accommodate the heat loads of the specified equipment. High level sound isolation is required to ensure noise generated from this room does not invade Treatment spaces. Structural Engineer's assessment must be sought for floor load bearing capacity with respect to water treatment and pre-treatment plant equipment. Service access will be required around the perimeter of all plant equipment. Pipework and components installed after the water inlet within this room shall not contain brass or copper.</p>			
SERVICES				
General Requirements	BODY PROTECTED = No		CARDIAC PROTECTED = No	
Air	AIRCONDITIONING = Yes AIRCONDITIONING: positive pressure = No EXHAUST: room exhaust = Yes		AIRCONDITIONING: hepa filtered = No AIRCONDITIONING: negative pressure = No VENTILATION = No	
Lighting	LIGHTING: colour corrected = No LIGHTING: downlights = No LIGHTING: fluorescent, downlights = No LIGHTING: fluorescent, general = Yes		LIGHTING: dimmable = No LIGHTING: downlights, dimmable = No LIGHTING: fluorescent, flush with ceiling, tamper proof = No LIGHTING: indirect = No	
Nurse Call	NURSE CALL SYSTEM = No			

Room Fabrics

AusHFG code	Description	Comment
CLFS-009	CEILING: plasterboard, water resistant, flush set, suspended, paint, washable	Min Height 2400mm; Water resistant drop in tile ceiling also acceptable
DWSC-027	DOOR: 1600mm c/o, 1 1/2 leaf, solid core, paint	lockable
DWPR-006	DOOR PROTECTION: protection plate, to 900 AFFL, PVC, prefinished	Equal to 'Acrovyn'
DWPR-010	DOOR PROTECTION: to door frame, PVC, prefinished	Equal to 'Acrovyn'
FLGE-003	FLOOR FINISH: concrete, sealed, trowel	
FLSK-002	SKIRTING: concrete, coved to 150 AFFL, sealed	
WLWA-004	WALL FINISH: paint, acrylic, washable	

Fittings, Furniture and Equipment (FF&E) Items

AusHFG code	Description	Group	Qty	Comment
FIJO-020	BENCH: 600D, open under, laminate finish	1	1	work bench

Room Name | Water Treatment Plant Room
Room Number WTPL

AusHFG code	Description	Group	Qty	Comment
HYGE-016	PUMP: pressure booster	3	2	as needed to achieve required water pressure
FQBS-051	STOOL: mobile, adj height	3	1	under bench
HYGE-012	WATER TREATMENT: reverse osmosis plant	3	1	RO Plant; details according to Manufacturer's Specifications

Engineering Services

AusHFG code	Description	Group	Qty	Comment
ITBU-002	ALARM: equipment monitoring, water treatment malfunction	1	1	to Staff Station - Renal Unit for Plant Equipment status/malfunction
HYDR-004	DRAIN: floor waste	1	1	floor waste must be capable of high flow rates and high temperature water (up to 95 degrees C) from the RO Water Plant
ELGP-223	GPO: emergency power, double, wall mounted	1	4	for use of hand tools in the room, on a separate circuit
ELGP-106	GPO: single, special, for equipment	1	2	pumps, as required
ELGP-140	GPO: three phase, single	1	1	3 phase, according to Manufacturer's specifications
HYTP-008	OUTLET: cold water	1	1	inlet for RO water treatment plant equipment
ELBO-015	SWITCH: light, single	1	1	
HYGE-019	WATER TREATMENT: brine tank	1	1	
HYGE-020	WATER TREATMENT: carbon filter	1	2	
HYGE-021	WATER TREATMENT: multimedia tank	1	2	
HYGE-022	WATER TREATMENT: particle filter, 1 micron	1	1	
HYGE-023	WATER TREATMENT: particle filter, 5 microns	1	1	
HYGE-024	WATER TREATMENT: softener tank	1	1	