THORNTHWAITE
EST 1933

Sport & Leisure – Commercial Bathroom Products

Specification Information

The following document provides specification information of our commercial bathroom products, specifically for sport & leisure facilities such as gymnasiums, aquatic centres, sports grounds & stadiums, community & leisure centres and amenities blocks etc. There are also other products in our range which can be found at the following sites:

Revit & ArchiCAD files: www.thornthwaite.com.au/resources/bim-cad/

Website: www.thornthwaite.com.au

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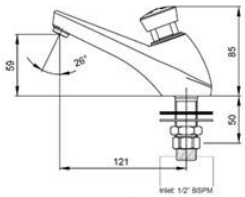
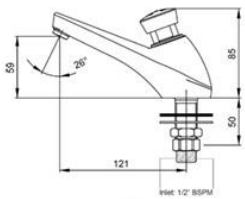
1. TAPWARE

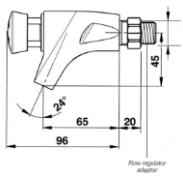
1.1. Presto 605 timed flow tap - cold

Supplier	Thornthwaite Technologies - 02 9417 4466	
Models	P64608 – Presto 605 timed flow tap - cold 7.5 sec	
WELS	6 Stars 5 L/min	
Approval	AS/NZS 3718	
Material	Polished chrome plated DR brass	
Location	Hand Basin	
Other info		
Web links	www.thornthwaite.com.au/product/presto-605-timed-flow-tap/	
Details to Specify	Basin-mounted timed flow push-button tap with automatic shut-off after 7.5 ± 2.5 seconds. Incorporates a self-cleaning mechanism, anti-corrosive and anti-liming internal components, dezincification-resistant (DR) brass body and 5 L/min flow regulator. Also available in the S® security system to prevent continuous water flow. Approvals: AS/NZS 3718, WELS 6 stars.	

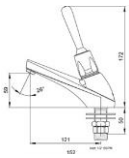
1.2. Presto 605 timed flow tap - warm

Supplier	Thornthwaite Technologies - 02 9417 4466	
Models	P64626 – Presto 605 timed flow tap - warm 7.5 sec	
WELS	6 Stars 5 L/min	
Approval	AS/NZS 3718	
Material	Polished chrome plated DR brass	
Location	Hand Basin	
Other info		
Web links	www.thornthwaite.com.au/product/presto-605-timed-flow-tap/	
Details to Specify	Basin-mounted timed flow push-button tap with automatic shut-off after 7.5 ± 2.5 seconds. Incorporates a self-cleaning mechanism to maintain shut off time, anti-corrosive and anti-liming internal components, dezincification-resistant (DR) brass body and 5 L/min flow regulator. Approvals: AS/NZS 3718, WELS 6 stars	

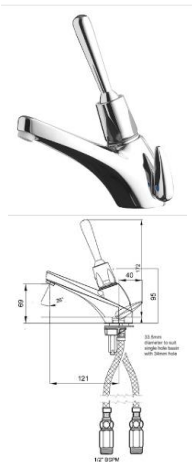
1.3. Presto 504 timed flow tap - cold

Supplier	Thornthwaite Technologies - 02 9417 4466	
Models	P63007 – Presto 504 timed flow tap - cold 7.5 sec	
WELS	6 Stars 5 L/min	
Approval	AS/NZS 3718	
Material	Polished chrome plated DR brass	
Location	Hand Basin	
Other info		
Web links	www.thornthwaite.com.au/product/presto-504-timed-flow-tap/	
Details to Specify	Wall-mounted timed flow push-button tap with automatic shut-off after 7.5 ± 2.5 seconds. Incorporates a self-cleaning mechanism to maintain shut off time, anti-corrosive and anti-liming internal components, dezincification-resistant (DR) brass body and 5 L/min flow regulator. Also available in the S® security system to prevent continuous water flow. Approvals: AS/NZS 3718, WELS 6 stars.	

