

NSW Standard Project
Room Data Sheets

| | | |
|--|---|------------------------|
| Department | Standard Components | Room Tag: 4785 |
| Room Name | Water Treatment Plant Room | Room Code: WTPL |
| Area | 15.0 M2 | |
| No of Rooms | 1 | |
| Subtotal of Area | 15.0 M2 | |
| Hours of Operation | 24 Hours | |
| Occupancy | 1 - 2 | |
| Also covers these Rooms | | |
| 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.</p> <p>Special Design Requirements:</p> <ul style="list-style-type: none"> - 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 | |
| Amendment | 20.05.06, - First Draft | |

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 | | Equal to 'Acrovyn' |
| 8040 | Door protection | Composite | Prefinished PVC | To door frame | | Equal to 'Acrovyn' |
| 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 | | | |

Fittings and Furniture (FF)

| ID | Description | Category | Group | Qty | Selection |
|------|-----------------|--------------------|-------|-----|------------|
| 1050 | Bench: laminate | Furniture/ Fitting | 1 | 1 | work bench |

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Department Standard Components
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|-------|---------------------------|--------------------|-------|-----|-------------|
| 21680 | Stool: adjustable, mobile | Furniture/ Fitting | 3 | 1 | under bench |

Fixtures, Equipment and associated Services (FE)

| ID | Description | Group | Qty | Ele | Data | CdW | HtW | WmW | Tap | Dns | Gas | Selection |
|-------|------------------------|-------|-----|-----|------|-----|-----|-----|-----|-----|-----|--|
| 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 | 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 |