

Correctional



Combys | Stainless Steel WCs
Flush Valves | Showers | Water Management
Vacuum Pumping | Accessories

About AVAC

Avac Australia was formed in the 90's as a sister company to RBA Group to deliver project specific outcomes to the construction market in Australia and New Zealand. Today Avac delivers high quality solutions in vacuum drainage, water management, vacuum solid waste and specialised plumbing fixtures and fittings. We have a specific focus on several key markets, one of which is Correctional (or Justice to some).

Avac has a wealth of experience in the correctional space, having pioneered many world first designs which are now common practice, not just in Australia, but around the globe. Ligature resistant angled combys, computerised water control and computerised integration of vacuum drainage and water control and now being used in the correctional industry world-wide after being developed by Avac.

Avac have supplied some of the most complicated and challenging projects ever seen in Australia, including the Melbourne Cricket Ground, Royal Brisbane Showground and Southern Queensland Correctional Centre.

Avac's capabilities comprise engineering and design (including BIM Modelling), site survey, supervision, project management, testing and commissioning. Avac has expertise in Hydraulic Design, Surveying, Mechanical Engineering and Electrical Data/ Comms.

With offices in Brisbane, Melbourne, Sydney and Auckland, we have people in the right places to ensure your project is delivered and maintained to the highest standards.

PROJECTS

Project	Combys	Toilets	Vacuum	Flush Valves	Tapware	Water Management (Master Trol)	Quantity
Arthur Gorrie	✓			✓	✓	✓	550
Adelaide Remand Centre	✓						24
Borallon		✓		✓		✓	425
Brisbane Correctional Centre	✓	✓		✓	✓	✓	530
Commonwealth Law Courts	✓				✓		20
Eastern Goldfields Regional Prison				✓			250
Frank Baxter Juvenile Justice				✓	✓		100
Southern Queensland CC			✓	✓	✓	✓	300
Long Bay	✓	✓					65
Lotus Glen	✓	✓	✓	✓	✓	✓	750
Maryborough	✓	✓	✓	✓	✓		500
Parkville Juvenile Justice	✓	✓		✓	✓		35
Townsville Men's				✓	✓	✓	200
Townsville Women's				✓	✓	✓	100
Wolston Men's	✓	✓	✓	✓	✓		500
Brisbane Womens	✓	✓	✓	✓	✓		250
Woodford	✓	✓	✓	✓	✓		450
Woodford II	✓	✓	✓	✓	✓		450
Aust. Federal Police	✓			✓	✓	✓	20

**5000+ fixtures installed in Australian
secure facilities - zero escapes**





STANDARD COMBY™

Ligature-resistant
Combined WC & basin
Integrated seat
Flushing and tapware
options available
Cat.# 0102



ROUNDED COMBY™

Ligature-resistant
Combined WC & basin
Integrated seat,
Ligature-resistant
Flushing and tapware options
available. Straight and Angled
Cat.# 0117



CISTERN COMBY™

Ligature-resistant
Combined WC, cistern & basin
Integrated seat
Flushing and tapware
options available
Straight and Angled
Cat.# 0123



BUDGET COMBY™

Combined WC & basin
Integrated seat
Flushing and tapware
options available
Straight and Angled
Cat.# 0135



