

# Rotary evaporators

회전 증발 농축기

## RE100-Pro Rotary evaporator



▶ RE100-Pro



▶ LCD display

### Features

- Easy to read large digital LCD screen displays heating temperature, rotation speed and timing
- Speed range from 20 to 280 rpm
- Large 5L water-oil heating bath with heating temperature range of RT to 180°C and safety temperature 220°C
- Heating bath with precise temperature control and adjustable safety circuit
- Patented condenser (cooling surface 1,500cm<sup>2</sup>) with excellent cooling effect
- Motorized lift with quick-action, automatic release evaporating ask to top position in case of power failure
- Adjustable final position recognition to protect operator and sample against breakage
- Evaporating flask with an ejector, convenient to remove
- Available with timer function to precise control processing
- Chemical-resistant double PTFE system and patented pressure spring provide excellent sealing
- PC can control and document all parameters via USB

### Specification

Model	RE100-Pro
Cat. No.	611112220000
Voltage [VAC]	100-120/200-240
Frequency [Hz]	50/60
Power [W]	1400
Motor Principle	DC brushless motor
Speed Range [rpm]	20-280
Speed Display	LCD
Reversible Direction of Rotation	Yes
Heating Temperature Range [°C]	RT-180
Heat Control Accuracy [°C]	±1
Heat Output [W]	1300
Temperature Display	LCD
Lift	Motor
Stroke [mm]	150
Timer	Yes
Timer Display	LCD
Time Setting Range [min]	1-999
Overall Dimensions [ DxWxH mm]	465x457x583
Weight [kg]	15
USB	Yes

### Heating Bath

- Large 5L water/oil heating bath can reach up to 3L flask
- The heating bath available controls via integrated operating panel
- Heating temperature range of RT to 180°C and safety temperature 220°C
- Heating bath with precise temperature control of ±1°C
- Heating bath designed a double wall with corrosion resistant coated to prevent burning and scalding



Model	Heating Bath
Heating Temperature Range [°C]	RT-180
Heat Control Accuracy [°C]	±1
Heat Output [W]	1,300
Temperature Display	LCD
Safety Temperature [°C]	220
Volume [L]	5

▶ Optional accessories (page 2)

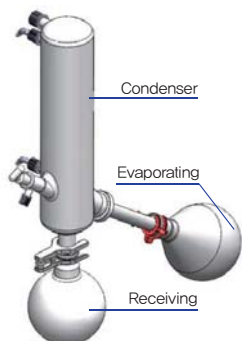
# Rotary evaporators

Accessories

## Accessories

### Glassware

#### ▶ Compact vertical condenser for all standard distillations



Condenser type: vertical  
Cooling surface: 1500 cm<sup>2</sup>  
Cat. No: 18900165

#### ▶ Evaporating flask, NS 29/32



Cat. No.	Volume
18300116	50ml
18300117	100ml
18300118	250ml
18300119	500ml
18300120	1,000ml
18300121	2,000ml
18300122	3,000ml

#### ▶ Receiving flask, KS 35/20



Cat. No.	Volume
18300107	100ml
18300108	250ml
18300109	500ml
18300110	1,000ml
18300111	2,000ml

#### ▶ Connector, NS 29/32



Cat. No.	Size
18300094	29/24
18300095	29/19
18300096	29/14

#### ▶ Foam brake, 250ml NS 29/32 Cat. No: 18300093



#### ▶ Vapor tube NS 29/32 Cat. No: 18300097



#### ▶ Seal Cat. No: 18300098



### Vacuum pump



Model	Vacuum pump	
Cat. No.	18200743	
Voltage [V]	110/220	
Frequency [Hz]	50/60	
Power [W]	95	
Pump Speed	0 mmHg	25 L/min
	100 mmHg	22 L/min
	200 mmHg	20 L/min
	300 mmHg	12 L/min
	400 mmHg	7.5 L/min
	550 mmHg	5 L/min
Maximum Vacuum [mbar]	13	
Suction Nozzle Size [mm]	8	
Motor speed [rpm]	1,450	
Weight [kg]	7	
Noise [dB]	50	

