

Tea steamer specifications

* Inverter tea steamer (microcomputer) specifications and dimensions when measurement table is attached

Standard	Machine dimensions (m)					Drum revolutions per minute (rpm)	Stirring revolutions per minute (rpm)	Performance capacity (kg/h)	Power (kW)		
	Length	Width	Height	Drum inner diameter	Drum length						
Vapor rotary blow-out type/heat-retention type/high-power type											
600KH-MR41V	3.088	1.560	1.330	0.300	1.650	20~70	150~ 800	320~ 560	0.2	0.4	3.7
700KH-MR41V	3.235	1.560	1.480	0.313	1.770	20~70	150~ 800	370~ 650	0.2	0.4	5.5
800KH-MR41V	3.472	1.660	1.565	0.330	1.900	20~70	150~ 800	440~ 770	0.2	0.4	5.5
1000KH-MR41V	3.612	1.660	1.565	0.354	2.040	20~70	150~ 800	550~ 960	0.2	0.4	5.5
1200KH-MR41V	3.772	1.660	1.650	0.380	2.140	20~70	150~ 750	650~1150	0.2	0.75	5.5
1400KH-MR41V	3.872	1.660	1.650	0.390	2.240	20~70	150~ 750	730~1280	0.2	0.75	5.5
Steam chamber fixed type/high-power type											
600KE-MM41V	3.088	1.560	1.330	0.300	1.650	20~70	150~ 800	320~ 560	0.2	0.4	3.7
700KE-MM41V	3.235	1.560	1.480	0.312	1.770	20~70	150~ 800	370~ 650	0.2	0.4	5.5
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600KE-MMK41V	3.088	1.560	1.330	0.300	1.650	20~70	150~ 800	320~ 560	0.2	0.4	3.7
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	Length	Width	Height	Drum inner diameter	Drum length					
Vapor rotary blow-out type/heat-retention type/high-power type										
600KH-MR31V	3.143	0.933	1.200	0.300	1.650	20~70	150~ 800	320~ 560	0.4	3.7
700KH-MR31V	3.305	0.933	1.200	0.312	1.770	20~70	150~ 800	370~ 650	0.4	5.5
800KH-MR31V	3.472	1.033	1.285	0.330	1.900	20~70	150~ 800	440~ 770	0.4	5.5
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* Note that specifications and appearance are subject to change without notice in order to improve the machine.

Kawasaki Kiko Co., Ltd.

Sales Headquarters:
810-1, Suberikawa, Dategata,
Kakegawa City, Shizuoka Prefecture
436-0005 JAPAN
Phone: +81-537-27-1791
Facsimile: +81-537-27-1716

Website <http://www.kawasaki-kiko.co.jp>

Dealer



Into the Future with Green Tea

PRODUCTS CATALOGUE

Tea steamer



"Into the Future with Green Tea"

Kawasaki Kiko Co., Ltd.

Microcomputer Tea Steamer

600K 700K 800K 1000K 1200K 1400K

Stable steaming process compatible with various raw material leaves

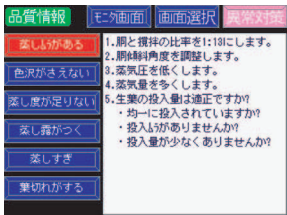
Provides seaming time feedback control, and high quality color and astringent taste

Steaming process is automatically controlled with the touch panel type automatic control panel, improving operability and stabilizing the steaming quality. The unit is composed of a fresh leaf flowmeter, vibrating feeding conveyor, tea steamer and measurement table, and the degree of steaming can be kept constant by automatically adjusting the incline of the drum based on the displayed steam drum conveyance time.

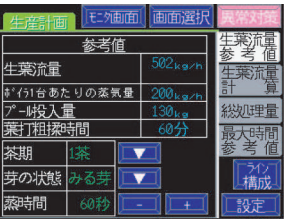


Automatic Control Panel

- Production plans, standard usage, quality and countermeasures are displayed on the touch panel screen, providing interactive settings and control.
- Pre-installed with 800 standard steaming patterns.
- The degree of steaming, drum inclination angle, rotation speed, vapor quantity, fresh leaf flow volume and integrated fresh leaf flow volume are displayed and saved on a bright and clear screen, and output to a USB memory as tea manufacturing records.
- The vapor quantity can be controlled automatically by connecting to a microcomputer boiler, and the fresh leaf flowmeter can be stopped when the vapor quantity is insufficient.
- Interactive communications with the line monitor displayed on screen.



<Quality Information Screen>



<Production Plan Screen>

Controlling Degree of Steaming

- The steam drum conveyance time (sec) as an index is calculated by the formula below. To keep the conveyance time constant, detect a difference between the calculated result and specified time, and control and change the drum incline angle. The characteristic of this method is response speed, and the degree of steaming can be kept constant when the leaf shape is changed.

$$\text{Steam drum conveyance time (sec)} = \frac{\text{Weight of drum contents (kg)}}{\text{Feeding volume per minute (kg)}} \times 60$$

Measurement

- The fresh leaf flowmeter keeps the feeding volume constant, the measurement table using load cells measures the weight of drum contents (weight of tea leaves in the steam drum), and integral feedback control is performed for the degree of steaming (conveyance time). Weight measurement errors due to tea incrustations are automatically corrected at the specified time and the weight of drum contents can be measured precisely.
- The drum and stirring rotation can be measured and controlled using simple instructions from the control panel.

