



## K9000 Mini Layout Information and Specifications



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14/08/2017	1 <sup>st</sup> Edition	All as new model	Phil Worrell	V1.0
21/05/2019	Added height details for plumbing & power below floor height	4.1 & 6.0	Phil Worrell	V2.0

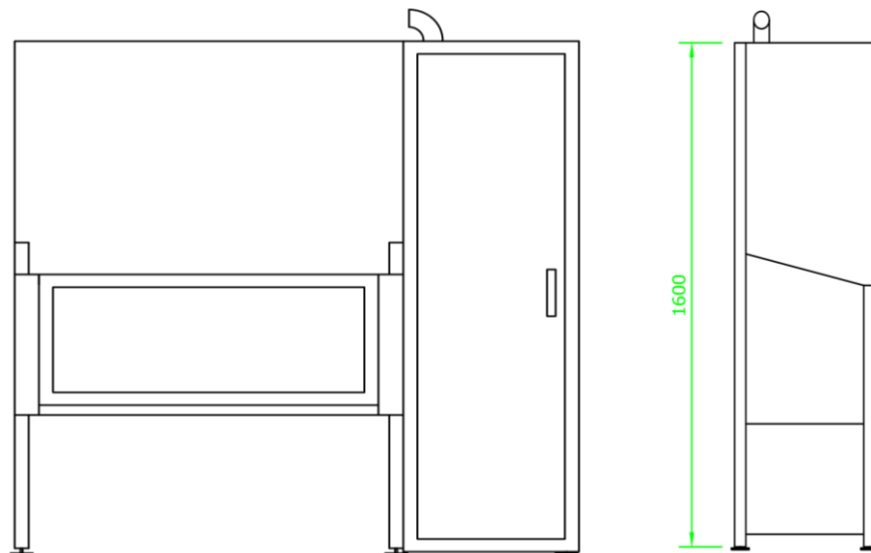
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# 1 K9000 Mini Specification Drawings & Plans

