



AVAC AUSTRALIA PTY LTD

**VACUUM
PLUMBING
SYSTEMS**



**CONDENSATE &
TRADE WASTE
COLLECTION SYSTEMS
FOR**

SUPERMARKETS • CONVENIENCE STORES • DELICATESSENS



Avac Australia P/L pioneered point of use vacuum wastewater collection systems to the Australian construction industry in the early 1990's.

Our collection systems are currently in use in maximum-security prisons, public amenity complexes, police stations, and supermarkets. These systems provide safe and reliable drainage plumbing for critical use locations, and employ the very latest technology in systems engineering and equipment.

For the supermarket industry Avac has developed a complete range of systems to fast track store remodeling projects of all sizes.

From the collection of condensate only from a small number of refrigerated cases in a small project, through to large scale systems designed to collect condensate from a large number of cases, as well as liquid trade waste from Delis and other food prep areas, even sanitary (toilet) waste, can be collected.

In addition to equipment, we offer professional engineering assistance in preparing construction documentation, as well as site services including contractor supervision, system start-up and commissioning, as well as off-site system monitoring.

Avac vacuum plumbing eliminates the time lost and the customer dissatisfaction associated with infloor or underfloor drainage plumbing, (no more extensive concrete cutting!). We can get your remodeled store opened much earlier, which means earlier returns, and minimal customer fallout! Call us now to discuss your project!

VACUUM: A FLEXIBLE &

To maintain a competitive edge, supermarkets must continually strive to maintain and expand their customer base. Avac vacuum plumbing systems allow unlimited flexibility in the arrangement and presentation of merchandise (products) at a significant cost saving compared to traditional remodeling strategies.

Cost reductions are realised due to reduced downtime for the effected floor space.

What is an Avac Waste Collection System?

It is an engineered plumbing system that uses differential air pressure to transport condensate or wastewater through a network of overhead piping to a central collection location, which is then discharged into the sewer main. The Avac Condensate Collection System gives owners an alternative to conventional under-slab piping systems. It reduces the cost of remodeling, installs quickly and provides store layout flexibility.

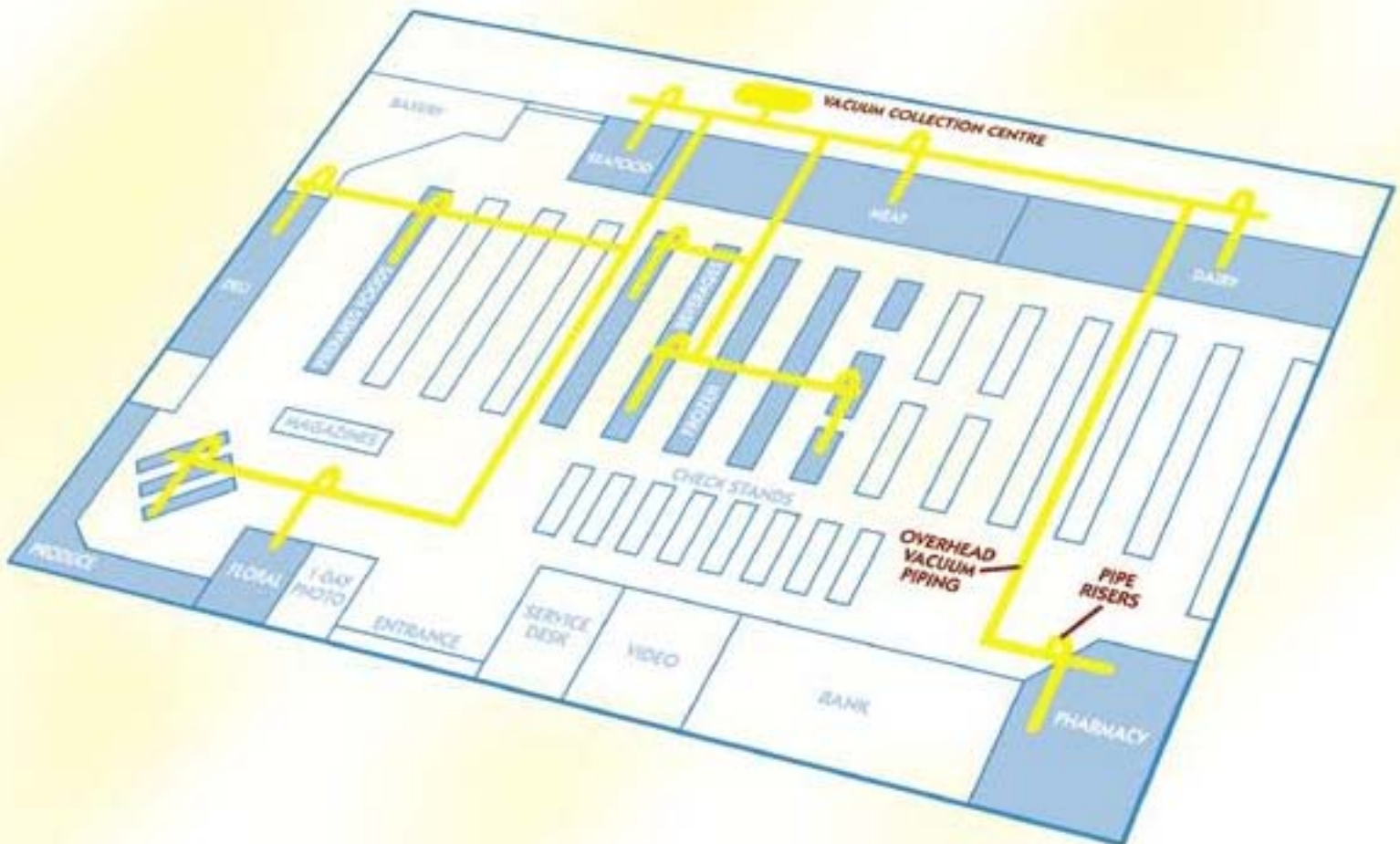
Compare:

