

+ CONDENSATE PUMP KIT

When replacing any part on this appliance, use only spare parts that you can be assured conform to the safety and performance specification that we require. Do not use reconditioned or copy parts that have not been clearly authorised by Ideal.

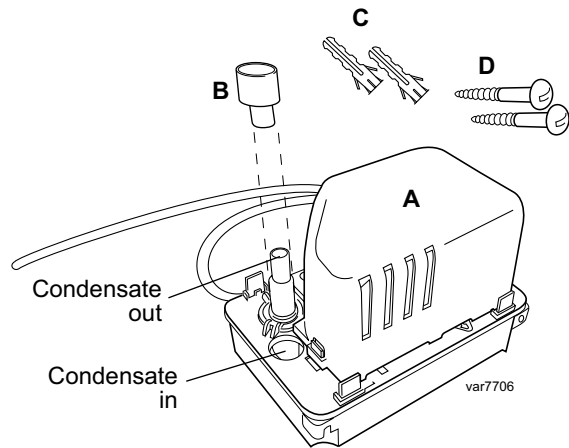
For the very latest copy of literature for specification and maintenance practices visit our website www.idealboilers.com where you can download the relevant information in PDF format.

This Condensate Pump is suitable for installation on the following boilers:

Classic HE9	G. C. No. 41-415-58	Logic + Combi 24	G. C. No. 47-348-65
Classic HE12	G. C. No. 41-415-59	Logic + Combi 30	G. C. No. 47-348-66
Classic HE15	G. C. No. 41-421-45	Logic + Combi 35	G. C. No. 47-348-67
Classic HE18	G. C. No. 41-421-46	Logic Heat 12	G.C. No. 41-399-99
Classic HE15P	G. C. No. 41-421-97	Logic Heat 15	G.C. No. 41-409-93
Classic HE18P	G. C. No. 41-421-98	Logic Heat 18	G.C. No. 41-409-94
Elise C24	G. C. No. 41 348 49	Logic Heat 24	G.C. No. 41-409-95
Elise C30	G. C. No. 47-348-50	Logic Heat 30	G.C. No. 41-409-96
Elise C35	G. C. No. 47-348-51	Logic + Heat 12	G.C. No. 41-409-97
Elise H15	G. C. No. 41-399-97	Logic + Heat 15	G.C. No. 41-409-98
Elise H24	G. C. No. 41-399-98	Logic + Heat 18	G.C. No. 41-409-99
evo HE C22/24	G.C. No. 47-348-32	Logic + Heat 24	G.C. No. 41-750-21
evo HE C22/30	G.C. No. 47-348-33	Logic + Heat 30	G.C. No. 41-750-22
evo HE C22/35	G.C. No. 47-348-34	Logic System 15	G.C. No. 41-750-24
evo HE H12	G.C. No. 41-397-96	Logic System 18	G.C. No. 41-750-25
evo HE H16	G.C. No. 41-397-86	Logic System 24	G.C. No. 41-750-26
evo HE H 19	G.C. No. 41-397-93	Logic System 30	G.C. No. 41-750-27
evo HE H22	G.C. No. 41-397-94	Logic + System 15	G.C. No. 41-750-29
excel HE C24	G.C. No. 47-348-35	Logic + System 18	G.C. No. 41-750-30
excel HE C28	G.C. No. 47-348-36	Logic + System 24	G.C. No. 41-750-31
excel HE C32	G.C. No. 47-348-37	Logic + System 30	G.C. No. 41-750-32
Esprit HE24	G.C. No. 47-348-46	mexico HE15	G. C. No. 41-429-39
Esprit HE30	G.C. No. 47-348-47	mexico HE18	G. C. No. 41-429-65
Esprit HE35	G.C. No. 47-348-48	mexico HE24	G. C. No. 41-429-98
icos HE12	G.C. No. 41-397-95	mexico HE30	G. C. No. 41-429-99
icos HE15	G.C. No. 41-397-83	mexico HE36	G. C. No. 41-415-20
icos HE18	G.C. No. 41-397-84	mini HE C24	G. C. No. 47-348-38
icos HE24	G.C. No. 41-397-85	mini HE C28	G. C. No. 47-348-39
icos HE30	G.C. No. 41-399-10	Optia HE9	G. C. No. 41-421-70
icos HE36	G.C. No. 41-399-16	Optia HE12	G. C. No. 41-421-71
icos system HE15	G.C. No. 41-421-99	Optia HE15	G. C. No. 41-421-72
icos system HE24	G.C. No. 41-397-82	Optia HE18	G. C. No. 41-421-96
isar HE24	G.C. No. 47-348-31	Project Heat 15	G.C. No. 41-750-57
isar HE30	G.C. No. 47-348-30	Project Heat 24	G.C. No. 41-750-58
isar HE35	G. C. No. 47-348-29	Project System 15	G.C. No. 41-750-59
istor HE260	G.C. No. 41-394-13	Project System 24	G.C. No. 41-750-60
istor HE325	G.C. No. 41-394-14	Zanussi Ultra Combi 30	G.C. No 47-002-01
Logic Combi 24	G. C. No. 47-348-56	Zanussi Ultra Combi 35	G.C. No 47-002-02
Logic Combi 30	G. C. No. 47-348-57	Zanussi Ultra System 15	G.C. No 41-002-01
Logic Combi 35	G. C. No. 47-348-58	Zanussi Ultra System 18	G.C. No 41-002-02
Logic Combi ES24	G.C. No. 47-349-01	Zanussi Ultra System 24	G.C. No 41-002-03
Logic Combi ES30	G.C. No. 47-349-02	Zanussi Ultra System 30	G.C. No 41-002-04
Logic Combi ES35	G.C. No. 47-349-03		
Logic Combi ESP24	G.C. No. 47-349-12		
Logic Combi ESP30	G.C. No. 47-349-13		
Logic Combi ESP35	G. C. No. 47-349-14		

