

# 1. Specifications

## 1.1 Specifications Table

Specifications CH-K30 ~ CH-K100									
Item	Model	K30	K40	K50	K60	K80	K100		
Cooling Capacity.		kW	105	141	176	211	281	352	
Heating Capacity.		kW	86	115	143	172	229	286	
Chilled-hot water	Temperature cooling	Inlet °C	12.5						
		Outlet °C	7.0						
	Temperature heating	Inlet °C	50.5						
		Outlet °C	55.0						
	Evaporator press. loss	kPa	70.1				86.4	97.0	
	Maximum press.	kPa	588.0						
	Flow rate	l/s	4.6	6.1	7.6	9.2	12.2	15.3	
m <sup>3</sup> /h		16.6	22.0	27.4	33.1	43.9	55.1		
Retention volume	l	69	87	111	127	241	306		
Cooling water	Heat rejection.		kW	191	255	319	383	510	638
	Temperature	Inlet °C	29.5						
		Outlet °C	35.5						
	Abs/Cond press.loss	kPa	75.5			97.0	70.1	102.5	
	Maximum press.	kPa	588.0						
	Flow rate	l/s	7.6	10.2	12.7	15.2	20.3	25.4	
		m <sup>3</sup> /h	27.4	36.7	45.7	54.7	73.1	91.4	
Retention volume	l	145.0	180.0	235.0	296.0	411.0	534.0		
Fuel	Type of fuel.		Natural Gas						
	Fuel Consumption	Cooling.	kW	103	138	172	207	276	345
		Heating.	kW	103	138	172	207	276	345
Electrical	Power Supply.		400 VAC/50Hz/3Ph & Neutral						
	Consumption *1	Cooling	kW	1,4	1,8	1,95	2,1	2,3	2,5
		Heating	kW	1,4	1,8	1,9	2,1	2,3	2,5
	Control	Cooling.	High fire (100%), Low fire (70%), Off						
Heating.		High fire (100%) On, Off							
Burner	Type.		Forced draft						
	Ignition.		Electric intermittent spark						
	Flame detection.		Flame rectification (Flame rod)						
Dimensions	Width	mm	1,460		1,780		1,840		
	Depth <sup>*2</sup>	mm	1,540 (1,635)			1,780 (1,875)		1,900 (1,995)	
	Height <sup>*3</sup>	mm	2,045 (2,440)				2,435 (2,820)		
Weight.	Dry	kg	1,500	1,700	2,160	2,350	3,400	3,700	
	Operating	kg	1,720	1,970	2,510	2,770	4,060	4,540	
Piping	Chilled-hot water.		A	50		65	80	100	
	Cooling water.		A	65		80		125	
	Gas supply.		A	40			50		
Cabinet color & paint finish			Silver metallic pre-painted hot dip zinc-aluminum sheet steel.						

\*1. Power consumption of Chiller Only(excluding recirculating pumps and cooling tower fan)

\*2. Dimensions in ( ) include junction box.

\*3. Dimension in ( ) include fixed plate and vent cap.

-.Fuel consumption is calculated based on higher heating value: 46,047 kJ / Nm

-.The flow rate of chilled-hot water and cooling water must be stable.

-. The allowable flow rate ranges are: Chilled-hot water: 80 to 120% of nominal, Cooling water: 100 to 120% of nominal.

-.Specification is subject to change without prior notice.

## 1.2 External Dimensions

A pictorial outline of dimensions associated with the six models of K series chiller-heaters are shown in the following pages.