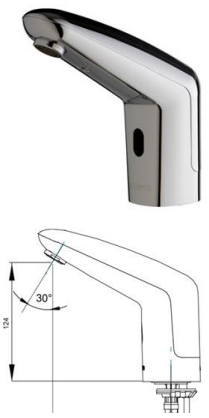
1.4. Presto 705 timed flow lever tap

Supplier	Thornthwaite Technologies - 02 9417 4466	
Models	P64654 – Presto 705 timed flow lever tap 7.5 sec	
WELS	6 Stars 5 L/min	
Approval	AS/NZS 3718	
Material	Polished chrome plated DR brass	
Location	Hand Basin	
Other info	Compliant with AS 1428.1 – 2009 when used with particular basins.	
Web links	www.thornthwaite.com.au/product/presto-705-timed-flow-tap/	
Details to Specify	Basin-mounted timed flow multi-directional lever operated tap with automatic shut-off after 7.5 ± 2.5 seconds. Incorporates a self-cleaning mechanism, anti-corrosive and anti-liming internal components, dezincification-resistant (DR) brass body and 5 L/min flow regulator. Approvals: AS/NZS 3718, WELS 6 stars and independently certified as compliant with AS 1428.1 – 2009 when used with particular basins.	

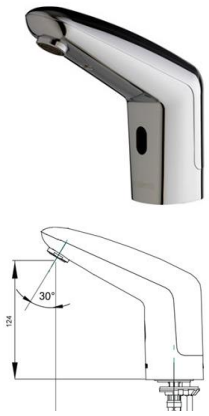
1.5. Presto 7000 timed flow lever mixer tap

Supplier	Thornthwaite Technologies - 02 9417 4466	
Models	P68027 – Presto 7000 timed flow lever mixer tap 7.5 sec	
WELS	6 Stars 5 L/min	
Approval	AS/NZS 3718	
Material	Polished chrome plated DR brass	
Location	Hand Basin	
Other info		
Web links	www.thornthwaite.com.au/product/presto-7000-timed-flow-mixer-tap/	
Details to Specify	Basin-mounted timed flow lever operated tap with automatic shut-off after 7.5 ± 2.5 seconds. Incorporates a self-cleaning mechanism to maintain shut off time, anti-corrosive and anti-liming internal components, dezincification-resistant (DR) brass body and 5 L/min flow regulator. Approvals: AS/NZS 3718, WELS 6 stars.	

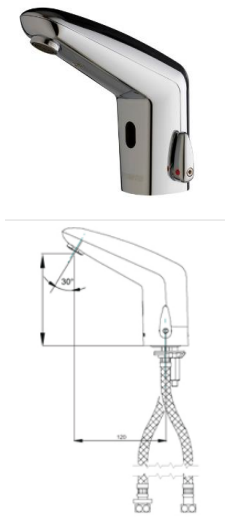
1.6. Presto Volta sensor tap - battery

Supplier	Thornthwaite Technologies - 02 9417 4466	
Models	P55066 – Presto Volta sensor tap – battery	
WELS	6 Stars 4 L/min	
Approval	AS/NZS 3718	
Material	Polished chrome plated zinc alloy (ZAMAC) outer body casing	
Location	Hand Basin	
Other info		
Web links	www.thornthwaite.com.au/product/presto-volta-sensor-tap/	
Details to Specify	Basin mounted sensor tap. Incorporates a 4 L/min flow regulator, infra-red sensor, solenoid valve and 6 volt lithium battery enclosed within the tap body. Approvals: AS/NZS 3718, WELS 6 stars.	

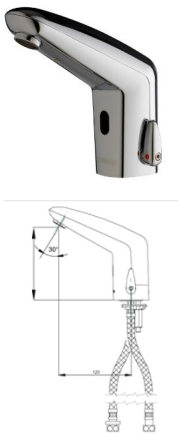
1.7. Presto Volta sensor tap -mains

Supplier	Thornthwaite Technologies - 02 9417 4466	
Models	P55053 – Presto Volta sensor tap - mains	
WELS	6 Stars 4 L/min	
Approval	AS/NZS 3718	
Material	Polished chrome plated zinc alloy (ZAMAC) outer body casing	
Location	Hand Basin	
Other info		
Web links	www.thornthwaite.com.au/product/presto-volta-sensor-tap/	
Details to Specify	Basin mounted sensor tap. Incorporates a 4 L/min flow regulator, infra-red sensor, solenoid valve enclosed within the tap body. External 240V AC/7V DC (IP65) transformer for connection to mains power. Approvals: AS/NZS 3718, WELS 6 stars.	

