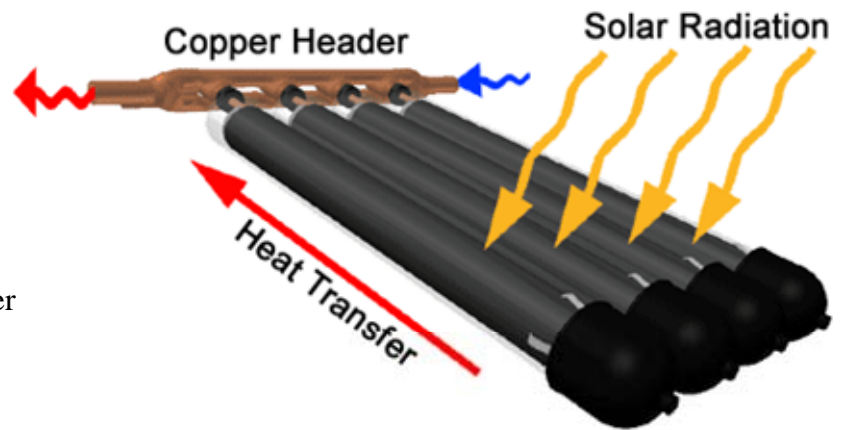


Enhanced Pressure Type Evacuated-Tube Solar Collector PT-102

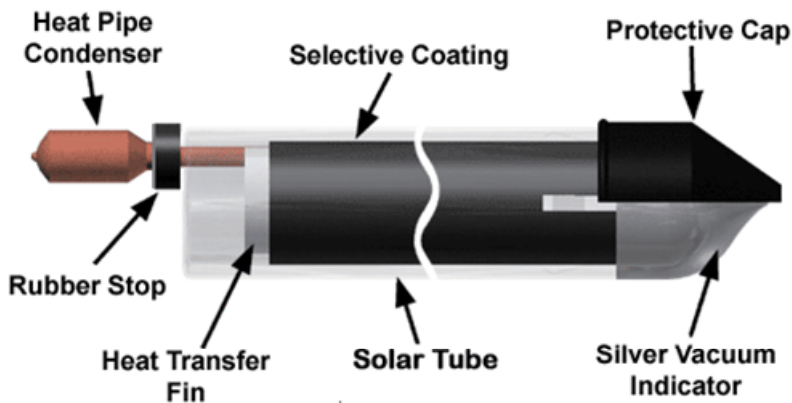
Key Features

1. Joint British-European design
2. Reliable, efficient, twin-glass solar tubes
3. Copper heat pipes for rapid heat transfer
4. Easy plug-in installation
5. Maintenance Free
6. Suitable for mains pressure water (up to 8 bar/116psi)
7. Corrosion resistant silver brazed copper header
8. All stainless steel frame
9. Powder coated (black, brown or silver) aluminium casing
10. Stable solar conversion throughout the day (tubes passively track the sun)
11. The perfect solar collector for domestic solar water heater systems
12. Ideal for commercial solar water heating applications



Solar Tubes & Heat Pipes

The heat pipe, heat transfer fin and solar tube shown above form the heat absorption and transfer portion of the solar collector. Unlike some other solar tube heat pipe designs, RPT evacuated solar tubes and heat pipes are not joined or fused together. This allows the two components to move independently, allowing for building movement and the expansion and contractions that occurs daily in a solar system.



How It Works

The operation of the RPT advance pressure type PT-102 solar collector is quite simple as heat exchanger.

Solar Absorption: Solar radiation is absorbed by the solar tubes and converted into heat.

Solar Heat Transfer: Heat pipes conduct the heat from within the solar tube up to the header pipe.

Solar Energy Storage: Water is circulated through the header, via intermittent pump cycling. Each time the water circulates through the header the temperatures is raised by 5-10 C / 9-18 F. Throughout the day, the water in the storage tank is gradually heated.

