

INSTALLATION AND MAINTENANCE INSTRUCTIONS

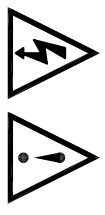
Product BOSS Type AX1 and AX2 Pressurisation Unit

Installation and commissioning

Application
Automatic make up and pressurisation for a sealed heating or air conditioning system
The unit must be used in conjunction with an expansion vessel(s)

Installation
Site unit in a ventilated frost free area
Ensure a minimum access of 100mm is available around the unit
Flush out minimum supply pipe before connecting
Fit a strainer to water connection if the supply may contain debris
DO NOT USE THE UNIT TO FILL THE SYSTEM
Please refer to BS 7074 Code of Practice

Services
Connect as shown
Pipe gway overflow safely
Electrical supply – 1/50/220–240v 5 amp supply through a suitable isolator
AX1 UNIT Connect to L,N and E terminals in the switch fuse
AX2 UNIT Connect to L,N and E in the starter



IMPORTANT - LIVE TERMINALS IN UNIT, DO NOT MAKE ADJUSTMENTS WITH COVERS REMOVED

- 1 Locate units in a well ventilated environment and ensure that ventilation fans and apertures are not obstructed
- 2 Check supply voltage and overload protection is correct
- 3 Electrical installation should be performed by a competent electrician
- 4 Guards and covers must not be removed during operation

Fill pressure
For LTHW and A/C systems the recommended pressure at the top of the system is 0.3 bar

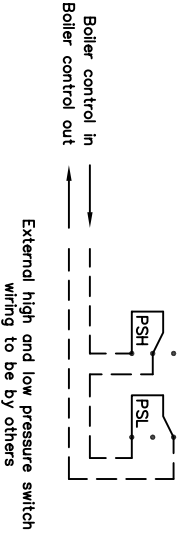
- Unit check**
- 1 Close lockshield valve (use pull off cover to operate the valve)
 - 2 With water in the break tank vent pump(s) using screw in pump casing
 - 3 Switch on unit – DO NOT RUN WITH PUMPS DRY
 - 4 Open drain valve slightly to vent unit (use a container to collect water)
 - 5 Close drain valve – pump should stop

To set fill pressure
(if unit is over pressure then drain down and repeat 1)

- 1 Turn pressure regulating valve screw until the required pressure is indicated on the pressure gauge
- 2 Tighten adjustment screw locking nut to secure setting
- 3 OPEN LOCKSHIELD VALVE

Maintenance
6 week intervals – On two pump units change duty pump selection between 1 and 2 using the switch on the starter

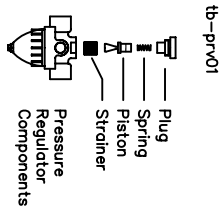
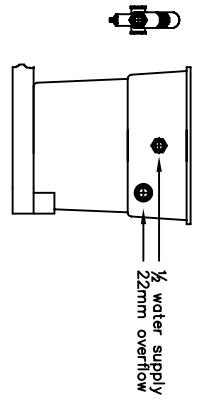
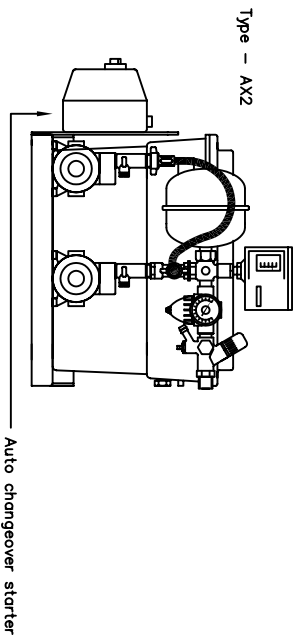
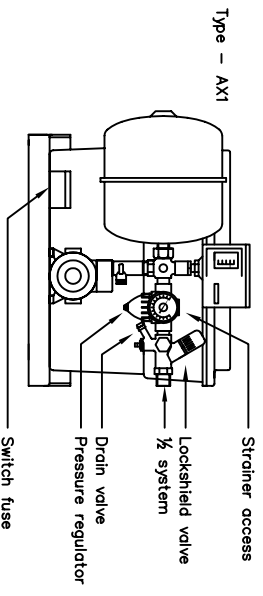
High and low pressure switch schematic (supplied separately)



