

Department	Standard Components	Room Tag:	4785
Room Name	Water Treatment Plant Room	Room Code:	WTPL-SJ
<b>Net Room Area Briefed</b>	15.0 M2		
<b>No of Rooms</b>	1		
<b>Subtotal of Briefed Area</b>	15.00 M2		
<b>Hours of Operation</b>	24 Hours		
<b>Occupancy</b>	1 - 2		
<b>Also covers these Rooms</b>			
<b>Description/ Special Requirements</b>	<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.</p> <p>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.</p> <p>Special Design Requirements:</p> <ul style="list-style-type: none"> <li>- Ventilation, exhaust and/or airconditioning must be designed to accommodate the heat loads of the specified equipment.</li> <li>- High level sound isolation is required to ensure noise generated from this room does not invade Treatment spaces</li> <li>- Structural Engineer's assessment must be sought for floor load bearing capacity with respect to water treatment and pre-treatment plant equipment</li> <li>- Service access will be required around the perimeter of all plant equipment</li> <li>- Pipework and components installed after the water inlet within this room shall not contain brass or copper</li> </ul>		
<b>Amendment</b>	13.03.2014 - First Issue		

### Room Fabric and outline specifications

ID	Fabric	Material	Finish	Specification	Selection	Remarks
5021	Ceiling	Plasterboard	Paint, washable	Water resistant, flush set, suspended		Min Height 2400mm; Water resistant drop in tile ceiling also acceptable
8010	Door protection	Composite	Prefinished PVC	Protection plate to 900 AFFL		
8040	Door protection	Composite	Prefinished PVC	To door frame		
9110	Doors	Solid Core	Paint	1 1/2 leaf		1600mm clear opening, lockable
1280	Floor finish	Concrete	Trowel	Sealed		
2155	Skirting	Concrete	Sealed	Coved concrete to 150 AFFL		
3000	Wall finish	Paint	Acrylic, washable			

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**Fittings and Furniture (FF)**

ID	Description	Category	Group	Qty	Selection / Remarks
1050	Bench: laminate	Furniture/ Fitting	1	1	work bench
21680	Stool: adjustable, mobile	Furniture/ Fitting	3	1	under bench

**Fixtures, Equipment and associated Services (FE)**

ID	Description	Group	Qty	Ele	Data	Cd	WH	TW	/m	WTap	Dns	Gas	Selection / Remarks
42295	Pump: pressure booster	3	2	yes	___	___	___	___	___	___	___	___	as needed to achieve required water pressure
61295	Water treatment plant	3	3	yes	___	yes	___	___	___	___	yes	___	RO Plant; details according to Manufacturer's Specifications

**Services**

ID	Description	Service Category	Qty	Selection / Remarks
1002	Alarm	Communications	1	to Staff Station - Renal Unit for Plant Equipment status/ malfunction
5000	Airconditioning	HVAC		A/C & exhaust system to accommodate heat loads generated by plant equipment
5019	Exhaust	HVAC		heat extraction will be required
4005	Cold water	Hydraulics	1	inlet for RO Water Treatment Plant Equipment
4033	Floor waste	Hydraulics	1	floor waste must be capable of high flow rates and high temperature water (up to 95 degrees C) from the RO Water Plant
6000	General fluorescent	Lighting		
9011	GPO: Emergency power, double	Power	4	for use of hand tools in the room, on a separate circuit
9060	GPO: Special: for equipment	Power	1	3 phase, according to Manufacturer's specifications
9060	GPO: Special: for equipment	Power	2	pumps, as required