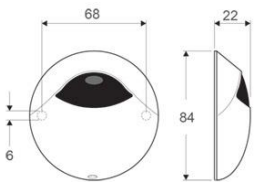
1.8. Presto Volta sensor mixer tap -mains

Supplier	Thornthwaite Technologies - 02 9417 4466	
Models	P55154 – Presto Volta sensor mixer tap - mains	
WELS	6 Stars 4 L/min	
Approval	AS/NZS 3718	
Material	Polished chrome plated zinc alloy (ZAMAC) outer body casing	
Location	Hand Basin	
Other info		
Web links	www.thornthwaite.com.au/product/presto-volta-sensor-mixer-tap/	
Details to Specify	Basin mounted sensor tap. Incorporates a 4 L/min flow regulator, infra-red sensor, solenoid valve enclosed within the tap body. External 240V AC/7V DC (IP65) transformer for connection to mains power. Approvals: AS/NZS 3718, WELS 6 stars.	

1.9. Presto Volta sensor mixer tap - battery

Supplier	Thornthwaite Technologies - 02 9417 4466	
Models	P55169 – Presto Volta sensor mixer tap - battery	
WELS	6 Stars 4 L/min	
Approval	AS/NZS 3718	
Material	Polished chrome plated zinc alloy (ZAMAC) outer body casing	
Location	Hand Basin	
Other info		
Web links	www.thornthwaite.com.au/product/presto-volta-sensor-mixer-tap/	
Details to Specify	Basin mounted sensor tap. Incorporates a 4 L/min flow regulator, infra-red sensor, solenoid valve and 6 volt lithium battery enclosed within the tap body. Approvals: AS/NZS 3718, WELS 6 stars.	

1.10. Rada Pulse 120 sensor system for basins

Supplier	Thornthwaite Technologies - 02 9417 4466	
Models	650631 – Rada Pulse 120 sensor operating system for basins	
WELS	6 Stars 6 L/min	
Approval	AS/NZS 3718	
Material	Chrome plated durable engineering plastic outer cover	
Location	Hand Basin	
Other info	Can be used with any basin spout	
Web links	www.thornthwaite.com.au/product/rada-pulse-120-sensor/	
Details to Specify	Each basin outlet to be served by one wall mounted Rada Pulse 120 sensor operating system for 'no touch' flow control. Incorporating an active infra-red sensor, 1/2" BSPM solenoid valve, isolating ball valve and 6 L/Min flow regulator. For connection to the Rada Pulse Control Box, this provides connection up to 10 outlet fixtures. AS/NZS 3718	

2. SHOWER CONTROLS

Rada Pulse allows the facility to program the flow time of the showers.

2.1. Rada Pulse 120 sensor system for showers

Supplier	Thornthwaite Technologies - 02 9417 4466	
Models	750634 – Rada Pulse 120 sensor operating system for showers	
Approval	AS/NZS 3718	
Material	Chromium plated durable engineering plastic	
Location	Showers	
Other info	Must Connect to Rada Pulse control box. Install sensor offset to spout	
Web links	www.thornthwaite.com.au/product/rada-pulse-120-sensor/	
Details to Specify	Each shower to be served by one wall mounted Rada Pulse 120 sensor operating system for 'no-touch' flow control. Complete with active infra-red sensor, 1/2" BSPM solenoid valve and isolating ball valve. For connection to the Rada Pulse Control Box. AS/NZS 3718	

