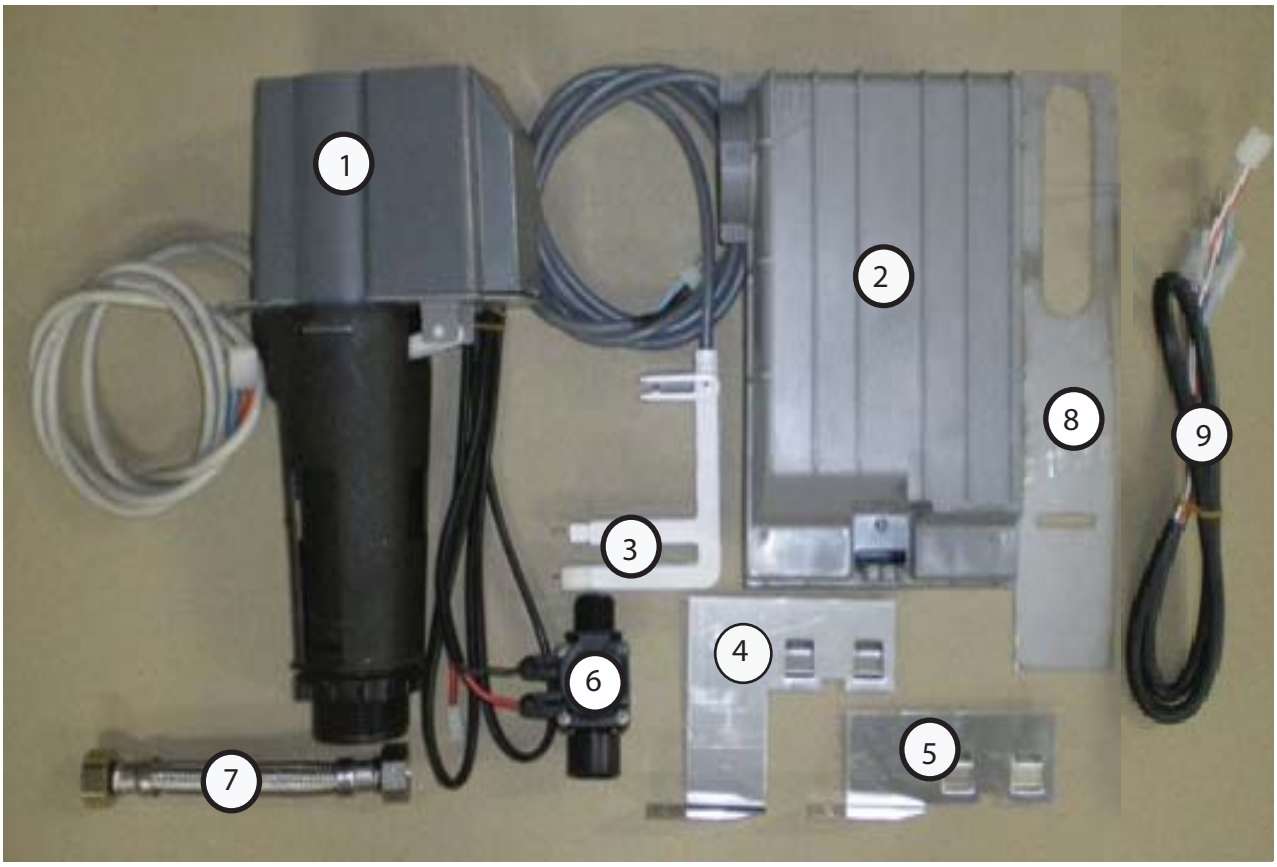
Kit No 077444

Auto Drain Installation Instructions.

TO SUIT RPC- RPA - RPB 2 SPEED ONLY



1. 114101 Drain valve.
2. 638614 Pcb. (Inside control box.)
3. 833811 Probe .
4. 638843 Brkt Large. RPB 1200 - 1800 only.
5. 638201 Brkt small.
6. 638638 Solenoid valve.
7. 638621 Braided hose.
8. 614700 Support brkt . RPC only.
9. 639444 Lead short.

FASTENERS

631196 cord restraint qty 1
fas115 spire nut U type qty 3
scr384 screw 14g x 1 qty 3
scr400 screw 8g x 3/8 qty 2
626147 screw 8g x 1-3/4 qty 1
638836 instructions.
fas 213 cable ties qty 6
9601101 clamp plastic qty 6
9603027 screw 8g x13mm qty 6

Braemar
HEATING COOLING

CONTENTS

NOTE! If using Salinity Sense a bleed to waste is not required.

Installation Check List TO BE COMPLETED BY THE INSTALLER

1. Electronics enclosure secured. ☐
2. Drain valve installed. ☐
3. Solenoid valve fitted. ☐
4. Salinity sensor probe installed. ☐
5. Unit wired in accordance with wiring diagram . ☐
6. Water main flushed before connection to unit . ☐
7. Float valve water level set . **90 mm maximum / 60mm minimum water level.** ☐
8. All water connections checked for leaks . ☐
9. All wiring neatly secured and away from moving parts, sharp edges and above water level. ☐
10. Water flow adequate to all pads. ☐
11. System tested. ☐
    - Solenoid valve opens / closes. ☐
    - Drain valve opens / closes. ☐
    - All parameters set as required. ☐
    - High / Low Speed Fan and Pump running ☐
12. OWNER INSTRUCTED IN METHODS OF OPERATION. ☐
13. OWNER ADVISED ON MAINTENANCE SERVICING REQUIREMENT. ☐

DRAIN KIT INSTALLATION CHECKED AND APPROVED BY

NAME.....DATE...../...../.....

Auto Drain Kit Installation.
RPC250T 2 Speed only

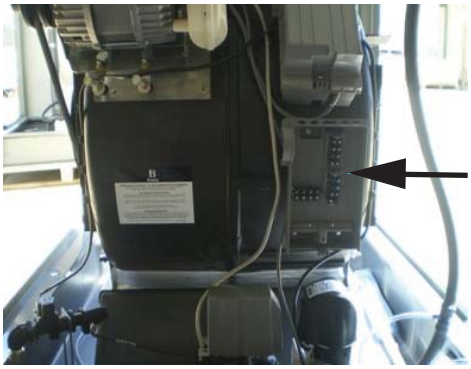
Warning - Isolate mains power supply before installing Drain Kit.
Remove as many pads as necessaary to install kit. Turn off water supply.

