



CHANGSHA KETHINK S&T CO.,LTD. PA WETHINK WETHINK WETHINK WETHINK ETHINK KETHINK KETHINK KETHINK KETHINK KETHINK

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KELHIMA KELHIMA Product Name: Laboratory Centrifuge

Product Model

control system, centrifugal chamber, driving system, rotor, refrigeration system (in refrigerated medical centrifuge) and safety protection

Applicable People:

KETHIMA KETHIMA KETHIMA KETHIMA KETHIMA KETHIMA This product is only applicable to trained professional operators and KETHINK Jonal operators are forbidden to use.

Warning & Suggestive Content: display on device screen.

Operation Instruction: See above

Label & Package:

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Label & Package:

Please read the instruction.

Storage Condition & Method:

KETHINK KITINK KITI Store in the room which is ventilated, dry, light-proof and free KETHIMA KITIMA KETHIMA KITIMA KETHIMA KITIMA KIT of corrosive gas. KETHINK KETHINK KETHINK KETHINK KETHINK

Warranty: 1 Year.

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Precautions & Security Warnings

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- 1) Please read the operation instruction handbook before use.

 2) To avoid instrument failure, DO NOT keep temperature or dustrial.
- 3) DO NOT move or open its door when instrument is running.
- 4) Instrument should be put in solid & flat desktop, four rubber feet should be in contact with the desktop with uniform stress.
- 5) Keep liquid volume in centrifuge tubes the same by visual inspection. A large vibration will occur if liquid volume is uneven. Instrument must be stopped immediately, check liquid volume to make sure they are the same, centrifuge tubes must be placed symmetrically in even numbers.
- 6) Open instrument door and keep inner cavity clean and dry after use.
- 7) Instrument use power supply must have a reliable grounding line. RETHINK RETHIN KETHINK KITINK KITI

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Safety Warning:

1) To avoid damage in instrument mechanical or electrical part, **DO NOT**

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- 2) To avoid damage in instrument mechanical or electrical part, DO NOT keep instrument in damp/ high temperature.
- 3) To avoid instrument damage, When separate acidic or alkaline substances, **DO NOT** spill it into instrument cavity.
- 4) **DO NOT** use if there is crack on rotor body / hanging cup.
- Under the situation of large rotor weighing error / unbalanced rotors, operation is forbidden.
- 6) To avoid accidents, exceed the maximum speed set by the rotor and operate instrument is forbidden.

After Sales Service:

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- 1) 1 year warranty (within one year from the date of purchase).
 2) If damage NOT cause ' ' damage, we promise to bear all the costs within warranty period. After warranty period, only maintenance costs. KETHINK KETHINK KETHINK KETHINK KETHINK KETHINK KETHINK KETHINK KETHIMA KITIMA KETHIMA KETHIMA KETHIMA KITIMA K KETHINK KETHINK

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ETHINK KETHINK KT-TD6AWS centrifuge bench top low speed (hereinafter referred to as the instrument) adopts the principle of centrifugal sed:

olution density of differe ETHINK KETHINK solution density of different particles separation, enrichment and purification. It is widely used in clinical medicine, biochemie*

engineering, radiation immunological sections are separation immunological sections. of different particles separation, enrichment and purification. It is widely used in clinical medicine, biochemistry, genetic engineering, radiation immunology, etc, is an ideal instance. engineering, radiation immunology, etc, is an ideal instrument for scientific research institutes, hospitals, the ideal instrument. instrument. RETHINK KETHINK exi kerihim ke ant KELHIMA KELIMA K

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2. N	lain Technical Parameters	KELHIMA KELHIMA KELHIMA KELHIMA	ETHIM
ETHIM EXIT	Type	KT-TD6AWS	ETHIM
HIM H	Max Speed	6000rpm	HIM
	Max RCF	5180xg	KEI!
ETHIM'S ETHI	Max Capacity	4*500ml	ETHIM
1. 1/4 1.	Speed Accuracy	±20rpm	- 14/4
ELL, ELL	Timer Range	1-99min	KELIH.
THIM THI	Display	THINK THED THINK THINK	THIM
依 体	Motor	AC frequency conversion	- Th
ETHIL ETHI	Power	600W	KEIHIII
WINT W	Noise A		HIM
	Voltage	AC 220V 50HZ 10A	FELHINA FELHINA



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1		KEI	KE	KI	KELL	KI
KETI	HINK ETHIM	LETHIN!	KETHINK	Table T	op Low Spe	eed Centrifug
UNA.	Net Weight	- WA	HIM	50K	g HH	· WILL
Instr	rument Dimens	ion	620*5	520*390(L*W*H)	mm

- 1) The instrument adopts brushless DC motor, no spark,carbon dust pollution & low noise during running, perfectly meet the requirement the laboratory work.

 Adopt Adopt ETHINK KETHINK ETHINK KETHINK pollution & low noise during running, perfectly meet the requirements of the laboratory work.