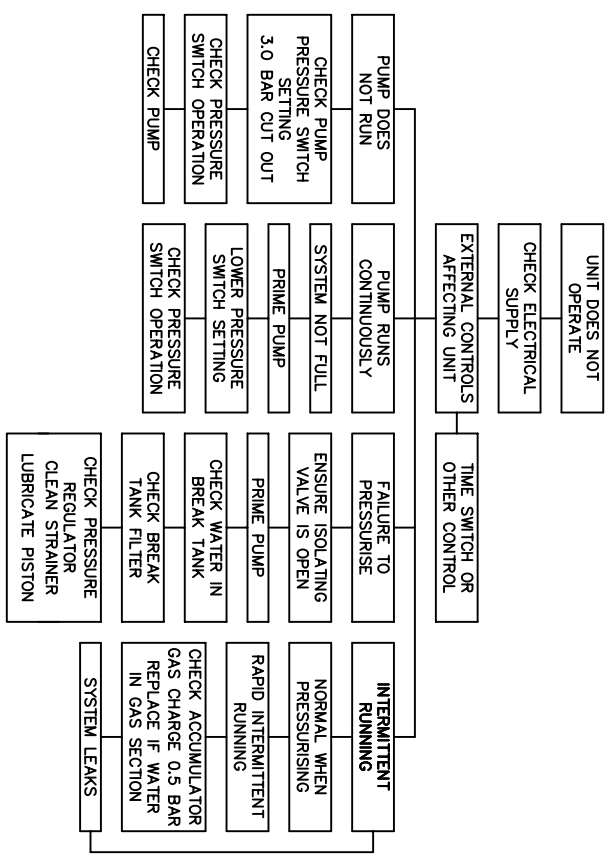
Recommended cut out setting

High pressure switch –
Set to 0.3 bar below safety valve setting
Low pressure switch –
Set to 0.3 bar below fill pressure

Services



Fault finding



INSTALLATION AND MAINTENANCE INSTRUCTIONS

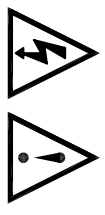
Product BOSS Type AX1 and AX2 Pressurisation Unit - Twin outlet

Installation and commissioning

Application
Automatic make up and pressurisation for a sealed heating or air conditioning system
The unit must be used in conjunction with an expansion vessel(s)

Installation
Site unit in a ventilated frost free area
Ensure a minimum access of 100mm is available around the unit
Flush out water supply pipe before connecting
Fit a strainer to water connection if the supply may contain debris
DO NOT USE THE UNIT TO FILL THE SYSTEM
Please refer to BS 7074 Code of Practice

Services
Connect as shown
Pipe gway overflow safely
Electrical supply – 1/50/220–240v 5 amp supply through a suitable isolator
AX1 UNIT Connect to L/N and E terminals in the switch fuse
AX2 UNIT Connect to L/N and E in the starter



- 1 Locate units in a well ventilated environment and ensure that ventilation fans and openures are not obstructed
- 2 Check supply voltage and overload protection is correct
- 3 Electrical installation should be performed by a competent electrician
- 4 Guards and covers must not be removed during operation

IMPORTANT - LIVE TERMINALS IN UNIT, DO NOT MAKE ADJUSTMENTS WITH COVERS REMOVED

Fill pressure
For LTHW and A/C systems the recommended pressure at the top of the system is 0.3 bar