### Recirculating chiller



Model	F250	
Cat. No.	18200746	
Temperature range [°C]	-10 ~ +40	
Temperature stability [°C]	± 0.5	
Temperature display	LED	
Pump capacity flow rate [l/min]	15	
Pump capacity flow pressure [bar]	0.35	
Cooling capacity	20 °C	0.25 KW
	10 °C	0.22 KW
	0 °C	0.21 KW
	-10 °C	0.18 KW
	-20 °C	0.09 KW
Filling volume [L]	1.7 ~ 2.6	
Weight [kg]	27	
Dimensions [WxLxH mm]	240x400x520	

# Rotary evaporators

회전 증발 농축기

**참고 방출 가격 세일 !**

## RV 10 basic V/D, RV 10 digital V/D Rotary evaporators



▶ RV 10 basic V



▶ RV 10 digital D

### Features

- Analogue heating bath with adjustable safety circuit, stand alone operation is possible, pivoting safety hood as an accessory
- Safe and simple operation by means of ergonomically shaped control unit in the front
- Motorised lift (stroke 140 mm) with safety stop function, if the power cuts out the evaporator flask is automatically lifted out of the heating bath
- Adjustable end position recognition to protect the glass from breaking
- Speed range from 20 to 270 rpm
- Digital speed display
- Timer function for time lapse control
- Water/oil heating bath with integrated carrying handles for safe handling
- Cooling surface 1,200 cm<sup>2</sup>
- Digital temperature display (RV 10 digital)

### Specifications

Model	RV 10 basic	RV 10 digital
Ident. No.	8022300 (V, vertical) 8022400(D, diagonal)	8022500 (V, vertical) 8022600 (D, diagonal)
Cooling surface	1.200 cm <sup>2</sup>	1.200 cm <sup>2</sup>
Motor type	brushless DC drive motor	brushless DC drive motor
Motor rating input	50 W	50 W
Speed range	20 – 270 rpm	20 – 270 rpm
Speed display	digital	digital
Right and left movement / interval operation	yes	yes
Smooth start	yes	yes
Head angle adjustable	0 – 45°	0 – 45°
Stroke displacement	140 mm, motorised	140 mm, motorised
Setting of lower end stop	60 mm, contact-free	60 mm, contact-free
Vacuum controller	accessories	accessories
<b>Heating bath</b>	<b>HB 10 basic</b>	<b>HB 10 digital</b>
Temperature range	RT – 180 °C	RT – 180 °C
Heating power	1.300 W	1.300 W
Controller	capillary tube controller	micro controller
Temperature display	scale	digital
Setting accuracy	scale	1 K

## RV 10 control V/D Rotary evaporators



▶ RV 10 control V



▶ RV 10 control D

### Features

- Integrated vacuum controller with central display for automatic distilling and ramp programming
- Integrated solvent library, which can be extended by the user
- Distillation specific parameters stored for standard distillation
- Automatic transfer of measurements and distillation type with one key press
- Programmable volume controlled distillation
- Automatic boiling point recognition
- Colour graphic display for safe and comfortable operation
- Display of distillation curves
- Automatic ventilation at the end of the test
- Cooling water switched off automatically at the end of the test
- Integrated cooling water monitoring
- Heating bath safety management: automatic heating bath monitoring with distillation stop in case of temperature errors

### Specifications

Model	RV 10 control
Ident. No.	8022700 (V, vertical) 8022800(D, diagonal)
Cooling surface	1.200 cm <sup>2</sup>
Motor type	brushless DC drive motor
Motor rating input	50 W
Speed range	20 – 270 rpm
Speed display	digital
Right and left movement / interval operation	yes
Smooth start	yes
Head angle adjustable	0 – 45°
Stroke displacement	140 mm, motorised
Setting of lower end stop	60 mm, contact-free
Vacuum controller	integrated
<b>Heating bath</b>	<b>HB 10 control</b>
Temperature range	RT – 180 °C
Heating power	1.300 W
Controller	micro controller
Temperature display	digital
Setting accuracy	1 K

# Heating blocks & Simple synthetic Reactors

## SYNIC® MR6-100 System

*Stirring and heating up to 6 x 100ml round bottomed flask*

### Features

- Simultaneously performs up to six heated and stirred
- Individual 100ml reactor flask have a maximum working volume of 60ml ~ 70ml per flask
- Solid phase stirred reaction
- Fit hotplates stirrer, using reaction
- Water cooled traditional glass reflex condenser
- Central inlet/outlet for vacuum and inert gas included middle assembly
- Easy to operating and set-up
- Minimal training time

▶ Optional accessories (page 8)