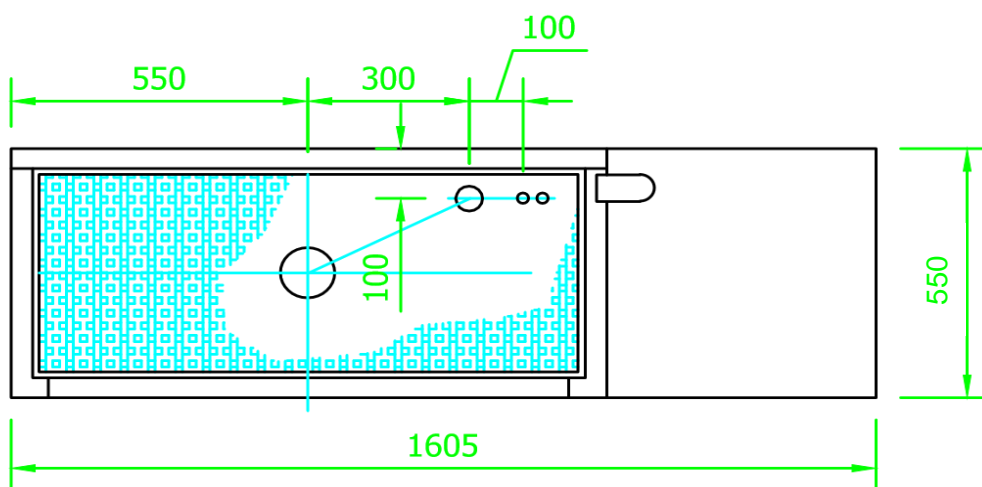
## 1.1 Specifications

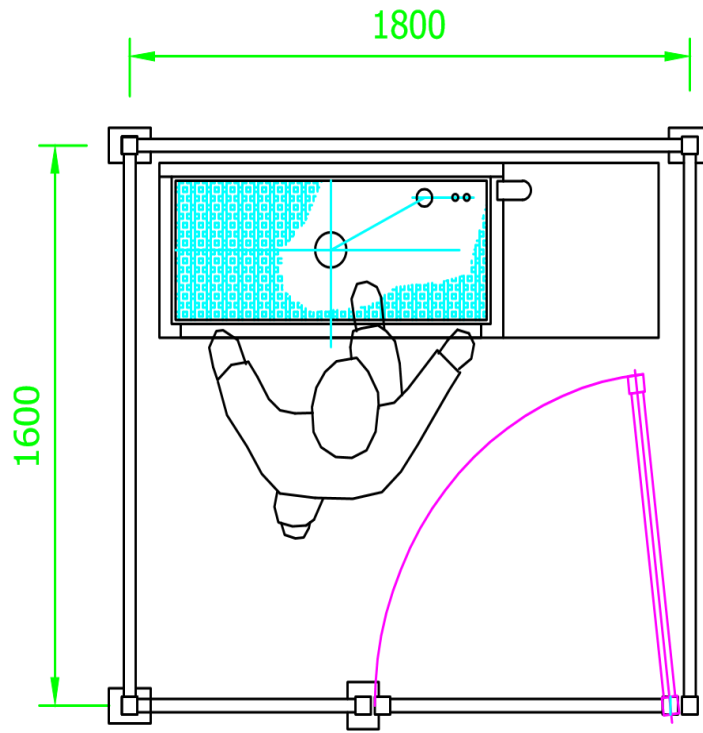


Front View

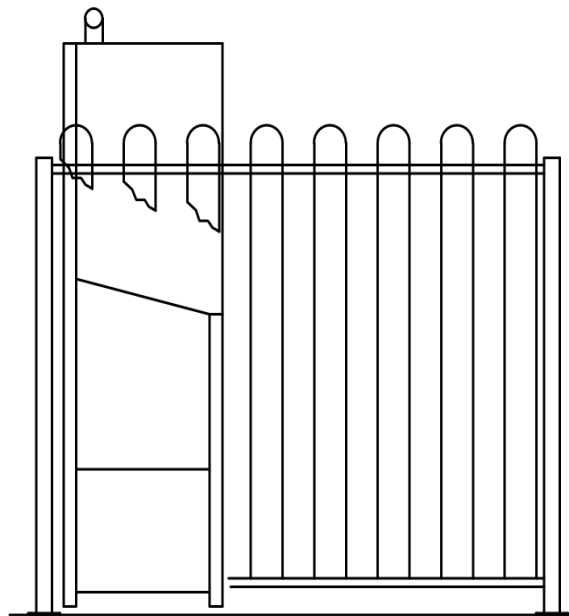
Side View

## 1.2 Plan





**PLAN**



**SIDE VIEW**

## 2 K9000 Mini System Specifications

SYSTEM WITHOUT ON BOARD HOT WATER UNIT		
Power	240V	15 AMP (with heated dryer)
Power	240V	10 AMP (without heated dryer)
WATER Inlet Pressure (Min) 40psi / 275kpa	Hot	½" Ball valve
	Cold	½" Ball valve
WATER Inlet Pressure (Max) 72psi / 500kpa	Hot	½" Ball valve
	Cold	½" Ball valve
COLD WATER Inlet temperature	Minimum	5 Degrees Celsius
	Maximum	30 Degrees Celsius
HOT WATER Inlet temperature	Minimum	55 Degrees Celsius
	Maximum	65 Degrees Celsius
Factory Set water temperature	35 Degrees Celsius at wash gun	
WATER Maximum Operating Pressure 50psi / 350kpa	Factory set via water regulator	
FILTRATION	Primary	Stainless steel mesh filter
	Secondary	Vinidex DBA Lic. No. WMKA20071
Back Flow Prevention Device	Connections to be protected by a "high hazard" backflow prevention device. i.e. "RPZ" or Registered "Air-GAP" Recommended Watts 009M3-AUS RP 15 or 20mm AS2845.1 Lic WMKA1335	
WASTE	50mm DIA Outlet as well as, a minor trade waste application to be made to the local water regulator (Contact your local water authority trade waste division)	
SYSTEM WITH ON BOARD HOT WATER UNIT		
Power	240V	25 AMP
WATER Inlet Pressure (Min) 40psi / 275kpa	Cold	½" Ball valve
WATER Inlet Pressure (Max) 72psi / 500kpa	Cold	½" Ball valve
COLD WATER Inlet temperature	Minimum	5 Degrees Celsius
	Maximum	30 Degrees Celsius
Factory Set water temperature	35 Degrees Celsius at wash gun	