P/S TRAP STAINLESS WC

Ligature-resistant
Integrated seat
Flushing options available
Cat.# 1109



BARIATRIC WC, ENVIRO-GLAZE® WHITE

Flushing options available
Cat.# 1114



ACCESSIBLE STAINLESS WC

Ligature-resistant
Integrated seat
Flushing options available
Cat.# 1126



AMBULANT STAINLESS WC

Ligature-resistant
Integrated seat
Flushing options available
Cat.# 1138



STAINLESS SUITE

Integrated seat
Cat.# 1141



ACCESSIBLE STAINLESS SUITE

Integrated seat
Cat.# 1152



DUAL FLUSH FLUSH VALVE, INCL. PLATE

Ligature-resistant through-wall
options available
Cat.# 1107

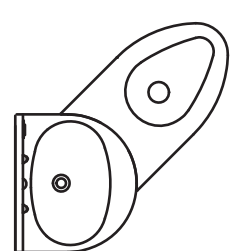
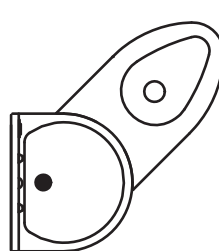
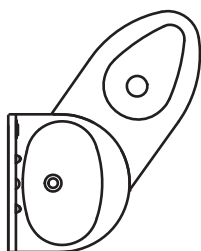
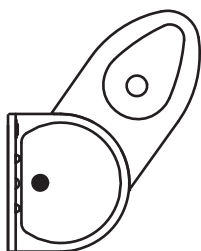
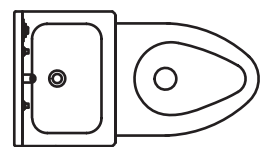
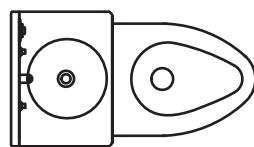
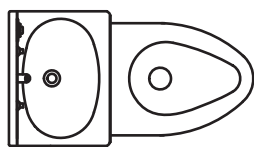
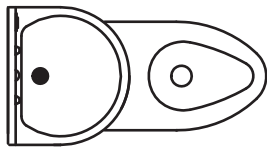



DUAL FLUSH FLUSH VALVE, NO PLATE


Ligature-resistant through-wall
options available
Cat.# 1113

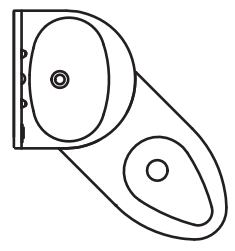
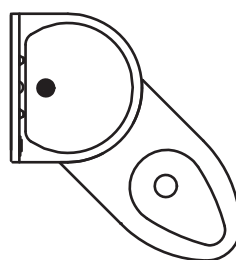
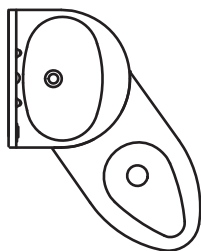
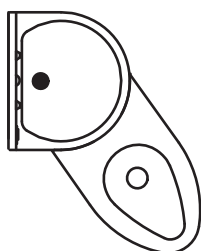


AVAC COMBYS ARE AVAILABLE IN A LARGE RANGE OF SHAPES, OPTIONS AND ACCESSORIES TO SUIT YOUR FACILITY



35° 

45° 

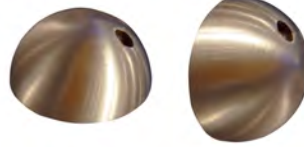


TAPWARE & VALVES



JUSTICE SHOWER SET

Ligature-resistant
Options available
Cat.# 3225



DOMESPOUT

Ligature-resistant
Mounting options:
Horizontal **Cat.# 3234**
Vertical **Cat.# 3235**



SHOWER PANEL

Ligature-resistant
Self closing tapware
Adjustable runtime,
single temp
5-60 seconds,
no electricity req'd
Cat.# 3240



SHOWER PANEL 2

Ligature-resistant
Self closing tapware
Adjustable runtime, dual temp
5-60 seconds,
no electricity req'd
Cat.# 3241



SINGLE TEMP SHOWER CONTROL, SMALL

Ligature-resistant
Self closing tapware
No electricity req'd,
Adjustable runtime:
5-60 seconds
Cat.# 3250



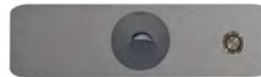
DUAL TEMP SHOWER CONTROL, SMALL

Ligature-resistant
Self closing tapware
No electricity req'd,
Adjustable runtime:
5-60 seconds
Cat.# 3251