1. Fit drain valve to existing drain hole ensuring rubber o-ring is between drain valve and tank.

2. Unscrew float assembly at top of elbow.

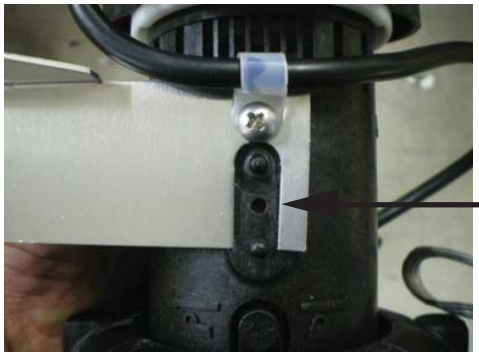
3. Apply thread tape to threads on float valve and solenoid.
4. Fit water inlet support bracket.
5. Screw solenoid to float , ensure correct direction of water flow as indicated by arrow symbol at base of solenoid.
6. Screw solenoid and float assembly to inlet elbow.

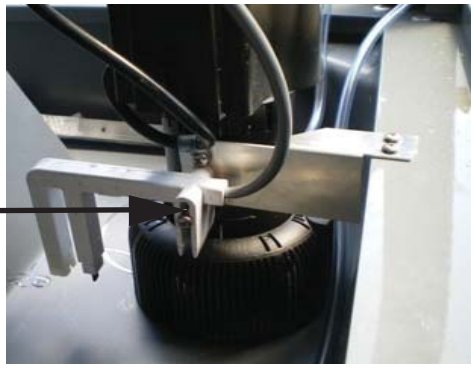
NOTE! It may be neccessary to bend float arm to avoid hitting drain valve.



7. Attach control box base to scroll at location indicated, using 3 screws provided in kit.

8. Attach sensor probe to pump and bracket with 8g x 1 3/4 screw supplied at location indicated.





9. Wire kit according to the wiring instructions and diagram.
Secure all loose leads with cable ties and cord grips supplied, re-fit electronics covers.
Ensure leads are not against moving parts , sharp edges or submerged.

Once components are installed , complete the checklist at the beginning of the manual.

Auto Drain Kit Installation.
RPC250D 2 Speed only

Warning - Isolate mains power supply before installing Drain Kit.
Remove as many pads as necessaary to install kit. Turn off water supply.

1. Fit drain valve to existing drain hole ensuring rubber o-ring is between drain valve and tank.

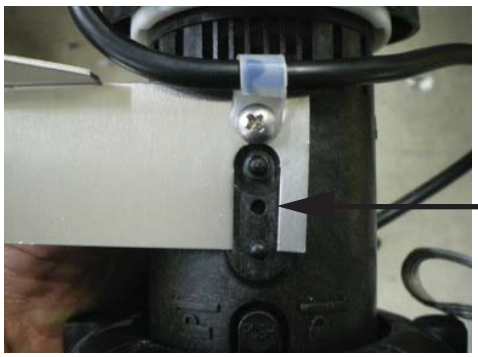
2. Unscrew float assembly at top of elbow.

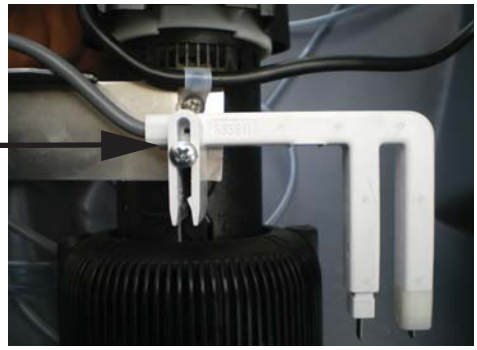
3. Apply thread tape to threads on float valve and solenoid.
4. Fit water inlet support bracket.
5. Screw solenoid to float , ensure correct direction of water flow as indicated by arrow symbol at base of solenoid.
6. Screw solenoid and float assembly to inlet elbow.

NOTE! It may be neccessary to bend float arm to avoid hitting drain valve.

7. Attach control box base to scroll at location indicated, using 3 screws provided in kit.

8. Attach sensor probe to pump and bracket with 8g x 1 3/4 screw supplied at location indicated.





9. Wire kit according to the wiring instructions and diagram.
Secure all loose leads with cable ties and cord grips supplied, re-fit electronics covers.
Ensure leads are not against moving parts , sharp edges or submerged.

Once components are installed , complete the checklist at the beginning of the manual.

Auto Drain Kit Installation
RPC250S 2 Speed only

Warning - Isolate mains power supply before installing Drain Kit.
Remove as many pads as necessaary to install kit. Turn off water supply.

1. Fit drain valve to existing drain hole ensuring rubber o-ring is between drain valve and tank.

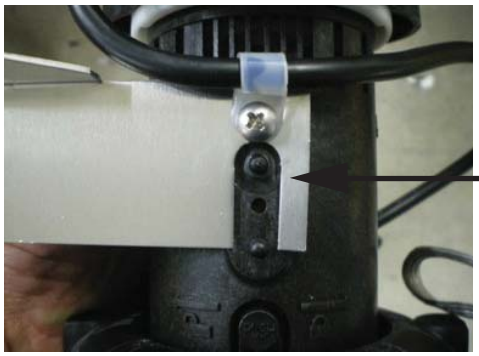
2. Unscrew float assembly at top of elbow.

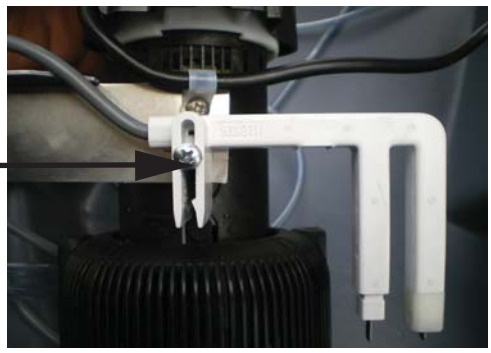
3. Apply thread tape to threads on float valve and solenoid.
4. Fit water inlet support bracket.
5. Screw solenoid to float , ensure correct direction of water flow as indicated by arrow symbol at base of solenoid.
6. Screw solenoid and float assembly to inlet elbow.

NOTE! It may be neccessary to bend float arm to avoid hitting drain valve.

7. Attach control box base to scroll at location indicated, using 3 screws provided in kit.

8. Attach sensor probe to pump and bracket with 8g x 1 3/4 screw supplied at location indicated.





9. Wire kit according to the wiring instructions and diagram.
Secure all loose leads with cable ties and cord grips supplied, re-fit electronics covers.
Ensure leads are not against moving parts , sharp edges or submerged.