WATER Maximum Operating Pressure 50psi / 350kpa	Factory set via water regulator	
FILTRATION	Primary	Stainless steel mesh filter
	Secondary	Vinidex DBA Lic. No. WMKA20071
Back Flow Prevention Device	Connections to be protected by a "high hazard" backflow prevention device. i.e. "RPZ" or Registered "Air-GAP" Recommended Watts 009M3-AUS RP 15 or 20mm AS2845.1 Lic WMKA1335	
WASTE	50mm DIA Outlet as well as, a minor trade waste application to be made to the local water regulator (Contact your local water authority trade waste division)	
Tundish	Required for hot water relief pipe	
DIMENSIONS / WEIGHT		
Dimensions	Length 1650mm / Height 1750mm / Depth 550mm	
Weight	K9000 Mini - 170kg	
APPROVALS		
Risk assessment performed by IAPMO (NATA accredited laboratory)		
CE conformity with the following European Union Directives: EMC Directive 2004/108/EC & Low Voltage Directive 2006/95/EC		
IEC 61000-6-3:2006 Electromagnetic compatibility (EMC) – Part 6.3: Generic standards – Emission standard for residential, commercial and light-industrial environments		
AS/NZS 60335.2.75:2005 + Admt 2009 in relation to vending machines AS 60204.1:2005 'Safety of machinery – Electrical equipment of machines, General Requirements'		
IEC 61000-6-1: 2005 Electromagnetic compatibility (EMC) Generic standards. Immunity for residential, commercial and light-industrial environments.		
ATS 5200.101:2005 – Strength of Assembly		
EPA Registered Noise tested rating of 66dba @ 4 meters		
USAGES		
Water usage: 8 to 12 litres per minute (40-60 litres per single dog wash)		
Average power usage per wash cycle is .76kwh (dependent on hot water source)		