### Specification

Model	SYNIC® MR6-100 System
Cat. No.	K4176000
Diameter (Ø x H mm)	200 x 47 mm
Height	160 mm
Weight	7.5 kg
Position	6
100ml Round flask	6
250ml Reflex condenser	6
Stirring speed	50 ~ 1,500 rpm
Temp. Range	RT 320 °C
Working temp	RT 180 °C



Basic system components	
Model.	Ident. No.
KHS 5-1 digital	K310001
100ml Table placement	KPT-MR06100
Vacu & gas line (with & without)	
100ml Upper placement	KPT-MR0610U
100ml Vacu.& gas Upper placement	KPT-MR0610G

# Heating blocks & Simple synthetic Reactors

## SYNIC® MR4-250 System

Stirring and heating up to 4 x 250ml round bottomed flask

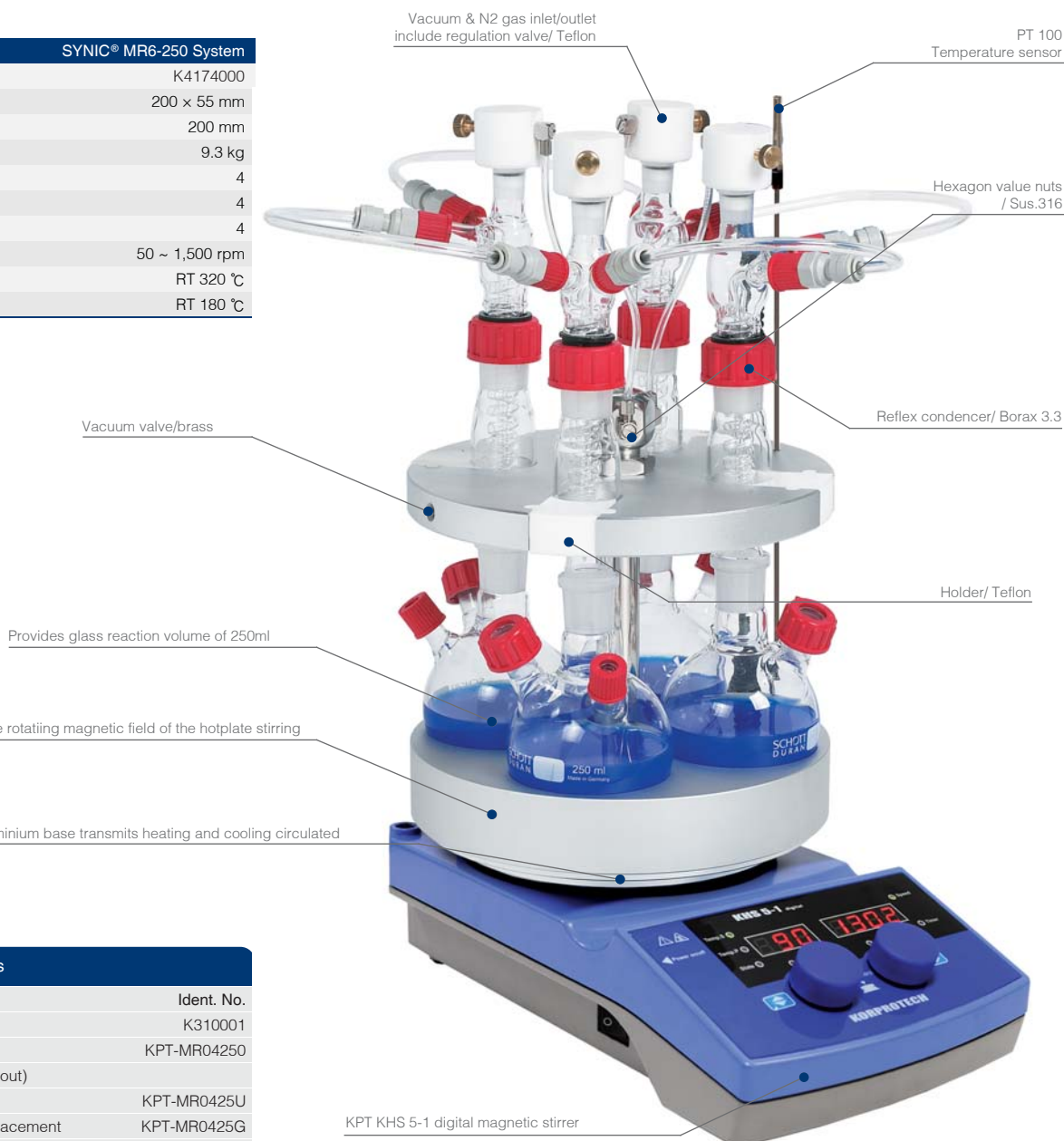
### Features

- Simultaneously performs up to four heated and stirred
- Individual 250ml reaction flask have a maximum working volume of 140ml ~ 180ml per flask
- Solid phase stirred reaction
- Fit hotplates stirrer, using reaction
- Water cooled traditional glass reflex condenser
- Central inlet/outlet for vacuum and inert gas included middle assembly
- Easy to operating and set-up
- Minimal training time