Once components are installed , complete the checklist at the beginning of the manual.

Auto Drain Kit Installation.
RPC320-400 S 2 Speed only

Warning - Isolate mains power supply before installing Drain Kit.
Remove as many pads as necessaary to install kit. Turn off water supply.

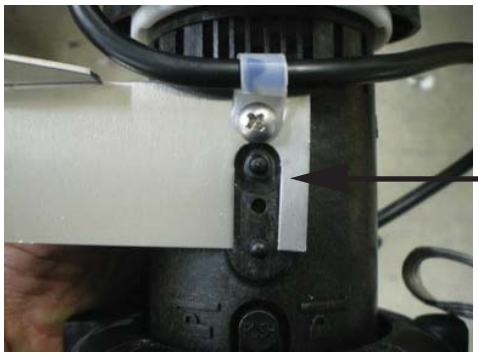
1. Fit drain valve to existing drain hole ensuring rubber o-ring is between drain valve and tank.

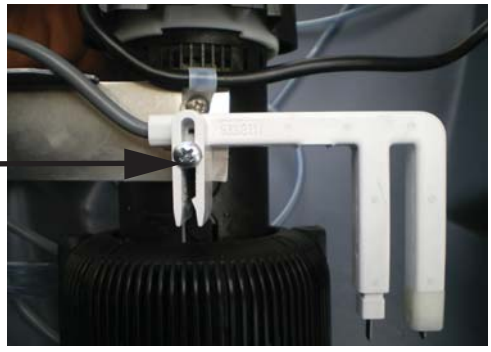
2. Unscrew float assembly at top of elbow.

3. Apply thread tape to threads on float valve and solenoid.
4. Fit water inlet support bracket.
5. Screw solenoid to float , ensure correct direction of water flow as indicated by arrow symbol at base of solenoid.
6. Screw solenoid and float assembly to inlet elbow.

7. Attach control box base to scroll at location indicated, using 3 screws provided in kit.

8. Attach sensor probe to pump and bracket with 8g x 1 3/4 screw supplied at location indicated.





9. Wire kit according to the wiring instructions and diagram.
Secure all loose leads with cable ties and cord grips supplied, re-fit electronics covers.
Ensure leads are not against moving parts , sharp edges or submerged.

Once components are installed , complete the checklist at the beginning of the manual.

Auto Drain Kit Installation.
RPC 320-400D &T 2 Speed only

Warning - Isolate mains power supply before installing Drain Kit.
Remove as many pads as necessaary to install kit. Turn off water supply.

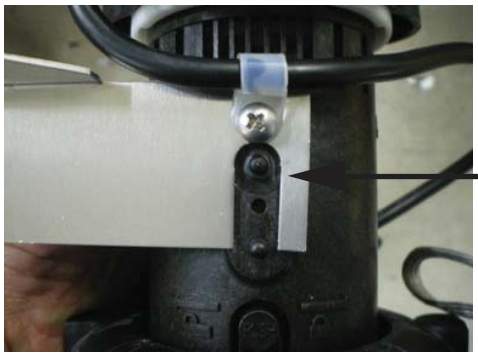
1. Fit drain valve to existing drain hole ensuring rubber o-ring is between drain valve and tank.

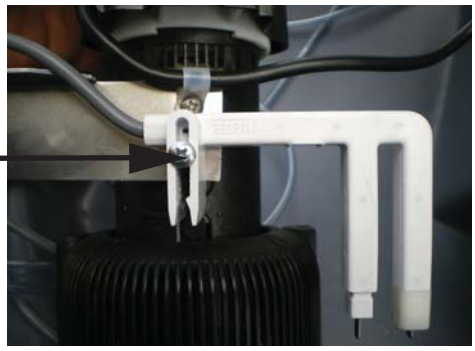
2. Unscrew float assembly at top of elbow.

3. Apply thread tape to threads on float valve and solenoid.
4. Fit water inlet support bracket.
5. Screw solenoid to float , ensure correct direction of water flow as indicated by arrow symbol at base of solenoid.
6. Screw solenoid and float assembly to inlet elbow.

7. Attach control box base to scroll at location indicated, using 3 screws provided in kit.

8. Attach sensor probe to pump and bracket with 8g x 1 3/4 screw supplied at location indicated.





9. Wire kit according to the wiring instructions and diagram.
Secure all loose leads with cable ties and cord grips supplied, re-fit electronics covers.
Ensure leads are not against moving parts , sharp edges or submerged.

Once components are installed , complete the checklist at the beginning of the manual.

Auto Drain Kit Installation.
RPC450D 2 Speed only

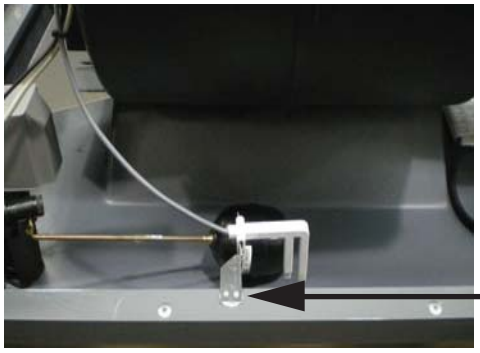
Warning - Isolate mains power supply before installing Drain Kit.
Remove as many pads as necessaary to install kit. Turn off water supply.

1. Fit drain valve to existing drain hole ensuring rubber o-ring is between drain valve and tank.

2. Unscrew float assembly at top of elbow.

3. Apply thread tape to threads on float valve and solenoid.
4. Fit water inlet support bracket.
5. Screw solenoid to float , ensure correct direction of water flow as indicated by arrow symbol at base of solenoid.
6. Screw solenoid and float assembly to inlet elbow.

7. Attach control box base to scroll at location indicated, using 3 screws provided in kit.



For RPC 450 coolers using the TORNADO pump fit sensor probe as per RPC 400D , refer page 6.

8. Attach sensor probe to sensor bracket and screw bracket to base frame at location indicated using (2) 8g x 3/8 screws supplied.
NOTE ! For RPC 450 use the small sensor bracket.

9. Wire kit according to the wiring instructions and diagram.
Secure all loose leads with cable ties and cord grips supplied, re-fit electronics covers.
Ensure leads are not against moving parts , sharp edges or submerged.

