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WIGGENS

THE MAGIC MOTION

Vacuum Pump
Hot Plate and Stirrer
Homogenizer
Oven

About WIGGENS

What Does Wiggens Stand for?

***W**ide Product Range*
***I**nternational Orientation*
***G**reat Quality*
***G**reat Service*
***E**nergetic Team*
***N**ew Technology*
***S**olutions*

Wiggens was established in 2005 with the goal of delivering the best laboratory equipment and service for reliable results. Since then Wiggens has been producing top-quality general laboratory equipment, analysis apparatus and chemical reaction and purification solutions. Our brand Wiggens stands for high quality, durability and remarkable performance.

Wiggens is your reliable laboratory companion and provides products that can be used in different kinds of laboratory environments. The Wiggens product range includes:

ChemVak Pumps
Wiggens General Lab Equipment
Life Science Equipment

ChemTron Gas
H_2 Generators
N_2 Generators
O_2 Generators
Zero Air Generators

ChemTron Reaction & Purification System
Reactor
Rotary Evaporator
Thin film evaporator
Molecular distillation device

ChemTron Analytics
Viscometer
Titrator
Density

ChemVak®

ChemVak, a brand of Wiggens, is specialized in pump technology offering an extensive range of vacuum pumps, vacuum filtrat and liquid pumps for various applications, including chemical-resistant diaphragm pumps, oil-free pumps and rotary vane vacuum pumps, vacuum filtration equipment for a wide range of different applications. In addition, peristaltic pumps, piston Liquid pumps, solvent recovery systems and bio-suction systems are part of the product range.

ChemTron®

ChemTron is our product brand focusing on analysis apparatus, gas generators, chemical reaction solutions, chemical process separation and purification solutions, including efficient chemical separation tools-rotary evaporator, thin film evaporator, molecular distillation device, automatic distillation system, crystallization system etc...

Thinking the unusual is usual for us.

Innovation

New concepts and solutions
Customers as generator of ideas
Friendly and modern working atmosphere

Competence

Specialists in all teams
Expert knowledge and experience

Quality

Reliability
ISO 9001
Strong After Sales Service
Made in Germany, China, Switzerland & USA

Flexibility

Special Design, customized products
Constant feedback from subsidiaries and customers

Contents

A410

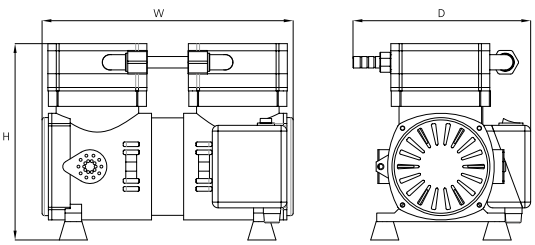
A510

Chemical Resistant Diaphragm Pump (A Series)

> Chemvak A series are chemical resistant diaphragm vacuum pumps which can be used in the chemical, pharmaceutical, petrochemical and other industries, such as suction filtration, vacuum distillation, rotary evaporator, vacuum concentration, centrifugal concentration, solid phase extraction and so on.
> A series pumps can be widely used for hard acidic, basic and solvent vapors by utilizing corrosion proof PTFE on all the wetted surfaces.The vacuum chamber and the drive chamber are separated and sealed, ensuring a longer working life of mechanical components
> Chemvak A series pumps are driven by diaphragm, without the need of lubricant, regular oil changes and maintenance; with no oil pollution.
> Driven direct by motor with no additional belt-driven transmission; the quality vibration-proof assembly makes Chemvak A series run at the lowest noise level among all other equivalent pumps.
> Cost-effective, reliable, unique structural design, noise less than 50dB.
> A variety of models are available to meet the various needs of the laboratory, with a minimum vacuum of up to 8 mbar.
> Every motor of Chemvak A series pumps has a built-in thermal protection device to shut off the pump automatically when overheated and then resume working when the temperature cools down.

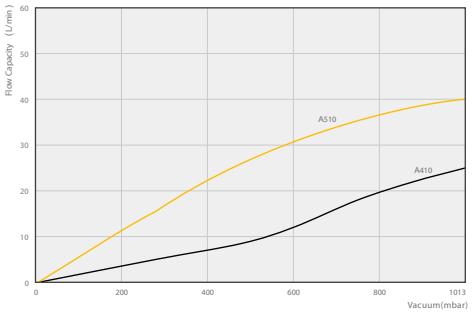
Features

> No pollution when working
> Overheat and over current protection
> Chemical resistant design
> Suitable for corrosive gases and steam media
> Environmentally friendly design
> Strong tightness



Model / Specifications	A410	A510
Order No.	170410	170510
Flow rate [m^3/h] at atm. pressure	1.5	2.4
Flow rate [L/min] at atm. pressure	25	40
Ultimate vacuum [mbar]	13	8
Max. Power P [W]	95	245
Max. current [A]	0.6	1
Motor speed [rpm]	1450	1450
Pump head	Double stage	Double stage
Hose connections [mm]	10	10
IP code	IP20	IP20
Sound pressure level [dB]	50	60
Dimensions [W x D x H (mm)]	223x164x179	290x164x213
Weight [kg]	4.5	10
Power supply	220 ~ 240 VAC / 50 Hz	220 ~ 240 VAC / 50 Hz

Chemical Resistant Diaphragm Pumps Flow curve



Note: Above data is based on the 220 V / 50 Hz instrument

Chemical Resistant Diaphragm Pump (C Series)

C series construction with PTFE makes them very resistant to chemical vapors from inlet to exhaust and very tolerant to condensates. Pumping chambers are hermetical ensuring long lifetimes of mechanical parts.
Most importantly, diaphragm pumps are oil-free, with vastly reduced service demands compared with oil sealed pumps. They eliminate the cost of water and its contamination well-known from water-jet aspirators, and the waste-oil disposal of rotary vane pumps.
They are chemical resistant diaphragm vacuum pumps which can be widely used for hard acidic, basic and solvent vapors by utilizing corrosion proof PTFE on all the wetted surfaces. Through innovative mechanical technology and human considerations, we have made C series to be quiet, safe, maintenance-free and cost effective vacuum pumps.

Features

High chemical resistant
All wetted parts of C series pump are made of PTFE which is ideal for extremely aggressive / corrosive gases and vapors.

Long-term durable
Head cover and diaphragm made of PTFE/PTFE-coated with stability core for unsurpassed long-term performance

No air pollution, maintenance free
Chemvak C series pumps are driven by diaphragm, without the need of lubricant, regular oil changes and maintenance; with no oil pollution.

Practical
> smooth surfaces for easy cleaning
> sealing system provides reduced leakage rates for improved ultimate vacuum

Quiet and low vibration
Driven direct by motor with no additional belt-driven transmission; the quality vibration-proof assembly makes Chemvak C series run at the lowest noise level among all other equivalent pumps.

Thermal protection device
Every motor of Chemvak C series pumps has a built-in thermal protection device to shut off the pump automatically when overheated and then resume working when the temperature cools down.

