K9000 2.0 Twin
Layout Information and Specifications

All requests and enquiries regarding the use of and availability of this manual are to be directed to:

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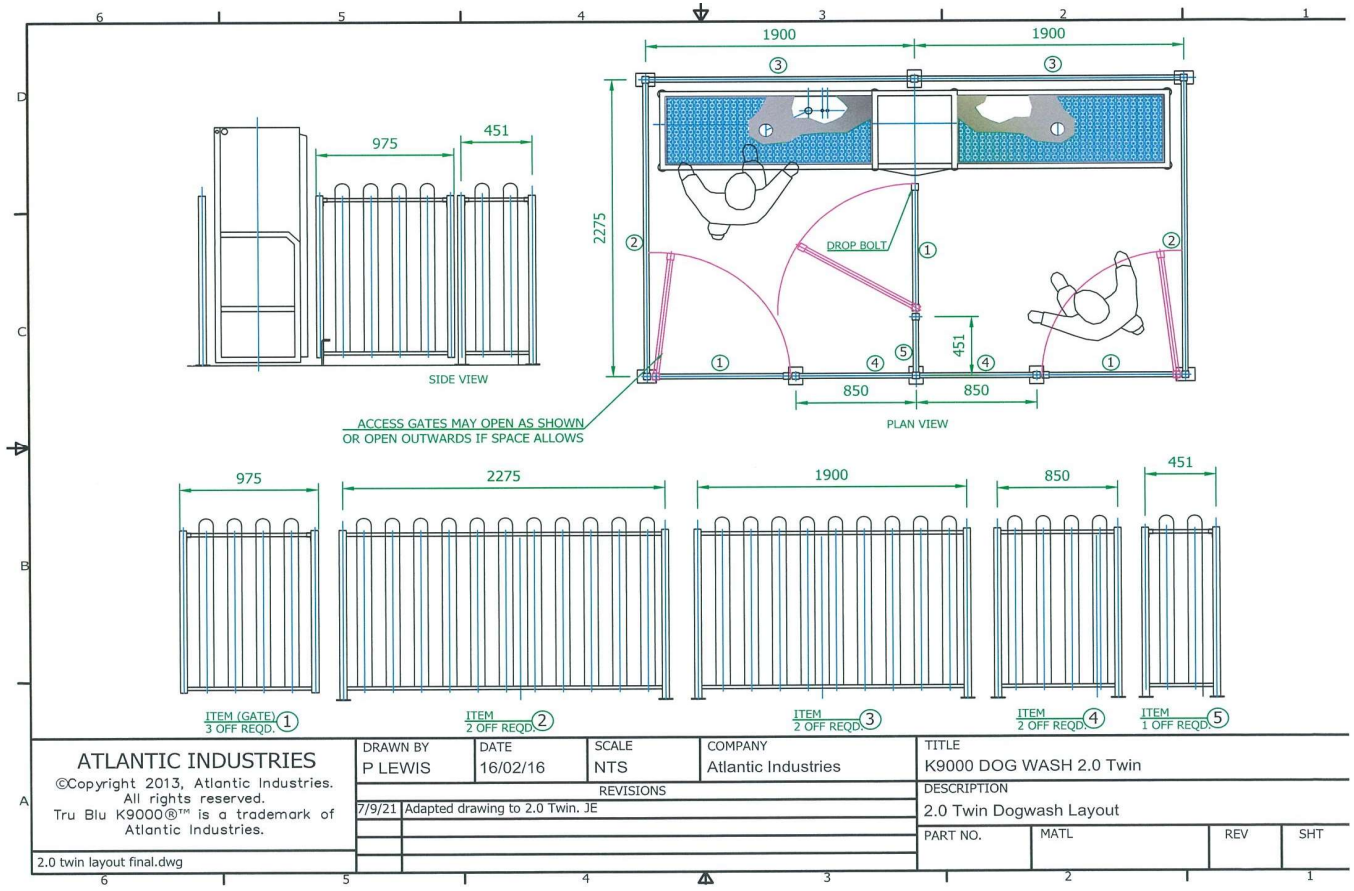
1 K9000 2.0 Twin Station Layout

The below layout plan includes both the materials and measurements required for the recommended installation, with site requirements being the same whether the installation is to be indoors or outdoors.