SINGLE TEMP SHOWER CONTROL, WIDE

Ligature-resistant
Self closing tapware
No electricity req'd,
Adjustable runtime:
5-60 seconds
Cat.# 3252



ELECTRONIC SINGLE TEMP SHOWER CONTROL

Self closing tapware wide plate
Adjustable runtime:
5 seconds – 5 minutes
Cat.# 3360



ELECTRONIC PUSHBUTTON, SHOWER

Ligature-resistant timed flow tapware
Cat.# 3361



ELECTRONIC PUSHBUTTON, HANDWASH

Ligature-resistant timed flow tapware
Cat.# 3362



SHOWER VALVE

Self closing tapware
10 Seconds **Cat.# 3253**
30 Seconds **Cat.# 3254**



THRU-WALL VALVE ACTUATORS

Suitable for Flush Valves and some tapware
Low security **Cat.# 3267**

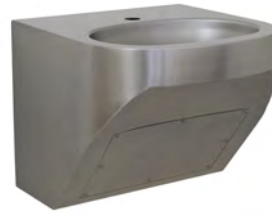
Ligature-resistant **Cat.# 3266**

BASINS & TAPWARE



SECURITY BASIN

Ligature-resistant
Options available
Cat.# 4005



ACCESSIBLE BASIN

Low security
Cat.# 4019



FULL HEIGHT BASIN

Ligature-resistant
Options available
Cat.# 4024



ENCLOSED BASIN

Low security
Options available
Cat.# 4036



HEAVY DUTY WATER COOLER

2.0mm Stainless
Options available
Cat.# 4048



FLEXIBLE BUBBLER

Low security
Other options available
Cat.# 4049



TAPWARE KIT

Ligature-resistant, Dual Temp
Pneumatic
with Justice Conical outlet
Cat.# 3363

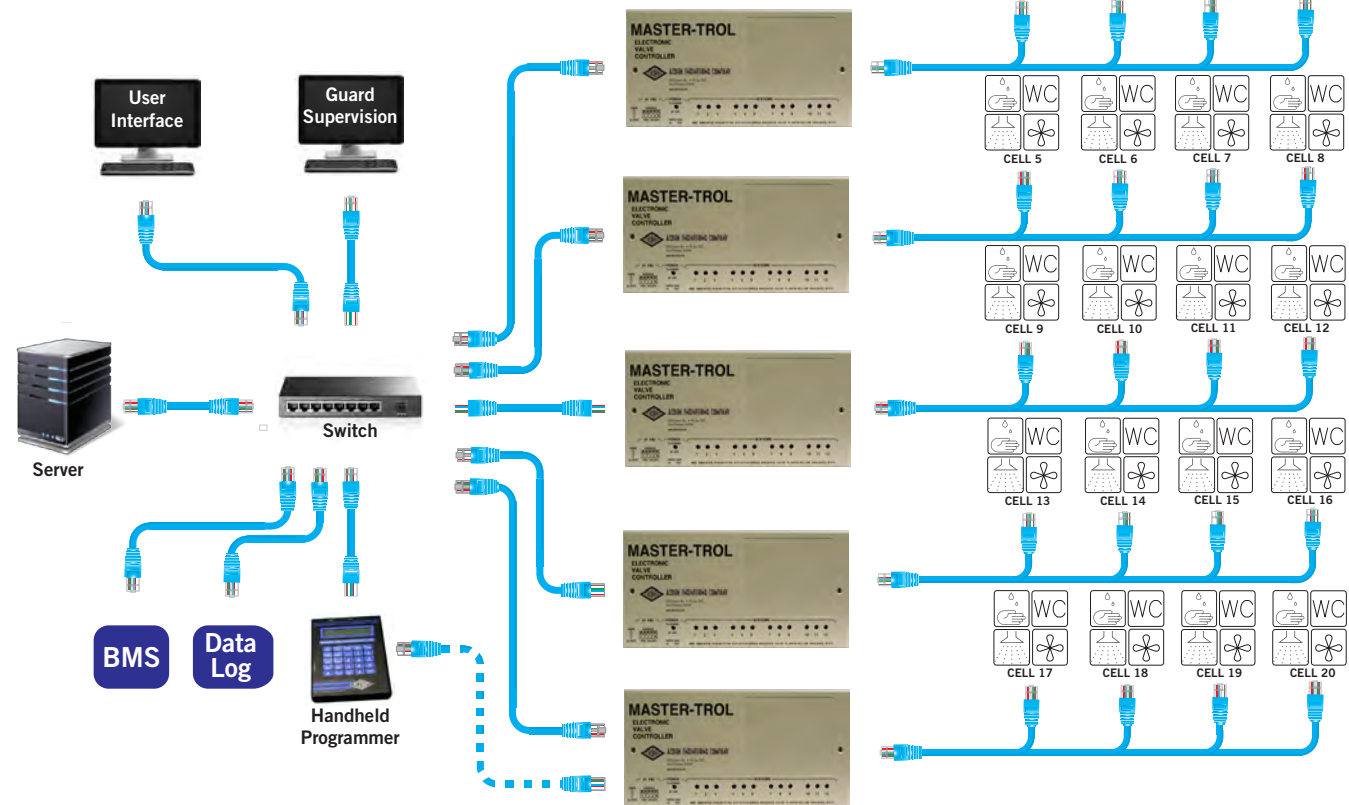
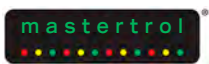