2.2. Rada Pulse Control Box

Supplier	Thornthwaite Technologies - 02 9417 4466	
Models	09379 – Rada Pulse Control Box	
Approval	AS/NZS 3718, ATS 5200.020	
Material	Chromium plated durable engineering plastic	
Location	Bathroom	
Other info	Electrician to provide 240 VAC power point. Install cabling from sensors & solenoid valves to Control Box.	
Web links	www.thornthwaite.com.au/product/rada-pulse-control-box/	
Details to Specify	Rada Pulse Control Box is a complete washroom water control unit with an integral 240VAC/12VAC transformer. Controls up to 10 solenoid valves via the activation of Rada Pulse sensors for water flow to basins, showers and/ or urinals (in any combination). AS/NZS 3718, ATS 5200.020	

2.3. Rada Pulse Handheld Programmer

Supplier	Thornthwaite Technologies - 02 9417 4466	
Models	09380 – Rada Pulse Handheld programmer	
Approval	AS/NZS 3718, ATS 5200.020	
Material	Chromium plated durable engineering plastic	
Location	Bathroom	
Other info		
Web links	www.thornthwaite.com.au/product/rada-pulse-handheld-programmer/	
Details to Specify	Rada Pulse Hand Held Programmer used to program the Rada Pulse Control Box. Includes four touch sensitive buttons, alphanumeric display and a 3m extendible coiled cable which plugs into the Rada Pulse control box when programming. AS/NZS 3718, ATS 5200.020	

2.4. Rada Pulse schematic

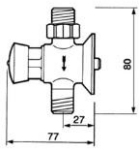
3. SHOWER CONTROLS FOR POOL DECK SHOWERS

The following have shorter flow times which are suitable for pool deck showers

3.1. Rada Mono 120 sensor system for showers

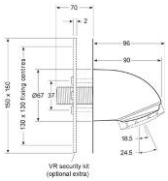
Supplier	Thornthwaite Technologies - 02 9417 4466	
Models	750904 – Rada Mono 120 sensor operating system - for showers	
Approval	AS/NZS 3718	
Material	Chromium plated durable engineering plastic	
Location	Showers	
Other info	Electrician to provide 240 VAC power. Install offset to showerhead.	
Web links	www.thornthwaite.com.au/product/rada-mono-120-sensor/	
Details to Specify	Each showerhead to be served by one wall mounted Rada Mono 120 sensor operating system for no-touch flow control. Complete with active infra-red sensor, 1/2" BSPM solenoid valve and isolating ball valve. AS/NZS 3718	

3.2. Presto 512 timed flow valve for showers

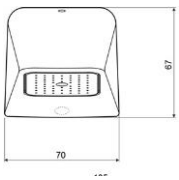
Supplier	Thornthwaite Technologies - 02 9417 4466	
Models	P31056 – Presto 512 timed flow valve for showers 15 sec	
WELS	6 Stars 5 L/min	
Approval	AS/NZS 3718	
Material	DR Brass	
Location	Showers	
Other info		
Web links	www.thornthwaite.com.au/product/presto-512-valve/	
Details to Specify	Wall-mounted timed flow push-button valve with automatic shut-off after 7.5 ± 2.5 seconds or 15 ± 5 seconds. Incorporates a self-cleaning mechanism, anti-corrosive and anti-liming internal components, dezincification-resistant (DR) brass body and 5.5 L/min flow regulator. AS/NZS 3718	

4. SHOWER HEADS

4.1. Rada VR105 vandal resistant showerhead

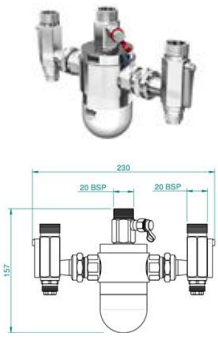
Supplier	Thornthwaite Technologies - 02 9417 4466	
Models	09877 – Rada VR 105 vandal resistant shower head	
WELS	3 stars	
Approval	AS/NZS 3662	
Material	Chrome plated DR brass	
Location	Showers	
Other info		
Web links	www.thornthwaite.com.au/product/rada-vr105-showerhead/	
Details to Specify	Rada VR105 (8.5 L/min) vandal resistant shower head for connection to concealed pipework, 1/2" BSP connection. Incorporates a fixed spray plate. Two different spray angles can be selected by maintenance staff. AS/NZS 3662	