Chemical Resistant Diaphragm Pump

Fast pumping speed for industrial applications

The C1200 series chemical resistant diaphragm pumps are specifically designed for handling aggressive gases and vapors, offering a vacuum range down to 1 mbar and a pumping speed of up to 120 L/min.

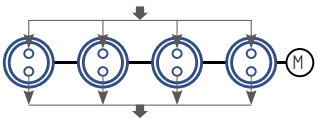
Features

- All wetted parts are made of chemical resistant materials
- Fast pumping speed
- Low noise
- Overheat protection
- Vacuum can be controlled by manual valve, vacuum controller
- Easy and convenient for maintenance

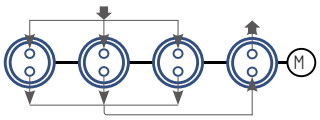
The pump with chemical resistant vacuum controller DVR480

Package

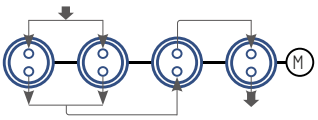
The motor drives the pump head to vacuum



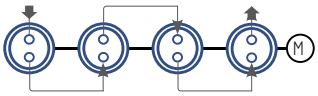
C1200E with single stage of pump head



C1200Z with double stage of pump head



C1200T with triple stage of pump head



C1200V with quadruple stage of pump head

Model / Specifications	C1200E	C1200Z	C1200T	C1200V
Order No.	W1031201	W1031202	W1031203	W1031204
Flow rate [m^3/h] at atm. pressure	7.2	5.7	4.2	3
Flow rate [L/min] at atm. pressure	120	95	70	50
Ultimate vacuum [mbar]	< 80	< 8	< 2	< 1
Max. Power P [W]	370	370	370	370
Max. current [A]	2	2	2	2
Motor speed [rpm]	1380	1380	1380	1380
Number of stages	Single stage	Double stage	Triple stage	Quadruple stage
Hose connection of inlet	KF25 [1)]	KF25 [1)]	KF25 [1)]	KF25 [1)]
Hose connection of outlet	G1/2 [1)]	G1/2 [1)]	G1/2 [1)]	G1/2 [1)]
IP code	IP20	IP20	IP20	IP20
Sound pressure level [dB]	50	50	50	50
Dimensions [W x D x H (mm)]	498x249x366	498x249x366	498x249x366	498x249x366
Weight [kg]	21.5	21.5	21.5	21.5
Power supply	220 ~ 240 V / 50 Hz	220 ~ 240 V / 50 Hz	220 ~ 240 V / 50 Hz	220 ~ 240 V / 50 Hz

[1)] Included : KF25 flange clamp, with sealing ring and barbed fitting OD16mm for tubing

Chemical Resistant Diaphragm Pump

Fast pumping speed for industrial applications

The C2000 series chemical resistant diaphragm pumps are specifically designed for handling aggressive gases and vapors, offering a vacuum range down to 1 mbar and a pumping speed of up to 245 L/min.

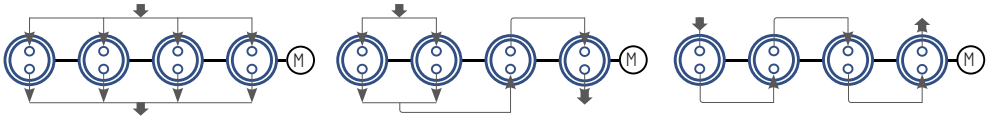
Features

- All wetted parts are made of chemical resistant materials
- Fast pumping speed
- Low noise
- Overheat protection
- Vacuum can be controlled by manual valve, vacuum controller
- Easy and convenient for maintenance

The pump with chemical resistant vacuum controller DVR480

Package

The motor drives the pump head to vacuum



C2000E with single stage of pump head

C2000T with triple stage of pump head

C2000V with quadruple stage of pump head

Model / Specifications	C2000E	C2000T	C2000V
Order No.	W1032003	W1032001	W1032002
Flow rate [m^3/h] at atm. pressure	14.7	10.8	9.0
Flow rate [L/min] at atm. pressure	245	180	150
Ultimate vacuum [mbar]	< 70	< 2	< 1
Max. Power P [W]	750	750	750
Motor speed [rpm]	1380	1380	1380
Number of stages	Single stage	Triple stage	Quadruple stage
Hose connection of inlet	KF25 [1)]	KF25 [1)]	KF25 [1)]
Hose connection of outlet	G1/2 [1)]	G1/2 [1)]	G1/2 [1)]
IP code	IP20	IP20	IP20
Sound pressure level [dB]	60	60	60
Dimensions [W x D x H (mm)]	619x285x386	614x285x386	614x285x386
Weight [kg]	41	41	41
Power supply	220 ~ 240 V / 50 Hz	220 ~ 240 V / 50 Hz	220 ~ 240 V / 50 Hz

[1)] Included : KF25 flange clamp, with sealing ring and barbed fitting OD16mm for tubing

Chemical Resistant Diaphragm Pump

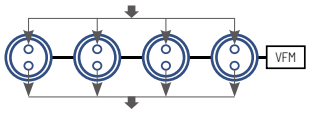
Variable-frequency vacuum pump, fast pumping speed

The chemical resistant diaphragm pumps are ideally suited for handling aggressive gases and vapors, offering a vacuum range down to 1 mbar.

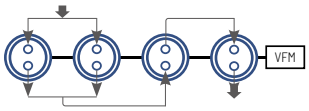
Features

- All wetted parts are made of chemical resistant materials
- Variable frequency motor for fast pumping speed
- Low noise
- Overheat protection
- Vacuum can be controlled by manual valve, vacuum controller or variable frequency controller
- Easy and convenient for maintenance

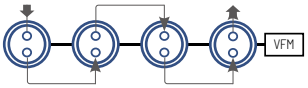
The motor drives the pump head to vacuum



C2000EEF with variable frequency motor and single stage of pump head

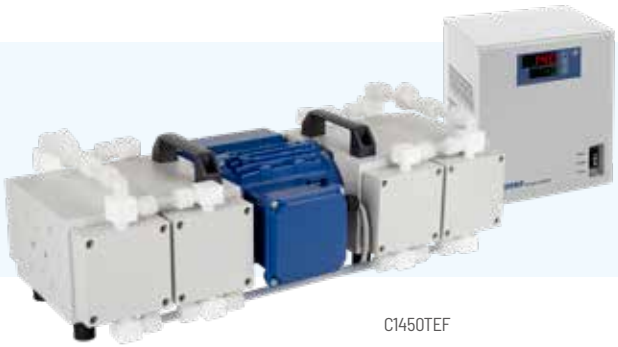


C2000TEF with variable frequency motor and triple stage of pump head



C2000VEF with variable frequency motor and quadruple stage of pump head

The variable-frequency pump must be connected to a variable-frequency controller to regulate the vacuum by adjusting the motor speed. This setup is particularly suitable for vacuum control in large-capacity systems, ensuring both faster pumping speeds and stable vacuum levels.