## 3 Waste

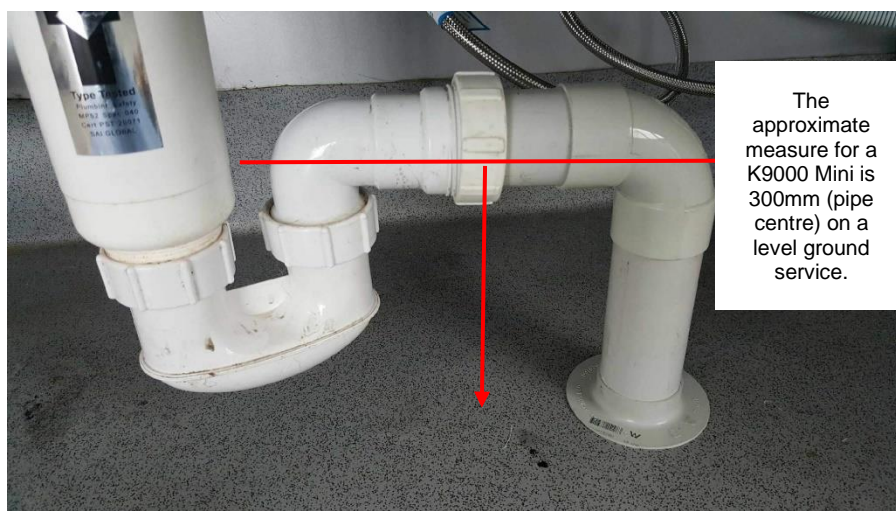
### 3.1 Existing Sites

Shown below is a K9000 Mini that has been installed into an existing room. The 50 mm connection points were run through the back wall to the existing waste point. Other possibilities are to run the 50mm connection points along the walls to an existing waste point.  
*\*Please note entry point to electric conduit has changed refer section 6 Electrical Installation of Unit.*



### 3.2 New Sites

Shown below is a K9000 Mini that has been installed at a new site where the site has allowed for the waste point as part of construction. Note, new sites may also utilise external waste points, and run the connection through or along the wall.