1 PACK CONTENTS

- A Condensate Pump - 1 off
- B Pipe Adaptor - 1 off
- C Wall Plugs - 2 off
- D Wood Screws - 2 off



TECHNICAL INFORMATION

Maximum flow rate	440 litres/hour
Electrical supply.....	230V AC / 50-60 Hz 0.8amps
Alarm contact.....	NC 4 amps resistive
Overheat protection.....	130°C
Tank Capacity	0.5 Litres
Length.....	195mm
Width	130mm
Height	122mm
Maximum vertical head -	4.5m
Maximum horizontal length -	30m

INTRODUCTION

The condensate pump is designed to collect and remove condensate and can be used with the Ideal, optia and evo boiler high efficiency ranges listed above.

The condensate drain pipe from the boiler is connected into the pump using 21.5mm overflow pipe and collected in the sump. Once the sump capacity of 0.5 litres is achieved the pump operates to discharge the condensate via the outlet pipework to the discharge point.

The pump is fitted with 2 float switches which operate on the depth of condensate within the sump i.e. on reaching a depth of 24mm the first float switch operates to energise the pump to discharge the condensate and the pump shuts down when the level drops to 13mm.

Should a fault occur within the condensate outlet pipe, e.g. a blockage, the pump will shut off the boiler when the condensate level reaches 30mm in the sump, via the second float switch (provided the alarm wiring has been connected to the boiler terminal strip - see wiring information).

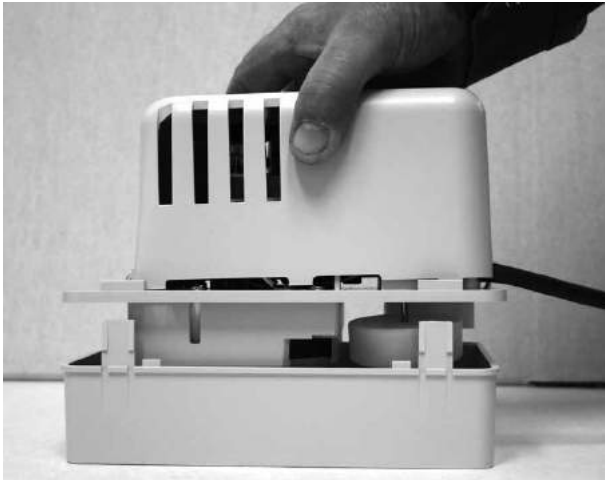
NOTE TO THE INSTALLER: LEAVE THESE INSTRUCTIONS ADJACENT TO THE GAS METER

2 INSTALLING THE PUMP

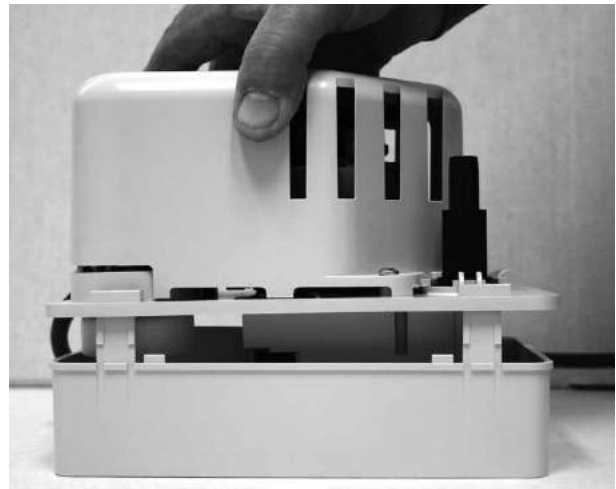
For Mexico HE range refer to the boiler installation instructions.

To ease installation, the tank on the pump is reversible i.e. this can be fitted to accept the condensate drain pipework from the boiler to either the left or right hand side.

Condensate Inlet on left



Condensate Inlet on right



1. Consideration should also be taken of the siting of the pump to prevent noise emissions and vibrations.
2. To ensure sufficient ventilation to the motor the area around the pump should be left unobstructed.
3. The pump should not be installed where ambient temperatures may fall below freezing or in areas of a very high humidity. The pump must be fitted in a dry area and away from where it could be splashed with water. (The IP rating of the pump is **IP20**).
4. The pump must be installed horizontally where the condensate drain pipe from the boiler can enter into the 'condensate in' collection point on the pump, using 21.5mm plastic overflow pipe.