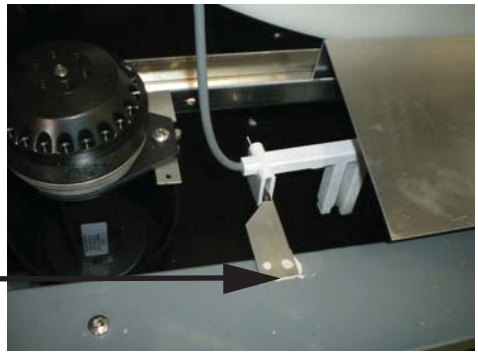
Once components are installed , complete the checklist at the beginning of the manual.

Auto Drain Kit Installation.
RPA 400-450DT

Warning - Isolate mains power supply before installing Drain Kit.
Remove as many pads as necessaary to install kit. Turn off water supply.

1. Fit drain valve to existing drain hole ensuring rubber o-ring is between drain valve and tank.

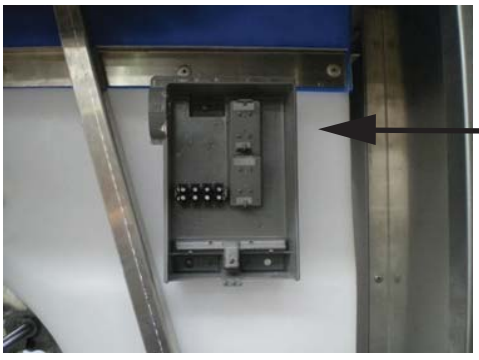
2. Unscrew float valve assembly from brass fitting
   Apply freash thread tape to valve .
   Fit water diverter, then the solenoid valve.
   Refasten to brass fitting.



3. For ease of installation it may be necessary to remove splash guard prior to fitting sensor and bracket.
   Attach sensor probe to sensor bracket and screw bracket to base frame at location indicated using (2) 8g x 3/8 screws supplied.
   If removed ensure splash guard is replaced
   NOTE! for RPA400 - 500 use the small sensor bracket.

4. Attach control box base to scroll at location indicated, using 3 screws provided in kit.

RPA400 - 450T



RPA400 - 450D

5. Wire kit according to the wiring instructions and diagram.
   Secure all loose leads with cable ties and cord grips supplied, re-fit electronics covers.
   Ensure leads are not against moving parts , sharp edges or submerged.

Once components are installed , complete the checklist at the beginning of the manual.

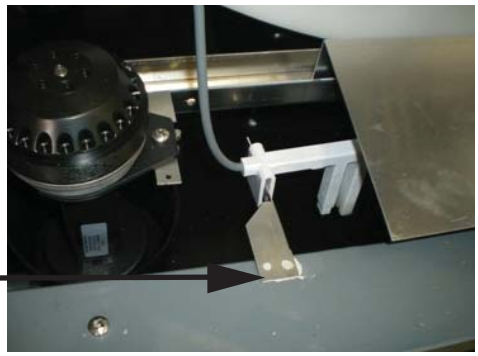
Auto Drain Kit Installation.
RPA 400-450S

Warning - Isolate mains power supply before installing Drain Kit.
Remove as many pads as necessaary to install kit. Turn off water supply.

1. Position drain valve as shown .
Measure distances to centre of drain valve and project down.
Drill a 48-50mm hole through base of reservoir. Keep drain valve as close as possible to edge of cooler frame to allow clearance for water inlet valve.
Fit drain valve to new location ensuring rubber o-ring is between drain valve and reservoir.

2 . Unscrew float valve assembly from brass fitting
Apply fresh thread tape to valve .
Fit water diverter, then the solenoid valve.
Refasten to brass fitting.

3. Attach control box base to scroll at location indicated, using 3 screws provided in kit.



4. For ease of installation it may be necessary to remove splash guard prior to fitting sensor and bracket.
Attach sensor probe to sensor bracket and screw bracket to base frame at location indicated using (2) 8g x 3/8 screws supplied.

If removed ensure splash guard is replaced.

NOTE! for RPA400 - 500 use the small sensor bracket.

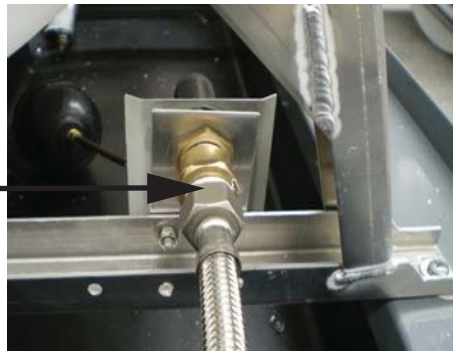
5. Wire kit according to the wiring instructions and diagram.
Secure all loose leads with cable ties and cord grips supplied, re-fit electronics covers.
Ensure leads are not against moving parts , sharp edges or submerged.

Once components are installed , complete the checklist at the beginning of the manual.

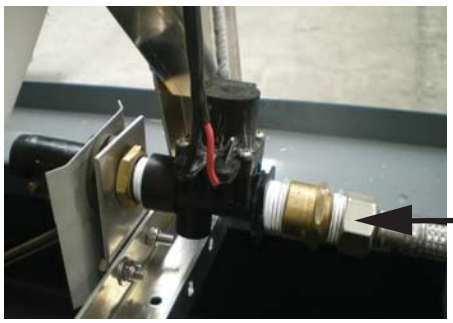
Auto Drain Kit Installation
RPA 500D

Warning - Isolate mains power supply before installing Drain Kit.
Remove as many pads as necessaary to install kit. Turn off water supply.

1. Fit drain valve to existing drain hole ensuring rubber o-ring is between drain valve and tank.



2. Remove braided hose and brass fitting from float valve.
3. Apply thread tape to end of solenoid valve and float valve , screw solenoid to float .



4. Re-fit braided hose and brass fitting.

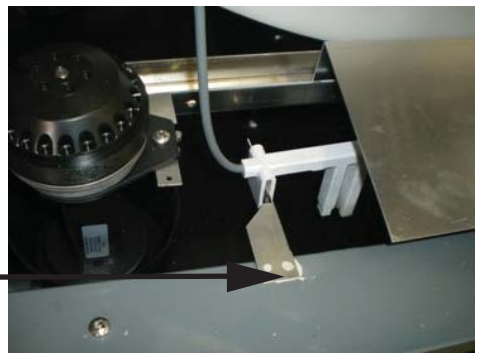
NOTE! It will be necessary to bend float arm to avoid drain valve.