## 4 Hot Water

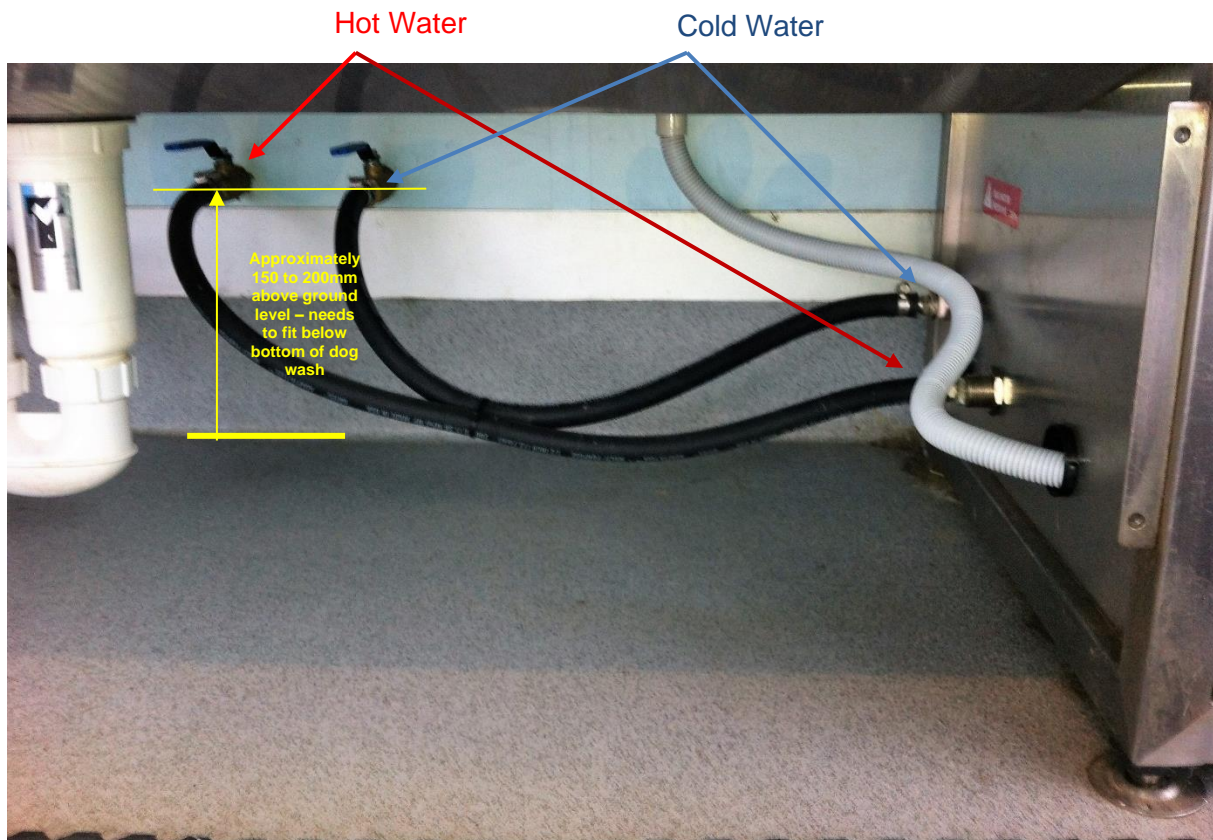
Hot water can be sourced from the site or the dog wash can include an on board hot water service.

### 4.1 Site Supplied Hot Water

Shown below is a K9000 Mini that was installed at a site that supplied HOT water, and as such the unit did not require to have an on board hot water service.

*\*Please note entry point to electric conduit has changed refer section 6 Electrical Installation of Unit.*

*\*Please consult with Tru Blu Dog Wash to ensure your existing hot water supply is adequate.*





## 4.2 On Board Hot Water Service

Shown below is a K9000 Mini that has on board hot water service. It requires a Tundish to collect any water that is expelled from the relief valves. An air gap is to be maintained in accordance with ANS/NZS 3500.2:2015 C1.4.6.8.1(b) between the copper pipe outlet and the top of the tundish.

*\*Please note entry point to electric conduit has changed refer section 6 Electrical Installation of Unit.*



Tundish with air gap between the copper pipe and tundish highlighted.

Below is the internal view of the hot water service installed in a K9000 Mini.



## 5 Back Flow Prevention Device

Connections need to be protected by a “high hazard” backflow prevention device. The below picture highlights the use of a reduce pressure backflow preventer (“RPZ”). Refer to appendix 8.1, Plumbing Schematic Individual Protection drawing.



