

# Solar Thermal Water Heater



## HF-20Z ■ Pressure Type up to 6 BAR

20 Tubes / 120 Litres / Stainless Steel / B.S. Compiled

Evacuated-Tube Collector Solar ■ Copyrighted # 851001424

HF-20Z is one of the Evacuated-Tube Technology family product, it's a true solar heating advancement, highly desirable by the great majority of people. It is 100% safe, inexpensive, durable and cost effective. It fits in all environmental consciousness and can benefit for about 4 users (average) for hot water shower bath.

HF-20Z is applying the REAL and patented products with copyrighted # 851001424<sup>R</sup>. These collectors are more efficient than old flat-plate collectors in both direct and diffuse solar radiation, warm keeping period up to 48 hours, higher solar heat exchange ration, more than 50% of space savings, achive higher temperature, particularly useful in areas with cold even



cloudy winter. The evacuated-tubes can be added or removed while services. Old generation products must work with electric Heater in Total Solution, while RPT 21st Century "Evacuated-Tube Solar Products" can work alone with SUNLIGHT in most days per annual (above 300 days per year).

HF-20Z will make the water temperature up to 50°C – 90°C in summer and up to 40°C – 55°C in winter, while normal street water is about 15 to 25°C, cold resistant –18°C; hailstone resistant in 2.5cm diameter. The design life cycle of the evacuated- tube is above 15 years. General domestic solar heater will provide more than 70% of your household hot water usage, high efficient and cost effective.

The storage tank of the radiator is made by Stainless Steel plate, processed by TIG, to hold the high water temperature until the next day even in cold winter. It can keep the water pure and the life time of the storage tank for more than 15 years.

**Resources & Protection Technology Limited** (named RPT) start the R&D for Renewable / Solar Heater since the year 1996, providing full one-year warranty include parts. Local Technical support via Hotline (852) 3428 8820 and email to info@rpt.com.hk and ONE-stop-SHOP services.

### Specifications :

- Solar tube "length 1.2M" x 20 pcs
- "Stainless Steel Tank" Capacity 120 litres
- Outer diameter 47mm / Borosilicata glass 3.3
- Solar absorbance >93%
- Emittance <6% (100°C)
- Pressure in the evacuated tubes  $P < 5 \times 10^{-3} \text{Pa}$
- Air temperature in the tube exposed to the sun 250°C
- Average coefficient of heat losses 0.6 – 0.9 W/M<sup>2</sup>°C
- Total efficiency above 50% (heat light exchange ratio)
- Product life 15 years

### Dimention :

Width	Depth	Height
1450mm	1150mm	1270mm

[HTTP :// www.rpt.com.hk](http://www.rpt.com.hk)

PRODUCT FOR 2005

Hotline : 3428 8820