As the condensate from the boiler is gravity fed into the condensate pump kit it is essential the pump is sited lower than the boiler.
5. If required, the pump kit can be wall mounted as follows:

- a. Mark two holes to suit wall plugs provided 176.5mm horizontally apart to coincide with location mounting lugs provided on side of condensate pump unit. Ensure adequate clearance for pump body and connecting pipework around mounting location chosen before drilling holes. Drill holes accordingly.
 - b. Insert wall plugs and screws, leaving 3mm protruding on the screws.
 - c. Mount pump onto screws using the fixed slot holes on the casing. See Frame 3.
6. The pump discharge connection should be made using the pipe adaptor supplied in the kit, which is a push-fit on to the check valve, and allows standard 21.5mm plastic overflow pipe to be used up to the final discharge point. (*See condensate pipe termination configurations*)
 7. Wiring of the pump should be made following the relevant wiring diagram see Frames 7 and 8.

3 OPERATING THE PUMP

Before operating the pump, the float protection strip should be pulled out to free off the float switch.

To check operation pour water into the sump until the pump operates (first float switch makes contacts) and then stops once the level of the water falls.

It is possible to check the alarm contacts by continuing to pour water into the sump, until the second float switch lifts and breaks the contacts to the alarm wiring thus switching off the power supply to the boiler. Check switch operation with a suitable electrical test meter.



Pour in water

Fixed Slot holes

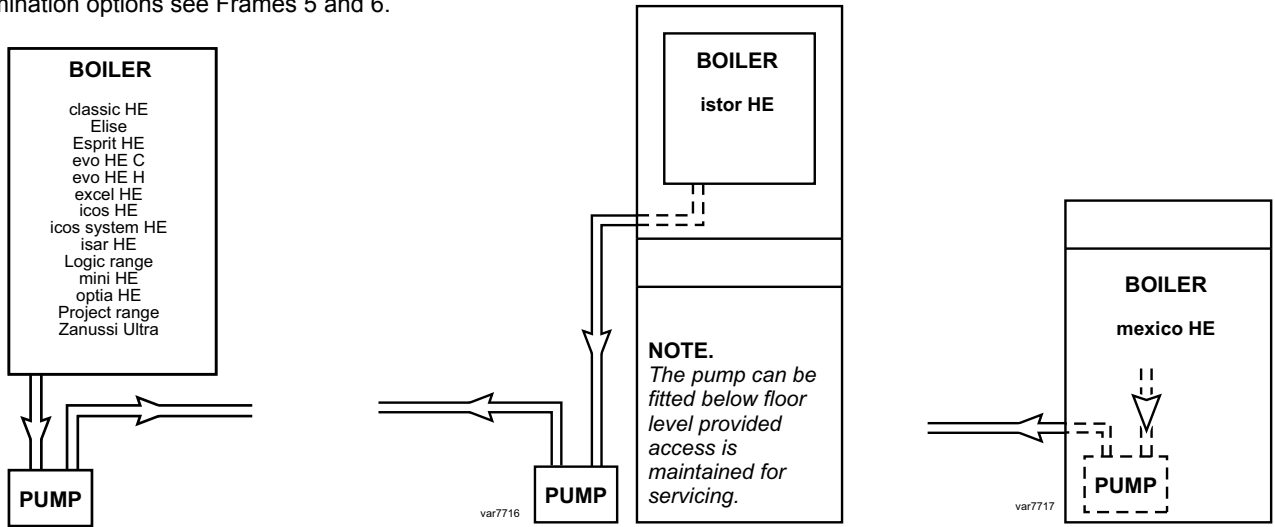
Float protection strip

4 CONDENSATE RUNS

NOTE.

As the condensate from the boiler is gravity fed into the condensate pump it is essential that the pump is sited lower than the boiler.

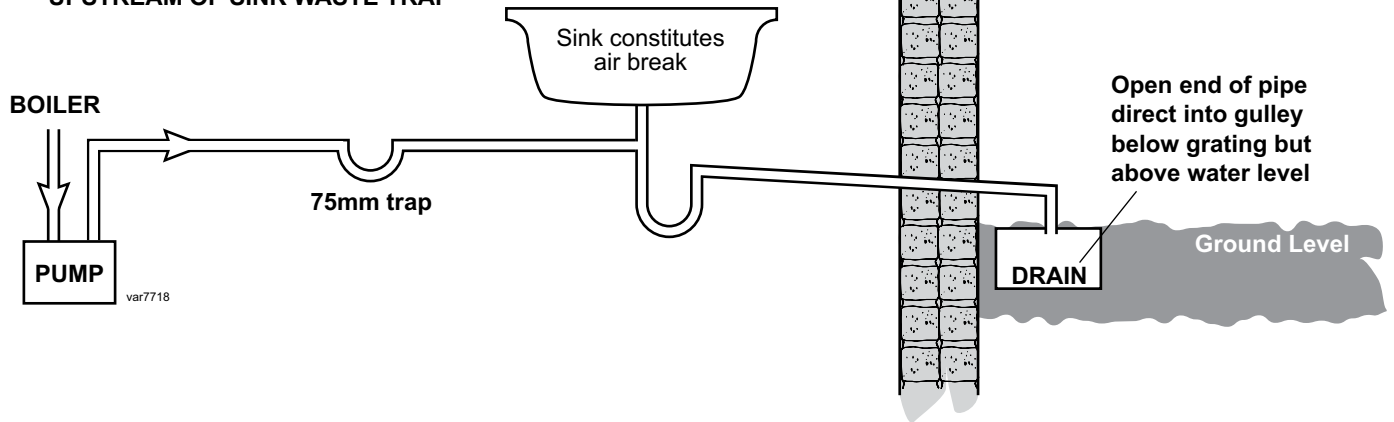
For termination options see Frames 5 and 6.



