

Laboratory Vacuum Emulsification Reactor(HR-1L/HR-2L)

Laboratory Vacuum Emulsification Reactor: Under vacuum or pressure conditions, it can achieve processes such as material dispersion, emulsification, homogenization, and mixing. It can be equipped with various efficient macroscopic high viscosity agitators, high shear homogenizers, chemical machines, reliable vacuum sealing and temperature control systems, as well as multiple sensing and detection systems that can simulate industrial production in laboratory environments. At present, the laboratory processing capacity includes series such as 1L and 2L. Used for laboratory dispersion, mixing, emulsification, homogenization, stirring, and dissolution.

Technical Parameters

Model	HR-1L	HR-2L
Item No	1018001001	1018002001
Power supply	220V 50/60Hz	220V 50/60Hz
Allowed stirring amount(ml)	300-1000	500-2000
Allowed emulsification(ml)	500-1000	1000-2000
Operating temperature(°C)	170	170
Accessible vacuum(MPa)	-0.097---0.02	-0.097---0.02
Max Viscosity(mPa·s)	100000	100000
Stirring motor power(W)	90	120
Stirring speed range(rpm)	0-230	0-230
Agitator configuration	Anchored ribbon scraping paddle	
Scraper material	Silicone rubber	
Homogeneous motor power(W)	1050W	1050W
Homogeneous speed range(rpm)	8000-28000	8000-28000
Working head configuration	20DG	25DG
Reaction kettle cap opening	Homogenizer port + hopper port + temperature measuring port + vacuum port +3 spare ports	
Lifting bracke distance(mm)	350	350
Sample touch material	SS316L,Borosilicate glass,FKM10	
Outside diameter of vacuum port(mm)	10	10
Glass kettle jacket inlet and outlet diameter(mm)	12	12
Ambient temperature(°C)	5-40	5-40
Relative humidity(%)	80	80
External dimension(mm)	400x390x780	400x390x780
Standard weight(kg)	37	38

Product Features



Frequency control

Meeting the needs of different production processes, stirring and homogenization are more convenient



Reliable quality

Good safety, focused and professional



Unidirectional frame mixing

Stir evenly to make the experiment smoother



Free disassembly

Makes experiments more convenient



Electric lift

Raise and lower the height according to the experimental requirements



Vacuum meter

Observation is more convenient and experiments are easier



Thermometer

Make experiments more accurate and better operated



Exquisite appearance

The overall mechanism design is compact and exquisitely shaped



SHANGHAI HUXI INDUSTRIAL CO.,LTD
BULINDING 5, NO.1399 GUYIYUAN ROAD,
JIADING DISTRICT SHANGHAI
TEL:021-59121787 FAX:021-31756691
EMAIL:hx@huxishiye.com

www.huxishiye.com 400-808-1508



Full protection system

The homogenizer emulsifying device of this machine can directly reach the bottom of the kettle and can use the internal circulation of the emulsifying head for emulsification. By using a high-speed emulsification device combined with slow scraping, the raw materials will form a strong circulating floc flow without dead corners. The product can be fully mixed, emulsified, dispersed, and homogenized, forming a good and uniform molecular structure.