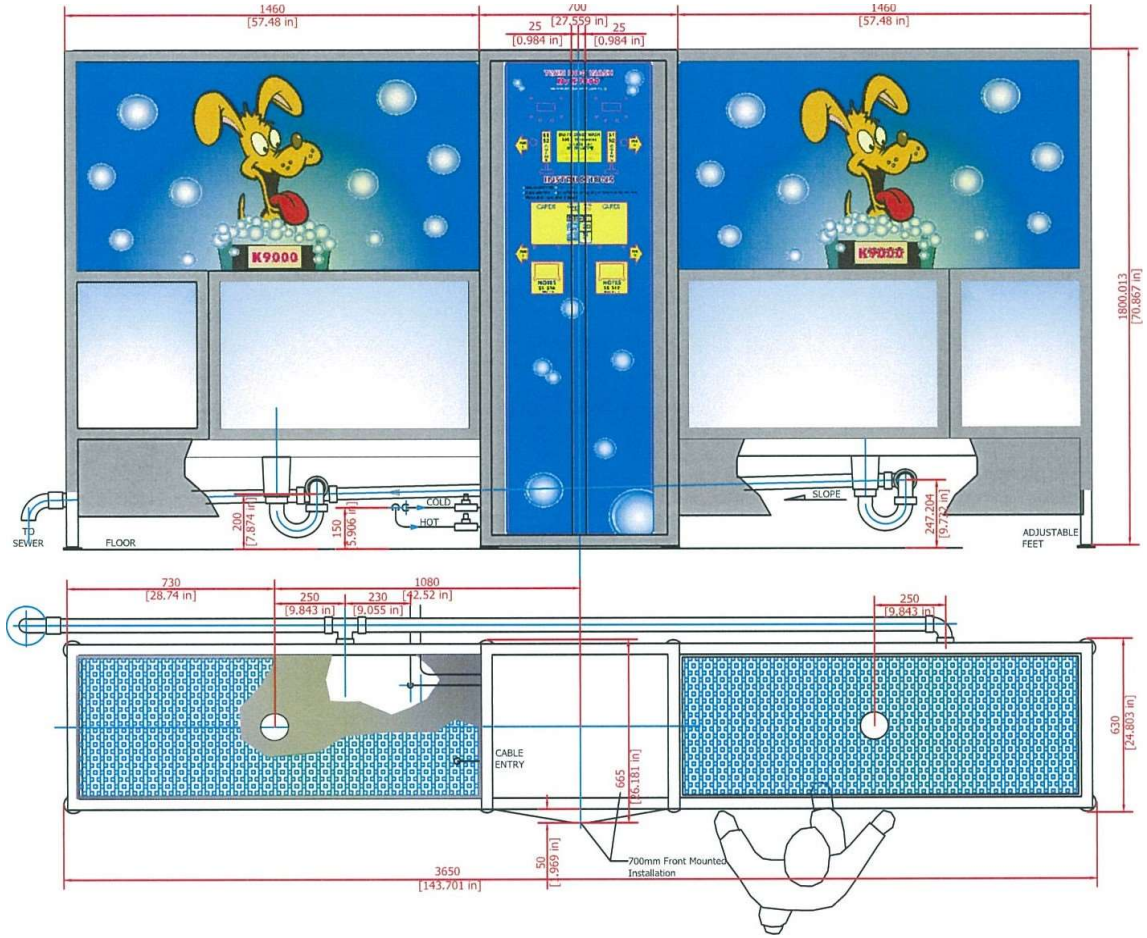


2 System Specifications

SYSTEM WITHOUT ON BOARD HOT WATER UNIT		
Power	240V	25 AMP
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 x2	Primary	Stainless steel mesh filter
	Secondary	SPS Bucket Trap R130SR-BT
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 x2	50mm DIA Outlets 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 Unit	240V	25 AMP
Power Hot Water (Stiebel Eltron DHB-E 27 AU)	415V	40 AMP
WATER Inlet Pressure (Min) 40psi / 275kpa	Cold	¾" Ball valve
WATER Inlet Pressure (Max) 72psi / 500kpa	Cold	¾" 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 x2	Primary	Stainless steel mesh filter
	Secondary	SPS Bucket Trap R130SR-BT
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 x2	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)	
DIMENSIONS / WEIGHT		
Dimensions	Length 3700mm / Height 1850mm / Depth 680mm	
Weight	Left Hand Side 260kg – Right Hand Side 90kg (Total weight 350kg)	
APPROVALS		
Risk assessment performed by IAPMO (NATA accredited laboratory)		
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: 16 to 20 litres per minute, where both units in operation (40-50 litres per single dog wash)		
Average power usage per wash cycle is .76kwh (dependent on hot water source)		