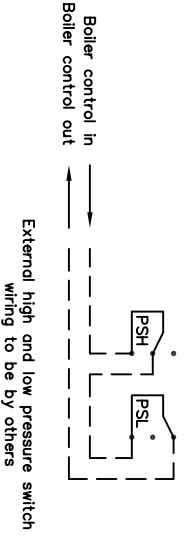
- Unit check**
- 1 Close lockshield valves (use pull off cover to operate the valve)
 - 2 With water in the break tank vent pump(s) using screw in pump casing
 - 3 Switch on unit – DO NOT RUN WITH PUMPS DRY
 - 4 Open drain valve slightly to vent unit (use a container to collect water)
 - 5 Close drain valve – pump should stop

To set fill pressure
(if unit is over pressure then drain down and repeat 1)

- 1 Turn pressure regulating valve screw until the required pressure is indicated on the pressure gauge
- 2 Tighten adjustment screw locking nut to secure setting
- 3 OPEN LOCKSHIELD VALVE S

Maintenance
6 week intervals – On two pump units change duty pump selection between 1 and 2 using the switch on the starter

High and low pressure switch schematic (supplied separately)

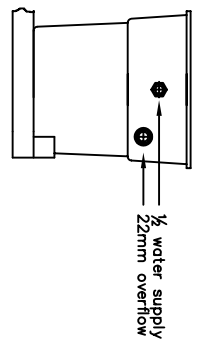
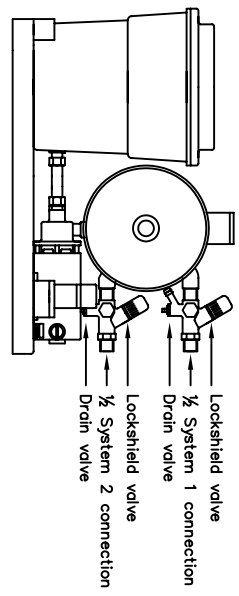


Recommended cut out setting

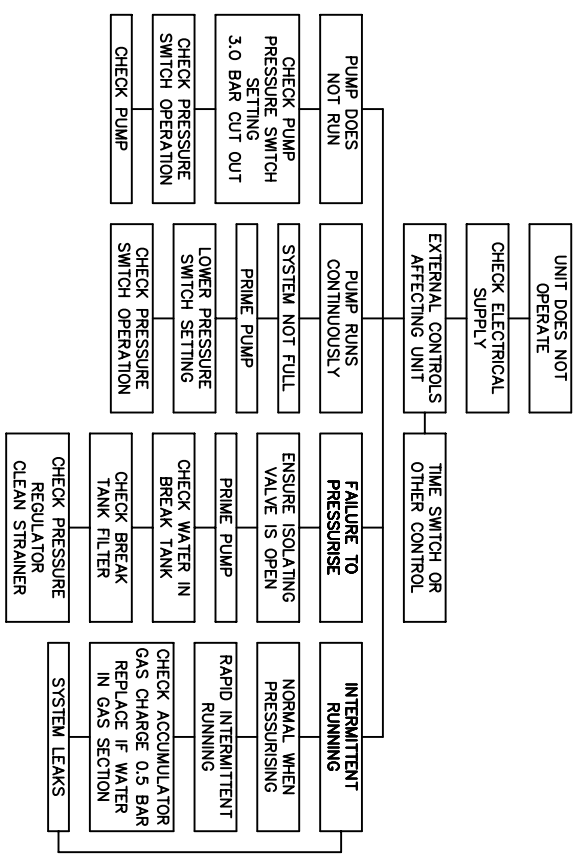
High pressure switch –
Set to 0.3 bar below safety
valve setting