C1450TEF

Model / Specifications	C2000EEF	C2000TEF	C2000VEF	C1450TEF
Order No. (w/ frequency controller)	W1032013	W1032011	W1032012	1691450C
Flow rate [m^3/h] at atm. pressure	16.2	12.6	9.6	
Flow rate [L/min] at atm. pressure	270	210	160	145
Ultimate vacuum [mbar]	< 70	< 2	< 1	< 8
Max. Power P [W]	750	750	750	600
Motor speed [rpm]	0~1380	0~1380	0~1380	0~1400
Number of stages	Single stage	Triple stage	Quadruple stage	Triple stage
Hose connection of inlet	KF25 [1]	KF25 [1]	KF25 [1]	10mm
Hose connection of outlet	G1/2 [1]	G1/2 [1]	G1/2 [1]	G1/2
IP code	IP20	IP20	IP20	IP20
Sound pressure level [dB]	60	60	60	65
Pump dimensions [W x D x H (mm)]	614x285x386	614x285x386	614x285x386	652x251x207
Controller dimensions [W x D x H (mm)]	195x155x226	195x155x226	195x155x226	195x155x226
Weight [kg]	41	41	41	36.5
Power supply	200 ~ 240 V, 50 Hz	200 ~ 240 V, 50 Hz	200 ~ 240 V, 50 Hz	200 ~ 240 V, 50 Hz

[1] Included : 2 barbed fittings for tubing 16 mm inner dia.
60Hz version is available

Highspeed Pump Oil

ChemVak highspeed oil offers excellent lubrication performance with superior resistance to emulsification and oxidation. It enhances system durability and helps achieve a stable ultimate vacuum, ensuring reliable and long-lasting operation.

	Order No.
500 ml	900100-04
1 L	900100-05
5 L	900100-02
10 L	900100-03

Krytox LVP High-Vacuum Grease

Highly inert, nonflammable grease with exceptionally low vapor pressure, specifically designed for high-vacuum systems. Delivers superior performance as both a lubricant and sealant for stopcocks, valves, fittings, and O-rings operating in high-vacuum or hostile environments. Ideal for use in laboratory and pilot plant equipment.

	Order No.
50g	8116-10

Multi-position hot plate/stirrer

WH420R-L / 620R-L / WH420R-D / 620R-D

> WIGGENS multi-position heat magnetic stirrer, each position can work independently, ceramic glass plate has excellent chemical corrosion resistance, easy to clean. Efficient infrared heating technology ensures high efficiency and accuracy of temperature control. Ceramic glass plate are resistant to heat impact over 700 ℃ .

> The control panel is made of waterproof and anti-corrosion material, which protects the panel from damage caused by splashing or spilling of liquid.

> The WH420R /WH620R series is configured with three sets of PID parameters, which are optional from the menu. PID1 is suitable for small sample heating (small volume or small specific heat capacity), PID 3 is suitable for a large vol of samples for rapid heating.

> Each position is independent display, control system; Each of them is equipped with separate safety temperature control and monitoring.

WH420R-L

WH620R-D

Note: High-power appliances require attention to power supply compatibility.

Specifications

Model	WH420R-L	WH620R-L	WH420R-D	WH620R-D
Order no.	W3010415	W3010416	W3010425	W3010426
Maximum temperature setting [℃]	450	450	450	450
Maximum temperature setting with E-sensor [℃]	300	300	300	300
Safety temperature [℃]	50-500 adjustable	50-500 adjustable	50-500 adjustable	50-500 adjustable
High temperature protection [℃]	10-50 adjustable	10-50 adjustable	10-50 adjustable	10-50 adjustable
Temperature stability with E-sensor [℃]*	±1	±1	±1	±1
Heat output, each position/set [W]	500 / 2000	500 / 3000	500 / 2000	500 / 3000
External temperature sensor	Pt100	Pt100	Pt100	Pt100
PID parameter	3 sets	3 sets	3 sets	3 sets
Speed setting range [rpm]	100-1500	100-1500	100-1500	100-1500
Stirring quantity max [L / H_2O]	20	20	20	20
Display/Control	Independent control LCD digital display/knob operation			
Time setting	1~1999min/continuous	1~1999min/continuous	1~1999min/continuous	1~1999min/continuous
Top plate material	Ceramic glass	Ceramic glass	Ceramic glass	Ceramic glass
Top plate dimension [mm]	Ø135	Ø135	Ø135	Ø135
Communicate interface.	USB-A	USB-A	USB-A	USB-A
Dimensions [W x D x H (mm)] (Sensor set's not included)	845x322x104	1215x308x117	506x513x113	655x513x106
Weight [kg]	15.5	15.8	23.5	23.8
Power supply	220 V / 50 Hz	220 V / 50 Hz (2xpower plugs)	220 V / 50 Hz	220 V / 50 Hz (2xpower plugs)

*Measured with 500 ml water at 80 ℃

Standard package includes: Hot plate / stirrer, temperature sensors (4 or 6 pcs) PT100-01 with holder and clamp , stirrer bars 4 or 6 pcs

Infrared Hot Plate / Stirrer

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 than700 ℃ , providing the users with optimal solution compared to conventional heating surface materials. PID control enables good temperature stability. If the Pt-100 sensor is connected, temperature-controlled work with stability of ± 1 ℃ can be reached in most applications.

All functions can be viewed and monitored on a large and clear TFT 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.
> 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

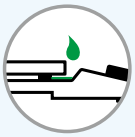
Synchronous display of set temperature, actual temperature, and rotational speed. Automatic memory of the last set working parameters.

Ceramic glass top plate

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

Safety protection

A flashing high-temperature indicator provides a warning to prevent accidental contact and potential injury.



Liquid drainage

A groove above the control panel prevents solution splashes.

Intelligent Cascade Control

Self-optimizing technology ensures optimal performance with excellent temperature stability.

Overheating protection

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

RS 232/485 interface

Enable the unit to be connected to a PC for operating

Safety Temperature

The safety temperature is an adjustable circuit designed to prevent the unit from exceeding a specified set temperature. It can be adjusted using a special tool provided with the product.

Direction of rotation

Clockwise or counterclockwise

Ceramic glass top plate

WH280H/R/RL/NH

Ceramic Glass by Schott combines chemical resistance, top quality surfaces and resistance to temperature shocks of greater than 700 °C .