5. For ease of installation it may be necessary to remove splash guard prior to fitting sensor and bracket.

Attach sensor probe to sensor bracket and screw bracket to base frame at location indicated using (2) 8g x 3/8 screws supplied.

If removed ensure splash guard is replaced

NOTE! for RPA400 - 500 use the small sensor bracket.



6. Attach control box base to scroll at location indicated, using 3 screws provided in kit.

7. Wire kit according to the wiring instructions and diagram.
Secure all loose leads with cable ties and cord grips supplied, re-fit electronics covers.
Ensure leads are not against moving parts , sharp edges or submerged.

Once components are installed , complete the checklist at the beginning of the manual.

Auto Drain Kit Installation.
RPB600-1000 D,S,T

Warning - Isolate mains power supply before installing Drain Kit.
Remove as many pads as necessaary to install kit. Turn off water supply.

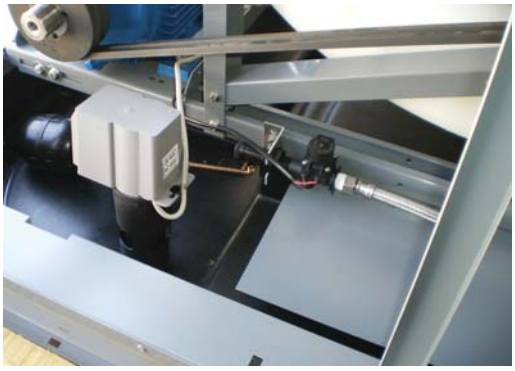
1. Remove float from bracket.

2. Apply thread sealant tape to threads on float valve and solenoid.

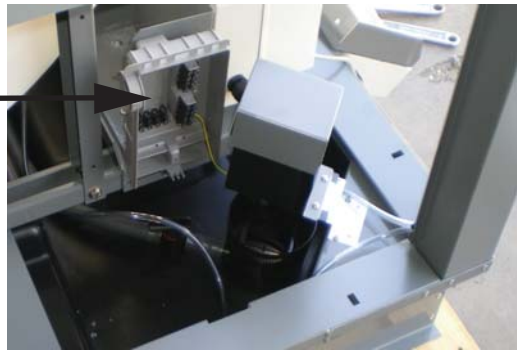
3. Screw solenoid to float, Ensuring arrow on bottom of solenoid is pointing towards float.

4. Screw flexible braided hose to solenoid.

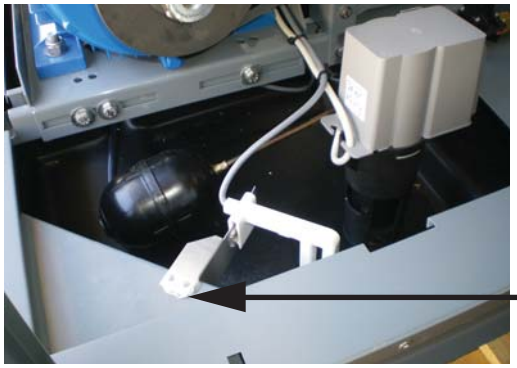
5. Re-attach float assembly to float bracket.



6. Fit drain valve to existing drain hole ensuring rubber o-ring is between drain valve and tank.



7. Attach control box base to side of isolation control box mount. Using 3 screws and speed clips provided.



8. Attach sensor probe to sensor bracket and screw bracket to base frame at location indicated using (2) x 8g x 3/8 screws supplied.

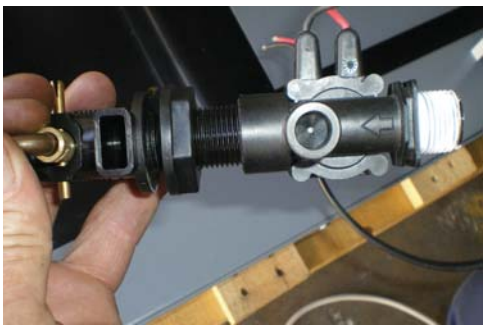
NOTE ! For RPB 600 - 1000 coolers use the small sensor bracket.

9. Wire kit according to the wiring instructions and diagram.
Secure all loose leads with cable ties and cord grips supplied, re-fit electronics covers.
Ensure leads are not against moving parts , sharp edges or submerged.

Once components are installed , complete the checklist at the beginning of the manual.

Auto Drain Kit Installation.
RPB 1200-1800 DST

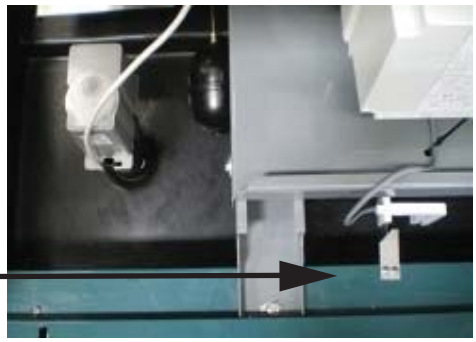
Warning - Isolate mains power supply before installing Drain Kit.
Remove as many pads as necessaary to install kit. Turn off water supply.



1. Remove float from bracket.
2. Apply thread sealant tape to threads on float and solenoid.
3. Screw solenoid to float, Ensuring arrow on bottom of solenoid is pointing towards float.

4. For RPB 1200-1500 DST & 1800S fit small braided hose supplied with kit.
For 1800 D&T reconnect long braided hose.

5. Fit drain valve to existing drain hole ensuring rubber o-ring is between drain valve and tank.



6. Attach sensor probe to sensor bracket and screw bracket to base frame at location indicated using (2) 8g x 3/8 screws supplied.
NOTE ! For RPB 1200- 1800 coolers use the large sensor bracket.

