The DS 503-507 are single bed desiccant dryers with airflow of up to 80 m³/h and dew point as low as -35°C. They have a very compact design and ensure efficient drying for all hygroscopic and engineering polymers.
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The process air temperature is controlled by a micro processor panel up to 160°C. All significant working parameters as well as functioning modalities, can be set from the same micro processor control panel. The display shows the working temperature, the set point and any alarm messages.

A safety temperature control, complete with independent contactor and temperature probe is also available as a standard feature. The operator can enter the difference between the temperature of set point and the safety temperature, that is then kept over the whole working temperature range.

All models can be equipped with serial interface port for connection to a supervisory system.

The HT version of the DS 503 - DS 507 dryers with external heating chamber, which can operate up to 200°C, is also available on request.

The DS 503 - DS 507 dryers can be coupled with hoppers having capacities of up to 200dm³. The drying hopper can be installed on the processing machine or placed on a mobile trolley.

Piovan also supplies extremely compact mobile drying systems with multiple hopper set-up.

**Dehumidifying Dryers**

**DS 503 - DS 507**

**Characteristics**

- Highly efficient desiccant material
- High capacity and pressure blowers
- Safety devices in compliance with European standards
- Process air flow regulation valve
- Large capacity filters
- Micro processor control panel with functions and operating mode display
- Serial Interface port (optional)

**Hoppers**

- All drying hoppers are wholly manufactured out of stainless steel, so to prevent any contamination or corrosion.
- Insulated and wrapped with an aluminium heat shield
- Integral insulation with thickness of 60mm
- Insulated - insulated - designed for regular material descent
- Lid with mounting flange for hopper loader
Dehumidifying Dryers DS 503 - DS 507

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- Hinged - insulated
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DS 503 - DS 507

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**Technical Data DS 503**
- **Power of process blower**: 0.1 kW
- **Heating power**: 2 kW
- **Regeneration power**: 2 kW
- **Total installed power**: 2.1 kW
- **Voltage and frequency**: 230/1/50-60 V/-/Hz
- **Max. process temperature**: 160 (200*) °C
- **Average consumption at 80°C**: 0.75 kWh
- **Dimensions (LxWxH)**: 250x550x870 mm
- **Weight**: 43 kg

**Technical Data DS 507**
- **Power of process blower**: 0.2 kW
- **Heating power**: 3 kW
- **Regeneration power**: 3 kW
- **Total installed power**: 3.2 kW
- **Voltage and frequency**: 230/1/50-60 V/-/Hz
- **Max. process temperature**: 160 (200*) °C
- **Average consumption at 80°C**: 0.95 kWh
- **Dimensions (LxWxH)**: 250x550x870 mm
- **Weight**: 48 kg

**Model Capacity**
- **T 10**: 10 dm³
- **T 30**: 30 dm³
- **T 50**: 50 dm³
- **T 75**: 75 dm³
- **T 100**: 100 dm³
- **T 150**: 150 dm³
- **T 200**: 200 dm³

**Dimensions (øA x H)**
- **T 10**: 32 x 750 mm
- **T 30**: 45 x 750 mm
- **T 50**: 75 x 1000 mm
- **T 75**: 75 x 1380 mm
- **T 100**: 100 x 1380 mm
- **T 150**: 150 x 1380 mm
- **T 200**: 200 x 1588 mm

**Weight**
- **T 10**: 9 kg
- **T 30**: 17 kg
- **T 50**: 27 kg
- **T 75**: 40 kg
- **T 100**: 48 kg
- **T 150**: 58 kg
- **T 200**: 96 kg
**Technical Data DS 503**

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