Ceramic top plate

WH-280AH/AR

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

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-AR	WH280-R	WH280-RL
Order no.	W3012801	W3012802	W3012803	W3012804	W3012805	W3012806
Maximum temperature setting [°C]	380	450	450	380	450	450
Maximum temperature setting with E-sensor [°C]	200	300	300	200	300	300
Safety temperature [°C]	50~430 adjustable	50~500 adjustable	50~500 adjustable	50~430 adjustable	50~500 adjustable	50~500 adjustable
High temperature protection [°C]	2~50 adjustable	2~50 adjustable	2~50 adjustable	2~50 adjustable	2~50 adjustable	2~50 adjustable
Temperature stability with E-sensor [°C]*	±1	±1	±1	±1	±1	±1
Heat output [W]	800	1000	800	800	800	800
External temperature sensor	Pt100	Pt100	Pt100	Pt100	Pt100	Pt100
Temperature control	ICC	ICC	ICC	ICC	ICC	ICC
Speed setting range [rpm]	100~1500	100~1500	100~1500	100~1500	100~1500	100~1500
Stirring quantity max [L / H_2O]	20	20	20	20	20	20
Display	TFT	TFT	TFT	TFT	TFT	TFT
Mixing direction	Clockwise or counterclockwise					
Time setting	1~1999min / continuous					
IP code	IP21	IP21	IP21	IP21	IP21	IP21
Top plate material	Aluminium coated with ceramic	Ceramic glass	Ceramic glass	Aluminium coated with ceramic	Ceramic glass	Ceramic glass
Top plate dimensions [mm]	180×180	180×180	180×180	Ø140	Ø135	Ø145
Communicate interface.	RS232/485	RS232/485	RS232/485	RS232/485	RS232/485	RS232/485
Dimensions [W x D x H (mm)]	187x315x75	187x315x73	187x315x84	187x315x82	187x315x79	187x315x77
Weight [kg]	2.8	2.8	3.1	2.8	3.0	3.0
Power supply	220 V, 50 / 60 Hz	220 V, 50 / 60 Hz	220 V, 50 / 60 Hz	220 V, 50 / 60 Hz	220 V, 50 / 60 Hz	220 V, 50 / 60 Hz

*Measured with 500 ml water at 80 °C

Standard includes, Hot plate / stirrer, stirrer bar

Infrared Hot Plate / Stirrer With large plate

WH385

Extra large heating plate

Top plate dimensions: 280x280 mm
Heating zone: Ø190 mm

Ceramic glass top plate

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

Rapid heating up speed

Temperature can reach up to 550 ℃ , and one liter of water can be boiled in approx. 9 minutes

Touch controller

With comfortable and easy operation

WH385

Attractive designs for heating, stirring and controlling

Note! Application Restrictions
Infrared heating units utilize infrared radiation for heating. Do not cover the surface of the heating plate with aluminum foil or Polished metal surface, as those surface can create a mirror-like reflection that may easily lead to internal overheating of the instrument.

Specifications

Model	WH385
Order no.	W3013853
Maximum temperature setting [℃]	550
Maximum temperature setting with E-sensor [℃]	300
Safety temperature [℃]	50~600 adjustable
High temperature protection [℃]	2~50 adjustable
Temperature stability with E-sensor [℃]*	±1
Heat output [W]	1200
External temperature sensor	Pt100
Temperature control	ICC
Speed setting range [rpm]	100~1500
Stirring quantity max [L / H_2O]	30
Display	TFT
Mixing direction	Clockwise or counterclockwise
Time setting	1~1999min / continuous
IP code	IP21
Top plate material	Ceramic glass
Top plate dimensions [mm]	280x280
Communicate interface	RS232/485
Dimensions [W x D x H (mm)]	255x391x103
Weight [kg]	4.0
Power supply	220 V / 50 Hz

*Measured with 500 ml water at 80 ℃
Standard includes, Hot plate / stirrer, stirrer bar

Infrared Hot Plate / Stirrer With High-power

WH395

Ceramic glass top plate

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

Intelligent Cascade Control

Self-optimizing technology ensures optimal performance with excellent temperature stability.

Heating power

With 1800W heating power, rapid heating up speed.

WH395

Attractive designs for heating, stirring and controlling

Note! Application Restrictions

Infrared heating units utilize infrared radiation for heating. Do not cover the surface of the heating plate with aluminum foil or Polished metal surface, as those surface can create a mirror-like reflection that may easily lead to internal overheating of the instrument.

Specifications

Model	WH395
Order no.	W3013953
Maximum temperature setting [°C]	450
Maximum temperature setting with E-sensor [°C]	300
Safety temperature [°C]	50~500 adjustable
High temperature protection [°C]	2~50 adjustable
Temperature stability with E-sensor [°C]*	±1
Heat output [W]	1800
External temperature sensor	Pt100
Temperature control	ICC
Speed setting range [rpm]	100~1500
Stirring quantity max [L / H_2O]	30
Display	TFT
Mixing direction	Clockwise or counterclockwise
Time setting	1~1999min / continuous
IP code	IP21
Top plate material	Ceramic glass
Top plate dimensions [mm]	280x280
Communicate interface	RS232/485
Dimensions [W x D x H (mm)]	283x445x110
Weight [kg]	4.1
Power supply	220 V / 50 Hz

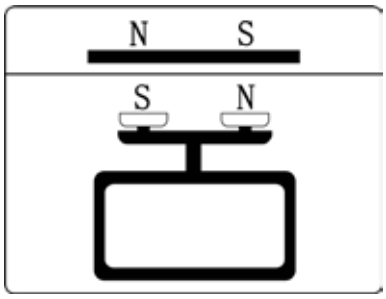
*Measured with 500 ml water at 80 °C

Standard includes, Hot plate / stirrer, stirrer bar

Inductive Magnetic Stirrer

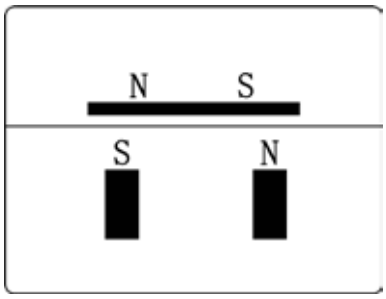
Inductive electromagnetic and pulsed current technologies ushered in a new era for magnetic stirring. The technology of generating a rotating magnetic field through electromagnetic induction. Compared to the traditional motor-driven magnets, electromagnetic induction offers advantages such as a longer service life, 100% maintenance-free operation, and enhanced tolerance for demanding conditions and so on.

Traditional Magnetic Stirrer VS. WIS Inductive Magnetic Stirrer

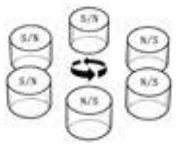


Traditional magnetic stirrer

Traditional magnetic stirrers use a motor to drive the rotation of magnets. The motor-driven with mechanically moving parts that are prone to wear and tear. Their operating environment must meet the working requirements of the motor, and the size is constrained by the dimensions of the motor and magnets. Additionally, the driving force is limited by the magnets.



WIS inductive magnetic stirrer



Electromagnetic coils

Pulsed current

The WIS (WIGGENS Induction/Intelligent Magnetic Stirrer) series magnetic drives operate using program-controlled pulsed current technology on multiple sets of electromagnetic coils to form a rotating magnetic field, driving a magnetic stir bar for mixing. WIS series are 100% wear- and maintenance-free. These drives contain no mechanically moving parts, such as bearings or motors. As a result, they are highly reliable and completely wear-free, even at high operating temperatures.