5 CONDENSATE PIPE TERMINATION CONFIGURATIONS

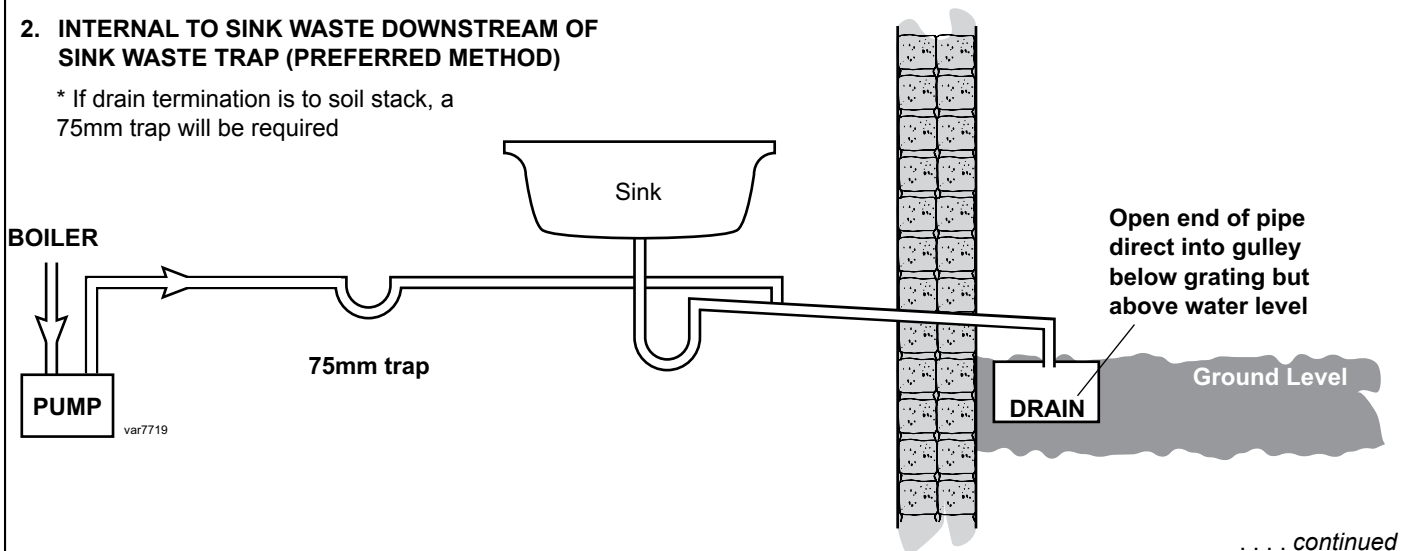
Note. ALL EXTERNAL PIPE RUNS MUST BE INSULATED

1. INTERNAL TO SINK WASTE UPSTREAM OF SINK WASTE TRAP



2. INTERNAL TO SINK WASTE DOWNSTREAM OF SINK WASTE TRAP (PREFERRED METHOD)

* If drain termination is to soil stack, a 75mm trap will be required

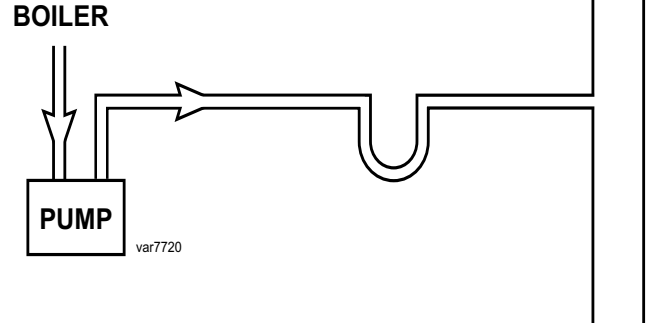


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6 CONDENSATE PIPE TERMINATION CONFIGURATIONS . . . continued

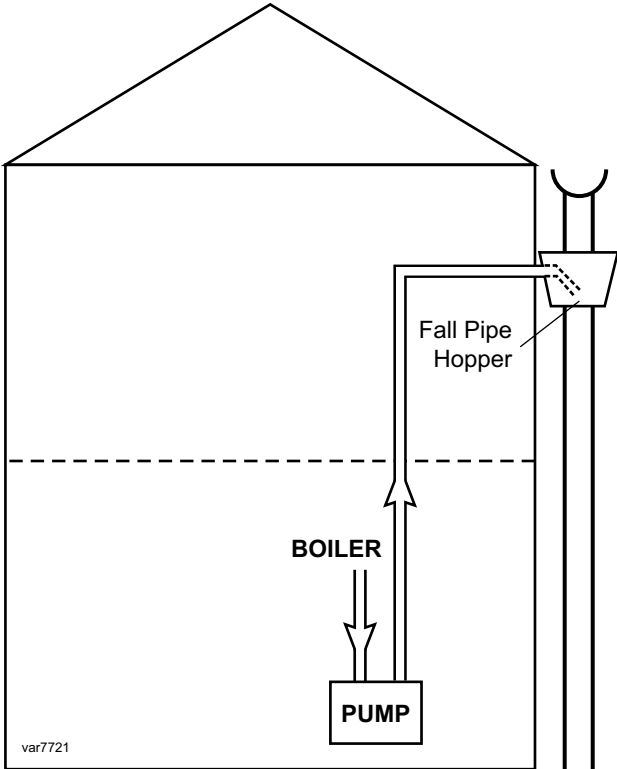
3. INTERNAL CONNECTION TO SOIL AND VENT STACK