3 Waste

There are two possible waste options, direct into ground waste or piped to an existing waste point. Refer sections 3.1 & 3.2

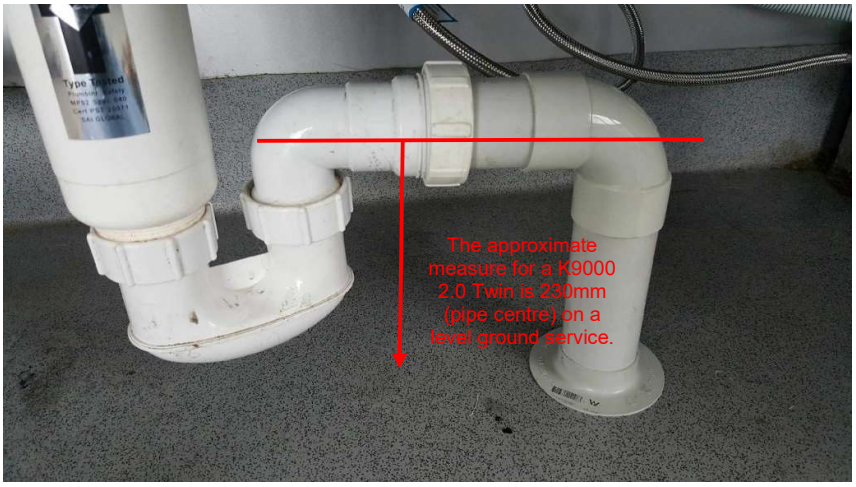


3.1 Existing Sites

Shown below is a K9000 2.0 Twin that has been installed into an existing room. The two 50mm connection points were run through the back wall to the existing waste point (*Note: only 1 of the 2 waste points shown in photo*). Other possibilities are to run the two 50mm connection points along the walls to an existing waste point/s.

3.2 New Sites

Shown below is a K9000 2.0 Twin that has been installed at a new site were the site has allowed for the waste points as part of construction (*Note: only 1 of the 2 waste points shown in photo*). Note, new sites may also utilise external waste points, and run the connections through or along the walls.