Inductive Magnetic Stirrer

The application of inductive electromagnetic and pulsed current technologies ushered in a new era for magnetic stirring. The technology of generating a rotating magnetic field through electromagnetic induction. Compared to the traditional motor-driven magnets, electromagnetic induction offers advantages such as a longer service life, 100% maintenance-free operation, and enhanced tolerance for demanding conditions and so on.

Compact Magnetic Stirrer for Large Volumes

Features

- > Maintenance-free mixing unit
- > Super-flat, space-saving design with a stainless steel surface
- > Ideal for long-term operation
- > Handles large volumes up to 40 L
- > WATCH function
  Stirrer detects a missing stirring bar during operation. If the stirrer is running but no bar is present in the container for 20 seconds, the system triggers an alarm.

Specifications

Model	WIS-1L
Display and control	LCD display button control
Stir position	1
Stirring capacity H_2O [ml]	500– 40,000
Stirring speed [rpm]	100-2000
Soft start	Adjustable 20-90S by steps in 10s
Mixing direction	Clockwise or counterclockwise
Stirring power Max. [W]	30
Time setting	Timer (0-99h59min59 sec) and Clock
Shell material	Stainless steel
Material sealing	PUR
Auto-start function	Yes
Watch function	Yes
Permitted operation conditions [air]	-10 up to +50 °C (at 80% humidity)
Communicate interface	RS232/485, Analog communication
Dimensions [W x D x H (mm)]	235x324x48
Weight [kg]	approx. 4.0
Protection rating	IP 64
Power supply	100-240 V / 50-60 Hz
Order. No	W3021041

Note: The stir bar is not included and need be ordered separately.

Compact Inductive Magnetic Stirrer

> Maintenance-free mixing unit.
> Super-flat, space-saving design with a stainless steel surface.
> Ideal for long-term operation.
> Adjustable stirring power output, geared towards both large/viscous volumes and reduced-power continuous operation.
> 4-step adjustable power output: 25%, 50%, 75%, 100%.

WIS-12L

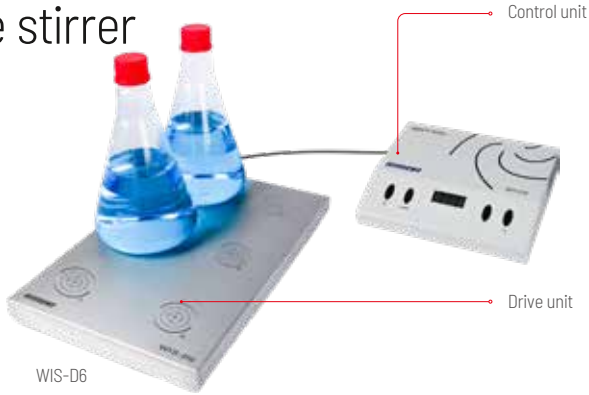
Specifications

Model	WIS-1	WIS-6	WIS-15	WIS-8L	WIS-12L
Display and control	LED Display with Key Operation				
Stir position	1	6	15	8	12
Stir position distance [mm]	_	130	65	90	90
Stirring capacity H_2O Max. [ml]	10,000	3,000	3,000	3,000	3,000
Stirring speed [rpm]	100-2,000	100-2,000	100-2,000	100-1,600	100-1,600
Stirring power [W]	20	20	20	20	20
Shell material	Stainless steel				
Material sealing	PUR				
Power setting	4-steps (25/50/75/100%)				
Voltage	100-240 V / 50-60 Hz				
Operating voltage	48V DC				
Permitted operation conditions [air]	-10 to 50 (at 80% humidity)				
Protection rating	IP 64				
Dimensions [W x D x H (mm)]	186x240x40	245x435x39	245x435x39	200x430x39	278x432x40
Weight [kg]	4.0	8.8	8.8	6.4	8.8
Order. No	W3031001	W3031006	W3031015	W3031008	W3031012

Note: The stir bar is not included and need be ordered separately.

Decoupled inductive magnetic drive stirrer

Decoupled magnetic stirrer offers maximum flexibility and durability. Its dedicated drive unit is built to withstand harsh conditions like immersion and extreme temperatures. A separate control unit, connected via a cable, allows for safe and convenient operation from a remote location.



WIS-D6

Control unit WIS-C20

Features

> The control unit controls the power output for standard stirrer units and multi-position stirrer systems.
> 4-Level Power Setting: High power is suitable for stirring large volumes and viscous solutions, while low power is ideal for the long-duration stirring of general media, preventing unwanted heat buildup.
> Soft-Start Mode: Ensures smooth and reliable positioning and acceleration of the stirrer.

Specifications

Model	WIS-C20
Control speed [rpm]	100-1600
Power setting	25/50/75/100% (level 4)
Shell material	Stainless steel
Voltage	100-240V/50-60Hz
Dimensions [W x D x H (mm)]	200x153x38
Operating conditions	0 to 40 °C (80% humidity)
Protection rating	IP20
Weight [kg]	1.9
Order. No	W3025020
Order. No [With RS232]	W3025021

Mini Drive unit (Submersible)

Fully sealed stainless steel housing: Rated IP68 for waterproof, dustproof, and antimicrobial performance. It features a robust structure, strong corrosion resistance, and is easy to clean. Suitable for immersion in water or oil baths, as well as use in CO_2 incubators and oven environments.

> UltraFlat Stirring System: 100% maintenancefree and wearfree, ideal for general stirring applications. Delivers smooth, jerkfree stirring even at low speeds.
> The drive unit is compact in size, making it suitable for operation in space-constrained environments.
> Two versions are available:
-Basic version: up to +50 °C
-HT version: up to +95 °C (in liquid) or +200 °C (in oven).

Model	WIS-DS1
Stir position	1
Stirring capacity H_2O [ml]	1-1000
Stirring power [W]	10
Operating conditions	-10 to 50 °C (100% humidity)
Operating conditions [High temperature model]	+95 °C (in liquid), +200 °C (in oven)
Shell material	Stainless steel
Voltage	48VDC
Dimensions [W x D x H (mm)]	48x48x18
Protection rating	IP 68
Weight [kg]	0.25
Order. No [Basic version]	W3020401
Order. No [HT version]	W3020411

Note: The stir bar is not included and need be ordered separately.

Drive unit (Submersible)

Fully sealed stainless steel housing: Rated IP68 for waterproof, dustproof, and antimicrobial performance. It features a robust structure, strong corrosion resistance, and is easy to clean. Suitable for immersion in water or oil baths, as well as use in CO_2 incubators and oven environments.