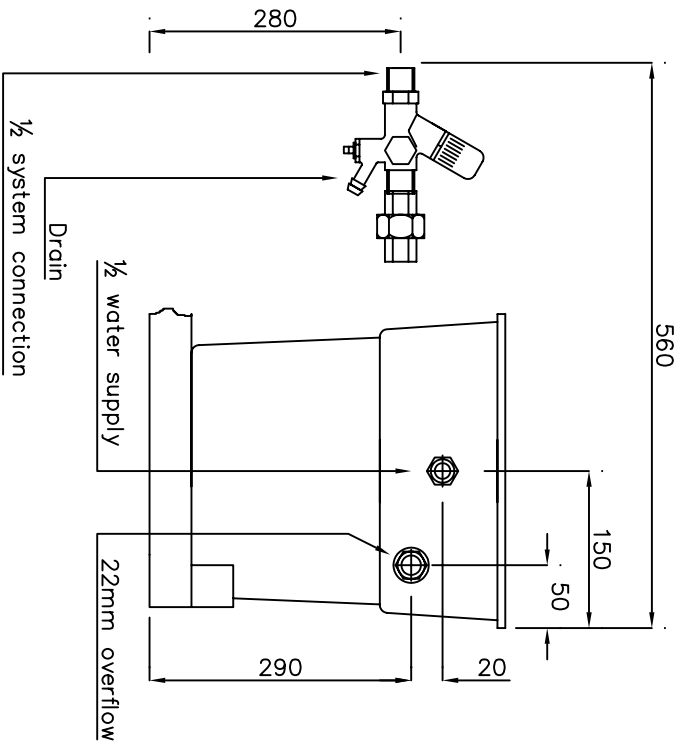
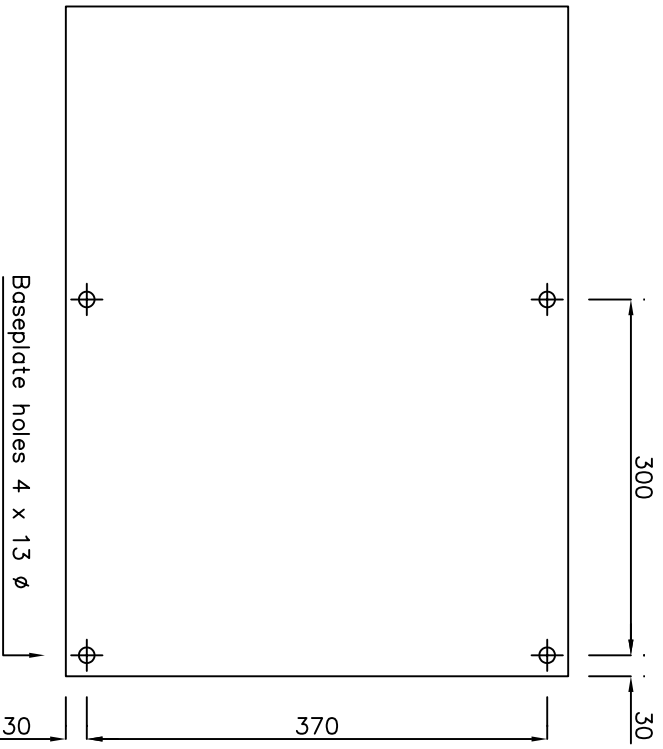
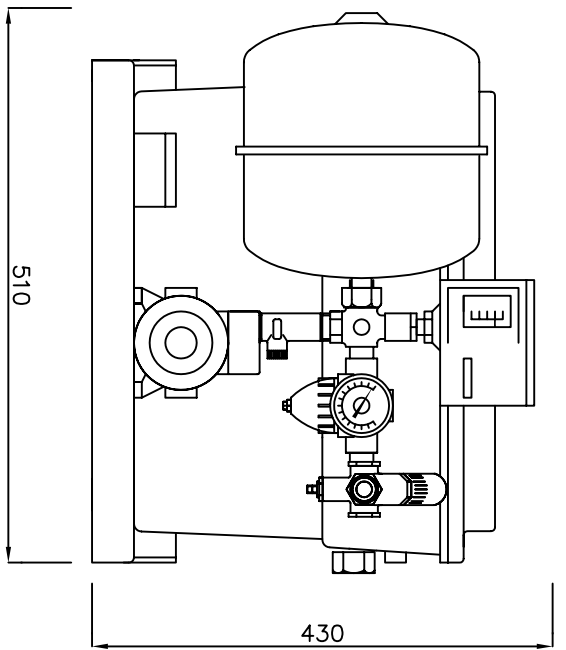
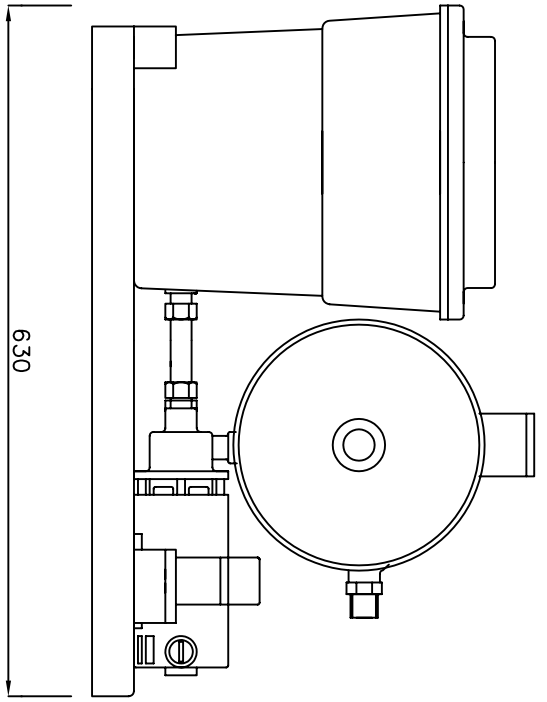
Low pressure switch –
Set to 0.3 bar below fill pressure