Vacuum	Gravity
1. Flexibility in case layout and arrangement for new construction or remodeling.	1. Case layout is limited to where floor sinks (drains) are located. Flexibility is limited.
2. Eliminates the cost of under-slab wastewater piping. Piping system is installed overhead. Does not require venting.	2. Drain lines are installed beneath concrete slab. Requires venting.
3. Installation costs are reduced using smaller diameter plastic pipe and fittings. Floor Drains are eliminated.	3. Uses standard drainage pipe and fittings. Requires floor drains and cleanouts.
4. Remodeling time is reduced. No concrete cutting and trenching.	4. Remodeling requires costly concrete cutting, trenching and drain relocation.
5. Leaking pipes. Air will enter waste piping. No wastewater leaks.	5. Leaking pipes. Wastewater will exit waste piping causing potential ground damage.

ECONOMIC ALTERNATIVE TO GRAVITY

- Saves time and money in new construction and remodeling costs
- Eliminates under-slab drain piping
- Provides unlimited flexibility in case arrangement

Below is a typical supermarket design showing the flexibility of using an overhead vacuum piping system. This design can include flows from case washdown, multiple defrost cycles and from other liquid waste producing areas. Using the Avac vacuum plumbing system, substantial savings can be realised in material and labour costs.



Vacuum can be used with any supermarket case.