4.2. Rada VR 2 vandal resistant showerhead

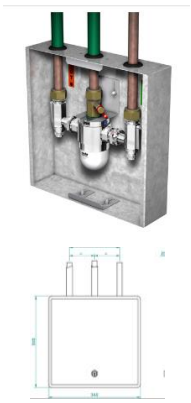
Supplier	Thornthwaite Technologies - 02 9417 4466	
Models	1652.009 – Rada VR2 vandal resistant shower head	
WELS	3 stars	
Approval	AS/NZS 3662	
Material	Chrome plated DR brass	
Location	Showers	
Other info		
Web links	www.thornthwaite.com.au/product/rada-vr2-showerhead/	
Details to Specify	Rada VR2 (8 L/min) vandal resistant shower head for connection to concealed pipework, 1/2" BSP connection. Incorporates a fixed spray plate. Two different spray angles can be selected by maintenance staff. AS/NZS 3662	

5. THERMOSTATIC MIXING VALVES

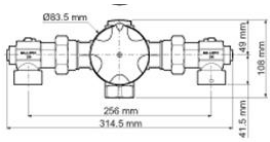
5.1. Rada 215dk in a kit thermostatic mixing valve

Supplier	Thornthwaite Technologies - 02 9417 4466	
Models	40861EK – Rada 215dk for exposed installation	
Approvals	AS 4032.1; NSW Health Approved	
Material	Chrome plated brass	
Location	Bathroom	
Other info		
Web links	www.thornthwaite.com.au/product/rada-215dk-thermostatic-mixing-valve-with-exposed-kit/	
Details to Specify	Rada 215dk thermostatic mixing valve with installation kit for exposed installation. Flow rate 2.5 - 50 L/min. Incorporating a sealed-for-life Radatherm cartridge; inlet check valve & strainer cartridges; inlet isolating ball valves; outlet temperature test point. Inlets and outlet 3/4" BSPM. Approvals: AS 4032.1 and NSW Health.	

5.2. Rada 215dk thermostatic mixing valve in a 300mm recessed box

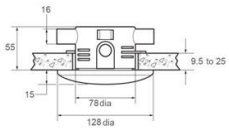
Supplier	Thornthwaite Technologies - 02 9417 4466	
Models	40861RB300 – Rada 215dk TMV in a recessed galvanised box with stainless steel lid	
Approvals	AS 4032.1; NSW Health Approved	
Material	Stainless steel lid	
Location	Bathroom	
Other info		
Web links	www.thornthwaite.com.au/product/rada-215dk-thermostatic-mixing-valve-in-a-box/	
Details to Specify	Rada 215dk TMV in a recessed galvanised (300 x 300 x 75mm) box with stainless steel lid. Flow rate 2.5 - 50 L/min. Incorporating a sealed-for-life Radatherm cartridge; inlet check valve & strainer cartridges; inlet isolating ball valves; outlet temperature test point; and 20mm copper inlet & outlet pipework. Approvals: AS 4032.1 and NSW Health.	

5.3. Rada 320 IF thermostatic mixing valve

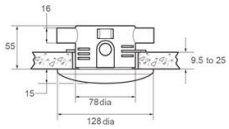
Supplier	Thornthwaite Technologies - 02 9417 4466	
Models	1847.014 – Rada 320 IF Thermostatic Mixing Valve	
Approvals	AS 4032.1; NSW Health Approved	
Material	Chrome plated brass	
Location	Bathroom	
Other info	The Rada 320oem is also available	
Web links	www.thornthwaite.com.au/product/rada-320-if-thermostatic-mixing-valve/	
Details to Specify	Rada 320cx thermostatic mixing valve. Flow rate 6 - 120 L/min. Incorporating a sealed-for-life Radatherm cartridge; isolating ball valves, inlet check-valves & strainers plus 1" BSPF connections. Approvals: AS 4032.1 and NSW Health.	