Services



Fault finding





View on A

Electrical
Supply 1/50/230v
Rating 5 amp

Weight 17 kg

Steel paint
Type Epoxy powder
coated
Colour Red

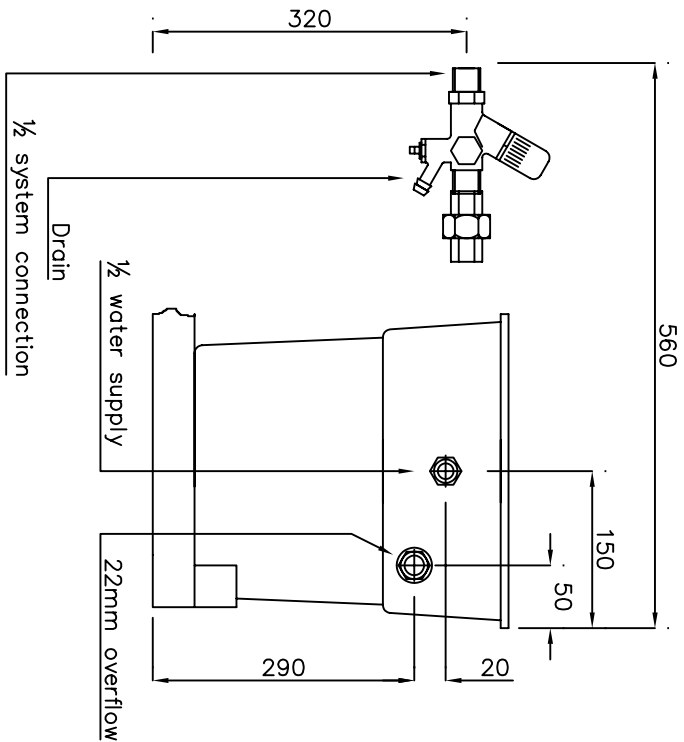
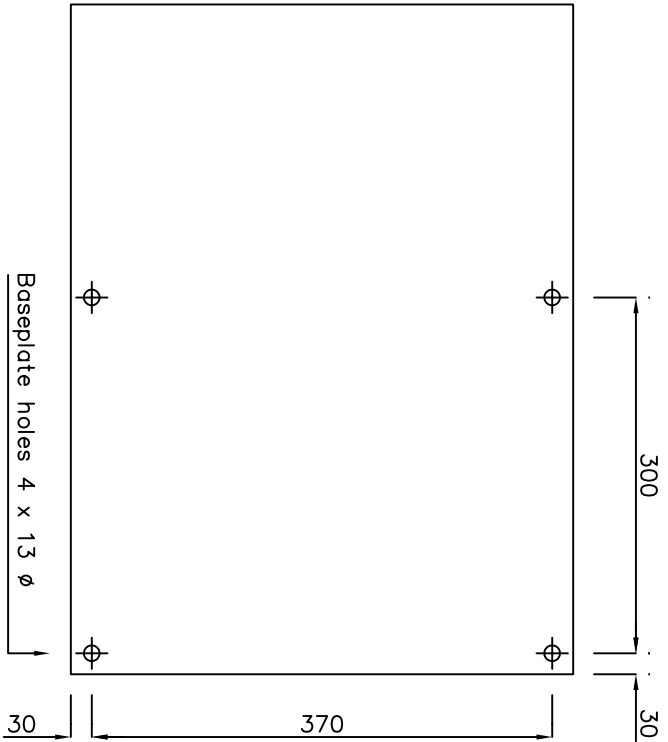
