

# EANI00001

## VARIABLE SPEED DISPERSE



## Product Description

The XHF-DY high-speed disperser is suitable for various laboratories, including those in medicine, bioengineering, cell research, food industry, and cosmetic manufacturing. It effectively homogenizes and mixes tissues from both animals and plants. At different speeds, it can disrupt various cell membranes. The device facilitates efficient dispersion, emulsification, and extraction between immiscible liquid phases. High-speed dispersion significantly reduces sample processing time, thereby enhancing work efficiency. At its lowest speed, the device functions as a mixer.

## Operational Principle

The XHF-DY high-speed disperser operates through electronic speed control to drive a miniature high-speed motor, which drives the inner and outer plum blossom-shaped crushing blades. With its fixed stator and rotor configuration, the high-speed rotation of the internal cutting blades enables uniform suspension, emulsification, and fragmentation of various materials.

## Product Features

-  **Flexible parameters** Speed range: 2800–28,000 r/min; stepless speed adjustment; supports online speed control;
-  **The structure is flexible and simple** The distance between the tool and the workbench can be adjusted arbitrarily for better sample contact;
-  **Parameter Memory Function** Parameter settings are automatically remembered and can be quickly retrieved for easy viewing and modification.



## Application Area

-  Medication
-  Biotechnology
-  Chemical
-  Materials

**Tissue Homogenate** Pounding, homogenizing, and mixing of various plants and animals.

**Cell Disruption** Purify cells from different organisms.

**Dispersed emulsion** High-efficiency dispersion and emulsification between immiscible liquids; extraction of trace organic compounds, lipid-soluble substances, organic solvents, and soluble materials from water.

## Technical Parameters

|                       |                        |
|-----------------------|------------------------|
| <b>Voltage</b>        | 220V                   |
| <b>Power</b>          | 360W                   |
| <b>Speed range</b>    | 2800-28000r/min        |
| <b>Volume</b>         | 3ml-2000ml             |
| <b>Time range</b>     | 1-9.9min               |
| <b>Temperature</b>    | -10°C-40°C             |
| <b>Tool dimension</b> | Φ18mm,50-1000ml;       |
|                       | Φ10mm,3-200ml;         |
|                       | Φ14mm,50-500ml;        |
|                       | Φ25mm,100-2000ml       |
| <b>Display mode</b>   | Liquid-crystal display |
| <b>Dimension</b>      | 330×235×522mm          |
| <b>Net weight</b>     | 8kg                    |