## 6 Electrical Installation of the Unit

*Note: If a new power point/source is being installed for the dog wash, it needs to be below 370mm from the floor as the back of the dog wash fits flush with the wall.*

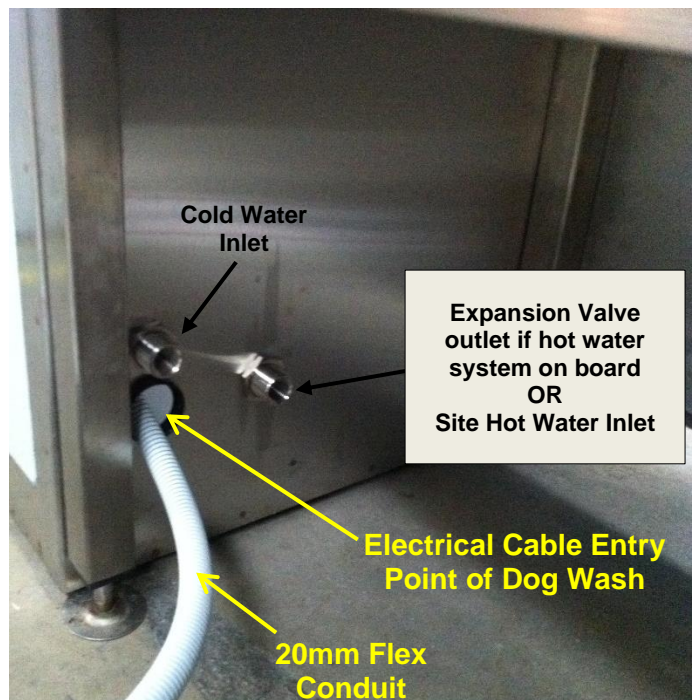
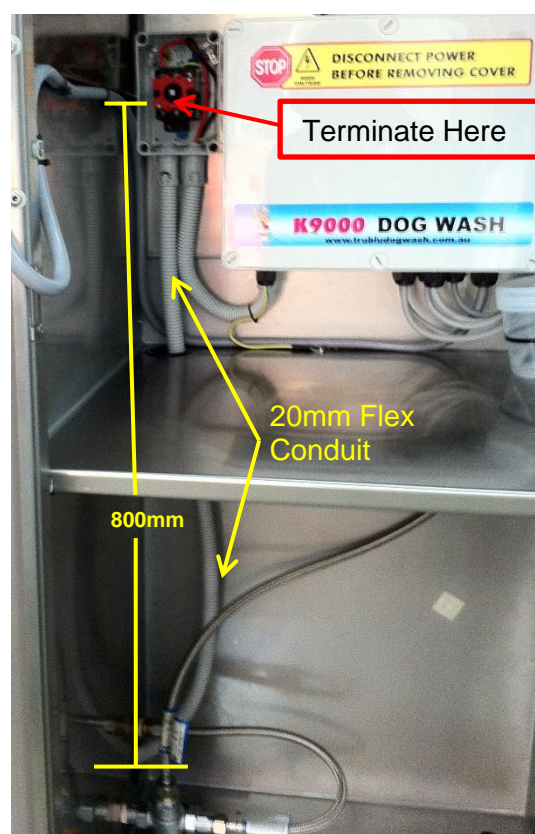
Shown on the right is the main electrical cable inside the dog wash. It enters through the gland at the bottom of the dog wash close to the ground.

Run the power cable in 20mm flexible conduit as there is a socket already installed into the bottom of the main circuit breaker box shown.

Shown below is a photo taken from the rear of the dog wash of the main electrical cable enter point to the dog wash cabinet.



Once you run the cable and conduit to this point, and then leave another 800mm for the termination inside the dog wash.



Dog Wash Unit	Max Current
Standard (includes dryer)	9.2 AMP
Standard with Hot Water Service (2400w)	19.5 AMPs

## 7 Fact Sheet

### Fact Sheet

- Unit connects to existing services
  - Hot/Cold Water\*
  - 50mm Sewer Waste\*\*
  - 240 volt, 10 amp power supply (STD Unit)
  - 240 volt, 25 amp power supply for hot water unit (Units with on board hot water)
- A Hot Water unit is optional, can be fitted if required.
- Water usage: 8 to 12 litres per minute (40-60ltrs per wash)
- Length 1650mm / Height 1750mm / Depth 550mm
- Weight K9000 Mini 175kg
- Standard wash charge is recommended to be between \$8 & \$10, for 8 to 10 minutes of wash time (minimum start-up)
- Cost to wash each dog is approximately 90 cents to \$1.20
- Average power usage per wash cycle is .76 kwh