Dairy Cases

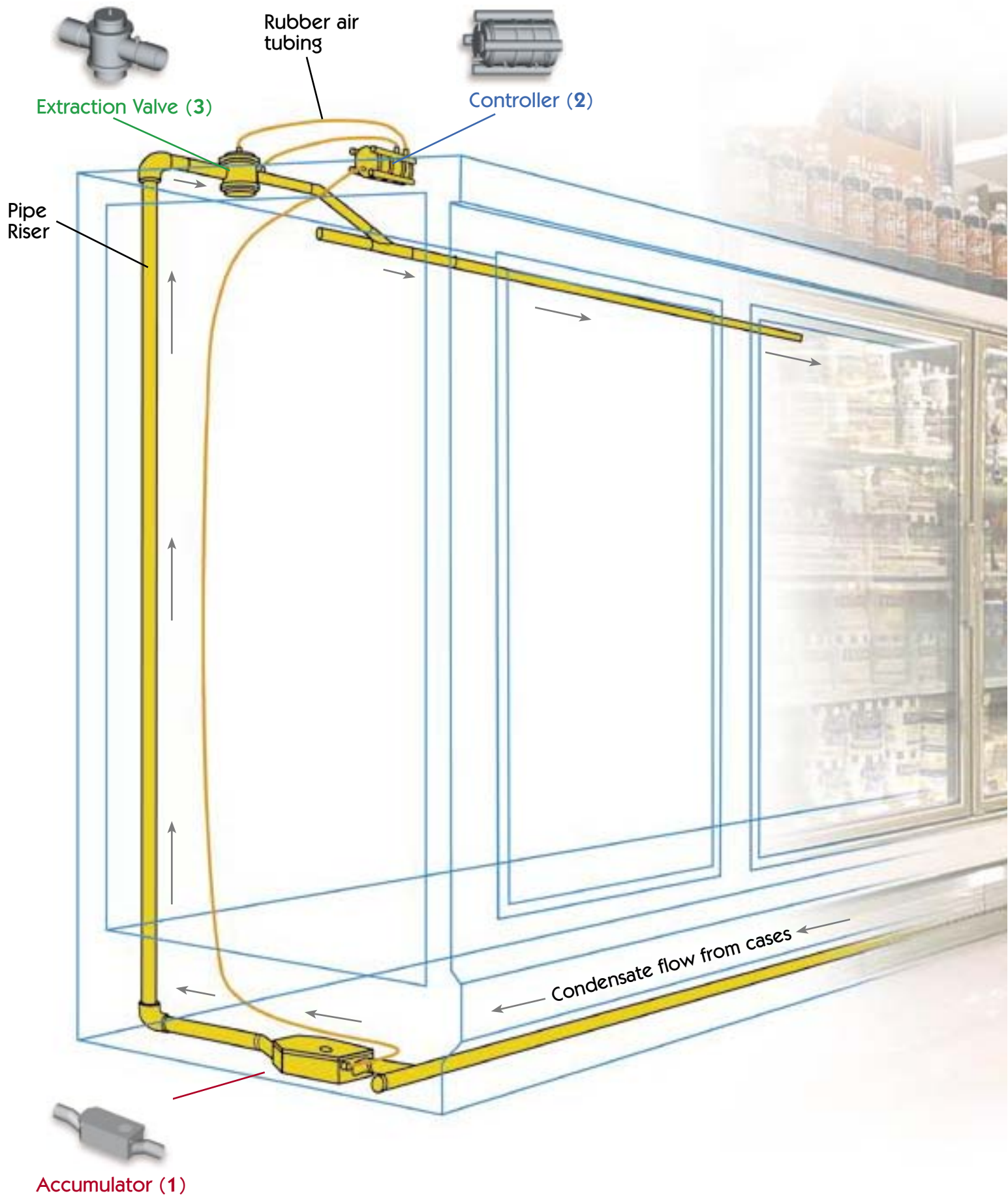


Meat Cases



Frozen Food





How does it work?

- Each refrigerated or freezer case generates condensate which flows into an "ACCUMULATOR" (1) or collection box located below the case.
- When the condensate reaches a pre-determined level in the Accumulator, a "CONTROLLER" (2) triggers the:
- "EXTRACTION VALVE" (3) allowing vacuum to evacuate the collected condensate into the vacuum main and then into the "VACUUM COLLECTION CENTRE" (VAC CENTRE).

Overhead Vacuum Main Piping

Check valve

To Vacuum Collection Centre

Deli Cases



Produce Cases



System Details

Avac have 4 models available to suit all applications:

- **A100** - Compact system for smaller stores. Designed to collect case condensate plus 1 or 2 handbasins
- **A250** - Large system for larger stores. Will collect all condensate plus handbasins, sinks etc.
- **A400** - Larger system to collect all condensate plus handbasins, sinks, trench grate drains and all liquid trade waste from commercial Deli and other food prep areas
- **A500** - Same as A400 but with additional sanitary (toilet) waste capability

Note: Models A250 and A400 can be ordered with optional integrated wet vac clean-up module

All models include redundant major components to facilitate on-line maintenance.