- Inverter system
Inverter tea steamer uses an inverter to change the drum and stirring rotation speed, providing smooth startup.
- Steamer fragment collecting unit (Optional)
Steamer fragment collecting unit can be attached optionally to all models. Total height slightly increases.
- K specification models are equipped with a clogging prevention brush as standard.
Low-speed type (variable speed pulley) is available for some models. The brush is installed on the drum net to prevent clogging.
- Vapor rotary blow-out mechanism
Vapor is sent into the drum from the entire circumference to steam evenly in a short time. Since the metal mesh is rotating in the steam chamber, the leaves can be stirred even when the shaft is rotating at low speed.

Tea Steamer

300K 400K 500K 600K 700K 800K 1000K 1200K 1400K

Wide variety of model configurations from standard to heavy steaming

Contributes to unique tea manufacturing by reflecting regional characteristics

H-MR [Rotary type/heat-retention type]
MR1(Standard type), **MR3**(High-power type) * Select from these two models.

- Rotary type (vapor rotary blow-out mechanism), vapor is sent into across the drum to steam evenly in a short time.
- Heat-retention layer created by steel plate double-layered pan.
- Stainless mesh in steam chamber. A rotating brush is also attached to the outside of the mesh to prevent clogging.
- Double vapor intake apertures on both sides (right and left) of the pan. The intake aperture on the left has a valve to adjust the vapor intake quantity

H-MM [Steam chamber fixed type/heat-retention type]
MM1(Standard type), **MM3**(High-power type), **MMK**(Low-speed type) * Select from these three models.

- Fixed steam chamber with heat-retention layer created by steel plate double-layered pan.
- Steam droplets rarely adhere, preventing leaf discoloration as there is no cooling effect by external air.
- Double vapor intake apertures on both sides (right and left) of the pan. The intake aperture on the left has a valve to adjust the vapor intake quantity

MM [Steam chamber fixed type]
MM1(Standard type), **MM3**(High-power type), **MMK**(Low-speed type) * Select from these three models.

- Fixed steam chamber and use of porous stainless plates prevents clogging from stems and leaves, and provides even leaf steaming.
- Double vapor intake apertures on both sides (right and left) of the pan. The intake aperture on the left has a valve to adjust the vapor intake quantity

Tea steamer specifications

* Tea steamer specifications (Variable speed pulley)

Standard	Machine dimensions (m)					Drum revolutions per minute (rpm)	Stirring revolutions per minute (rpm)	Performance capacity (kg/h)	Power (kW)
	Length	Width	Height	Drum inner diameter	Drum length				
Steam chamber fixed type/standard type									
400KE-MM1	2.712	0.820	1.050	0.240	1.411	20~70	200~ 750	170~ 300	1.5
Steam chamber fixed type/high-power type									
500KE-MM3	2.818	0.855	1.050	0.265	1.500	20~70	200~1000	220~ 390	3.7
600KE-MM3	3.060	0.923	1.050	0.300	1.650	20~70	180~ 700	320~ 560	3.7
700KE-MM3	3.235	0.953	1.200	0.312	1.770	20~70	180~1000	370~ 650	5.5
800KE-MM3	3.528	1.033	1.285	0.330	1.900	20~70	160~ 900	440~ 770	5.5
1000KE-MM3	3.668	1.033	1.285	0.354	2.040	20~70	180~ 850	550~ 960	5.5 0.2
1200KE-MM3	3.865	1.033	1.325	0.380	2.140	20~70	120~ 700	650~1150	5.5 0.2
Steam chamber fixed type/low-speed type									
400KE-MMK1	2.676	0.820	1.050	0.240	1.411	20~70	150~ 570	170~ 300	1.5
500KE-MMK3	2.818	0.855	1.050	0.265	1.500	20~70	150~ 570	220~ 390	3.7
600KE-MMK3	3.060	0.923	1.050	0.300	1.650	20~70	150~ 570	320~ 560	3.7
700KE-MMK3	3.235	0.953	1.200	0.312	1.770	20~70	150~ 850	370~ 650	5.5
800KE-MMK3	3.528	1.033	1.285	0.330	1.900	20~70	180~ 850	440~ 770	5.5
1000KE-MMK3	3.668	1.033	1.285	0.354	2.040	20~70	180~ 850	550~ 960	5.5 0.2
1200KE-MMK3	3.865	1.033	1.325	0.380	2.140	20~70	120~ 700	650~1150	5.5 0.2
Vapor rotary blow-out type/heat-retention type/standard type									
300KH-MR1	2.350	0.703	0.940	0.201	1.213	20~70	120~ 650	100~ 180	1.5
400KH-MR1	2.712	0.820	1.050	0.240	1.411	20~70	200~ 750	170~ 300	1.5
Vapor rotary blow-out type/heat-retention type/high-power type									
400KH-MR3	2.782	0.820	1.050	0.240	1.411	20~70	200~1000	170~ 300	2.2
500KH-MR3	2.870	0.855	1.050	0.265	1.500	20~70	200~1000	220~ 390	3.7
600KH-MR3	3.088	0.923	1.050	0.300	1.650	20~70	180~1000	320~ 560	3.7
700KH-MR3	3.235	0.953	1.200	0.312	1.770	20~70	180~1000	370~ 650	5.5
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