Optional accessories (page 8)

### Specification

Model	SYNIC® MR6-250 System
Cat. No.	K4174000
Diameter (Ø x H mm)	200 x 55 mm
Height	200 mm
Weight	9.3 kg
Position	4
250ml Round flask	4
130ml Reflex condenser	4
Stirring speed	50 ~ 1,500 rpm
Temp. Range	RT 320 °C
Working temp	RT 180 °C



#### Basic system components

Model.	Ident. No.
KHS 5-1 digital	K310001
250ml Table placement	KPT-MR04250
Vacu & gas line (with & without)	
250ml Upper placement	KPT-MR0425U
250ml Vacu.& gas Upper placement	KPT-MR0425G

# Heating blocks & Simple synthetic Reactors

## SYNIC® MR12-30 System

*Stirring and heating up to 12 x 30ml glass tube*

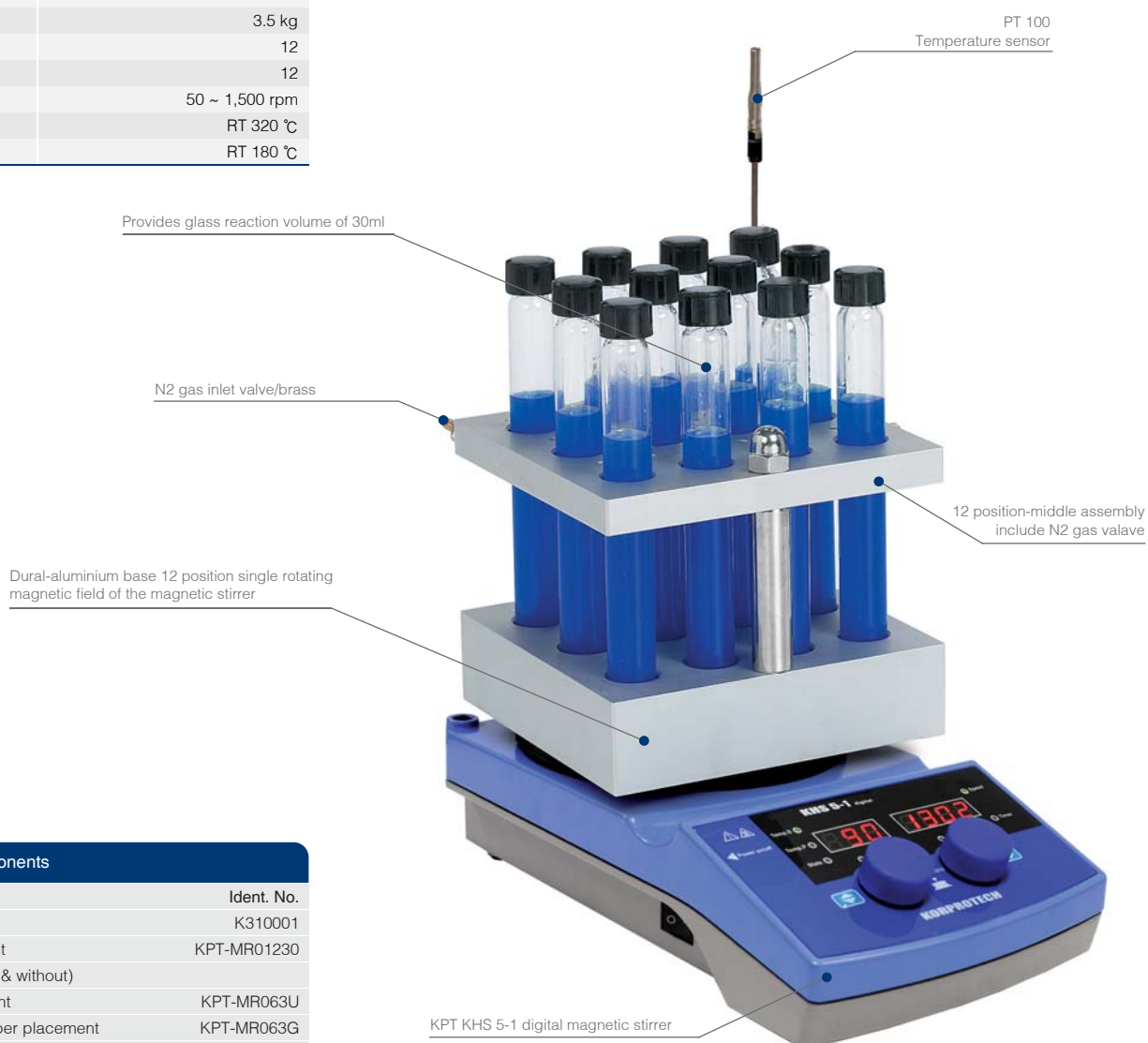
### Features

- Simultaneously performs up to twelve heated and stirred
- Individual 30ml glass tube have a maximum working volume of 10ml ~ 20ml per flask
- Solid phase stirred reaction
- Fit hotplates stirrer, using reaction
- Bio-peptide and organic sythesis are now under ever more N2 gas
- Central inlet/outlet for inert gas included middle assembly
- Easy to operating and set-up
- Minimal training time

▶ Optional accessories (page 8)

### Specification

Model	SYNIC® MR12-30 System
Cat. No.	K4171200
Diameter (Ø x H mm)	150 x 155 mm
Height	125 mm
Weight	3.5 kg
Position	12
30ml glass tube	12
Stirring speed	50 ~ 1,500 rpm
Temp. Range	RT 320 °C
Working temp	RT 180 °C



#### Basic system components

Model.	Ident. No.
KHS 5-1 digital	K310001
30ml Table placement	KPT-MR01230
Vacu & gas line (with & without)	
30ml Upper placement	KPT-MR063U
30ml Vacu.& gas Upper placement	KPT-MR063G