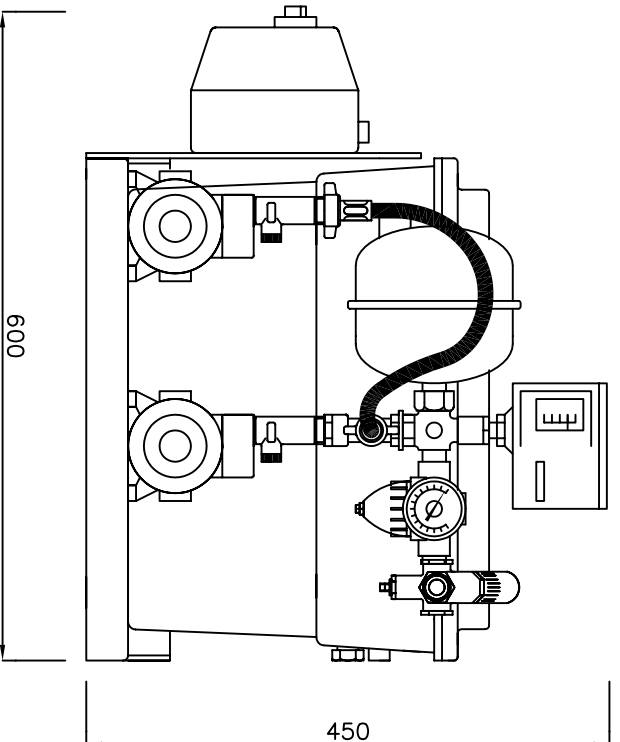
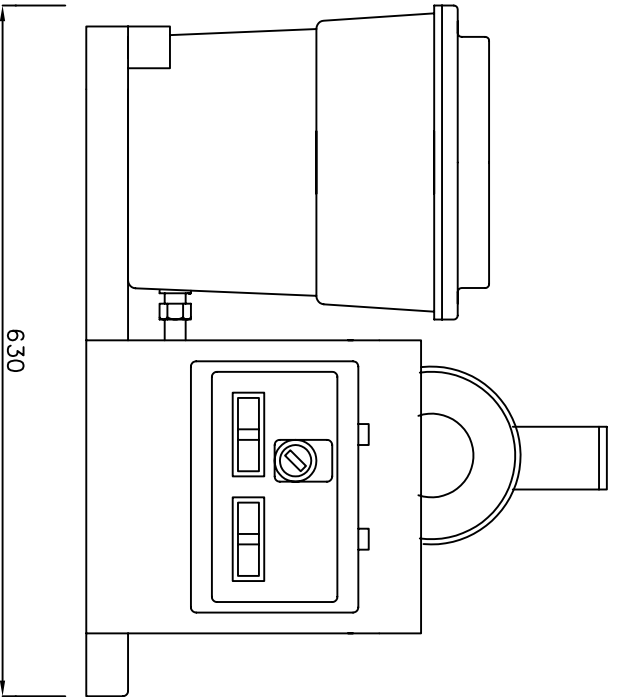
Dwg note - blocks x 0.75	etc	4/3/98	C
d.by	chk	date	issue
Dimensions - mm approx			
Scale - NTS			
Projection			
title			
GENERAL ARRANGEMENT			
PRESSFILL TYPE AX 1			



