

## Infrared Hot Plate / Stirrer Attractive design for demanding heating & mixing

WH280-AH / WH280-NH / WH280-H / WH280-R / WH280-RL

The WIGGENS new hotplate stirrer enjoys the benefits of ceramic glass top plate, such as chemical resistance, a high surface quality, and a resistance to temperature shocks of more than 700°C, providing the users with optimal solution compared to conventional heating surface materials. The high infrared permeability ensures that the heating energy is transferred quickly and with very limited loss. i.e. it heats liquids fast and thus saves time and energy. PID control enables good temperature stability. If the Pt-100 sensor is connected, temperature-controlled work with stability of ± 1°C can be reached in most applications.

All functions can be viewed and monitored on a large and clear LCD display, including most frequently used parameters like working temperature, stirring speed, working time, and safety temperature etc.

- > Memory function for stirring speed and temperature setting, convenient for experiments with fixed conditions.
- > Liquid drainage above the control board to prevent liquids from accessing the touching board and the electronics.
- > Direct connection for Pt100 temperature sensor for convenient solution temperature control.
- > Sealed outer shell and isolated critical parts design for enhanced longevity even in a harsh laboratory environment.
- > High safety protection: When exceeding the safety range of the hotplate (10-50 °C adjustable), the heating can be shut off immediately and automatically for the safety protection.
- > ICC technology to self-optimize for optimal heating results.



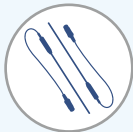
### TFT high-definition color touch screen

Synchronous display of set temperature, actual temperature, and rotational speed. Automatic memory of the last set working parameters.



### RS232 interface

Enable the unit to be connected to a PC for operating



### Two external sensors can be connected

The first PT100 is used to test and control the sample temperature, and the second thermocouple is only for reference temperature value



### Safety Temperature

is an adjustable temperature safety circuit that prevents from exceeding a specified set temperature. The safety temperature can be adjusted by using a special tool included in the product delivery



### Ceramic glass top plate

Great anti-corrosive ability to acid, base, or organic solvents.



### Sensor in medium detection

If the sensor falls during the heating process, it will automatically trigger the device alarm



### Safety protection

Flashing high temperature indicator, warning for hurt by touch.



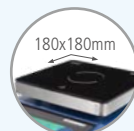
### Direction of rotation

Clockwise or counterclockwise



### Liquid drainage

Above the control board  
Avoid the solution splashing on the touch board.



180x180mm

### WH280-H / NH / AH

Plate dimension: 180x180mm



### Intelligent Cascade Control

self-optimizing, for optimal results.  
Excellent temperature stability



### WH280-R / AR

Plate dimension: Ø135cm  
Suitable for parallel application



### Overheating protection

If the internal temperature exceeds the permissible temperature that may damage the internal electronic components, the heating power will be reduced automatically.



85mm

### Compact

Height: Only 85mm

## Strong & Robust



WH280-R



WH280-NH

In addition to speedy heating up and good temperature control, WH280-NH also offers well controlled liquids mixing from gentle to intense, being suitable for big volume viscous media as well.



WH280-AH



WH280-NH



WH280-H



WH280-R

### Specifications

Model	WH280-AH	WH280-NH	WH280-H	WH280-R	WH280-RL
Order no.	W3012801	W3012802	W3012803	W3012805	W3012806
Maximum temperature setting [°C]	380	450	450	450	450
Maximum temperature setting with E-sensor [°C]	200	300	300	300	300
Safety temperature [°C]	50~430 adjustable	50~500 adjustable	50~500 adjustable	50~500 adjustable	50~500 adjustable
High temperature protection [°C]	10~50 adjustable	10~50 adjustable	10~50 adjustable	10~50 adjustable	10~50 adjustable
Temperature stability with E-sensor [°C]*	±1	±1	±1	±1	±1
Heat output [W]	800	1000	800	800	800
External temperature sensor	Pt100	Pt100	Pt100	Pt100	Pt100
Temperature control	ICC	ICC	ICC	ICC	ICC
Speed setting range [rpm]	100~1500	100~1500	100~1500	100~1500	100~1500
Stirring quantity max [L / H <sub>2</sub> O]	20	20	20	20	20
Display	TFT	TFT	TFT	TFT	TFT
Mixing direction	Clockwise or counterclockwise				
Time setting	1~1999min / continuous				
IP code	IP21	IP21	IP21	IP21	IP21
Top plate material	Metal coated with ceramic	Ceramic glass	Ceramic glass	Ceramic glass	Ceramic glass
Top plate dimensions [mm]	180×180	180×180	180×180	Ø135	Ø145
Communicate interface	RS232/485	RS232/485	RS232/485	RS232/485	RS232/485
Dimensions W x D x H [mm]	190x320x90	190x320x85	190x320x85	190x320x90	190x320x90
Weight (Kg)	2.8	2.8	3.1	3.0	3.0
Power supply	220V/50HZ	220V/50HZ	220V/50HZ	220V/50HZ	220V/50HZ

\*Measured with 500ml water at 80 °C

Standard package includes: Hot plate / stirrer, thermocouple sensor PT100-01 with holder and clamp, stirrer bar ( Order No. 1.230.8)