



AUTOMATIC REFILL UNITS

Simons Boilers Auto Refill Unit have been designed to maintain system pressure whilst providing an air-break between mains water supply and your closed loop system.

This unit comprises of a non-corrosive copper header tank, optional BMS and a 240V single phase pump. The on/off pressure control is provided by an adjustable pressure switch, which monitors the system pressure up to 4 or 6 Bar pressure.

The SPU Auto Refill is pre-piped and wired with a 3 pin plug and lead, all securely housed in a heavy duty weather resistant cabinet. The cabinet design allows for 4 mounting screws and easy access to the internal components.

FEATURES

- Easy wall mounting
- External connection straight on to copper connections
- No costly commissioning or yearly certification required
- Non-corrosive copper header tank
- High pressure, self priming pump
- Tamper proof, weather resistant cabinet

OPTIONS

- BMS options (each contains all features of previous)
 - Option 1 - Pump Run Contact only
 - Option 2 - Motor Fault and Low Pressure Contacts
 - Option 3 - Over Pressure Contact
- Lockable cabinet

PERFECT FOR USE WITH THESE SIMONS PRODUCTS



Fill Kit



Buffer Tanks



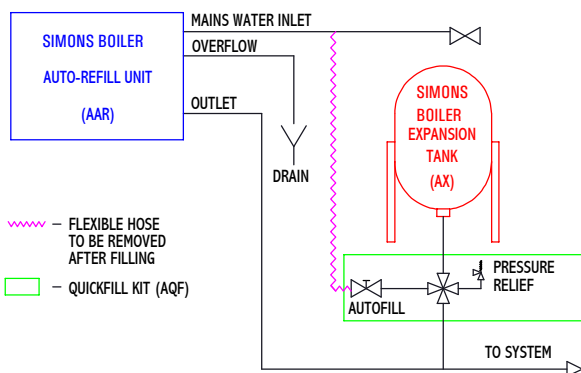
Expansion Tanks

SIMONS BUFFER TANK SPECIFICATIONS

TYPICAL INSTALLATION (when coupled with an expansion tank)

TYPICAL INSTALLATION SCHEMATIC

AAR, AX AND AQF ARE SEPARATE ITEMS
ADDITIONAL VALVES AND PIPEWORK BY OTHERS



TECHNICAL DATA (4bar/6bar)

MAX. OUTLET FLOW RATE:	0.5L/sec
MIN.-MAX. OUTLET PRESS.:	100-400/600kPa
POWER:	240 Volt
WATTS:	370/600 Watt
FULL LOAD CURRENT:	2.5/4.5 Amp
WEIGHT:	16kg
CABINET DIMENSIONS:	555w X 585h X 215d

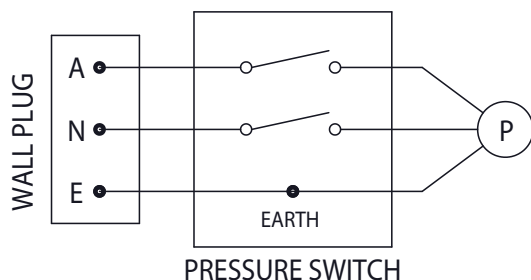
MODEL DESIGNATION AAR 041

MAX. OUTLET PRESSURE	BMS OPTION
04 = 400 kPa	0 = No BMS
06 = 600 kPa	1 = Option 1
	2 = Option 2
	3 = Option 3

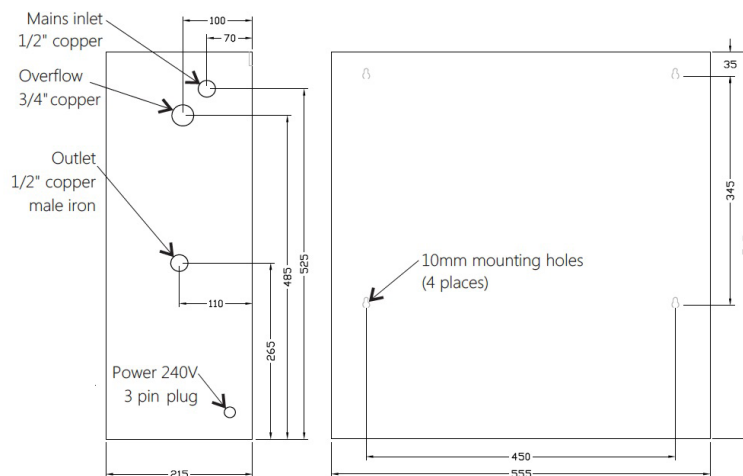


STANDARD WIRING DIAGRAM (NO BMS)

No BMS

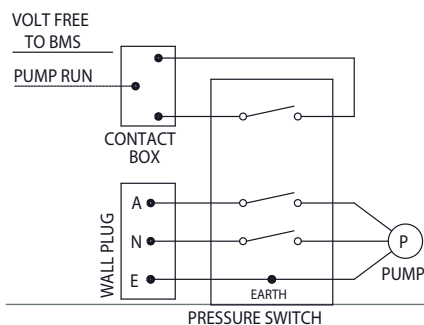


DIMENSIONAL DRAWING

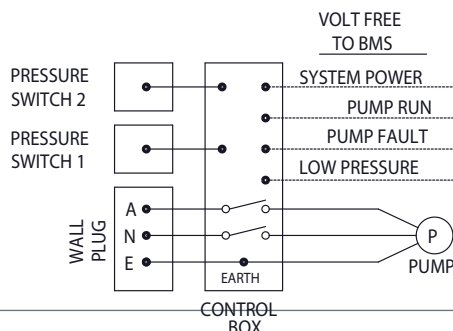


WIRING DIAGRAMS FOR BMS OPTIONS

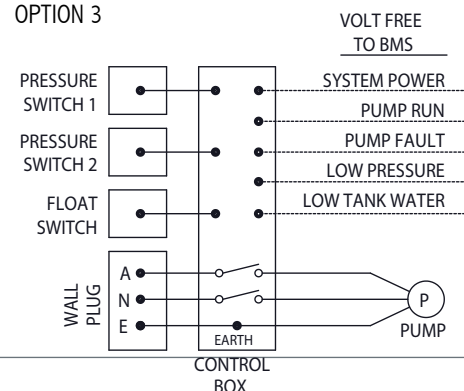
OPTION 1



OPTION 2



OPTION 3



Specifications subject to change without notice.



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