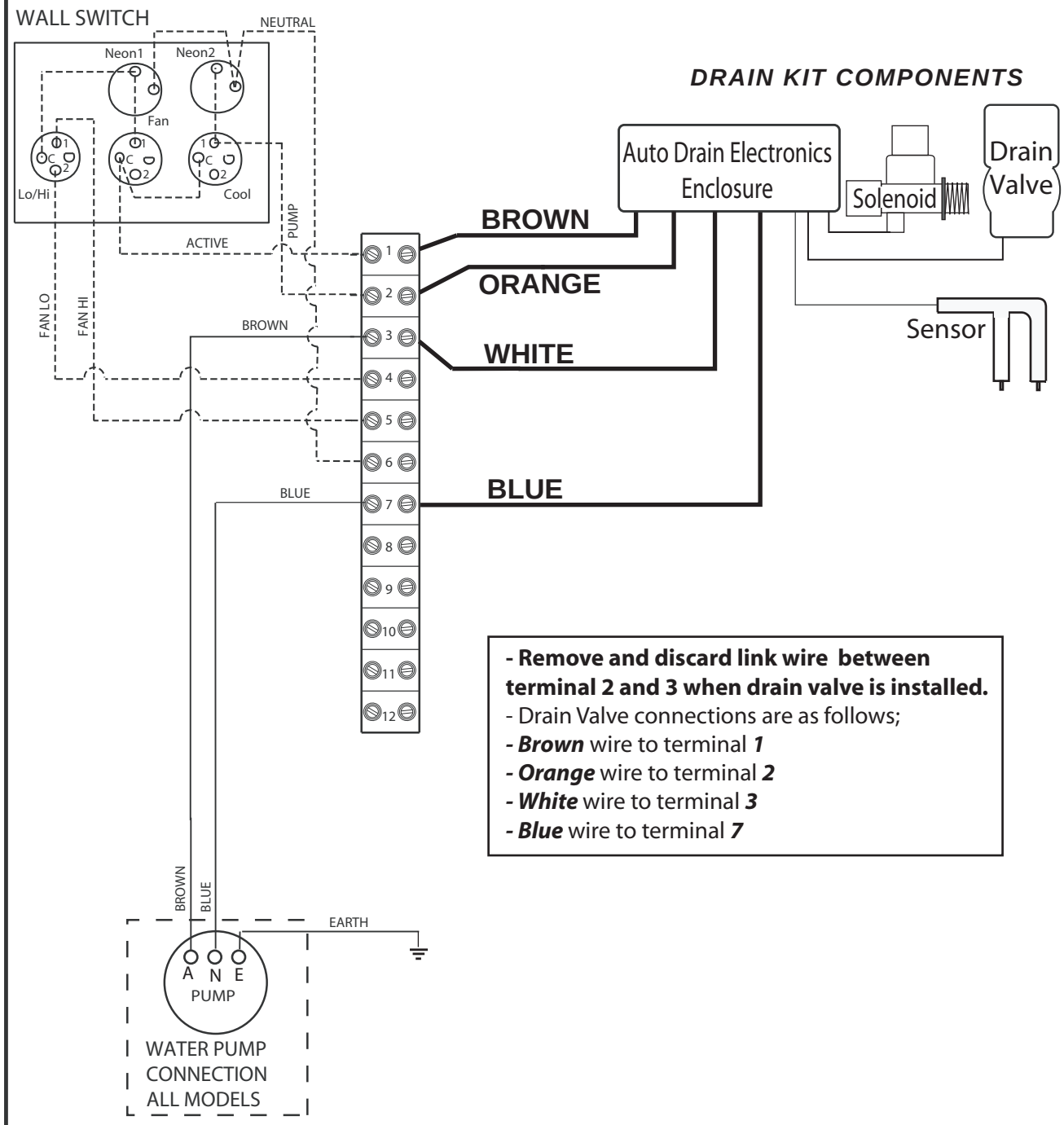
7. Attach control box base to side of isolation control box mount. Using 3 screws and speed clips provided.

9. Wire kit according to the wiring instructions and diagram.
Secure all loose leads with cable ties and cord grips supplied, re-fit electronics covers.
Ensure leads are not against moving parts , sharp edges or submerged.

Once components are installed , complete the checklist at the beginning of the manual.

Auto Drain Wiring Diagram - Two Speed Three Phase.

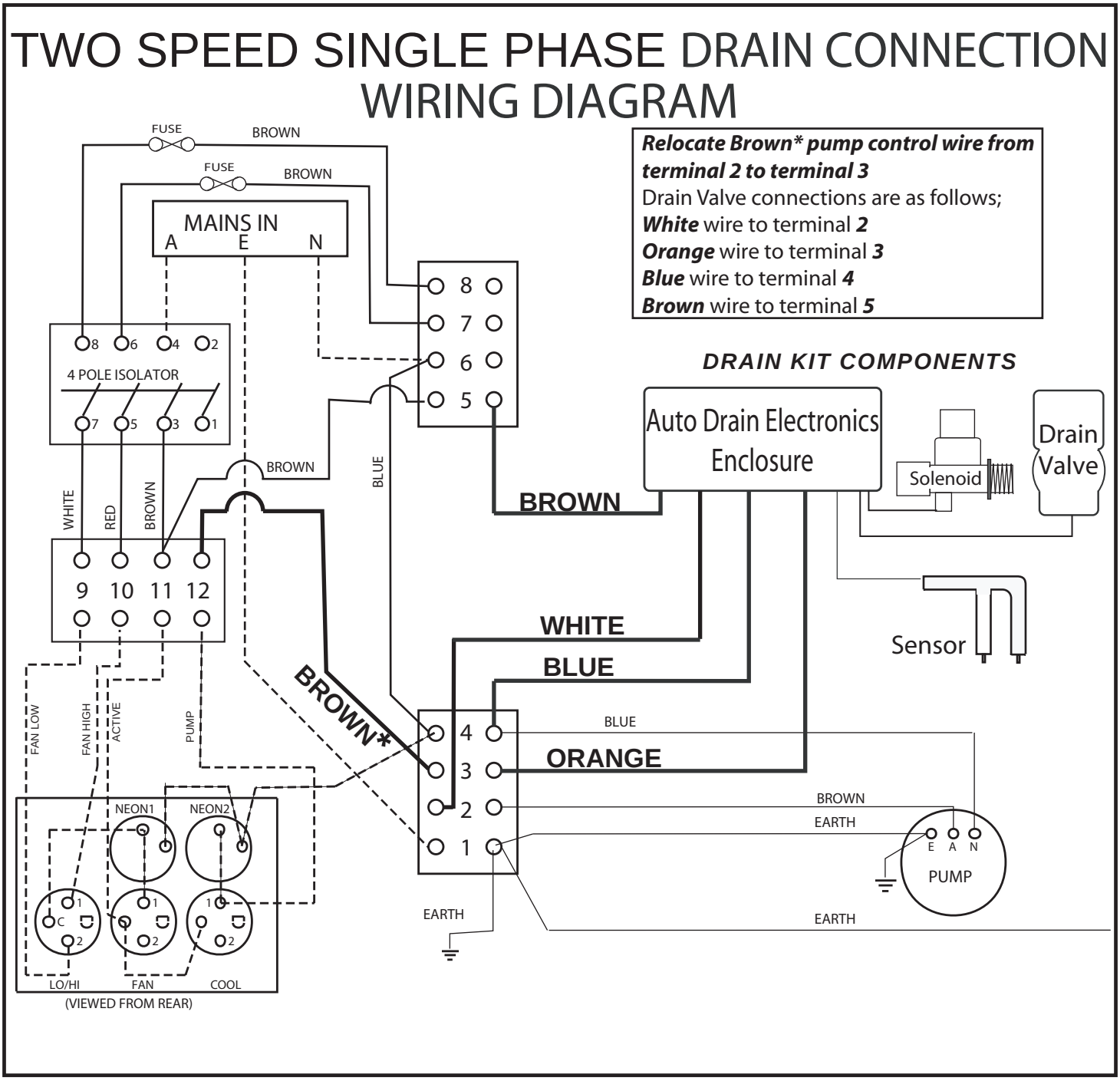
3 PHASE COOLER AUTO DRAIN CONNECTION WIRING DIAGRAM