* Make connection to soil and vent pipe using a solvent welded saddle

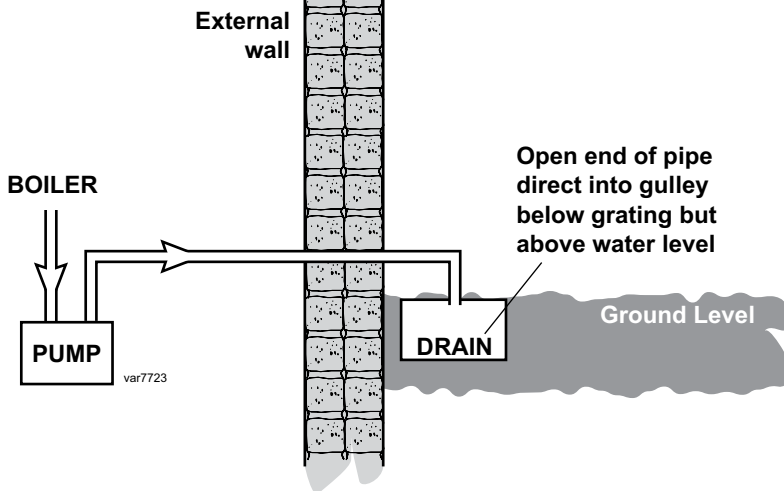
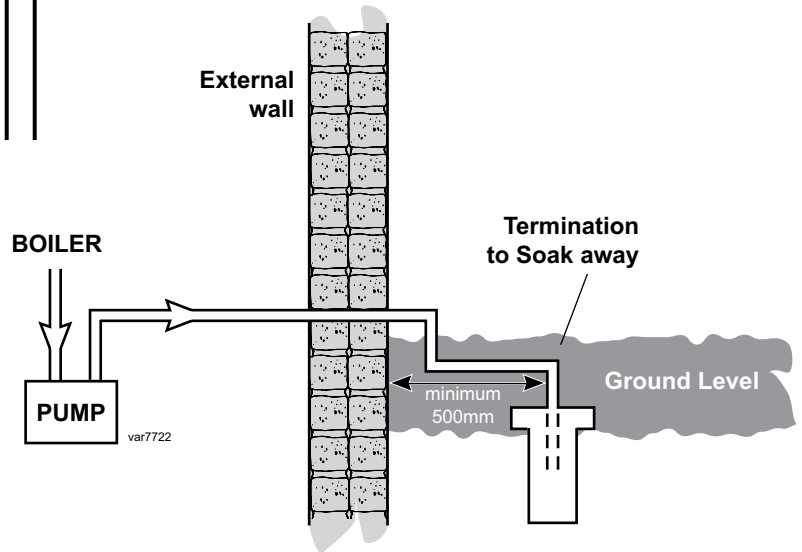


4. TERMINATION INTO FALL PIPE HOPPER

* Condensate pipe must terminate in the hopper - IT MUST NOT be connected into the fall pipe