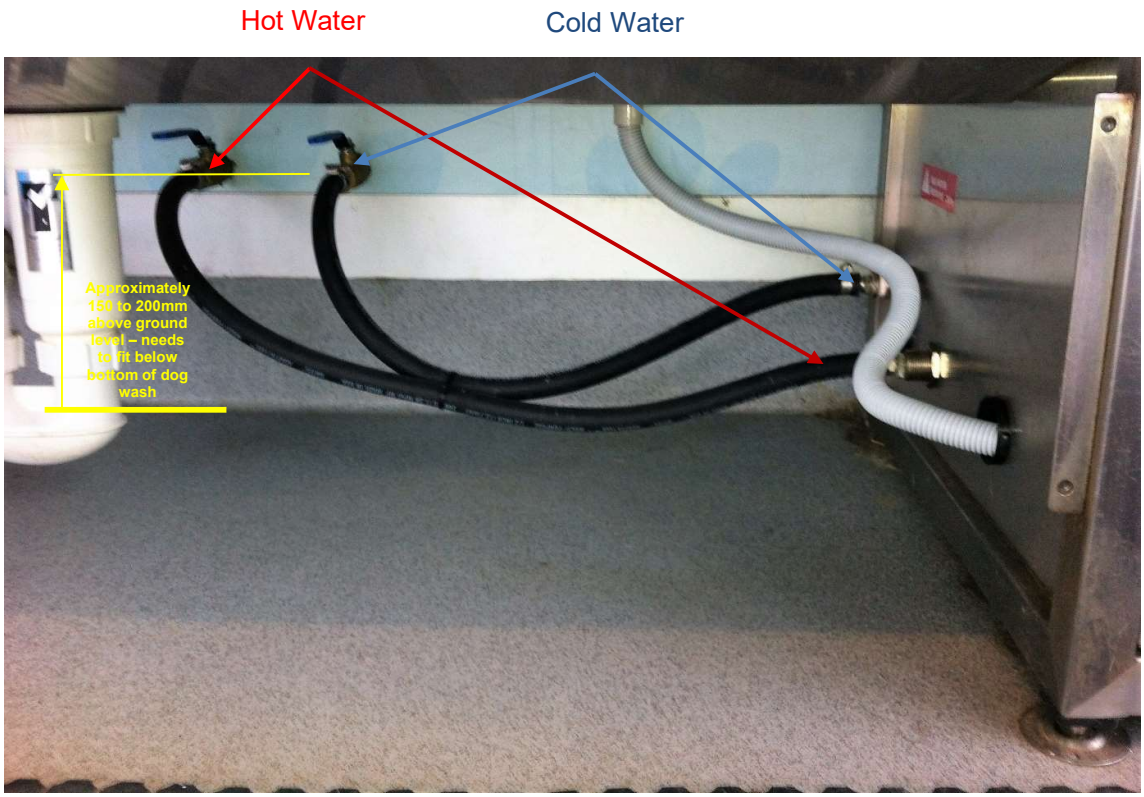
4 Hot Water

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

Important Should you choose not to have an onboard hot water system, it is strongly recommended a dedicated hot water system be used as your existing hot water system may, or may not be suitable for the dog wash. Tru Blu are only too happy to consult with you in assessing your current hot water system to ensure the dog wash will operate at its maximum efficiency.

4.1 Site Supplied Hot Water

Shown below is a K9000 2.0 Twin 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 consult with Tru Blu Dog Wash to ensure your existing hot water supply is adequate.*

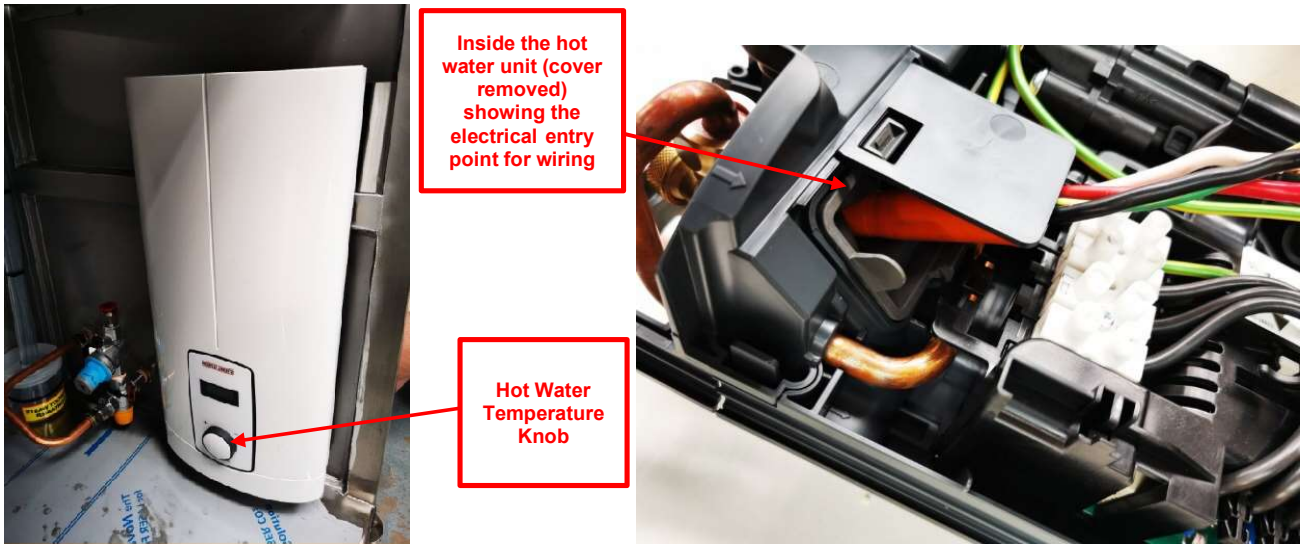


4.2 On Board Instantaneous Hot Water Unit

Shown below is a K9000 2.0 Twin that has an on board instantaneous hot water unit. The hot water unit is an electronic Stiebel Eltron DHB-E 27 LCD AU and has a heat control knob on the front cover. The temperature is factory set at 55 degrees Celsius.

Below is a photo of the water fittings for the hot water unit leading in and out of the service.

Below left is a photo of the actual hot water unit which is fitted inside the dog wash cabinet, photo bottom right is electrical entry point into the hot water unit (cover removed).