TAPWARE KIT II

Ligature-resistant, Dual Temp
Electronic
with Justice Conical outlet
Cat.# 3364



WATER MANAGEMENT



MASTER-TROL®

Master-Trol® is an electronic water management software system used to regulate and provide complete control over all plumbing fixtures in a facility. With Master-Trol®, each valve in every fixture can be pre-programmed or controlled via a local area network to monitor and restrict use. It enables the facility manager to set the number of flushes allotted within a time period, and to specify when and for how long a tap or shower is to remain active, consequently reducing inmate water usage and improving the sustainability of a facility.

- Monitor an infinite number of valves simultaneously from remote computers to multiple locations. Multiple servers can be linked to increase system capability.
- Enable or disable multiple water valves
- Increase or decrease metering times
- Increase or decrease lockout times
- Real-time reporting of water use
- Prevents floods or abuse of water privileges
- Easy navigation with detailed location descriptions and search
- Regulates use and contributes to overall reduction in water consumption
- Electronic valves
- Complete control during lock down with ability to control 1 cell, 1 cell block or complete facility without leaving a 'last flush' (typical with gravity systems).

VALVES

Air-Trol, Justice and Justice II offer different levels of control over fixture and water use.

AIR-TROL:

- Can be remotely located and are ideally suited for small chase areas
- Pushbutton activation
- Includes stainless steel strainer and integral checkstop
- No electricity required
- Adjustable runtime: 5-60 seconds

JUSTICE:

- Metering valve mode limits duration of use
- Cycle interrupt feature sets interval time between uses (1 sec- 9min)
- LED light indicates activity & allows easy troubleshooting
- Located at point of use or up to 30m away
- Electronic valve (uses low-voltage 24 VAC power)
- Suitable for piezo electric pushbuttons

JUSTICE II:

- Similar to Justice with added ability to control 2 valves



AIR-TROL SINGLE VALVE

Pneumatic operation, 1/2"
 No electricity required
 Adjustable runtime: 5-60 seconds
 Other button options available
Cat. #3255