5. TERMINATION TO SOAK AWAY

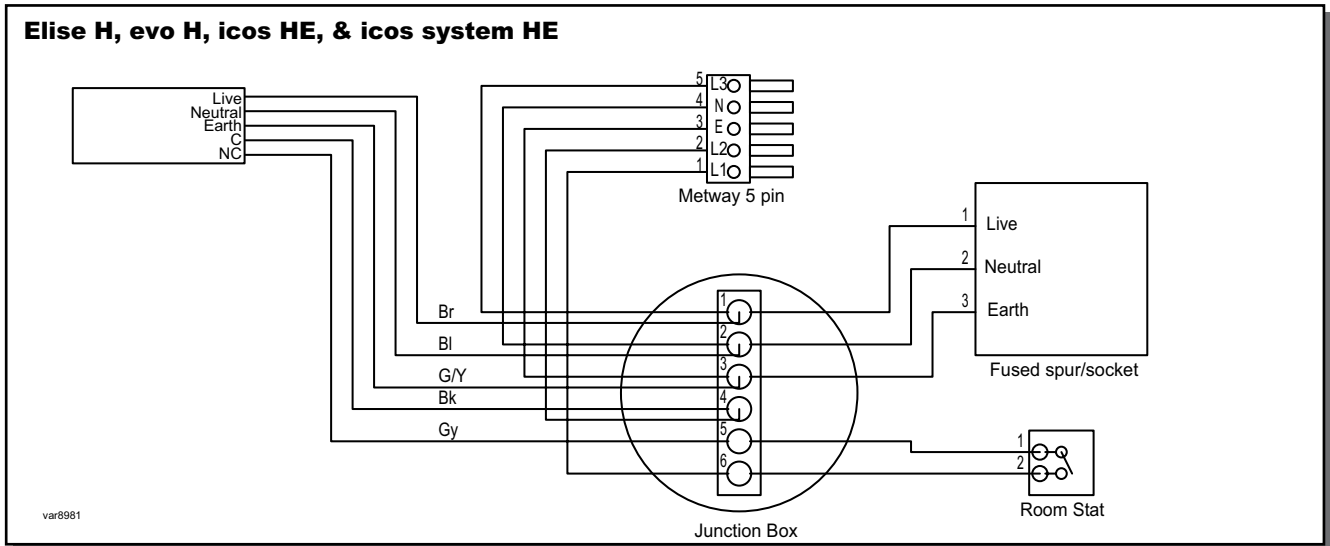
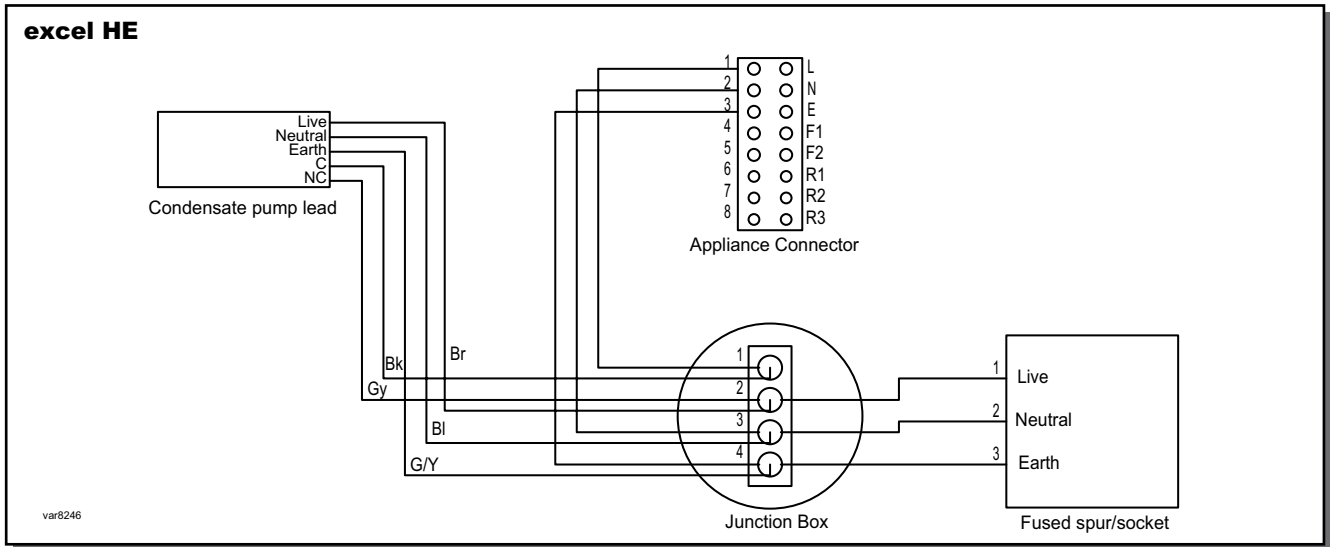
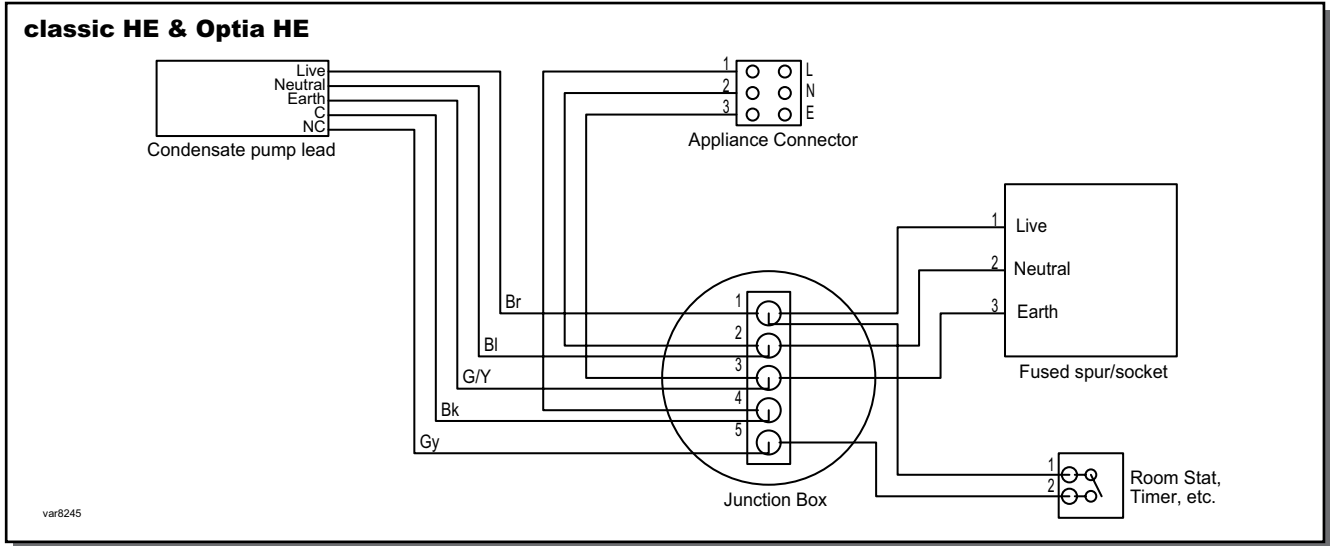


6. TERMINATION TO DRAIN / GULLEY

7 WIRING

Note.

