

Duraflex Closed Loop Smart Refill Unit

SPEC SHEET

PRODUCT CODE: As below.

KEY FEATURES

The **NEW Duraflex Smart Refill Unit** is an advanced solution for high hazard applications, offering unrivaled features to monitor system water usage and pressure. The programmable functions and warning system helps prevent system corrosion damage and expensive premature failures.

System leakage detection:

- Continually monitors the system water usage.
- Displays the average amount of water added per day on the LCD panel. Monitoring is compatible with BMS systems via Modbus. Control Panel System Monitoring features:
- Triggers warning alarm for excessive water leakage.
- Triggers flood alarm for extensive loss, and the Refill is shut down.

System leakage is the silent destroyer and early detection of system water loss is vital to the prevention of damage. Continually adding fresh water to a circulating system causes dilution of corrosion inhibiting chemicals which are critical for system protection. Insufficient corrosion protection invariably shortens the working life of boilers, heat exchangers, valves, and pipework.

New Installation Set Up Wizard:

- The new Duraflex Refill Set Up Wizard guides the installer through simple steps to enter basic operational information.
- Set Up Wizard automatically calculates and sets pump control points and safety limits.

MODBUS BMS Remote monitoring:

The optional MODBUS High Level Interface allows connection to a remote Building Management System (BMS). Operators can view all system operating parameters remotely, including operating pressure, average daily water loss, total volume used, pump run hours and all system alarms. Monitoring system can be tailored to suit client requirements



System Monitoring features:

- Smart Digital Programmable Controller
- Smart controller with system calculator and adaption to system volume.
- Water Meter for system water use.
- Volt Free Alarm contacts for High pressure, Low pressure, and pump fault.
- Volt Free contact for pump operation.
- HLI Modbus connection for BMS Interface including system operating pressure.
- Alarm output on Pump fault.
- Automatic shutdown and alerts for major leak or high water use.
- Wide range of adjustable system pressure set points.
- User friendly digital control menu

Options:

- RS 485 MODBUS BMS system set up.
- Operating fields can be customized.
- Single pump or dual pump models for duty and standby operation
- Extra high pressure and flow rate pump.
- Fill bypass kit for use during filling a large volume system.
- Red flashing fault alert beacon mounted to top of housing.

Product	Code
300Kpa with dual pump, High Level Interface	ARUS300DPHLI
300Kpa with High Level Interface	ARUS300HLI
500Kpa with High Level Interface	ARUS550HLI



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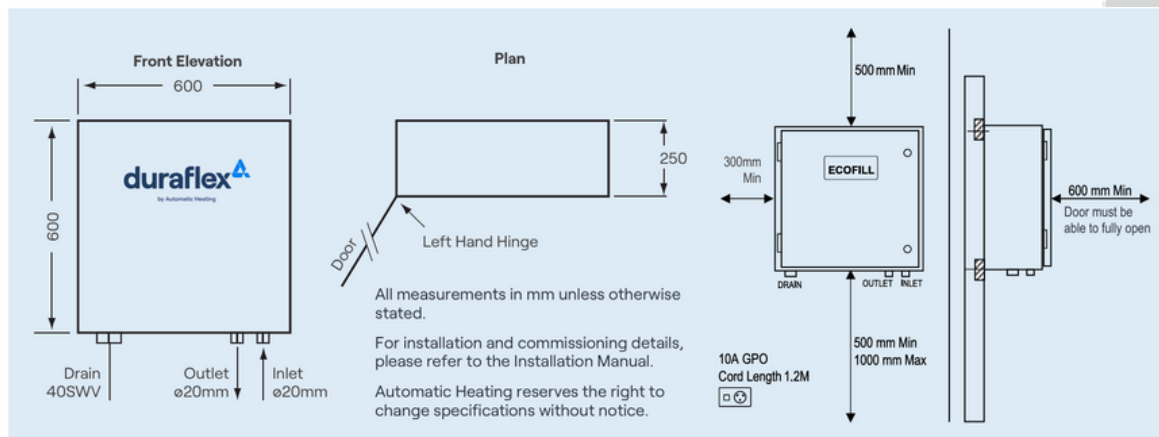
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Duraflex Smart Refill Unit