Heating and constant temperature system

Electric heating

Electric lifting system

Height can be adjusted according to experimental requirements

Homogeneous emulsification function

Standard HR-25 homogenizer

Fast mixing function

Stainless steel anchor bolt
scraping wall mixing blade

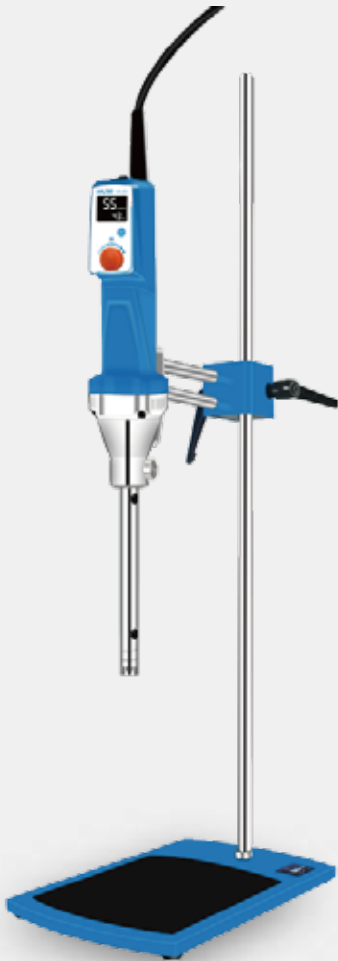
Vacuum system

The vacuum degree can reach -0.097~0.02



Homogenization & Emulsification

Homogenization & Emulsification



HR-25D



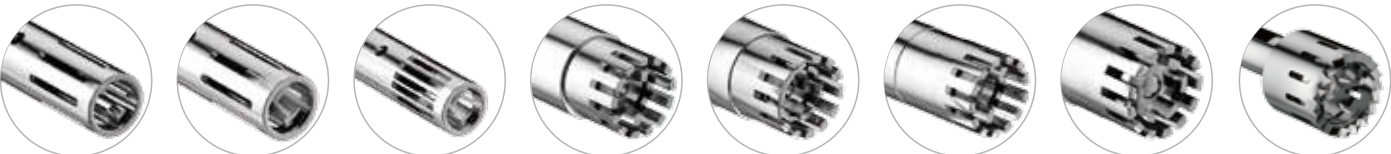
HR-1L/2L



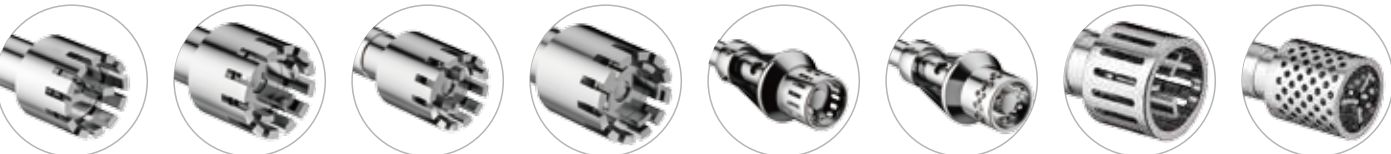
Focus on producing laboratory general instruments