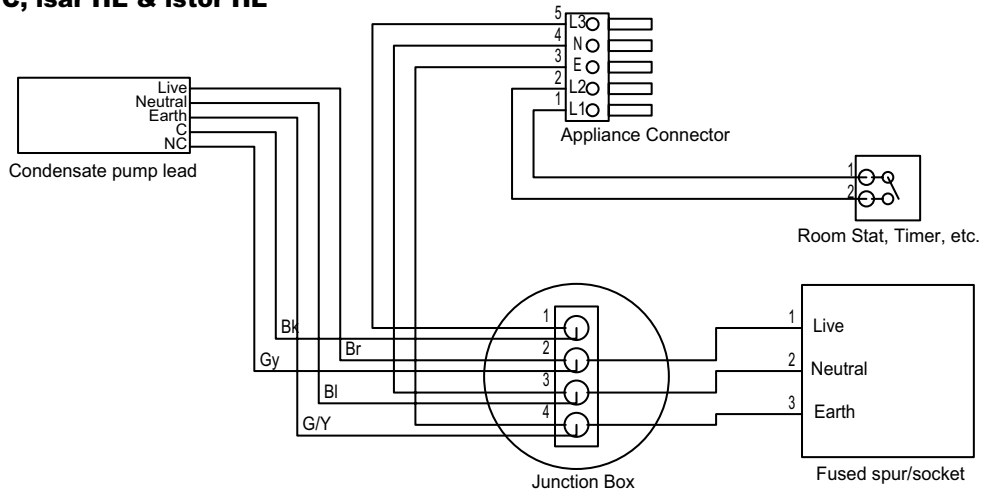
1. The wiring for the alarm contacts **MUST** be used.
2. **For mexico HE range refer to boiler installation instructions.**
3. Wiring diagrams provided depict the additional wiring needed for the inclusion of the condensate pump. This scheme may be incorporated into the existing wiring centre junction box, fused spur etc. incorporated in the heating system as appropriate.



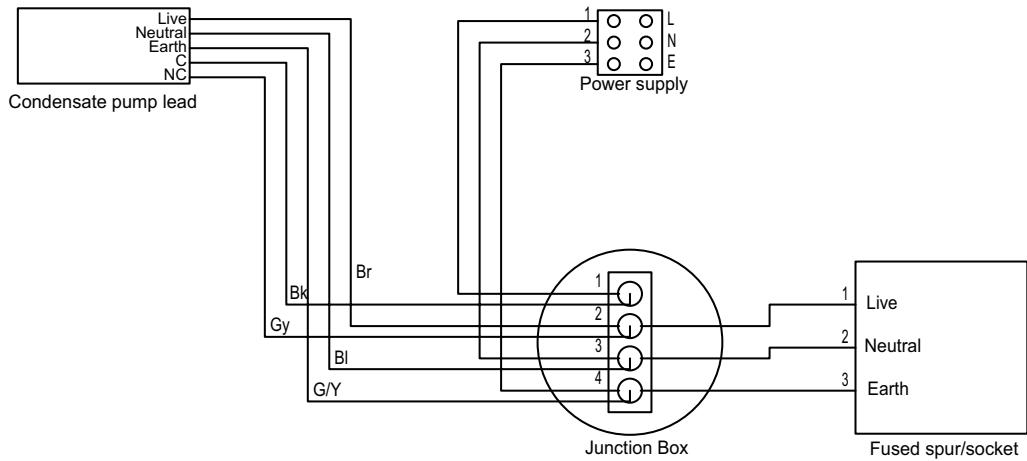
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8 WIRING continued