 2) Adopt shock absorbance. KETHINK KETHINK KETHINK TE KETHINA KETHINA
- 3) Adopt microcomputer control system, high speed control precision, touch panel helps user to set operation parameters accurately;can modify touch panel helps user to set operation parameters conveniently & accurately;can modify parameters during operation of corresponding centrifugal for corresponding centrifugal force under current speed.

 4) This machine is composed of instrument rotors and technical e KELHIMA
 - KETHIMA KETHIM 4) This machine is composed of instrument and optional rotors, suitable

parameters of suitable rotor (part of the rotors)

	1	Kr. Kr.	F	Kr	K K	K K
	roto	rs and technical pa	rameters ar	e shown	in the following table	e. 18 19
KEN	KE	Table 1 parar	neters of su	itable rot	tor (part of the rotor	·s)
	No	ltem	Max Speed(r/m)	Max RCF (xg)	Capacity(ml)	Size(mm)
K,	NO.1	Angle rotor	6000rpm	5180xg	12×10ml	Φ16×87
	NO.2	Angle rotor	5000rpm	3080xg	12×15ml(adapt 5/7/10ml)	Φ16×118
KILL	NO.3	Angle rotor	5000rpm	3515xg	24×15 ml(adapt5/7/10ml)	Φ16×118
	NO.4	Angle rotor	5000pm	2850xg	6×50ml	Φ29×106
	Angle rotor	Angle rotor	5000rpm	2630xg	4×100ml	Φ37×124
6	NO.6	Angle rotor	5000rpm	3130xg	6×100ml	Φ37×124
//·	NO.7	Horizontal rotor (auto decap)	4000rpm	3150xg	$4 \times 12 \times 2/5$ ml vacuum blood collection tube	Φ13× 75/100
E,	NO.8	Horizontal rotor (auto decap)	4000rpm	3520xg	$4 \times 18 \times 2/5$ ml vacuum blood collection tube	Φ13× 75/100
	NO.9	Horizontal rotor	4000rpm	3650xg	$4 \times 24 \times 2/5$ ml vacuum	Ф13×
			4, 44,			TH, TH



	(auto decap)		F	blood collection tube	75/100
	Horizontal rotor	4200rpm	3157xg	Rotor adapter	-
	adapter	42001 piii	313/Vg	•	ф.12\/0 <u>Б</u>
NO.10	rack	4200rpm	3157xg	4×8×5/7ml	Φ13×95
	0 rack rack			$4 \times 8 \times 10/15 \text{ml}$ $4 \times 2 \times 50 \text{ml}$	Φ16×87 Φ29×106
	rack			$4 \times 2 \times 30111$ $4 \times 1 \times 100$ ml	Φ29×106 Φ37×124
ř	rack	-		$4\times1\times100$ ml	Φ37×124
	Horizontal rotor	4000rpm	3016xg	4×250ml 4 hanging cups	Φ64×125
NO 4	adapter	4000rpm		$4\times8\times5/7$ ml	Φ13×95
NO.1	1 adapter		3016xg	4×8×10/15ml	Φ16×135
	adapter	400015111	JOIONE	$4 \times 2 \times 50$ ml	Φ29×106
· ·	adapter			4×2×100ml	Φ37×124
	Horizontal rotor	4000rpm	3515xg	4×500ml4 hanging cups	Φ78×150
	adapter	4000rpm		4×4×50ml	Φ37×124
	adapter			$4 \times 12 \times 5/7$ ml	Φ13×95 Φ13×95
NO.1	adapter adapter		3515xg	$4 \times 16 \times 5/7 \text{ml}$ $4 \times 16 \times 10/15 \text{ml}$	Φ 13 \times 95 Φ 29 \times 106
	adapter		3515XB	$4\times10\times10/13$ iiii $4\times2\times100$ ml	Φ29×100 Φ37×124
	adapter			4×3×100ml	Φ37×124
	adapter			$4\times1\times250$ ml	Φ64×114
NO.1	Harizantal backet	4000rpm	3016xg	4×18×5/7ml	Ф13×95
NO.1	4 Horizontal basket rotor	4000rpm	3016xg	4×24×5/7ml	Φ13×95
NO.1	5 Horizontal ELISA plate rotor	4000rpm	2310xg	2×2×48 holes	
NO.1	6 Horizontal ELISA plate rotor	4000rpm	2310xg	$2\times2\times96$ holes	
NO.1	plate rotor	4000rpm	2490xg	$4 \times 2 \times 96$ holes	
NO.1	8 Horizontal ELISA plate rotor	4000rpm	2850xg	$4\times4\times96$ holes	
The A		1 AF 12	A FEI	水 " 本 " 本	作, 年
1)	1. Installation Instrument should	I be put o	n solid	& flat desk top (reinforced
CC	ncrete countertop is	HE WILL		AL KELHIMA KELHIMA	KELHIMA KELH
2)	Instrument should b	e placed on	a horizor	ntal desk top.	WILL I
21	Instrument should b	e stored in	dry, well	ventilated room wit	th relative

- at flat desk top (reinforced flat desk top).