Shanghai Huxi Industry Co.,Ltd

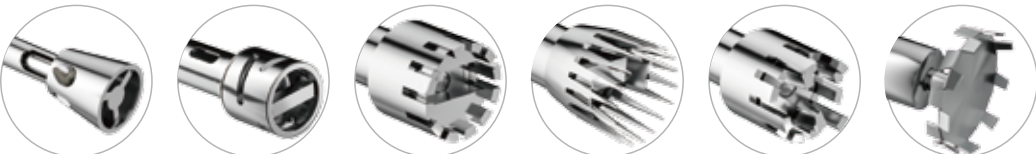
Working head options



HR25P-6G-M2V HR25P-8G-M2V HR25P-10G-M2V HR25P-18G-S2V HR25P-18F-S6S HR25P-20G-S2V HR25P-20F-S6S



HR25P-25G-S2V HR25P-25F-S6S HR25P-25DG-S2V HR25P-25DF-S6S HR25P-25JX-IOQ HR25P-25JQ-IOQ HR25P-30JX-I3Y HR25P-30JQ-Q3Y



HR25P-25T1-O3X HR25P-25T2-O1I HR25P-25T3-M2V HR25P-25T4-W2V HR25P-25T5-M2V HR25P-25T6-Z6Z

Model	Stator Diameter mm	Capacity ml	Viscosity CP	Max Line Speed m/s	Function description
HR25P-6G-M2V	6	0.2-10	100	6	Suitable for dispersing,crushing and homogenizing of animal and plant tissues
HR25P-8G-M2V	8	1-60	100	8	
HR25P-10G-M2V	10	10-150	200	10	
HR25P-18G-S2V	18	50-1500	3000	19	Suitable for solid-liquid mixing, oil-water emulsification, cream preparation, emulsification polymerization, silicone oil emulsification,homogenization, etc.
HR25P-18F-S6S	18	100-1500	2000	19	
HR25P-20G-S2V	20	50-1500	3000	19	
HR25P-20F-S6S	20	50-1500	3000	19	Suitable for solid-liquidmixing, oil homogenization,etc.
HR25P-25GST-S2V	25	100-5000	5000	27	Suitable for solid-liquid mixing, oil-water emulsification, cream preparation, emulsification polymerization, silicone oil emulsification,homogenization, etc.
HR25P-25G-S2V	25	100-5000	5000	27	
HR25P-25F-S6S	25	100-5000	5000	27	
HR25P-25DG-S2V	25	100-5000	5000	25	Suitable for solid-liquid mixing, oil-water emulsification,cream preparation,emulsificationpolymerization, silicone oil emulsification, homogenization,etc. under vacuum andpressure environments
HR25P-25DF-S6S	25	100-5000	5000	25	
HR25P-25JX-IOQ	25	100-5000	5000	25	
HR25P-25JQ-IOQ	25	100-5000	5000	25	Vertical convection shearmixing
HR25P-30JX-I3Y	30	250-10000	15000	47	
HR25P-30JQ-Q3Y	30	250-8000	15000	47	Suitable for paste, fiber,liquid
HR25P-25T1-O3X	25	100-5000	5000	27	
HR25P-25T2-O1I	25	100-5000	5000	27	Quickly complete liquid-liquid mixing in medium-viscosity systems, dissolvesuspendedcomponents, etc.
HR25P-25T3-M2V	25	100-5000	5000	27	
HR25P-25T4-W2V	25	100-5000	5000	27	Solid-liquid dispersion and mixing, suitable for wet grinding, effectively reducingmaterial size and increasinguniformity
HR25P-25T5-M2V	25	100-5000	5000	27	Super strong dispersion,tissue crushing, suitable for crushing, homogenizing,dispersing, shearing of animal and plant tissues
HR25P-25T6-Z6Z	25	100-5000	5000	27	Suitable for dispersion and homogenization of medium and high viscosity systems
HR25P-25T6-Z6Z	25	100-5000	5000	27	Ultra-high-speed stirring,suitable for dissolving and dispersing medium and high viscosity systems

Power Cord

Temperature sensor interface

LCD Screen

Speed&Temperature Adjustment Button

Square clamp

Cone connector

Working head

Vertical pole

Heavy anti slip base

Technical Parameters

Model	HR-25D
Host item No	1004022001
Set Item No	1004022000
Machine Type	Digital Type
Rated Voltage(v)	200~240
Frequency(Hz)	50~60
Input Power(w)	1050
Ouiput Power(w)	750
Motor Type	Brushless motor
Speed Range(rpm)	4000~26000
Speed accuracy(rpm)	±100
Speed Display	LCD
Speed mode	Knob adjust
Capacity(ml)	0.2~10000
Timer Range(min)	0~999
Time Display	LCD
Temperaturetesting range(°C)	-10~199
Set Include	Host+working head(stand options)
Standard working head	HR25P-25G-S2V
Host dimension(mm)	365xφ90
Host packing dimension(mm)	470x340x05
Host NW(KG)	2.5
Host GW(KG)	2.9
SET NW(KG)	6.5
SET GW(KG)	9

Optional Accessories



Temperature Sensor



Double Column Stand

Lab Homogenizer(HR-25D)
—Brushless motor

Brushless DC motor, brushless motor produces no carbon powder, avoids sample contamination, has no electric sparks, is safe to use, has low noise, and is maintenance free; PID speed constant system, viscosity changes, internal compensation stabilizes motor speed; Built in safety circuit, automatic protection against overload and overheating, worry free continuous operation.

