



DRAIN UNIT

The Drain Unit is a solar pump group with drain-back system. It can be installed with practically any brand of collectors on the market as well as with any accumulator/inter-accumulator.

By draining the solar collectors, overheating and freezing problems in the panels will be avoided. As with hydraulic units without drain-back, the main function of the Drain Unit is to pump the solar fluid from the collectors to the accumulator in order to transfer the collected energy.

COMPONENTS

- 1. Solar pump
- 2. Circuit draining and filling valve
- 3. Filling taps
- 4. Air draining chamber
- 5. Pressure gauge
- 6. Safety valve set to 3bar
- 7. Flow meter and level indication
- 8. Expanded Polypropylene (EPP) insulating housing
- 9. Solar controller (in systems with control included)

HYDRAULIC CHARACTERISTICS

Pump:

Wilo Yonos Para ST15/13 WM









TECHNICAL SHEET



TECHNICAL CHARACTERISTICS

- Max. operating temperature: 110°C .
- Max. peak temperature: 130°C
- Safety valve set to 3 bar
- Flow indicator range: 2 to 12l/min
- Connections: 1/2"M or 15mm copper piping
- Controller parameters regulation:
 - Activation temperature difference between collectors and storage tank: 15°C
 - Max. permissible temperature in the collector field: 130°C
 - Pump speed lower limit (PWMmin): 60% or higher
 - Set filling time (PWM at 100%): min. 5 minutes

ADVANTAGES

- High efficiency pumps •
- Installation protected against freezing and overheating
- Can be installed with any storage tank and control unit in the market
- Flexible and configurable system
- Air vent and expansion vessels not needed



REFERENCE: 74400 Separation volume = 8 litres





REFERENCE: 74400DO Separation volume = 16 litres



REFERENCE: V-00625

- · Extension kit tank for Drain Unit.
- Separation volumen increase: 8 to 16 litres

The total separation volume of the Drain Unit is 8 or 16 litres. The volume of the primary fluid that remains above the Drain-Unit should not exceed this capacity. Bear in mind the difference in height between the top of the collector array and the bottom part of the Drain-Unit.

Volume calculation on the upper part:









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