 Jument should be placed on a horizontal desk top.

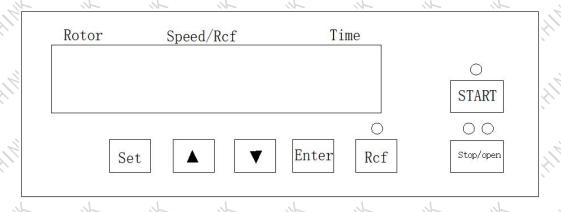
 3)Instrument should be stored in dry, well ventilated room with relative



humidity under 85%, room temperature within 5 $^{\circ}$ C $^{\circ}$ 35 $^{\circ}$ C. To avoid damage caused by electric leakage, DO NOT keep instrument under direct sunlight.

4) The power supply used must have a reliable ground wire to ensure reliable contact between the ground wire of the instrument and the ground wire of the network power supply to prevent leakage or accidental damage caused by the network power supply.

5. Operating Procedures



- 1. Open the door cover, install rotor, tighten bolt.
- Put centrifuge tubes with liquid into rotors, centrifugal tube must be in even number with even liquid (inspected by visual), rotate rotor gently after putting the tubes.
- 3. Shut & lock the door cover, otherwise instrument will not work.
- 4. Plug in power socket, press the power switch (on the back of the centrifuge, above the power socket).
- 5. Rotor NO/Speed/ Time Setting:
- (1) Rotor No setting(under the stopped state): Press the "Set" button,



when the decimal in the lower right corner of the LED which displays rotor numbers lights up, it will enter the rotor number setting mode, and then press the "▲" or "▼" key to select the right rotor number that work with the centrifuge (there are 6 types of rotor numbers available).

- (2) Speed setting: Press the "Set" button, when the decimal in the lower right corner of the LED which displays speed lights up, it will enter speed setting mode, press "▲" or "▼" button under speed display area (max speed:6000rpm).
- (3) Time setting: Press the "Set" button, when the decimal in the lower right corner of the LED which displays time lights up, it will enter time setting mode, press "▲" or "▼" button to set the current running time (max running time:99min),countdown.
- (4) When the above steps completed, press "ENTER" button to confirm, then press "START" to run. Control panel display rotor number, speed and remaining centrifugal time.
- 5) Centrifuge time countdown to "0", instrument stop automatically; when rotation speed is equal to zero, buzzer sounds; if press "stop" when instrument is running, centrifuge stop, buzzer stop.
- 6. If need to change RCF during operation, press "RCF" key, current RCF will be display on screen. It will automatically return to the running state.
- 7. During operation, if centrifugal force conversion needed, press the "RCF" key (RCF light is on), the centrifugal force at the current speed will



be displayed, and it will automatically return to the running state after 3 seconds.

- 8. During the centrifugal operation, if need to check the original set parameters, press "SET" key, the instrument will display the original parameters; the instrument will automatically return to the running state after 4 seconds.
- 9. During the operation of the centrifuge, if need to modify the operating parameters, press "SET" key to the decimal point to the position of the parameter to be modified, and then press the "▲"or "▼" key to select the parameter to be modified, and press the "ENTER" key to confirm the modification parameter.
- 10. When rotor stop rotating, press door lock on the right and take out centrifuge tubes.
- 11. Shut off the power switch after using it.

6. Safety Precautions

- 1) **DO NOT** move instrument or open its door cover when centrifuge is running. running.
- 2) Put centrifuge on solid & flat desk top, four rubber feet should be in contact with the desk top under even stress, lest vibration caused.
- 3) Liquid volume in centrifuge tube should keep the same by visual inspection. A large vibration may occur when there is large liquid volume difference. Instrument must be stopped & checked immediately, make

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1 year warranty (within one year from the date of purchase).

If damage NOT caused by inappropriate operation / reverse promise to bear all the costs within a period, only maintenance. KETHIM KETHIM If damage NOT caused by inappropriate operation / man-made damage, After Return Ret ELITIFIC REPLIENT REPRIENT REP ETHINK KETHINK KITIK KIT

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KETHINK KETHINK KETHINK Product Name: Tabletop low-speed Centrifuge

Product Model: KT-TD6AWS

Product No:

lax Speed: 6000 WELLING RECHING RECHIN ETHINK KETHINK Jge WELHIMA KETHIMA KETHIMA

Max Speed: 6000 rpm

Max RCF: 5180 xm

This product has been tested and proved to be qualified for delivery in conformity with technical standard:

Inspector:





KELHIMA KELI Company Name: CHANGSHA KETHINK S&T CO.,LTD.

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Production Address:

KETHINK KETHIN KELHIMA KELHIM Block B7, wulongtang community, jinjin west road, wangcheng district, Chang Sha city, Hu Nan Province, 410205 China.

Registration Address:

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~ Th					F 74	
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