*\*Note: Connections to existing hot/cold water to be protected by a "high hazard" backflow prevention device. i.e. "RPZ" or Registered "Air-Gap"*

*\*\*Note: A minor trade waste application is to be made to the local water regulator (Contact your local water authority trade waste division)*

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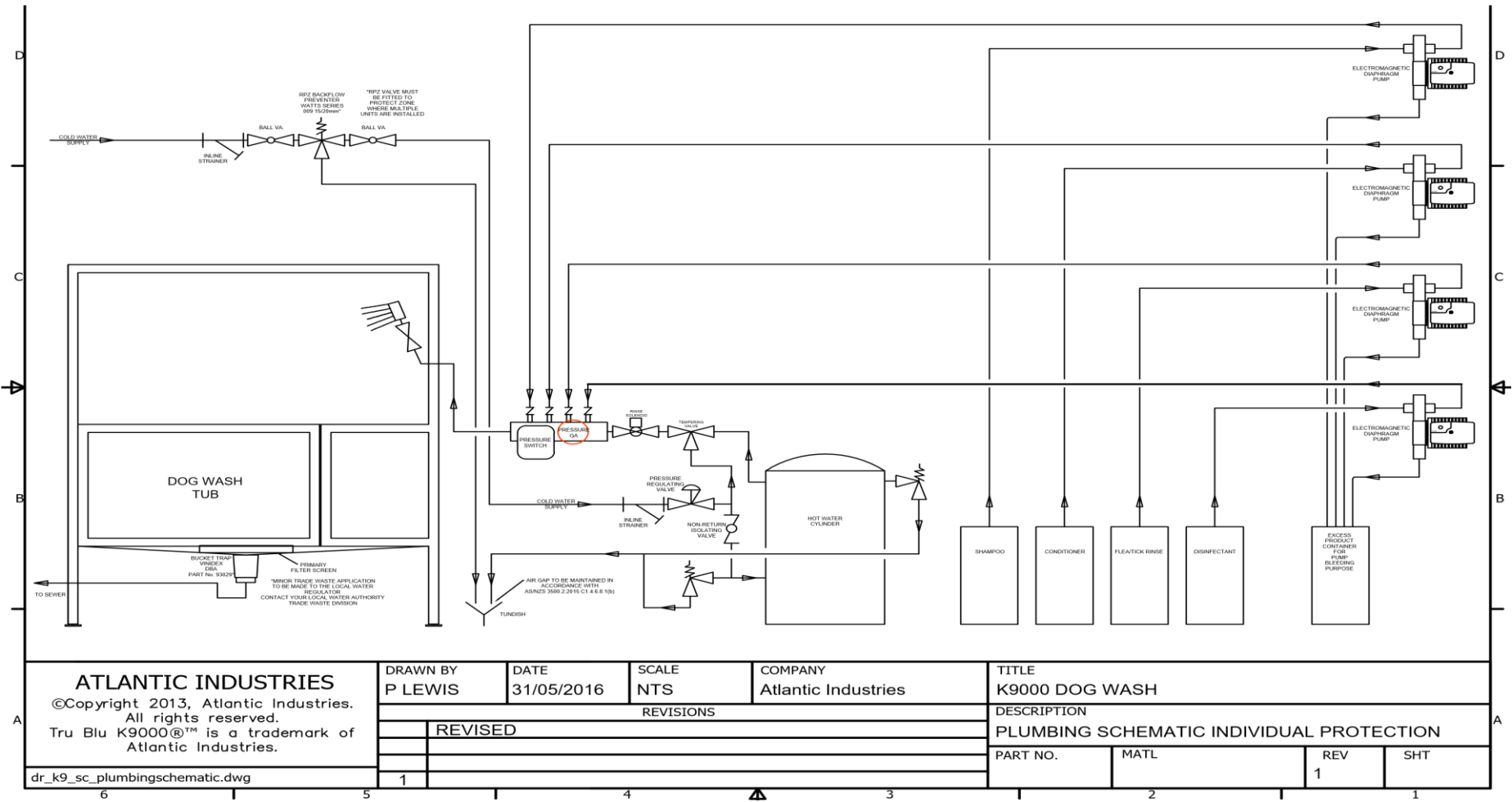
### Other Options Available