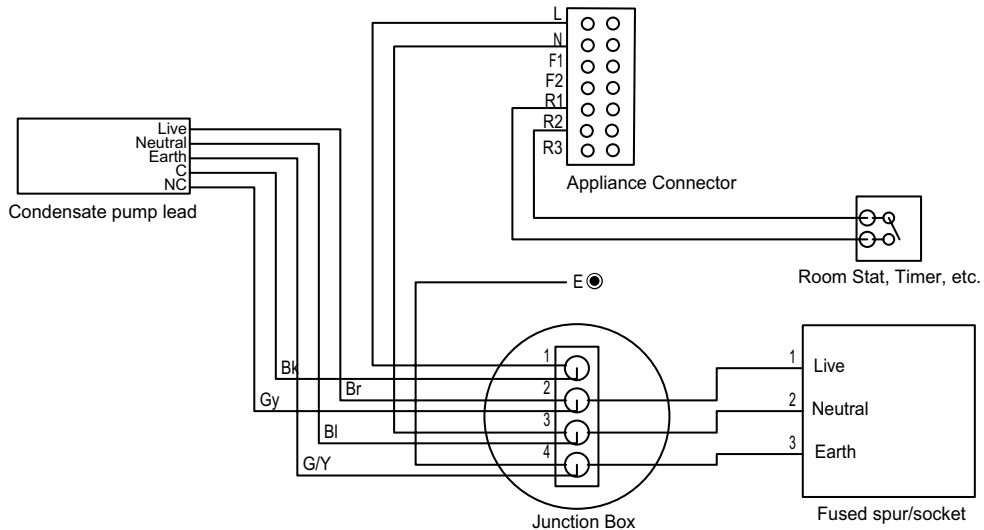
Elise C, evo C, isar HE & istor HE



mini HE

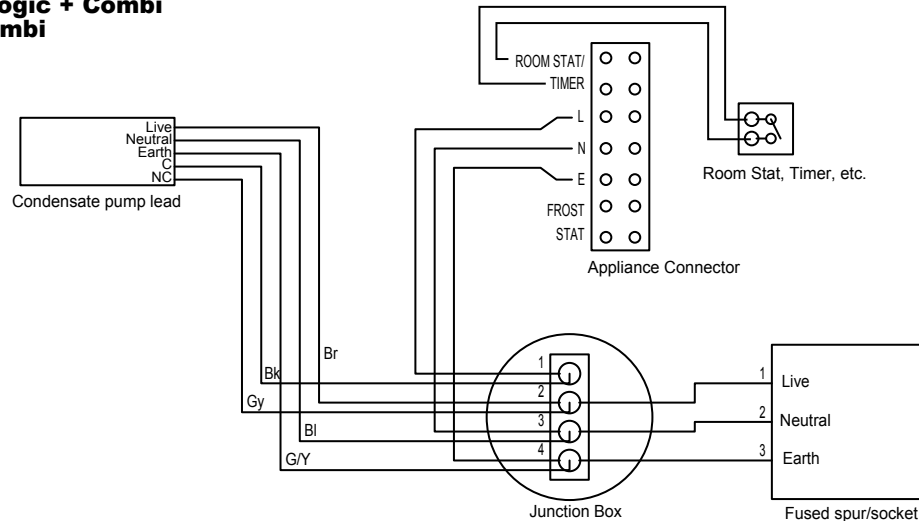


ESPRIT HE

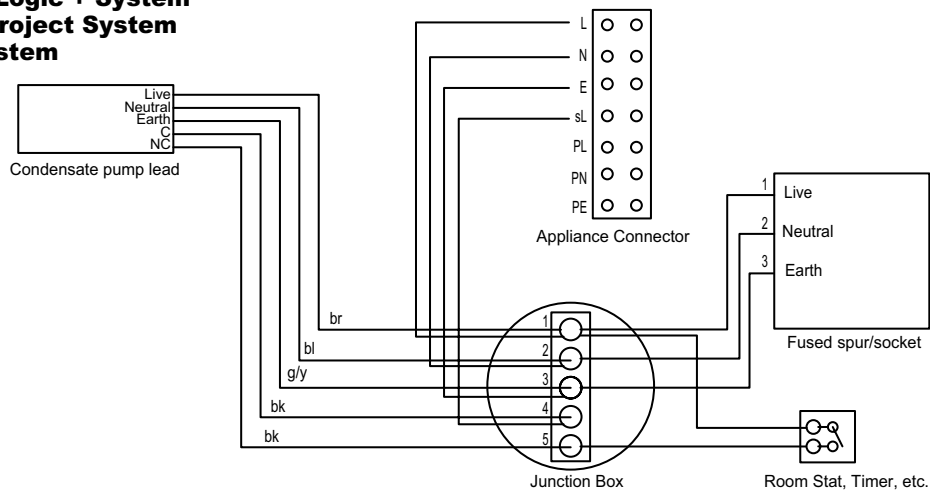


9 WIRING continued

Logic Combi & Logic + Combi Zanussi Ultra Combi



Logic Heat & Logic + Heat Logic System & Logic + System Project Heat & Project System Zanussi Ultra System

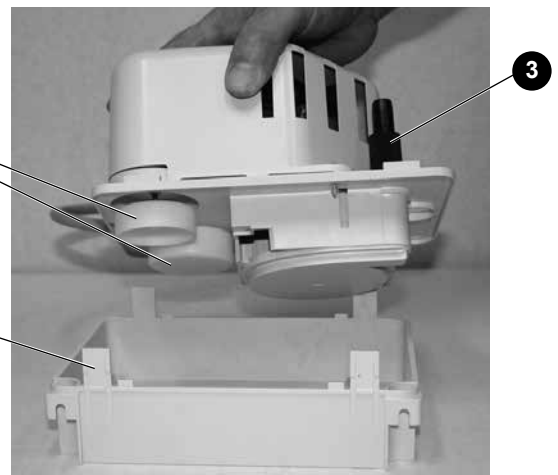


10 MAINTENANCE AND SERVICING

The inside of the pump kit should be cleaned regularly at every annual service of the appliance.

Note. Before any maintenance the pump must be isolated from the power supply. When disconnecting the inlet and outlet pipe work from the pump make provision to capture any condensate which may be still contained within the pipe work

1. Remove the reservoir by disengaging the four plastic retaining pegs and lift the pump off. Clean the reservoir as necessary.
2. Ensure the floats remain clean and free to move.
3. Turn the check valve anti-clockwise to unlock then remove and clean.
4. Re-assemble in reverse order.
5. Re-establish power supply and carry out checks, see Frame 2.



Technical Training

The Ideal Technical Training Centre offers a series of first class training courses for domestic, commercial and industrial heating installers, engineers and system specifiers. For details of courses please ring: 01482 498 432

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