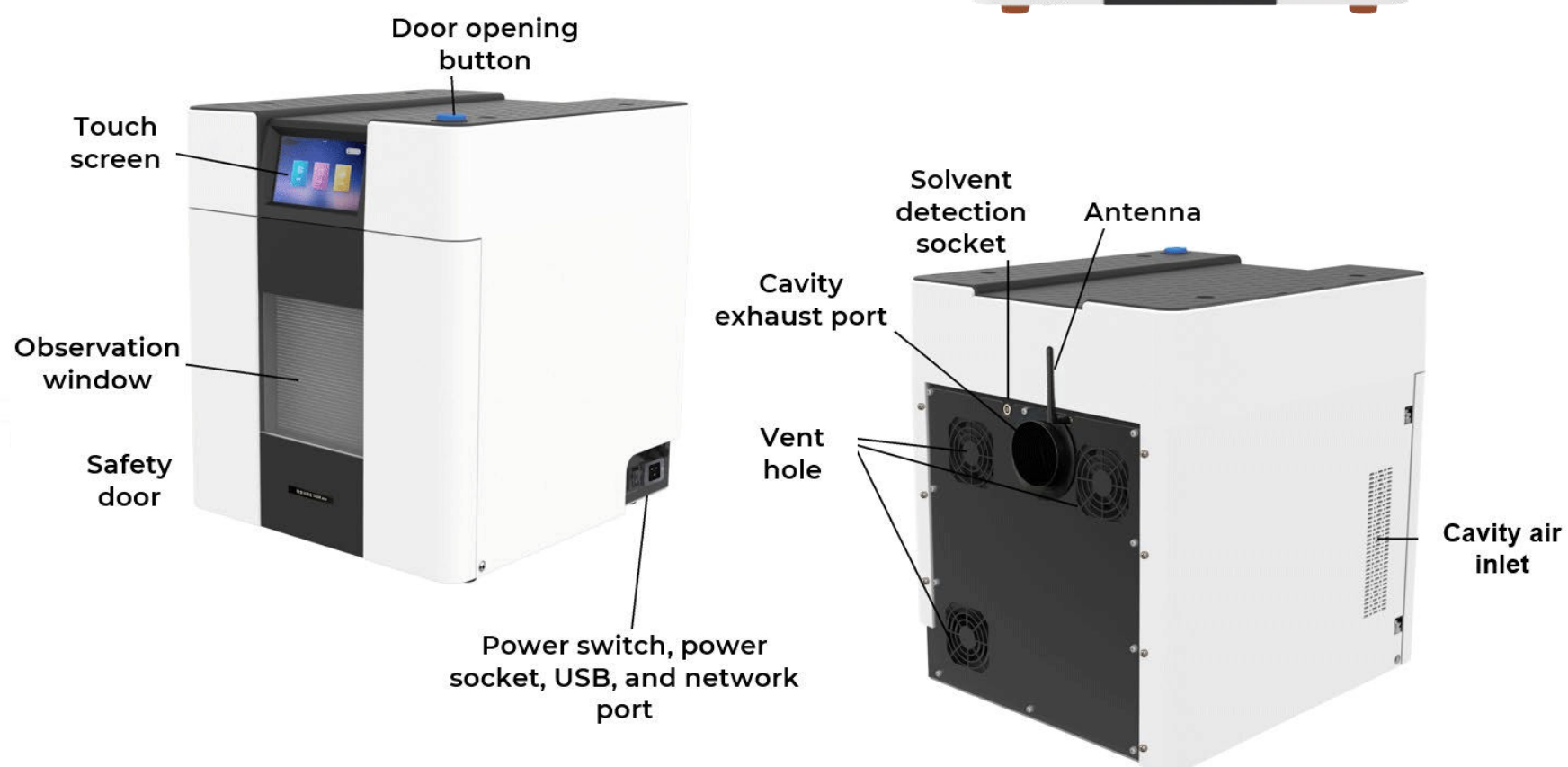


## TANK eco

# Microwave Digestion/Extraction System

### Features:

- 7-inch color touch screen
- 36L SS industrial-grade furnace cavity
- 6-position & 8-position rotors available
- Android System/Data compliance;
- Temperature & pressure sensor monitoring



### Rotor & Vessels:



## Parameters

Power supply	220~240VAC 50/60Hz 20A
Microwave source	2450MHz, high-energy microwave field transmission
Installed power	1800W
Maximum output power	1000W
Microwave cavity	Large-volume 316L stainless steel cavity, internally and externally coated with multi-layer corrosion-resistant Teflon
Explosion-proof door design	Self-popping explosion-proof sliding furnace door, integrated structure design with prevention of microwave leakage
Pressure measurement system	High-precision semiconductor pressure sensor, with pressure control range: 0~15MPa, accuracy $\pm 0.01$ MPa
Temperature measurement	Full vessel IR temperature control system, with temperature control range: -40~305°C, accuracy: $\pm 0.1$ °C;
Passive protection system	COT real-time abnormality monitoring system, which can automatically beep and cut off the microwave when an abnormality occurs to any reaction vessel; Safety Bolt design, providing vertical and quantitative release of overpressure
Software system	Android system; Built-in method library; Cloud methods, data storage and sharing; Wi-Fi remote connection, etc.
Communication interface	USB interface and internet interface
Exhaust system	High-power corrosion-resistant turbo fan, high-efficiency turbulent air cooling, less than 15 minutes cooling down to room temperature
Working environment	0~40°C / 15~80%RH
Physical size / net weight	480mmx560mmx575mm (Width x depth x height) /45kg
Model of reaction vessel	MP-100
Batch capacity	Standard configuration 6 vessels, up to 8 vessels
Material of inner vessel	TFM
Material of outer vessel	Aerospace composite fiber
Rotor frame type	Single Frame type
Volume of reaction vessel	100mL
Designed temperature	300°C
Designed pressure	15MPa (2,200psi)