- > UltraFlat Stirring System: 100% maintenancefree and wearfree, ideal for general stirring applications. Delivers smooth, jerkfree stirring even at low speeds
- > Two versions are available:
  - -Basic version: up to +50 °C
  - -HT version: up to +95 °C (in liquid bath) or +200 °C (in oven)
- > Multi-position drivers capable of synchronous operation at the same speed

WIS-D6

Specifications

Model	WIS-D1	WIS-D6*	WIS-D15*	WIS-D60*
Stir position	1	6	15	60
Stir position distance [mm]	-	130	65	32.5
Stirring capacity H_2O [ml]	1-10,000	1-3,000	1-3,000	1-500
Stirring power [W]	20	40	40	40
Operating conditions [standard type]	-10 to 50 °C (100% humidity)			
Operating conditions [high-temperature type]	+95 °C (in liquid)/+200 °C (in oven)			
Shell material	Stainless steel			
Voltage	48VDC			
Dimensions [W x D x H (mm)]	180x180x38	245x375x33	245x375x33	245x375x33
Protection rating	IP 68			
Weight [kg]	3.3	9.5	8.9	9.5
Order. No [Basic version]	W3020001	W3020006	W3020015	W3020060
Order. No [HT version]	W3020301	W3020206	W3020215	W3020260

Note: The stir bar is not included and need be ordered separately.
*WIGGENS provides customized brackets for multi-position stirring.

Inline High-Shear Homogenizer

D-600 pro Inline

The D-600 Pro Inline Homogenizer is an in-line homogenizing equipment based on the rotor-stator principle. Its modular structure consists of a flow channel housing, a drive unit, a dispersion element, and a stand. It is suitable for inline processing and allows fast-reacting materials to be directly injected into the shear head. With this equipment, chemical and biological processes can be performed at temperatures up to 120 ℃ .

Features

- TFT digital speed display, Knob control, adjustable speed ranges from 500 to 25,000 rpm
- Features intelligent speed control, with output power adapting to changes in sample viscosity
- The dispersion chamber can withstand temperatures up to 120 °C
- The chamber can be cleaned, either by introducing cleaning agents or by disassembling it
- Maximum processing viscosity up to 1,000 cP
- The dispersion chamber is made of 316L stainless steel

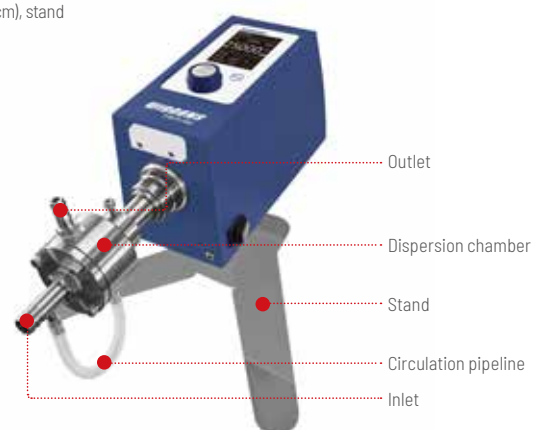
Specifications

Model	D-600 Pro Inline
Order No	W3050610
Display screen	TFT display screen
Speed with Zero-load [rpm]	500~25000
Range of conveying flow rate [L/min]	2-18
Working chamber capacity [mL]	20
Inlet barbed fitting dimensions [mm]	OD 14
Outlet barbed fitting dimensions [mm]	OD 10
Circulation barbed fitting dimensions [mm]	OD 6
Maximum chamber pressure [bar]	6
Noise [dB]	75
Power Input/ Output [W]	500 / 280
Operating temperature [℃]	0~40
Relative humidity [max.]	≤80% RH
IP code	IP 20
Communication interface	RS 232/485
Weight [kg]	4.5
Supply voltage [V]	220 V / 50 Hz
Dimensions [W x D x H (mm)]	400x269x261

Standard includes Homogenizer, Inlet pipeline / outlet pipeline (length 1.5 m), circulation pipeline (length 15 cm), stand

Accessories

Order.No	Part	Description
W3050612	Dispersion chamber	Volume 20 mL
W3050613	Stand	Stand (with fixings)
W3050614	Dispersing head	Diameter 25 mm
W3050615	Inlet pipeline	ID=13 mm OD=18 mm
W3050616	Outlet pipeline	ID=9 mm OD=13 mm
W3050617	Circulation pipeline	ID=5 mm OD=8 mm
W3050618	Handle-style clamping kit	6 pieces, used for securing piping



Laboratory mixer

WMA800

The WMA series is designed for intensive mixing, grinding, dispersing, homogenizing, emulsifying, and mincing operations, making the equipment suitable for routine analyses. The mixers achieve grinding results with particle sizes down to 1 µm or an ultimate fineness of 0.25 mm. Simple handling, high user safety, and enhanced efficiency.

Features

- Smooth rotational speed adjustment with an integrated on/off switch
- No-tools operation for mixing attachments and protective cover
- Compatible with various sample volumes through different mixing attachments
- Operation is only possible when the safety cover and lid are securely in place volumes
- Dampening quick coupling reduces operational vibration
- Quiet motor featuring integrated load, heat, and blockage protection
- Crucial results achieved through the production of very fine particle sizes in both liquid and dry media; precise analyses require homogeneous samples
- Achieving ultrafine grinding in liquid and dry media, yielding highly uniform samples

Specification

Model	WMA800
Display	Graduation
Speed range [rpm]	1000~17,000
Usable volume max. [mL]	4000
Sound level [dB(A)]	72 at 15,000 rpm
Protection Class according to DIN	IP 20
Supply voltage	230 V / 50 Hz or 100~120 V / 60 Hz
Drive power [W]	800
Drive dimensions [H/Ø]	245 mm / Ø 190 mm
Operating temperature [°C]	0~40
Maximum relative humidity	80%
Order no. (Without mixing attachments)	W3053111

Standard includes mixer only. Mixing attachments need to be ordered separately

Mixing attachments of stainless steel (for WMA800)

Mixing attachments

MBA 2000 (For WMA800), made of stainless steel, allow processing of larger amounts. Due to safety reasons, it is not possible to start the machine when the lid is open or open the machine when it is running. Additional sample material can be added during operation only via the integrated opening in the lid.

The blade head can be easily unscrewed for cleaning purposes.

High-performance stainless steel cutting blade assembly

The cutting blade assembly

The six polished premium steel rotor blades have been optimized for intense and quick processing for all types of samples. All parts that touch the product are made from stainless steel and can be easily detached and cleaned. Integrated stainless steel ball bearings ensure ease of movement and a perfectly true run. Power transmission occurs via a rubber cushioned plug coupling.

Gaskets

The standard gaskets are made from NBR material. Upon request, gaskets from EPDM, or viton are also available.

Order information and accessories

Laboratory mixer

Order no.	Product	Description
W3053111	WMA800	Without mixing attachments

Mixing attachments (for WMA800)

Mixing attachments MTS2000 to MTS4000 consist of Stainless steel container, gasket, blade head. as well as lid with opening for material addition.

Order no.	Product	Description
W3053605	MTS2000	Working volumes (2000 mL), Stainless steel container body
W3053606	MTS4000	Working volumes (4000 mL), Stainless steel container body

MTS2000 MTS4000

Humidity Chamber

The humidity chamber is designed to simulate complex environmental conditions, including low and high temperature as well as controlled humidity. It is suitable for stability testing and performance evaluation in materials, electronics, plastics, food, textiles, automotive, metal, chemical, and building material industries.