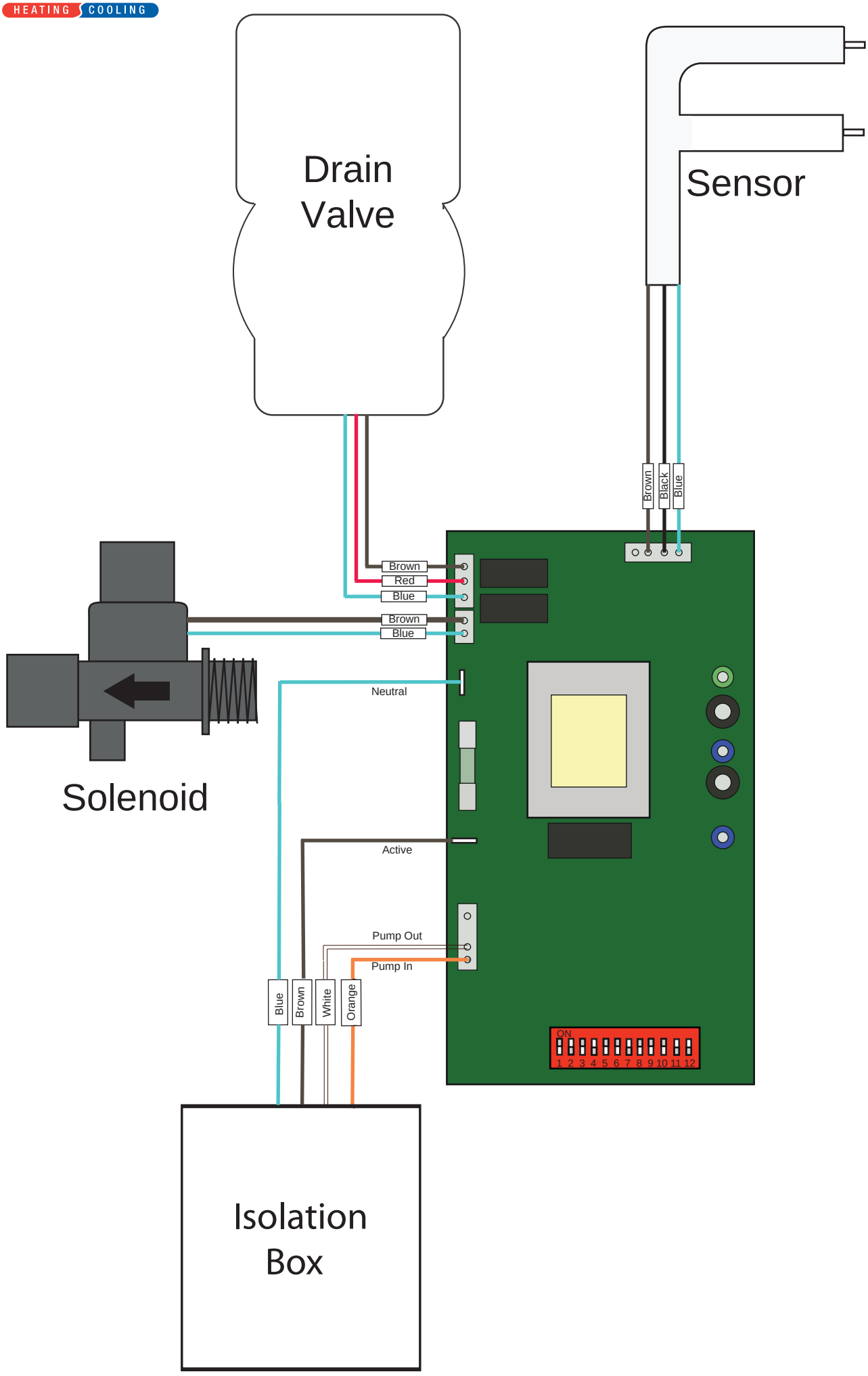


Auto Drain Kit Installation.

2 SPEED SINGLE PHASE WIRING DIAGRAM

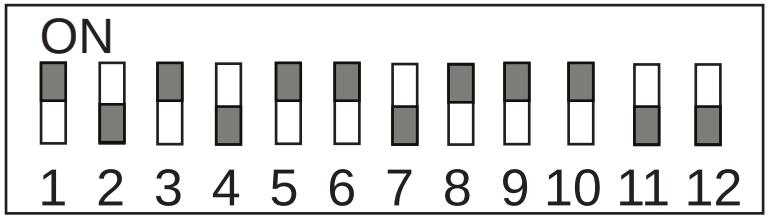
TWO SPEED SINGLE PHASE DRAIN CONNECTION WIRING DIAGRAM




Drain Valve
Sensor
Brown
Black
Blue
Brown
Red
Blue
Brown
Blue
Neutral
Solenoid
Active
Pump Out
Pump In
Blue
Brown
White
Orange
ON
1 2 3 4 5 6 7 8 9 10 11 12
Isolation Box

Auto Drain Kit Installation.
Settings Detailed

Dip switch settings and descriptions



NOTE: 1 = ON, 0 = OFF = Default Setting

Fill Option

SW1	SW2	SW3	Function / Description
0	0	0	Time based filling, fill time = 0 mins
0	1	0	Time based filling, fill time = 2 mins
0	0	1	Time based filling, fill time = 4 mins
0	1	1	Time based filling, fill time = 10 mins
1	0	0	Fill based on water level sensed by Salinity Probe, pump delay time = 0 mins
1	1	0	Fill based on water level sensed by Salinity Probe, pump delay time = 0.5 mins
1	0	1	Fill based on water level sensed by Salinity Probe, pump delay time = 2 mins
1	1	1	Fill based on water level sensed by Salinity Probe, pump delay time = 5 mins