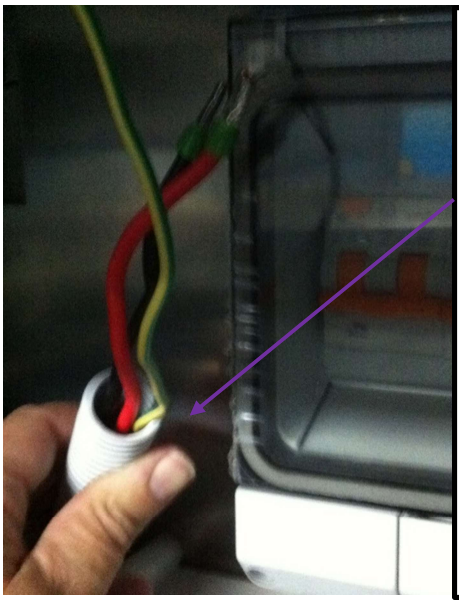
5 Back Flow Prevention Device

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

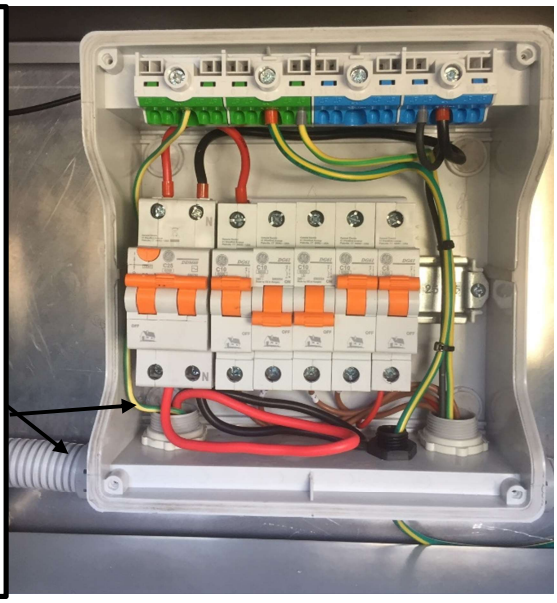
The picture below shows the main electrical cable inside the cabinet. It enters through the 50mm entry point underneath the dog wash close to the ground. Run the power cable in 25mm flexible conduit as there is a socket already installed in the bottom of the main circuit breaker box shown.

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

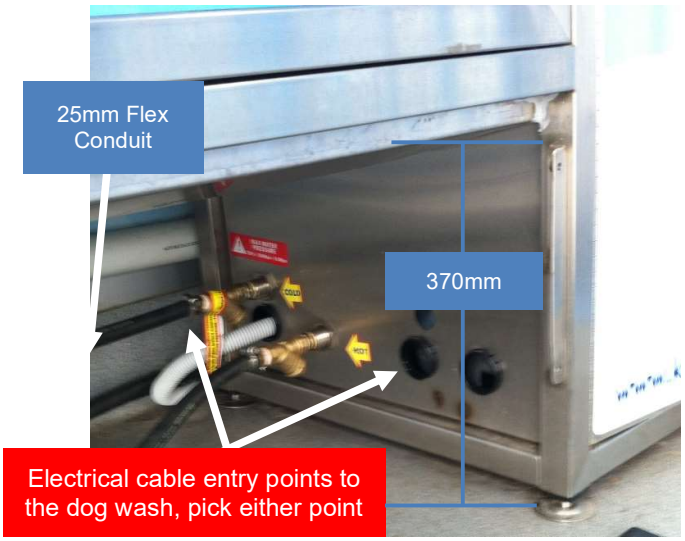


Picture left shows the 25mm flexible conduit inside the cabinet next to the main circuit breaker box. It has been run into the cabinet using the bottom back entry point then run up the back of the cabinet going behind the shelf all the way up to this position.

Picture right showing 25mm flexible conduit going into the main circuit breaker box and having the 3 wires wired into position.



The below picture shows the main electrical cable entry point into the dog wash. Once you have run the cable and conduit to this point, leave another 1700mm for the termination inside the cabinet



Where the unit incorporates the Stiebel Eltron Instantaneous Hot Water Unit this will also need to be wired into the gland by an electrician following the Hot Water Units installation process.