AIR-TROL DOUBLE VALVE

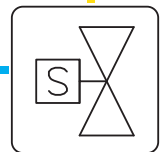
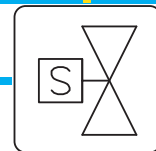
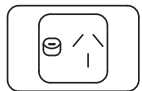
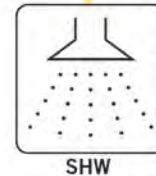
Pneumatic operation, 1/2"
 No electricity required
 Adjustable runtime: 5-60 seconds
 Other button options available
Cat. #3256



JUSTICE SHOWER CONTROLLER

Electronic operation
 Adjustable runtime: 5 seconds - 5 minutes

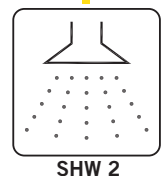
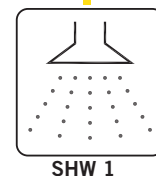
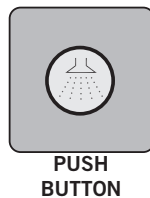
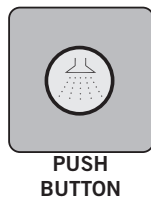
Cat. #3230 Valve controller kit
Cat. #3231 As per #3230 plus 7Lpm shower head



JUSTICE II VALVE CONTROLLER

Electronic operation
 Adjustable runtime: 5 seconds - 5 minutes

Cat. #3232 Dual Valve Controller Kit



VACUUM DRAINAGE

One of the biggest issues with wastewater drainage (sewerage) in a Correctional Facility is the potential for blockage which can result in significant security risks as inmates are relocated for maintenance purposes.

Vacuum Plumbing Systems, which were first introduced in Australia by Avac in the early 90's, are a simple and viable alternative to conventional gravity waste systems that use the combined energies of vacuum pressure and gravity for the transport and disposal of waste from plumbing fixtures such as toilets, sinks and showers through a piping network that can be routed above ground.

Through employing the very latest technology in systems engineering and equipment Avac Vacuum Drainage systems offer significant benefits including:

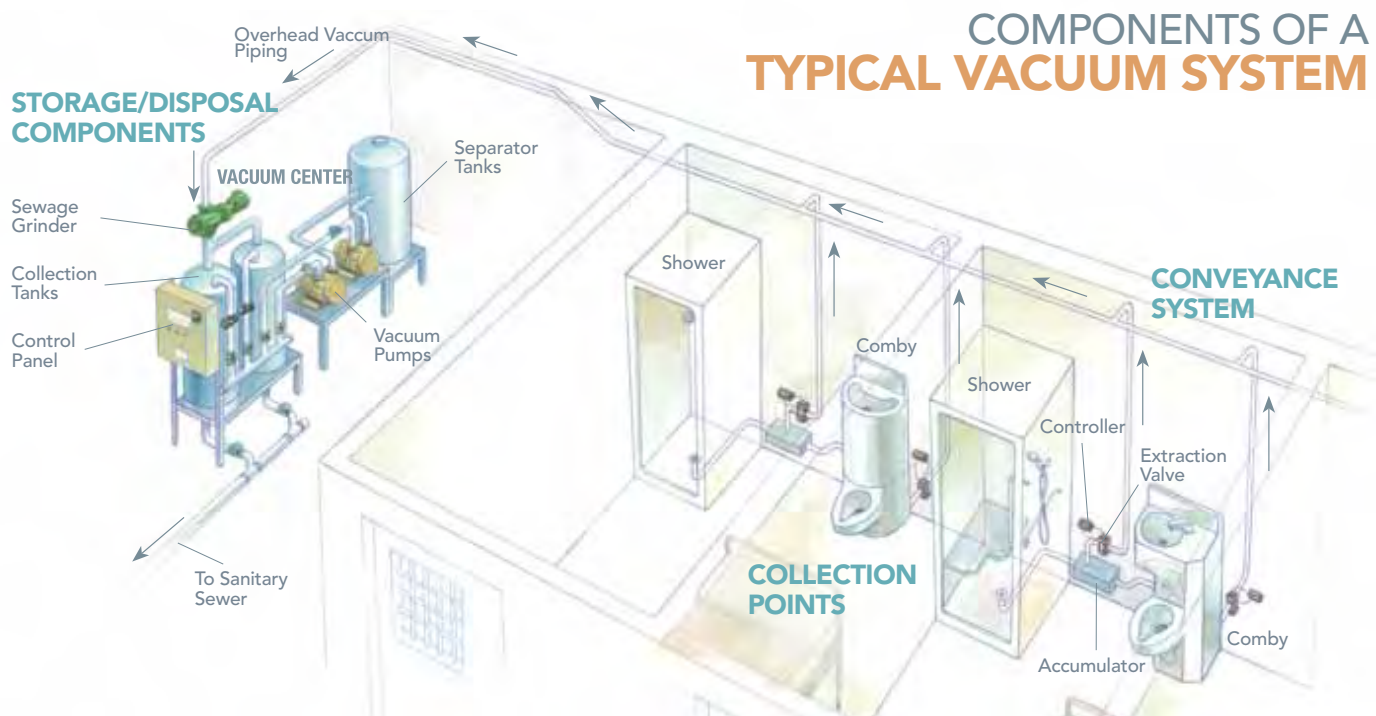
- Direct connection of multiple toilets into the same waste stack is eliminated, thereby preventing inmates from passing contraband between cells.
- Vacuum toilets eliminate cell-to-cell communication that inmates often use to create “planned plumbing chaos” by organising large “group flushes” that are typical for gravity drainage systems.
- The operational dynamics of a vacuum plumbing system result in fewer main line blockages, reducing maintenance cost and disruption. When toilet blockages do occur, they are easily located at the fixture, rather than within the waste