# Heating blocks & Simple synthetic Reactors

## SYNIC® MR ICE-BASE 6-100 & 4-250 System Stirring and heating up to 6 x 100ml & 4 x 250ml flask

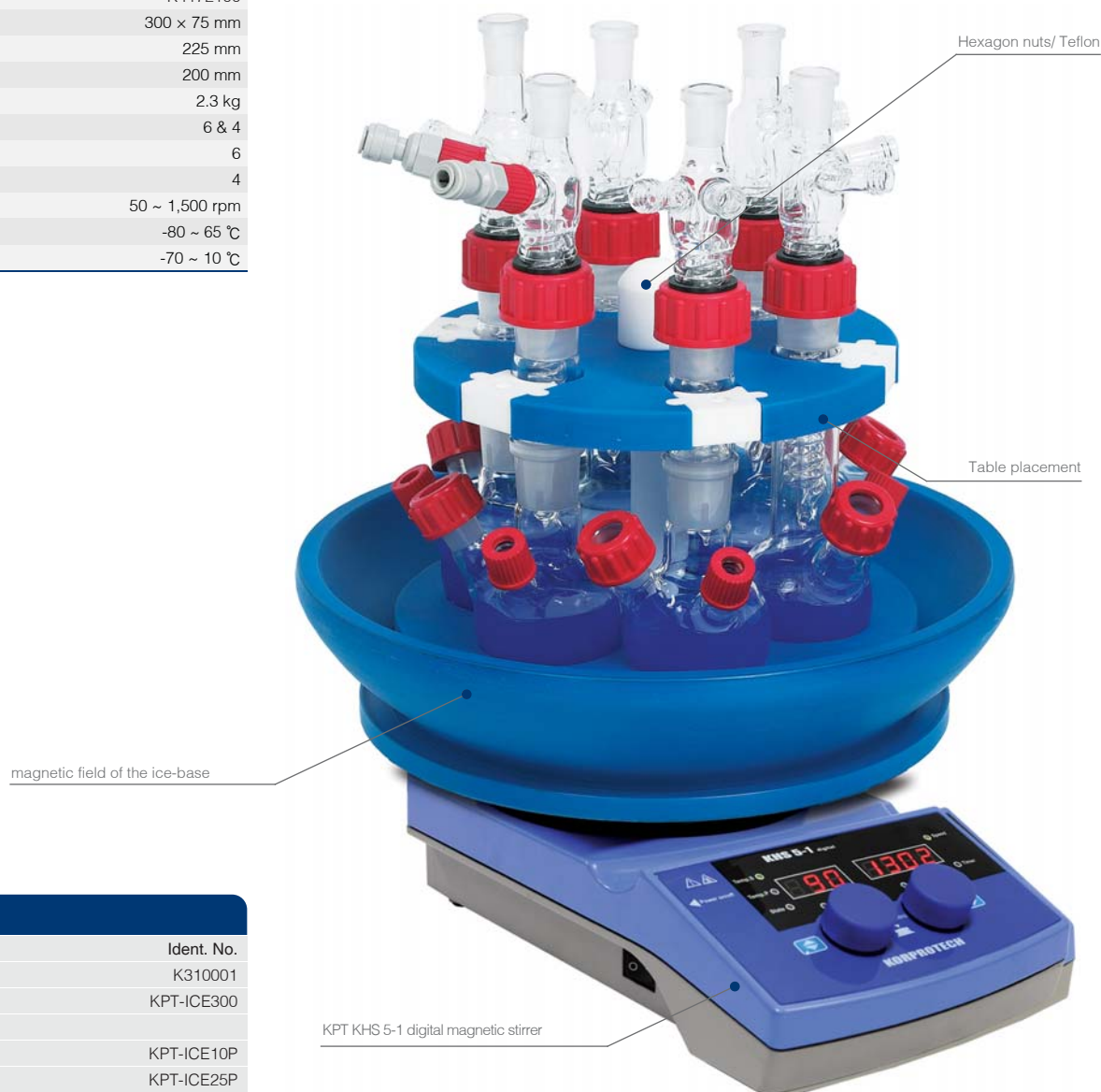
### Features

- Simultaneously performs up to six & four heated and stirred
- Individual 100ml & 250ml flask have a maximum working volume of 60ml ~ 70ml & 140ml ~ 180ml per flask
- Solid phase stirred reaction
- Fit hotplates stirrer, using reaction
- organic sythesis are now under ever cooling
- Easy to operating and set-up
- Minimal training time

Optional accessories (page 8)

### Specification

Model	SYNIC® MR ICE-BASE 6-100&4-250 System
Cat. No.	K4172100
Diameter (Ø x H mm)	300 x 75 mm
Height	225 mm
Hole of diameter(Ø)	200 mm
Weight	2.3 kg
Position	6 & 4
100ml glass flask	6
250ml glass flask	4
Stirring speed	50 ~ 1,500 rpm
Temp. Range	-80 ~ 65 °C
Working temp	-70 ~ 10 °C







#### Basic system components



Model.	Ident. No.
KHS 5-1 digital	K310001
Ice-base placement	KPT-ICE300
Classification of flask	
100ml Table placement	KPT-ICE10P
250ml Table placement	KPT-ICE25P

# Heating blocks & Simple synthetic Reactors

Accessories