6. URINAL FLUSHING – MULTIPLE CONTROL

6.1. Rada Pulse 126 urinal flushing sensor system – 2 stalls

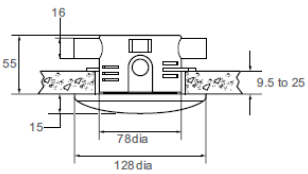
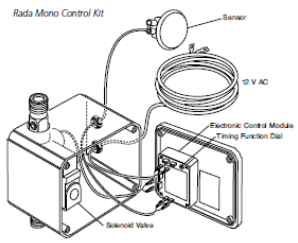
Supplier	Thornthwaite Technologies - 02 9417 4466	
Models	850671 – Rada Pulse 126 flushing system for urinals (2 stalls)	
WELS	1 star 2 litres per flush per stall	
Approval	ATS 5200.020	
Material	Engineering plastic	
Location	Urinals	
Other info	Must connect to the Rada Pulse Control Box	
Web links	www.thornthwaite.com.au/product/rada-pulse-125-126-urinal-sensor/	
Details to Specify	One ceiling mounted Rada Sensor urinal flushing system for 'no-touch' flushing to serve a trough or 2 stalls. Complete with passive infra-red sensor, 1/2" BSPM solenoid valve, isolating ball valve and air gap. For connection to the 09380 Rada Pulse Control Box. ATS 5200.020	

6.2. Rada Pulse 125 flushing system for urinals - single stall

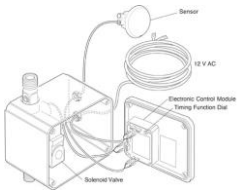
Supplier	Thornthwaite Technologies - 02 9417 4466	
Models	850661 – Rada Pulse 125 flushing system for urinals (1 stall)	
WELS	4 stars 1.4 litres per flush per stall	
Approval	ATS 5200.020	
Material	Engineering plastic	
Location	Urinals	
Other info	Must connect to the Rada Pulse Control Box	
Web links	www.thornthwaite.com.au/product/rada-pulse-125-126-urinal-sensor/	
Details to Specify	One ceiling mounted Rada Sensor urinal flushing system for 'no-touch' flushing to serve a single stall. Complete with passive infra-red sensor, 1/2" BSPM solenoid valve, isolating ball valve and air gap. For connection to the 09379 Rada Pulse Control Box. ATS 5200.020	

7. URINAL FLUSHING – INDIVIDUAL CONTROL

7.1. Rada Mono 125 urinal flushing sensor system – single stall

Supplier	Thornthwaite Technologies - 02 9417 4466	 
Models	850931 – Rada Mono 125 flushing system for urinals (1 stall)	
WELS	4 stars 1.4 litres per flush per stall	
Approval	ATS 5200.020	
Material	Engineering plastic	
Location	Urinals	
Other info		
Web links	www.thornthwaite.com.au/product/rada-mono-125-126-urinal-sensor/	
Details to Specify	One ceiling mounted Rada Mono 125 sensor operating system. Complete with passive infra-red sensor, 1/2" BSPM solenoid valve, isolating ball valve, air-gap and control module. ATS 5200.020	

7.2. Rada Mono 122 sensor system for urinals

Supplier	Thornthwaite Technologies - 02 9417 4466	
Models	850911 – Rada 122 wall-mounted urinal sensor is for single stall or single wall-hung urinals	
WELS	4 stars 1.4 litres per flush per stall	
Approval	ATS 5200.020	
Material	Chromium plated durable engineering plastic	
Location	Showers	
Other info	Electrician to provide 240 VAC power. Install offset to showerhead.	
Web links	www.thornthwaite.com.au/product/rada-mono-122-urinal-sensor/	
Details to Specify	Each urinal stall to be served by one wall mounted Rada Mono 122 urinal flushing system for 'no-touch' flushing. Complete with active infra-red sensor, 1/2" BSPM solenoid valve, isolating ball valve and air gap. ATS 5200.020	