BSS UK LIMITED

Fleet House, Lee Circle, Leicester, LE1 30Q, England
Tel: 0116 262 3332, Fax: 0116 253 1343

Dwg no CDA-A11



View on A

- Electrical Supply 1/50/230v
- Rating 5 amp
- Starter Auto chageover
- Weight 23 kg
- Steel paint Epoxy powder
- Type coated
- Colour Red

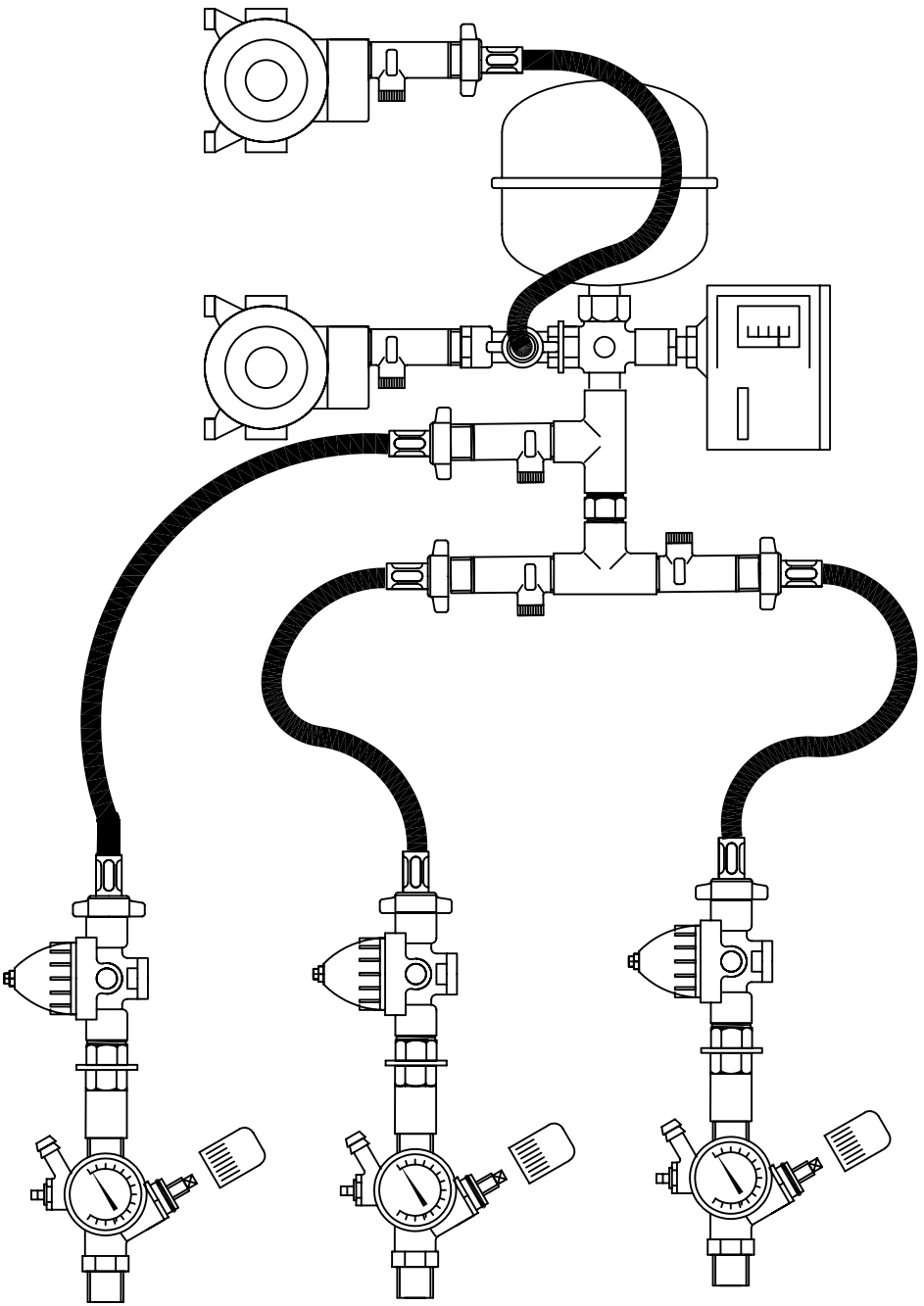
Dwg note - blocks x 0.75			
d/c	4/3/98		C
d/by	chk	date	issue
Dimensions - mm approx			
Scale - NTS			
Projection			
title			
GENERAL ARRANGEMENT			
PRESSFILL TYPE AX 2			