General Information

All Avac systems comprise:

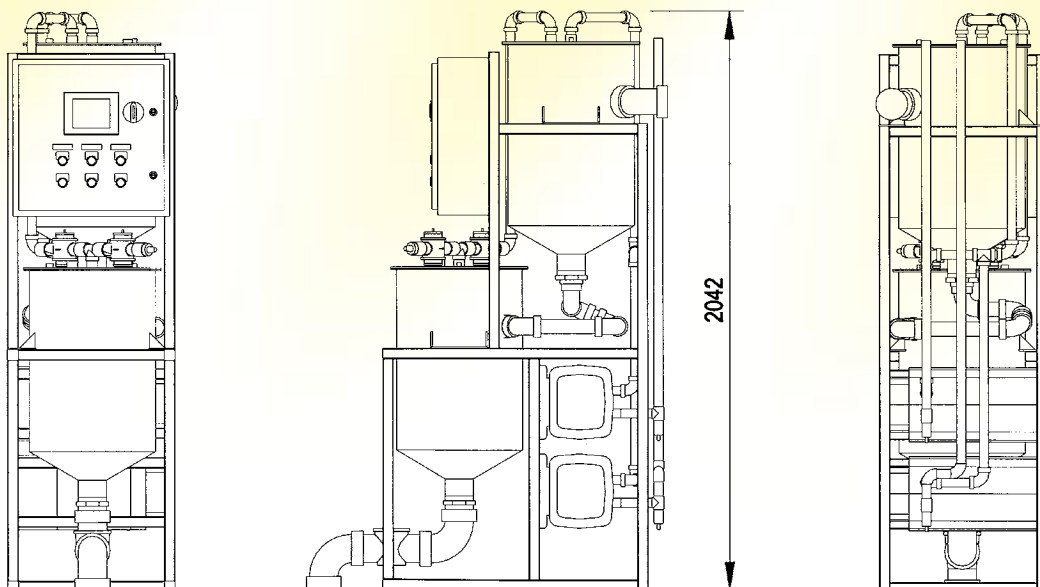
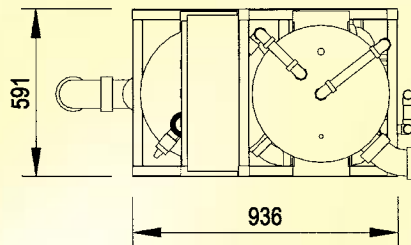
- Vac Centre (Avac Supplied)
- Accumulator Valve Kits (Avac Supplied)
- Piping Network (Contractor Supplied)

Vac Centre - A factory assembled module from Avac which includes collection tanks, vacuum pumps, valves and control system. The unit is generally located back-of-house (or in a plantroom) with close proximity to a sewer connection, or a grease interceptor (model A400 only). This is the only point of electrical connection in the system.

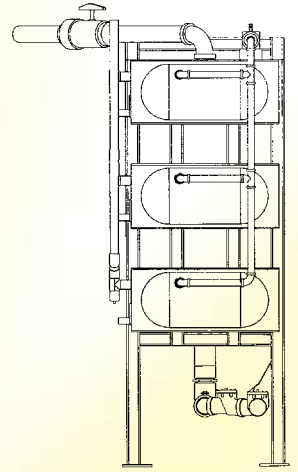
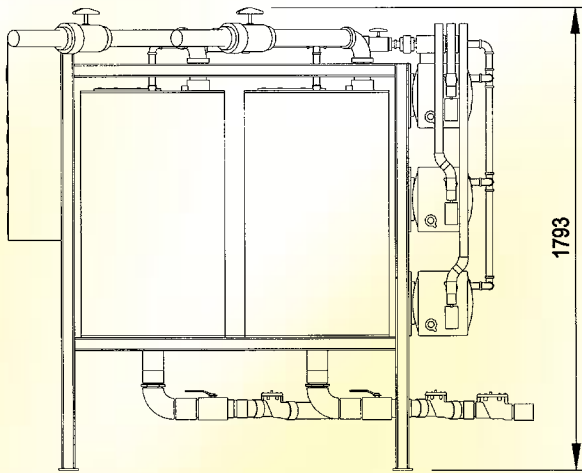
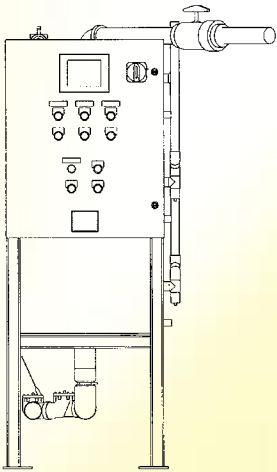
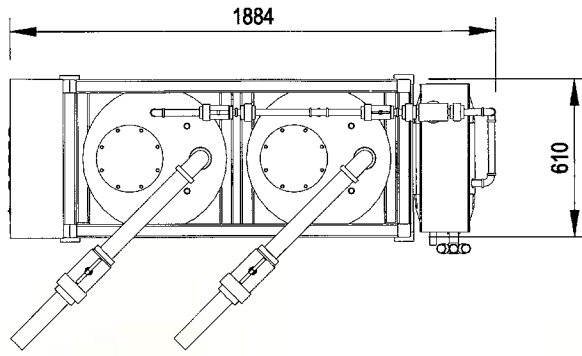
Accumulator Valve Kit - A boxed kit supplied by Avac which includes extraction valve, pneumatic controller with mounting plate, accumulator box, mini check valve and vacuum tubing. One kit can collect waste from 1-2 cases, then introduce the waste into the vacuum piping network via the extraction valve.