WHT-260

WHT-260

Features

- Equipped with PID temperature control and a single-stage refrigeration unit.
- Equipped with a large, high-resolution TFT touch display that includes a multilingual user interface
- Includes an integrated timer
- Chamber-contact components made of stainless steel
- Offers RS232/485 interface for remote control
- Real-time data can be recorded after connecting a USB drive
- Designed with heavy-duty Foma wheels for easy transportation and adjustable leveling
- Protection against overheating
- Early warning system for high and low temperature limits
- Autostart function allows the humidity chamber to restart automatically after a power interruption
- The circulating fan and heater stop operating when the outer door is opened

Specifications

Model	WHT-150	WHT-260	WHT-450	WHT-750
Order No.	W6045150	W6045260	W6045450	W6045750
Volume [L]	150	260	450	750
Temperature Range [℃]	+4~+60	+4~+60	+4~+60	+4~+60
Resolution of temperature [℃]	0.1	0.1	0.1	0.1
Temperature uniformity of working area [℃]	<±0.5	<±0.5	<±1.0	<±1.0
Cooling mode	With compressor	With compressor	With compressor	With compressor
Humidity range [% RH]	10~85 (from 25 ℃ to 55 ℃)	10~85 (from 25 ℃ to 55 ℃)	10~85 (from 25 ℃ to 55 ℃)	10~85 (from 25 ℃ to 55 ℃)
Resolution of humidity [% RH]	1	1	1	1
Humidity accuracy [% RH]	<±3	<±3	<±3	<±3
Humidity control	Automatic (auto-refill, evaporation and condensation control)			
Heating Capacity [W]	1350	1350	1400	1400
Max. Cooling Capacity [W]	300	550	550	550
Shelves [included / max.]	2/5	2/9	2/8	2/18
Max. load of each shelf [kg]	30	30	30	30
Timer	1 min ~ 999hr 59 min / continuous			
Interfaces	RS232/485	RS232/485	RS232/485	RS232/485
Operating temperature [℃]	10~35	10~35	10~35	10~35
Inner Dimensions [W x D x H (mm)]	560x500x535	600x500x800	1040x600x720	1140x599x1178
Outer Dimensions [W x D x H (mm)]	778x889x1228	861x882x1485	1300x1026x1269	1312x1064x1969
Weight [kg]	145	175	213	279
Power supply	220 V / 50 or 60 Hz	220 V / 50 or 60 Hz	220 V / 50 or 60 Hz	220 V / 50 or 60 Hz

Optional natural refrigerant version available
For ordering, please add "N" after the ordering number

Accessories

Order No.	Part	Description	Suitable for
W6041151	Perforated Shelf	Max. load up to 30kg	WH-15C/WH-150C/WHT-150
W6041261	Perforated Shelf	Max. load up to 30kg	WH-26C/WH-260C/WHT-260
W6041451	Perforated Shelf	Max. load up to 30kg	WH-45C/WH-450C/WHT-450
W6041751	Perforated Shelf	Max. load up to 30kg	WH-75C/WH-750C/WHT-750
W6041152	Reinforced perforated shelf	Max. load up to 60kg	WH-15C/WH-150C/WHT-150
W6041262	Reinforced perforated shelf	Max. load up to 60kg	WH-26C/WH-260C/WHT-260
W6041452	Reinforced perforated shelf	Max. load up to 60kg	WH-45C/WH-450C/WHT-450
W6041752	Reinforced perforated shelf	Max. load up to 60kg	WH-75C/WH-750C/WHT-750
W6041153	Illumination equipment	Cold white light, 0~100% adjustable, 10000 Lux, -20...+45 ℃	WHT series
W6041154	Inner power socket	230V/2.6A output, IP68	WHT series
W6041158	Water storage tanks	Includes 2 L water tank, filter lid, and water tube	WHT series
W6041159	Water tube	Connect humidity controller and water storage tanks	WHT series

Muffle Furnace

Standard version RT+15 ℃ ~1100 ℃

Hight temperature version RT+15 ℃ ~1600 ℃

Operation and Display

> Intelligent navigation operation for direct access to settings
> The main interface displays the set temperature, actual temperature, output power, historical data, alarm records, and other information, allowing convenient entry into the desired menu

Program

> Integrated temperature program with 10 profiles, each containing up to 30 steps
> Real-time display of the temperature curve

Data storage and connection

> Data storage, transfer, and invocation
> Experiment data and alarm information can be transferred via USB stick.
> Communication interfaces include RS232, RS485, and RJ45, allowing remote control via PC and SCADA

Safety

> Overheat protection (electronic and mechanical), overload and leakage protection, and self-diagnosis capabilities
> Password protection to prevent unauthorized changes to parameter settings
> Standard passive exhaust port to ensure gas pressure safety
> High-quality thermocouple for accurate temperature control and extended service life

Specification

Model		WMF-02	WMF-05	WMF-12	WMF-02H	WMF-05H	WMF-12H
Chamber volume [L]		2	4.5	12	3	4.5	12
	Temperature range [℃]	RT+15~1100	RT+15~1100	RT+15~1100	RT+15~1600	RT+15~1600	RT+15~1600
	Temperature stability [℃]	±1	±1	±1	±1.5	±1.5	±1.5
Heating	Heating	Heat on three sides			silicon molybdenum rods to heat from both sides		
	Temperature control	PID					
	Heating capacity [kW]	1.5	2.5	4	3	4.5	7
Program		Integrated temperature program, 10x30 steps					
Safety device		Overheat, Overload and leakage protection, Self-diagnosis, with password protection					
Temperature curve		Display the temperature curve in real-time					
Communication interface		RS232, RS485, USB-A for data export					
Power supply		Aviation connector of the power supply, AC220, 50/60Hz					
IP code		IP20					
Dimensions [W x D x H (mm)]		458x545x644	488x545x714	538x646x764	653x615x1140	663x651.37x1150	713x765x1201
Chamber dimensions [W x D x H (mm)]		120x200x80	150x200x150	200x300x200	140x150x140	150x200x150	200x300x200
Weight [kg]		38	45	67	136	154	194
Order No.		W6121002	W6121005	W6121012	W6122002	W6122005	W6122012

Recommended material tray for high-temperature heating.
Standard includes, Oven and Material tray.

Accessories & Options

Order No.	Name	Description	
W6121P0030	Material tray	Used to place materials	Suitable for WMF-02
W6121P0031	Material tray	Used to place materials	Suitable for WMF-02H
W6121P0032	Material tray	Used to place materials	Suitable for WMF-05/05H
W6121P0033	Material tray	Used to place materials	Suitable for WMF-12/12H

Refrigerator for Chemicals

For the storage and cooling of chemicals and hazardous substances

WIGGENS refrigerators for chemicals are specifically designed for the storage and cooling of hazardous substances. The spark-free interior minimizes the risk of damage from spilled or evaporating chemicals.