BSS UK LIMITED

Fleet House, Lee Circle, Leicester, LE1 30Q, England
 Tel: 0116 262 3232, Fax: 0116 253 1343

Dwg no CDA-A10



WM		20/06/00	A
d.by	chk	date	issue
Dimensions - mm approx			
Scale - NTS			
Projection			
title			
AX 2 lbis			
Fittings arrangement			



BSS UK LIMITED

Fleet House, Lee Circle, Leicester, LE1 30Q, England
 Tel: 0116 262 3232, Fax: 0116 253 1343

Dwg no CDA-F08

Diagram ref

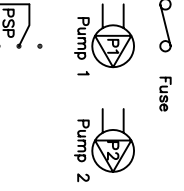
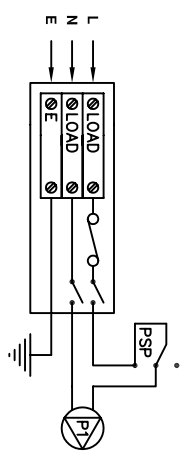
Product

Wiring diagram

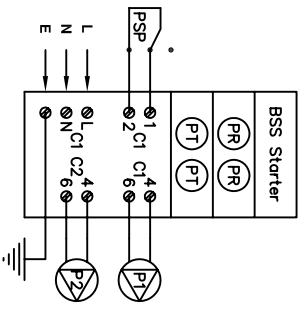
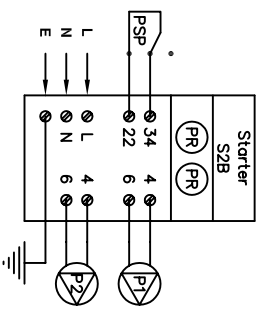
Dwg note - orig WI-A-17

Legend

A BOSS PRESSFILL UNIT
TYPE AX1



C BOSS PRESSFILL UNIT
TYPE AX2



Indicator lamps
 (PT) Pump Trip
 (PR) Pump Run

afc	13/11/98	B
dby	chk	date
Dimensions - mm approx		
Scale - NTS		
Projection		
title		
BOSS PRESSFILL		
TYPES AX1 AND AX2		



BSS UK LIMITED

Fleet House, Lee Circle, Leicester, LE1 30Q, England
 Tel: 0116 262 3232, Fax: 0116 253 1343

Dwg no CDA-W01