Dog Wash Unit	Protection Required	Max Current
K9000 2.0 Twin	25 AMP	21 AMP
K9000 2.0 Twin Hot Water Unit*	40 AMP 3 Phase	38.9 AMP

**Note: This is in addition to the K9000 2.0 Twin power supply requirement, but only when a hot water unit is installed in the K9000 2.0 Twin Dog Wash. Refer to the Operation and Installation booklet for the Stiebel Eltron instantaneous water heater for full details.*

7 Fact Sheet

Fact Sheet

- Unit connects to existing services
    - Hot/Cold Water*
    - 50mm Sewer Waste**
    - 240 volt, 25-amp power supply plus a 3 Phase 415 volt, 40-amp power supply if hot water unit fitted.
- A Hot Water unit is optional; it can be fitted if required.
- Water usage: 16 to 20 litres per minute, with both units in operation (40-50ltrs per single dog wash)
- For optimum performance sustainable water pressure of 20PSI is required while unit in use.
- Length 3700mm / Height 1850mm / Depth 680mm
- Total Weight of K9000 2.0 Twin 350kg (left hand side 260kg & left-hand side 90kg)
- Standard wash charge is recommended to be between $10 & $12, for 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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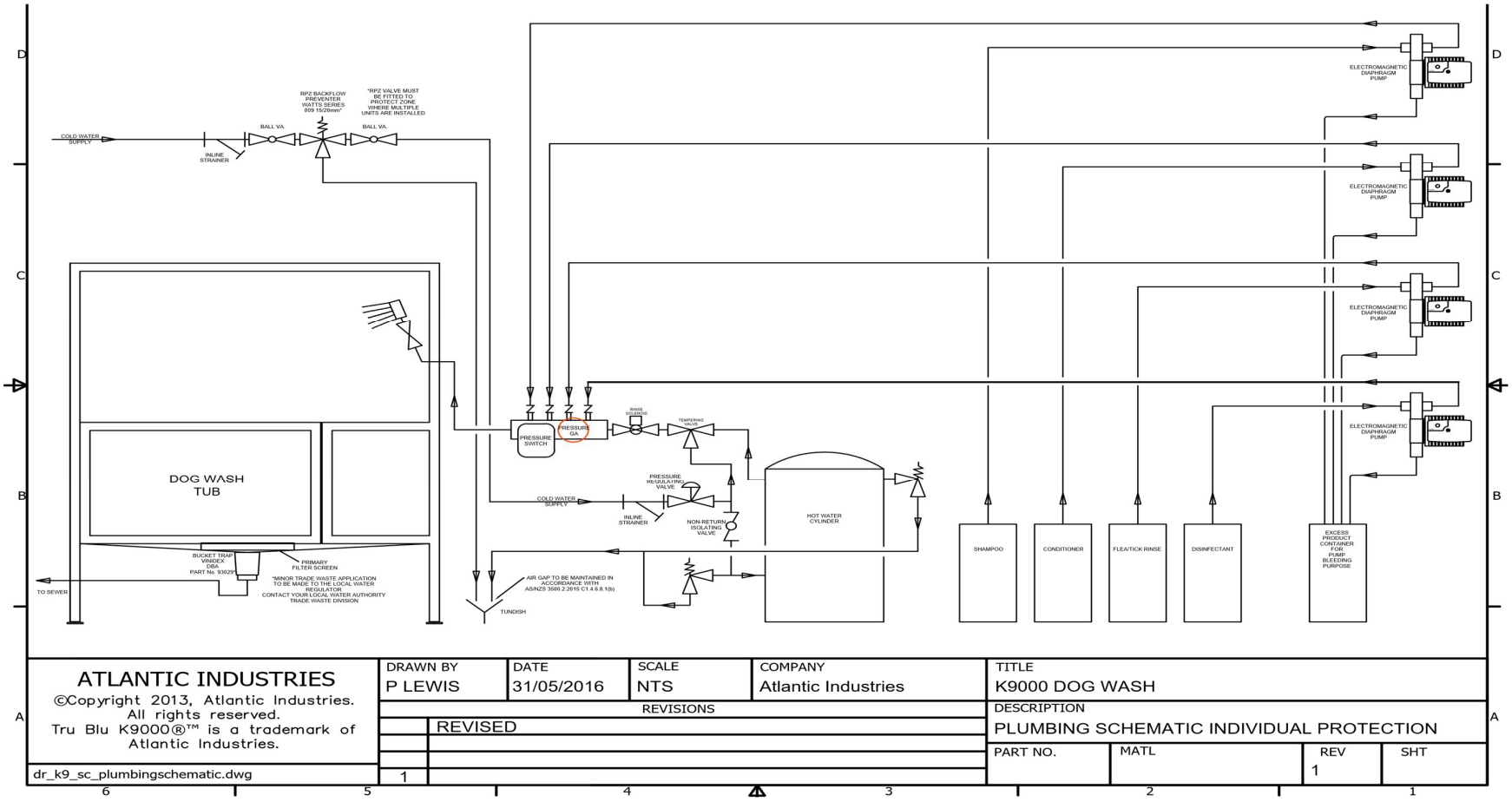
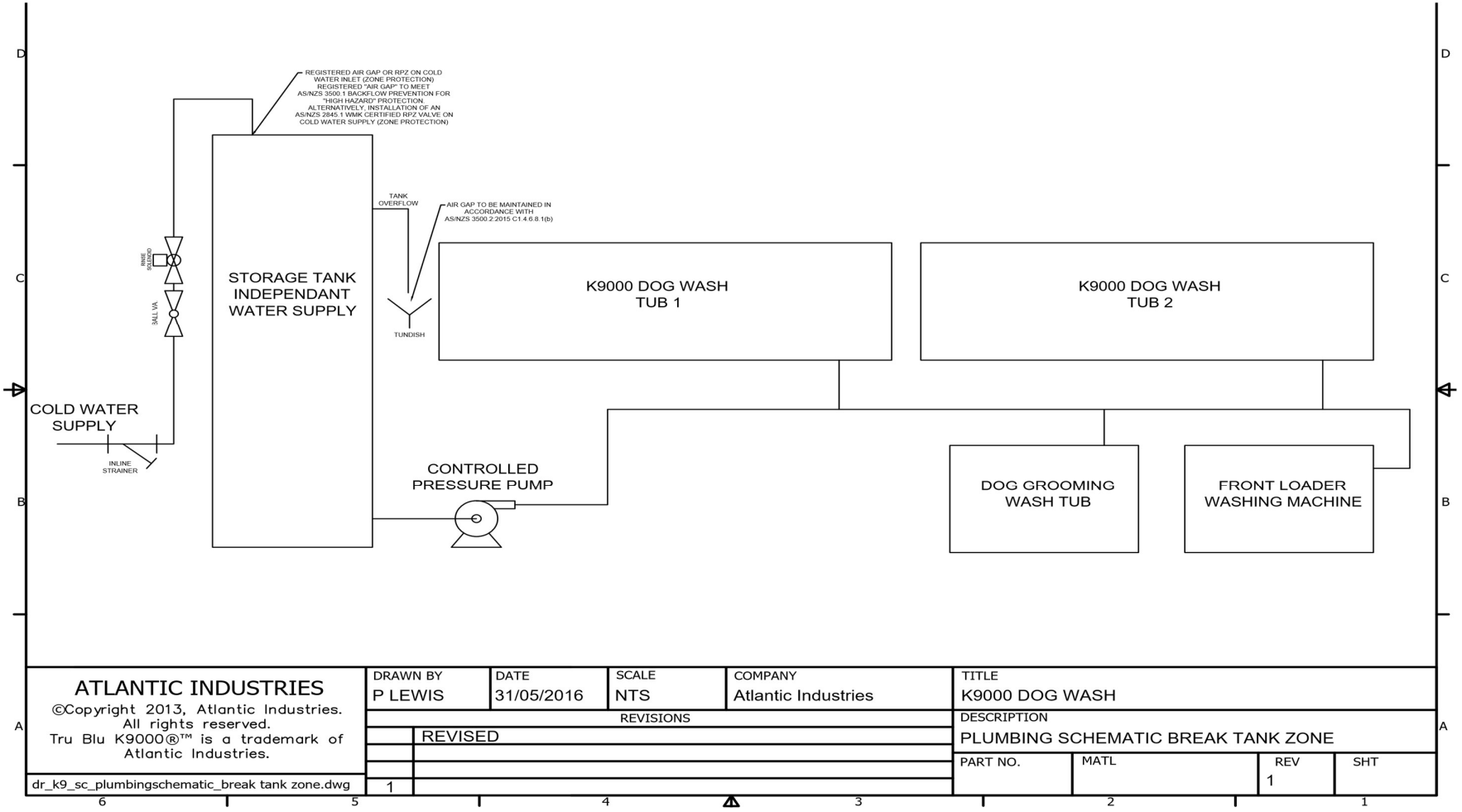
8 Appendices