## Accessories

							
100ml Long neck flask Classification of flask	100ml Short neck flask Classification of flask	250ml Long neck flask Classification of flask	250ml Short neck flask Classification of flask				
Description	Ident. No.	Description	Ident. No.	Description	Ident. No.	Description	Ident. No.
1 neck flask	KPT-MFL601	1 neck flask	KPT-MFS601	1 neck flask	KPT-MFL401	1 neck flask	KPT-MFS401
2 neck flask	KPT-MFL602	2 neck flask	KPT-MFS602	2 neck flask	KPT-MFL402	2 neck flask	KPT-MFS402
3 neck flask	KPT-MFL603	3 neck flask	KPT-MFS603	3 neck flask	KPT-MFL403	3 neck flask	KPT-MFS403

							
Reflex Condenser Classification of product	Dropping funnel Classification of product	Vacu. & Gas regulator valve Classification of product	Middle glass tube for short neck Classification of product	Teflon holder Classification of product			
Description	Ident. No.	Description	Ident. No.	Description	Ident. No.	Description	Ident. No.
Reglex Condenser	KPT-MMC140	Dropping funnel	KPT-MDF030	Regurator valve	KPT-MRV035	100ml expenditure	KPT-MRM610
						250ml expenditure	KPT-MRM425
						100ml expenditure	KPT-MTH610
						250ml expenditure	KPT-MTH425

