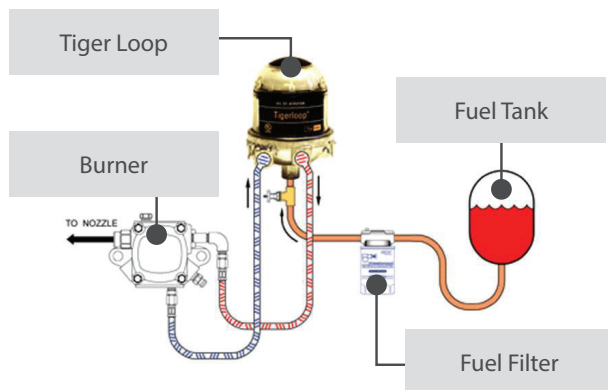


TigerLoop

The TigerLoop is a lifting and deaerating device that improves performance and provides convenience to diesel (oil) boiler installations.

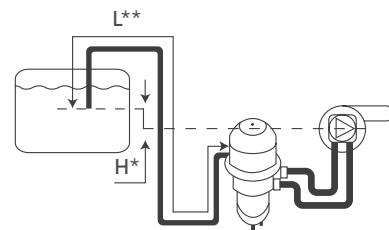
The Riello Burners in the Firebird diesel boilers have suction from the fuel pump, and the boiler is often installed with a single fuel line from the fuel tank to the burner (incorporating a filter and fire stop valve). However if there is a height difference between the tank and the boiler (the tank being lower) or a long distance between the tank and the boiler, a TigerLoop is used. The TigerLoop is able to draw the fuel a certain distance in vertical height and at the same time it provides deaeration for better fuel combustion. It also enables convenient bleeding should the fuel tank ever run dry.



The TigerLoop is installed on the side of the boiler and still has a single fuel line from the fuel tank. This fuel line incorporates a filter and fire stop valve. From the TigerLoop to the boiler's burner, there are two fuel lines which create the "loop". The TigerLoop works by the pump in the burner creating suction to the TigerLoop. This suction spins the internal disc in the TigerLoop which in turn creates suction on the fuel line to the fuel tank. The second fuel line from the the boiler's burner to the TigerLoop is the return line for relieving the pressure of the fuel delivered to the burner.

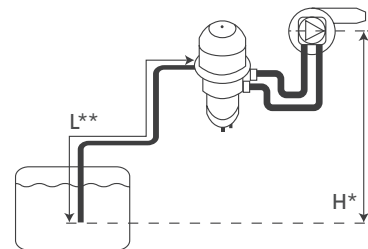
TigerLoop Fuel Pipe Sizing Tables

Tank above burner



| Height in metres* | Maximum pipe length in metres (L)** | | | | | | |
|------------------------|-------------------------------------|-----------|--------------------|-----------|-----------|--------------------|-----------|
| | Inner 4mm | Inner 5mm | Inner 4mm | Inner 5mm | Inner 6mm | Inner 5mm | Inner 6mm |
| +4.0 | 100 | 100 | 51 | 100 | 100 | 62 | 100 |
| +3.5 | 95 | 100 | 47 | 100 | 100 | 58 | 100 |
| +3.0 | 89 | 100 | 44 | 100 | 100 | 54 | 100 |
| +2.5 | 83 | 100 | 41 | 100 | 100 | 51 | 100 |
| +2.0 | 77 | 100 | 38 | 94 | 100 | 47 | 97 |
| +1.5 | 71 | 100 | 35 | 86 | 100 | 43 | 90 |
| +1.0 | 64 | 100 | 32 | 79 | 100 | 39 | 82 |
| +0.5 | 58 | 100 | 29 | 71 | 100 | 35 | 74 |
| Burner Flow/ Boiler kW | 2.5kg/h up to 26kW | | 5.0kg/h up to 44kW | | | 10kg/h up to 100kW | |

Tank below burner



| Height in metres* | Maximum pipe length in metres (L)** | | | | | | |
|------------------------|-------------------------------------|-----------|--------------------|-----------|-----------|--------------------|-----------|
| | Inner 4mm | Inner 5mm | Inner 4mm | Inner 5mm | Inner 6mm | Inner 5mm | Inner 6mm |
| 0.0 | 52 | 100 | 26 | 63 | 100 | 32 | 66 |
| -0.5 | 46 | 100 | 23 | 56 | 100 | 28 | 58 |
| -1.0 | 40 | 97 | 20 | 48 | 100 | 24 | 50 |
| -1.5 | 33 | 81 | 17 | 41 | 84 | 20 | 42 |
| -2.0 | 27 | 66 | 14 | 33 | 69 | 17 | 34 |
| -2.5 | 21 | 51 | 10 | 26 | 53 | 13 | 27 |
| -3.0 | 15 | 36 | 7 | 18 | 37 | 9 | 19 |
| -3.5 | 9 | 21 | 4 | 11 | 22 | 5 | 11 |
| -4.0 | 2 | 6 | 1 | 3 | 6 | 1 | 3 |
| Burner Flow/ Boiler kW | 2.5kg/h up to 26kW | | 5.0kg/h up to 44kW | | | 10kg/h up to 100kW | |