

PRODUCT BULLETIN      AD/119

TITLE                              Hotun Combined PRV and Condensate Drain

DATE                              10/3/17

### Use of Hotun Hiflo Tundish With Ideal Condensing Boilers

Since the last update to BS6798 it has been possible to combine the condensate and PRV connections providing the guidance is adhered to. Hotun have released for sale a Hiflo tundish that will allow for this configuration in the field. This means it is possible to combine the PRV discharge and condensate drain pipes on Ideal condensing boilers providing the guidance is followed:

The hotun hiflo® tundish is manufactured by RA Tech UK Ltd. The guidance provided by Hotun must be adhered to <http://hotun.co.uk>

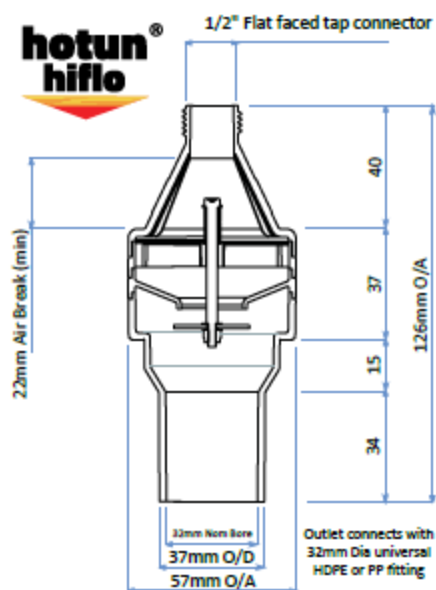
- For boiler installations (only) and where the tundish is mounted in an accessible location, **hotun shield** has been designed to provide a safe and visible solution
  - It will prevent the end user from accidentally placing their finger in the flow of potentially scalding hot water being discharged from the PRV
  - Ideal Boilers would always recommend that the hotun® shield is used in conjunction with the hotun hiflo® Tundish on boiler installations
- The hotun® tundish can also be used for providing a visual indicator which will allow connection of a PRV directly into internal waste pipes or soil stacks
- Discharge pipework must be 32mm downstream of the hotun® tundish and be installed in line with the guidance provided within the boiler installation instructions with respect to discharge positioning
- All downstream pipework (including the soil stack) shall be capable of withstanding short term high limit temperatures expected to be discharged from the PRV. It is for this reason that RA Tech UK Ltd recommend that only temperature rated waste and soil pipe fittings and pipework are used; for instance HDPE or polypropylene
- All installations connecting a sealed system's PRV to drain, must be carried out by a competent person and meet the water and building regulations. Failure to do so can lead to enforcement action by the regulators and remedial work carried out at the expense of the end user or building occupier
- Any work carried out on a gas appliance must be done by a person who is duly registered to carry out such work and must be carrying his/her Gas Safe registration card which must be current
- For single pipe boiler PRV and condensate solutions the condensate should be connected below the tundish. In this instance, under NO circumstances should any of the discharge pipe be run in copper tube due to the non-compatible nature of the condensate

Further detailed guidance, specification & installation instructions can be found on the hotun® website.

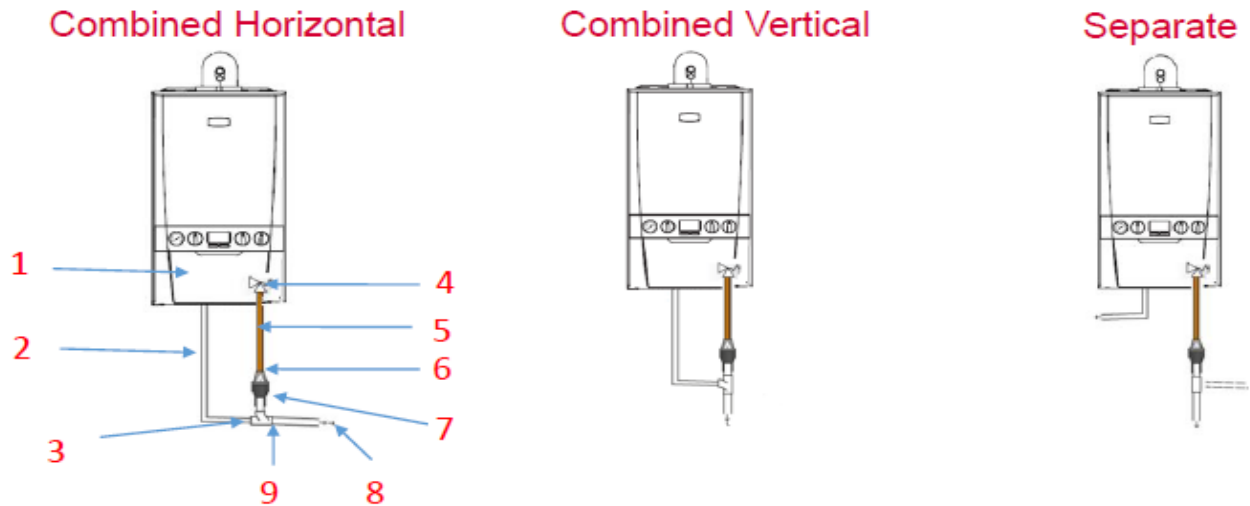


## Installation

- The tundish must be mounted in a vertical section of pipework as close as possible to the pressure relief valve, with no more than 600mm of pipework between the valve outlet and the connection to the tundish
- Any discharge should be visible at the tundish
- The discharge pipe from the tundish should have a vertical section of pipe of at least 100mm long before any elbows or bends and should be made from a material that can be demonstrated to withstand the expected temperatures of the water discharged
- The condensate must connect below the tundish with all pipework designed to withstand the effects of condensate (generally 21mm plastic pipe)
- The use of standard push fit and solvent weld is generally not allowed for connections to PRV's due to the temperatures normally expected. If push fit or solvent weld waste pipework is used as a discharge pipe, then the installer **MUST** be able to demonstrate, if it comes under scrutiny to the local council building control officer, that the installation is compliant. For this reason, **RA Tech UK. Ltd** recommend the universal adoption of only using **HDPE or PP waste pipework**



## Hotun Hiflo Options with Ideal Condensing Boilers



1. Internal boiler condensate trap
2. 22.5mm condensate pipe (must always Tee in below tundish outlet)
3. 32 - 22mm rubber reducer
4. Boiler pressure relief valve PRV
5. 15mm Copper PRV discharge pipe
6. hotun shield
7. hotun hiflo (max 600mm from boiler)
8. 32mm HDPE/PP waste pipe
9. 32mm universal HDPE/PP waste T fitting (Min 100mm vertical pipe before Tee from Tundish outlet)

END