Features

> Spark-free interior
> Designed for storing and cooling hazardous substances
> Self-protecting control circuit
> Digital temperature display (LED)
> Overload protection for the cooling compressor
> Sensors protected against short circuits and disconnection
> Door lock to prevent unauthorized access
> Equipped for use with a thermometer or digital thermometer for accurate temperature measurement and long-term monitoring

Specifications

Model	KRC50	KRC180	KRC260	KRC360	KRC540
Order No.	W6131050	W6131180	W6131260	W6131360	W6131540
Working Temperature Range [°C]			-2~+12		
Temperature selection / display			Digital / LED		
Temperature stability [°C]			±1		
Temperature resolution [°C]			0.1		
Volumetric Capacity Liters	50	180	260	360	540
Number of shelves	2	3	4	5	5
Chamber dimension [W x D x H (mm)]	42x29/44	52x40/70	55x49/100	55x49/135	70x60/135
Overall dimension [W x D x H (mm)]	660x627x672	770x695x947	770x695x1237	770x695x1632	919x803x1704
Weight [kg]	32	36	65	85	120

Standard includes, Refrigerator, Shelves and Remote controller.
Test conditions, room temperature 20-25 °C .

WI-control software

WI-control is software designed for controlling devices, automating processes, and documenting measurements and results. It integrates WIGGENS laboratory devices and supports devices from other manufacturers. The software can network up to 128 devices simultaneously via a single PC, enhancing the efficiency and ease of automating laboratory experiments and processes.

Save time and improve efficiency

On the PC, you can automate laboratory processes, store custom recipes and data, manage workflows, and perform calculations during experiments. All connected devices can operate in cascade mode, allowing machines to automatically function when specified conditions are met.

Increase safety

Safety conditions can be configured to trigger alarms or shutdowns when activated, triggering alarms or shutdowns when activated. In remote operation, you can control complex reactions from a safe distance. The numerous automation options for recipes and processes enhance process reliability, improve user safety, and increase the reproducibility of all procedures.

Real-time data recording and secure storage

Measurement data generated during a process can be exported in XLS and PDF formats for documentation and further analysis. All operations and changes to settings are recorded, facilitating the repetition of the experimental process.

System requirements

The WI-control software can be installed on any PC that meets the following system requirements.

System requirement	Minimum	Recommended
Operating system	Windows®7 or later, 32-bit	Windows®7 or later, 64-bit
Memory	2 GB	4 GB
Processor	2.5 GHz dual-core processor	2.5 GHz 4-core processor
Interfaces	1 x USB or 1 x RS232	depending on the number of units controlled
Display	6,500 colors	16 million colors
Screen resolution	1,400 x 1,050 pixels	1,680 x 1,050 pixels

WIGGENS
THE MAGIC MOTION

GAS GENERATORS

H_2, N_2, O_2, Compressor, Purified Air, and Zero Air

- Hydrogen generator (PEM technology)
- Hydrogen and Zero Air Generator (Two-in-One)
- Nitrogen Generator (PSA Technology or Hollow Fiber Membrane)
- Nitrogen and Zero air generator (Two-in-one)
- Compressor and purified air system
- Zero air generator / Ultra zero air generator

H_2 GENERATOR

Purity: 99.9996% or 99.99996%
Flow rate: 100mL/min-20 L/min
General Version, Flat Version, Tower Version, and 19" Rack Version

N_2 GENERATOR

Flow rate: 100 mL/min-20 L/min
Purity: 95-99.9999%

O_2 GENERATOR

Flow rate: 6 L/min, 10 L/min
Density: 95%

ZERO AIR GENERATOR

Flow rate: 1.5-30 L/min
HC & CO Content: < 0.05 ppm
CO_2 Content: < 1 ppm
NO_x SO_x Content: < 0.1 ppm

COMPRESSED AIR SYSTEM / PURIFIED AIR SYSTEM

Flow rate: 20-900 L/min
Pressure: 5 - 10 bar

Product brochure
online at
www.wiggens.com

ChemTron
A brand of Wiggens

CHEMTRON ANALYTICS

ChemTron
A brand of Wiggens

Rotational Viscometer

Provides professional and accurate viscosity measurements tailored to your specific requirements.

Falling Ball Viscometer

The Viscoball precisely measures the viscosity of transparent Newtonian liquids and gases using a specialized ball.

Automatic Viscosity Measurement System

(Capillary viscometer)

Semi-automatic or automatic viscosity measurement system.

Density Meter

Portable Density / Specific Gravity / Concentration Meter

pH / Cond. / DO Meter

Precise, reliable, and selective in the lab and in the field

Refractometer

Scale Handheld Refractometer | Digital Refractometer

Titrators, Auto Sampler, Software and Electrodes

With its broad performance range, the Chemtron titrator is well suited for potentiometric titration and offers extensive possibilities for expansion and automation. Its high-resolution, precise pH/mV, and "dead-stop" measurement interface enable swift, reliable, and accurate determinations of a multitude of parameters.
Chemtron titrators are typically known for their precision, ease of use, and capability to handle a wide range of titration applications.

- Burettes and Titrators
- Burettes and Titrators with interchangeable unit
- Karl Fischer Titration
- Sample changers and accessories
- Titration software
- Electrodes for Titration
- Related reagent

CHEMTRON REACTION & PURIFICATION SYSTEM

Featuring Reactors from Lab to Production Scale

Energy | Petrochemical | Life Sciences | Cosmetics | Pharmaceutical | Environmental

Glass Reactor and Peripheral Units

ChemTron
A brand of Wiggens

These systems are essential tools for research, scale-up, and production across a wide range of scientific disciplines. Designed for maximum diversity and ease of use, we have developed a simple base system building platform that allows each reactor system to be customized.

- Bench-top glass reactor (250 mL-5 L)
- Pilot plant glass reactor (10-100 L)
- Glass spherical reactor (up to 200 L)
- Glass industrial production equipment
- Glass filter reactor (150 mL-150 L)
- Glass pressure reactor (up to 6 L)
- Homogenization reactor
- Ultrasonic, photochemical and hydrogenation reactor
- Parallel reaction station
- Stirrer & Pump
- Dosing unit
- pH measurement and control
- Auto reaction software

Stainless Steel Reactor and Peripheral Units

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The requirements of our customers for the reaction vessels are as varied as the respective processes which are carried out in them. In recent decades, we have developed a modular system with standardized connection components, in order to economically implement individual solutions. This greatly simplifies the design and construction of our custom-made products.

- High-pressure reactor, up to 200 bar
- Low pressure reactor , up to 25 bar
- Stainless steel reactor for atmospheric pressure or vacuum
- Nutch filter reactor
- Temperature control system
- Stirrer unit: mechanical or magnetic coupling
- Dosing unit
- Ball valve, needle valve, solenoid valve, pneumatic valve
- Auto reaction software

WIGGENS
THE MAGIC MOTION

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