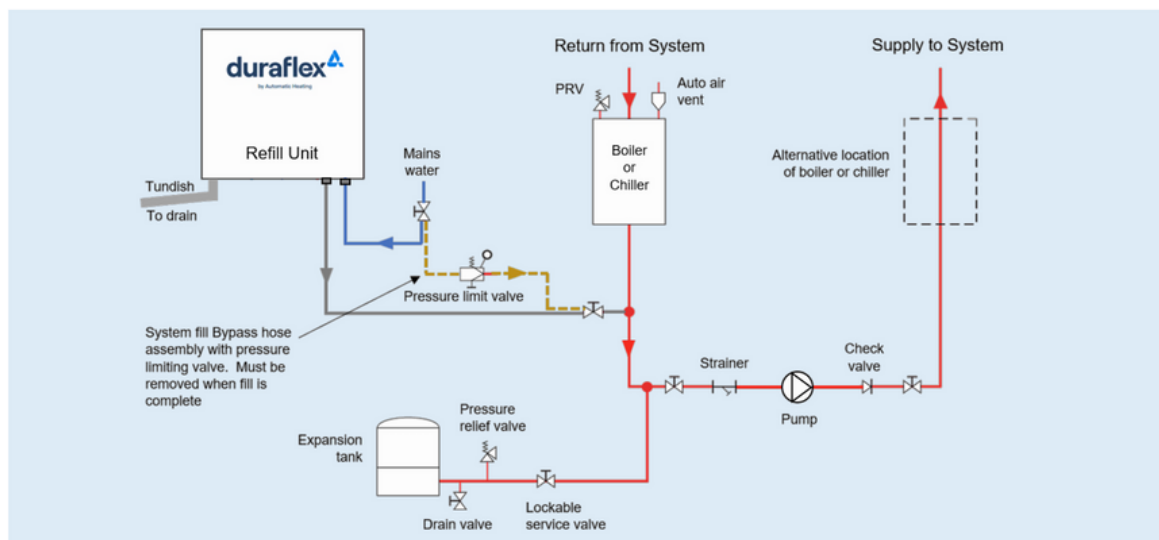
SPEC SHEET

KEY FEATURES CONTINUED

DIMENSIONS AND INSTALLATION CLEARANCE



INSTALLATION EXAMPLE



SPECIFICATIONS

Duraflex Smart Refill fully complies with Australian AS3500 National Plumbing and Drainage Code which strictly forbids the direct connection of mains water supply to any process system containing toxic or hazardous substances.

Model Number	Nom press. kPa	Max System Static Height M*	Flow L/ min	Pumps	Pump power kW	Supply volt	Run Current	Power supply	Inlet / Outlet fittings	Min/ Max supply kPa	0-volt alarm relays	RJ485 BMS
ARUS300	300	18	12	Single	0.37	240	2.2	10A GPO	15mm M	120-750	Std	N/A
ARUS550	500	36	16	Single	0.55	240	6.2	10A GPO	15mm M	120-750	Std	N/A
ARUS300DP	300	18	12	Dual	0.37^	240	2.2	10A GPO	15mm M	120-750	Std	N/A
ARUS550DP	500	36	16	Dual	0.55^	240	6.2	10A GPO	15mm M	120-750	Std	N/A
ARUS300HLI	300	18	12	Single	0.37	240	2.2	10A GPO	15mm M	120-750	Std	Std
ARUS550HLI	500	36	16	Single	0.55	240	6.2	10A GPO	15mm M	120-750	Std	Std
ARUS300DPHLI	300	18	12	Dual	0.37^	240	2.2	10A GPO	15mm M	120-750	Std	Std
ARUS550DPHLI	500	36	16	Dual	0.55^	240	6.2	10A GPO	15mm M	120-750	Std	Std

*Maximum vertical height between plant and highest system fixture.

^Dual pump models - only a single pump runs at any time. Pumps alternate at each fill cycle.

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