## Accessories parts

Description	Ident. No.
100 ml Table placement	KPT-MR06100
100 ml Upper placement	KPT-MR0610U
100 ml Vacu.&gas Upper placement	KPT-MR0610G
250 ml Table placement	KPT-MR04250
250 ml Upper placement	KPT-MR0425U
250 ml Vacu.&gas Upper placement	KPT-MR0425G
30 ml Table placement	KPT-MR01230
30 ml Upper placement	KPT-MR063U
30 ml Gas Upper placement	KPT-MR063G
Ice base placement	KPT-ICE300
100 ml Table placement	KPT-CE10P
250 ml Table placement	KPT-ICE25P
30ml Test tube	KPT-MTT30

## Consumption accessories parts

Description	Ident. No.
Upper plate O ring 110	KPT-PO11
Upper plate O ring 090	KPT-PO09
Gas & Vacu. O ring 040	KPT-GV04
support bar O ring 013	KPT-SB03
Gas inlet/outlet Fitting	KPT-N4M5
Circulator silicon connector	KPT-SC06
Circulator Urethane connector	KPT-US06
Silicon tube	KPT-ST06
Urethane tube	KPT-UT06



# Heating blocks

## MS7-H550-Pro BlueSpin LCD Digital Magnetic Hotplate Stirrer with heating blocks



▶ MS7-H550-Pro

### Specification

Model	MS7-H550-Pro
Cat. No.	813223020000
Dimension of work plate [mm]	184x184 (7 inch)
Work plate material	Glass ceramic
Motor type	DC brushless motor
Motor rating input [W]	18
Motor rating output [W]	10
Power [W]	1,050
Voltage [VAC]	100-120/200-240
Max. stirring quantity[H <sub>2</sub> O], L	20
Speed range [rpm]	100-1,500
Speed display	LCD
Heating output [W]	1,000
Heating temperature range [°C]	RT-550, increment 1
Safety temperature [°C]	580
Temperature display	LCD
External temperature sensor	PT1000
Remote control (RS232 interface)	Yes
Dimension [W x D x H] mm	215x360x112
Weight [kg]	5.3

## Accessories, BlueSpin Magnetic Hotplate Stirrer



Model	Blue carrying plate	Blue Fixed ring	Red quarter pie	Purple quarter pie	Blue quarter pie	Black quarter pie
Cat. No.	18900001	18900065	18900002	18900003	18900004	18900005
Descriptions	Use with color quarter pies	use with color quarter pies	11 holes, 4 ml reaction vessel, Ø15.2mm, 20mm depth	4 holes, 20 ml reaction vessel, Ø28mm, 24mm depth	4 holes, 30 ml reaction vessel, Ø28mm, 30mm depth	4 holes, 40 ml reaction vessel, Ø28mm, 43mm depth
			Magnetic hotplate stirrers are available to hold quarter color pies (volume range from 4ml to 16ml) and reaction blocks (volume range from 50ml to 500ml), which ensure uniform heating distribution and excellent resistance to chemicals. The color pies and blocks with aluminum material which are easy to clean and safety for lab.			

Used with Model						
MS7-H550-Pro			○	○	○	○
MS7-H550-S			○	○	○	○
MS-H-Pro+	○	○	○	○	○	○
MS-H-S	○	○	○	○	○	○
MS-H280-Pro						



Model	Green quarter pie	Golden quarter pie	Reaction block for 50ml	Reaction block for 100ml	Reaction block for 250ml	Reaction block for 500ml
Cat. No.	18900048	18900049	18101006	18101007	18101008	18101009
Descriptions	6 holes, 8ml reaction vessel, Ø17.8mm, 26mm depth	4 holes, 16ml reaction vessel, Ø21.6mm, 31.7mm depth	50ml round bottom flask (one flask capacity)	100ml round bottom flask (one flask capacity)	250ml round bottom flask (one flask capacity)	500ml round bottom flask (one flask capacity)
			Magnetic hotplate stirrers are available to hold quarter color pies (volume range from 4ml to 16ml) and reaction blocks (volume range from 50ml to 500ml), which ensure uniform heating distribution and excellent resistance to chemicals. The color pies and blocks with aluminum material which are easy to clean and safety for lab.			

Used with Model						
MS7-H550-Pro	○	○				
MS7-H550-S	○	○				
MS-H-Pro+	○	○	○	○	○	○
MS-H-S	○	○	○	○	○	○
MS-H280-Pro			○	○	○	○