- Pay Pass Credit Card Terminal
- Note Reader

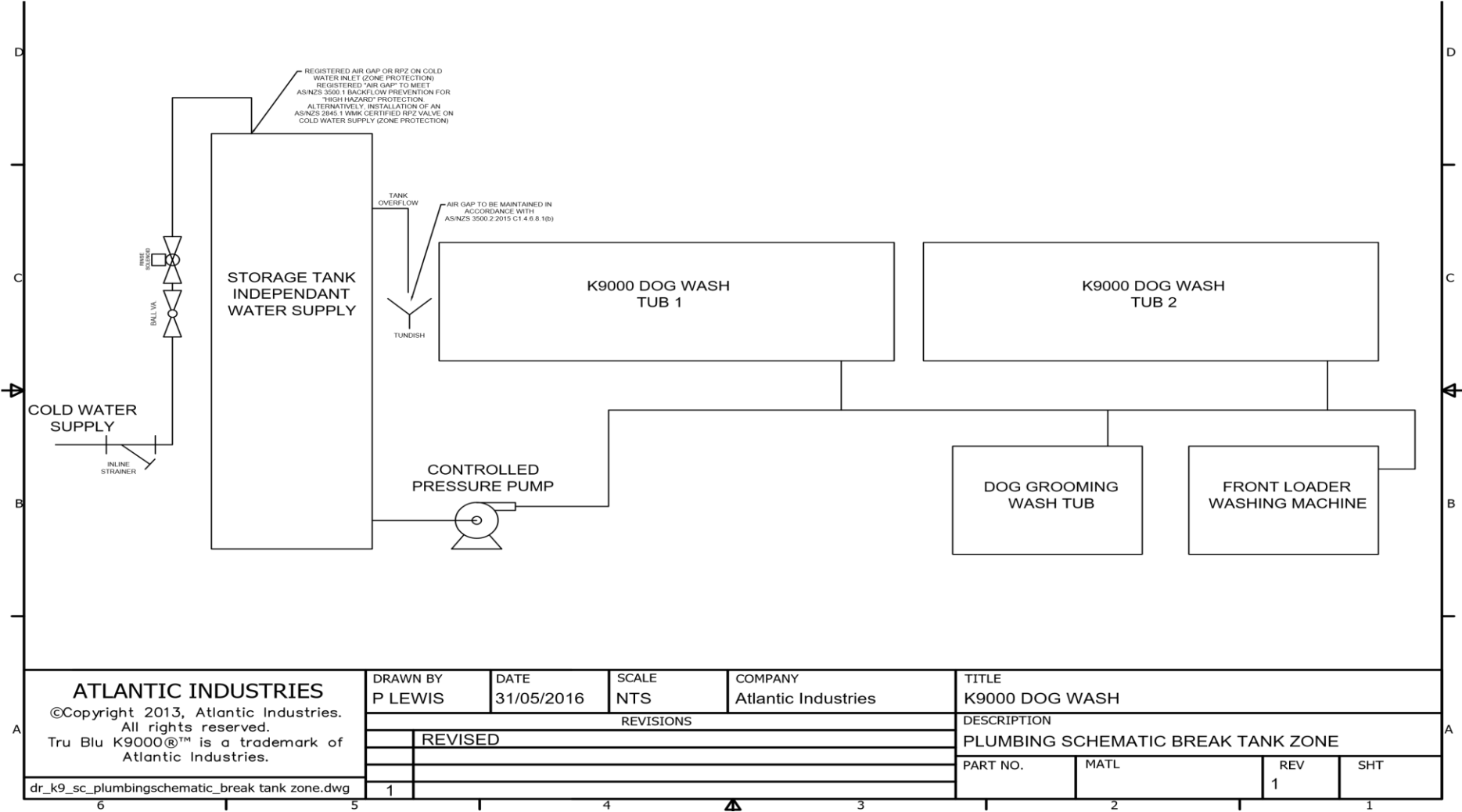


8 Appendices

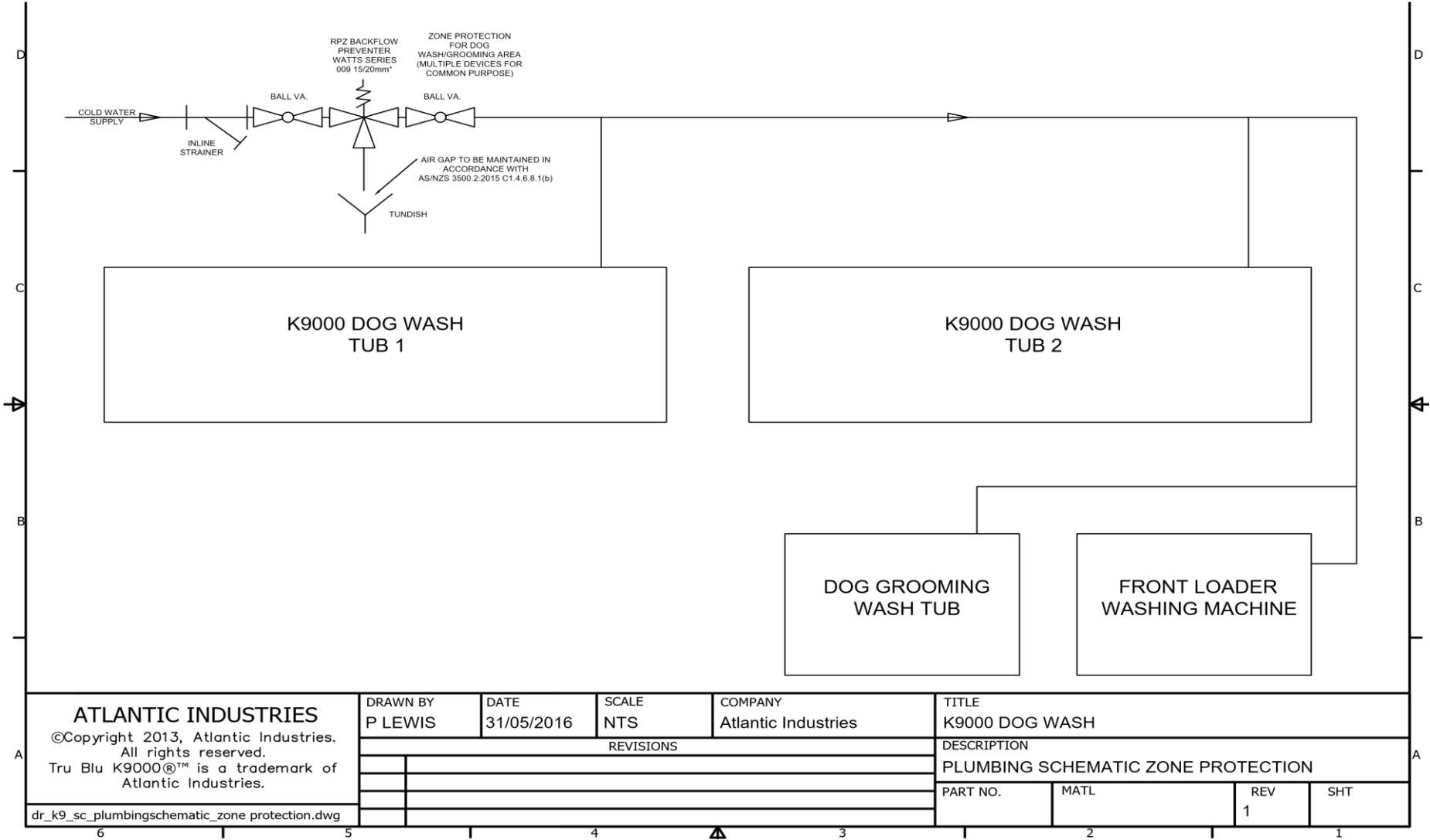
8.1 Plumbing Schematic Individual Protection



8.2 Plumbing Schematic Break Tank Zone



8.3 Plumbing Schematic Zone Protection





## 9 Attachments

### 9.1 Plumbing Schematic Break Tank Zone



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hematic\_break tank zc

### 9.2 Plumbing Schematic Individual Protection



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hematic\_REV1.pdf

### 9.3 Plumbing Schematic Zone Protection



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