Dilution

SW4	SW5	Function / Description
0	0	Max Salinity Level = 2300 uS/cm
1	0	Max Salinity Level = 2300 uS/cm
0	1	Max Salinity Level = 4275 uS/cm
1	1	Max Salinity Level = 6000 uS/cm

Configurable Delay

SW6	SW7	Function / Description
0	0	Delay period between subsequent drain function = 0 mins
1	0	Delay period between subsequent drain function = 30 mins
0	1	Delay period between subsequent drain function = 60 mins
1	1	Delay period between subsequent drain function = 60 mins

NOTE: 1 = ON, 0 = OFF = Default Setting

Time lapsed between dump

SW8	SW9	SW10	Function / Description
0	0	0	Dump cycle starts as soon as cool function is switched off
0	1	0	Dump cycle starts as soon as cool function is switched off
0	0	1	Dump cycle starts as soon as cool function is switched off
0	1	1	Dump cycle starts as soon as cool function is switched off
1	0	0	Dump cycle starts 10 minutes after cool function is switched off
1	1	0	Dump cycle starts 90 minutes after cool function is switched off
1	0	1	Dump cycle starts 12 hours after cool function is switched off
1	1	1	Dump cycle starts 3 days after cool function is switched off

Power Up Salinity Check

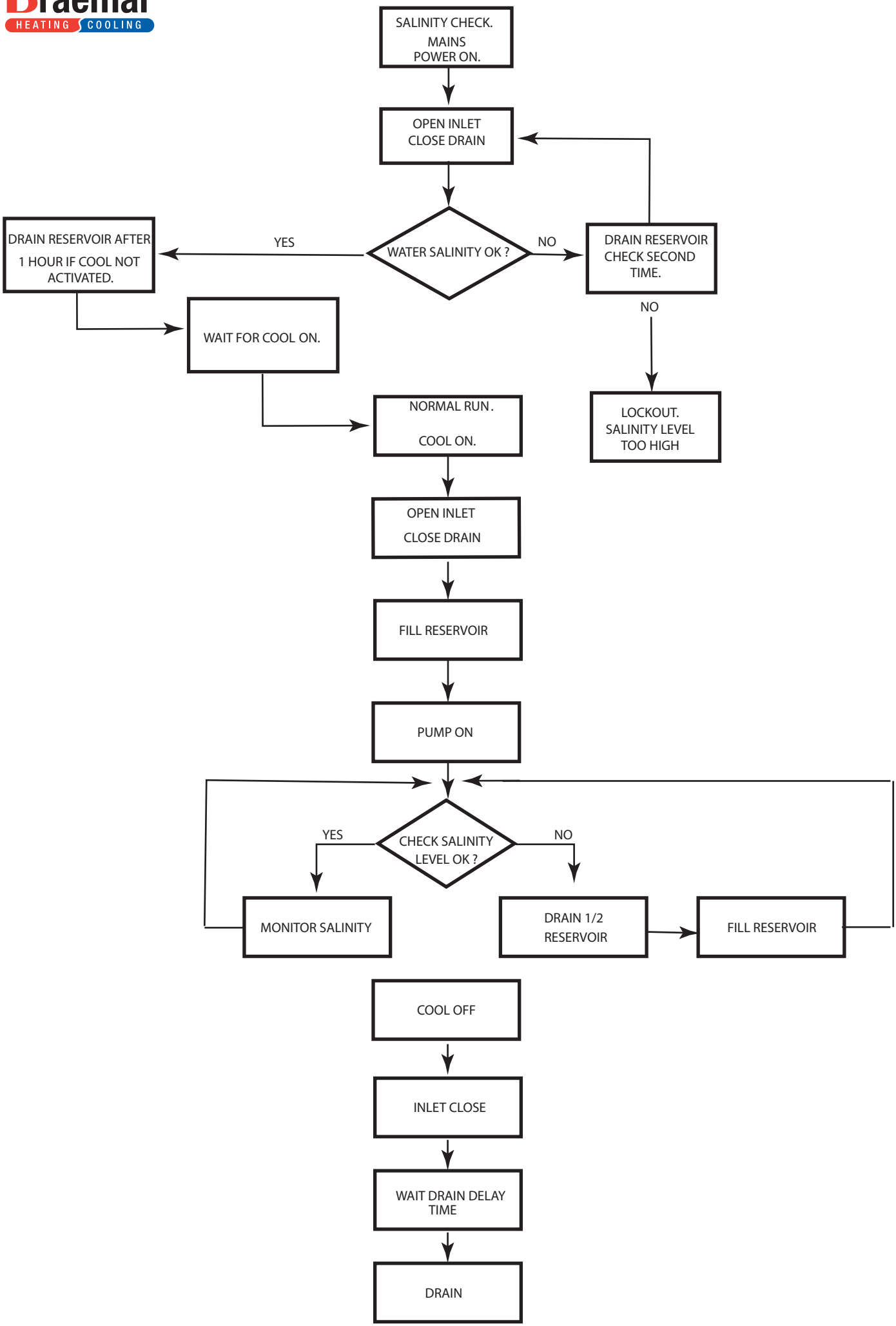
SW11	Function / Description
0	Water Salinity Check disabled.
1	First Off, Water Salinity Check max = 2000 u/cm

Time Lapsed Between Dump

SW12	Function / Description
0	Normal operation
1	Test mode

Auto drain is supplied set to the above default settings for information regarding alternative settings please contact Technical support: Ph 1300 650 399

HOW THE AUTO DRAIN KIT WORKS.



Braemar
HEATING COOLING

SEELEY Si SERVICE

SERVICE: 1300 650 644
For all your Braemar warranty and service needs.
Or
Contact your local Braemar direct dealer.

TECHNICAL SUPPORT CENTRE: 1300 650 399
For technical support regarding
the installation of this product

SALES: 1300 650 141
For all your sales enquiries

Seeley International Pty Ltd ACN 23 054 687 035
Albury Manufacturing
77 North Street Albury, NSW 2640

SEELEY INTERNATIONAL

www.seeley.com.au

Manufacturers and Designers of Technically Advanced Quality Heating and Cooling Products

ECN1702 Doc. No. 638836.C