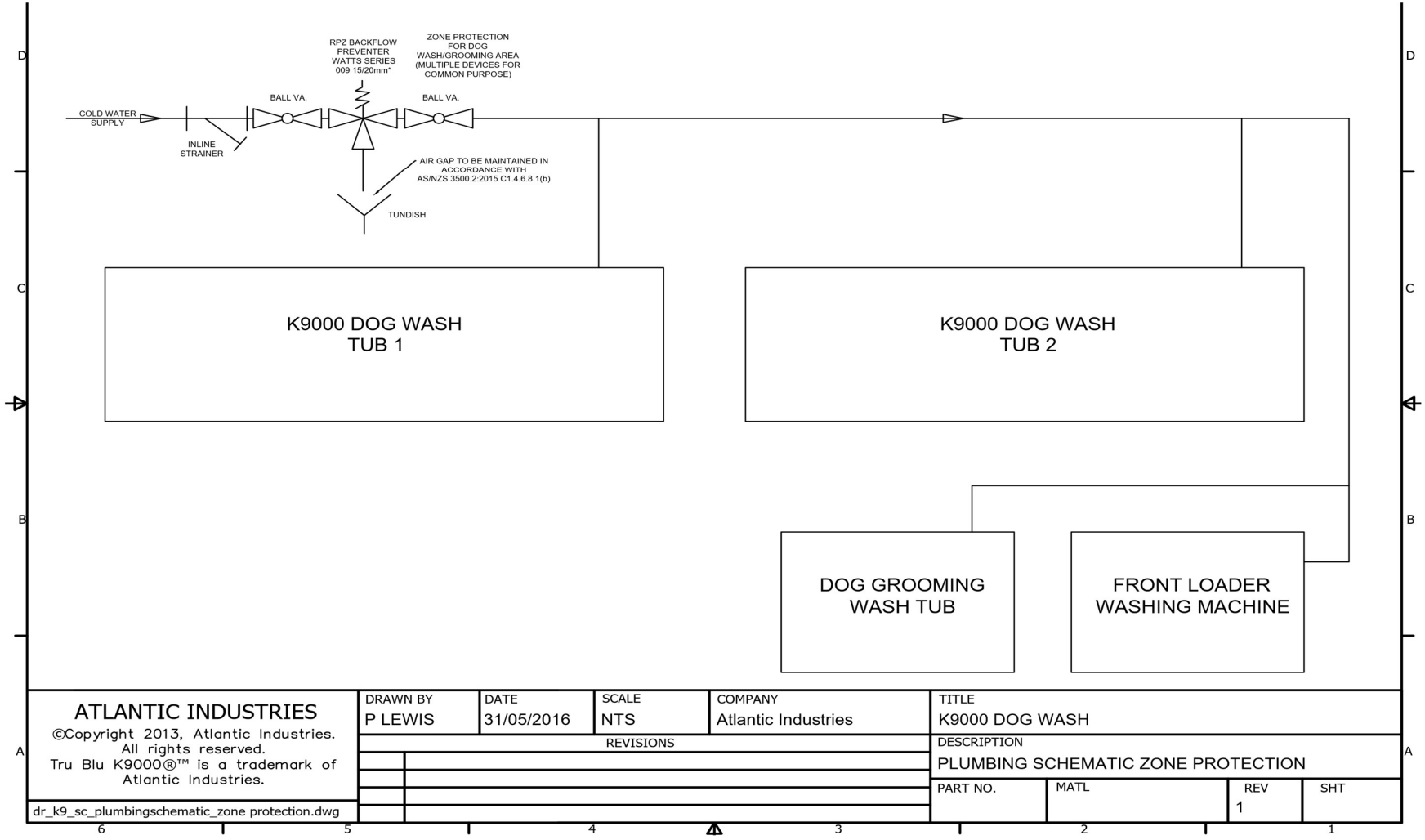
8.1 Plumbing Schematic Individual Protection



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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9.2 Plumbing Schematic Individual Protection

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hematic_REV1.pdf

9.3 Plumbing Schematic Zone Protection

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