line. This feature allows staff to easily identify inmates who routinely try to vandalise the plumbing system, promoting significantly improved security and control.

- In conjunction with an electronic water management system such as Master-Trol, individual cells or groups of cells can be “turned off” prior to a security sweep to prevent contraband or other incriminating evidence from being flushed away.
- Vacuum flush toilets do not splash during the flush cycle, significantly reducing the spread of bacteria within the facility, promoting a healthier environment for staff and prison populations.

Avac Vacuum Drainage systems are installed in the following Correctional Centres:

- Woodford Correctional Centre, Qld
- Wacol Mens, Qld
- Brisbane Womens, Qld
- Gatton, Qld
- Maryborough, Qld
- Lotus Glenn Correctional Centre, Qld



For illustration purposes only

SECURITY ACCESSORIES



DOUBLE TOILET ROLL HOLDER, HEAVY DUTY

255mm W x 150mm H
2.5mm Stainless
Cat.# 5002



STAINLESS MIRROR

Ligature resistant
286mm W x 438mm H
Cat.# 5017



SHOWER SHELF

Ligature resistant
150mm W x 250mm H
Cat.# 5023



SOAP DISH

Ligature resistant
178mm W x 127mm H
Cat.# 5035



SHELF

Concealed Fixings
406mm W x 63mm H
Cat.# 5049



SOAP DISH

125mm W x 45mm H
Cat.# 5054



TOILET ROLL HOLDER

Ligature resistant
178mm Sq
Cat.# 5066



TOILET ROLL HOLDER

Ligature resistant
285mm W x 200mm H
Cat.# 5078



AUTO-RELEASE HOOK

108mm Sq
Cat.# 5081



LIGATURE RESISTANT HOOK

130mm Sq
Cat.# 5092



SHARPS DISPOSAL

117mm W x 275mm H
Cat.# 5107 Yellow
Cat.# 5113 Stainless



ACCESS DOORS

Stainless Steel
Cat.# 5125 300mm Sq
Cat.# 5139 450mm Sq
Cat.# 5144 600mm Sq

Contact Avac for detailed specifications

Combys | Stainless Steel WCs
Flush Valves | Showers | Water Management
Vacuum Pumping | Accessories



Correctional



Contact Us

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