Piping Network - Supplied and installed by the contractor to Avac design requirements. Typically 40-80mm dia uPVC pressure pipe, except for deli trade waste only, where S/S pushfit piping (50-80mm) is recommended. Includes vertical risers from accumulators plus overhead mains.

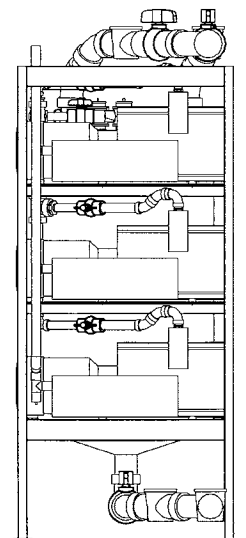
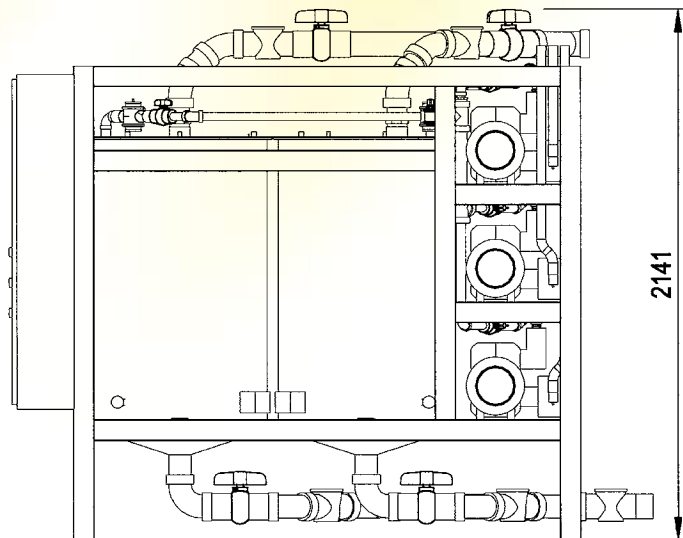
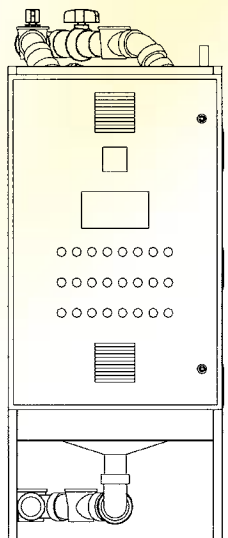
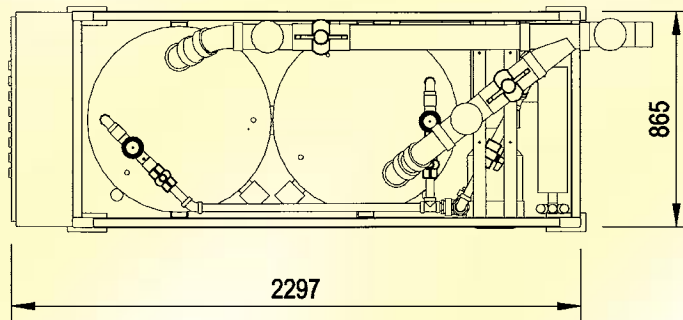
A100



A250



A400





AVAC AUSTRALIA PTY LTD

ADDITIONAL AVAC SERVICES:

- Installation Manual • Installation Training • Installation Supervision
- Design Manual • Design Assistance
 - System Commissioning
 - Local Product Support
- Off-Site System Monitoring

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