



FLYING TIGER KJ CO., LTD.

PLASTIC AUXILIARY EQUIPMENTS & TURNKEY SOLUTION EXPERTS

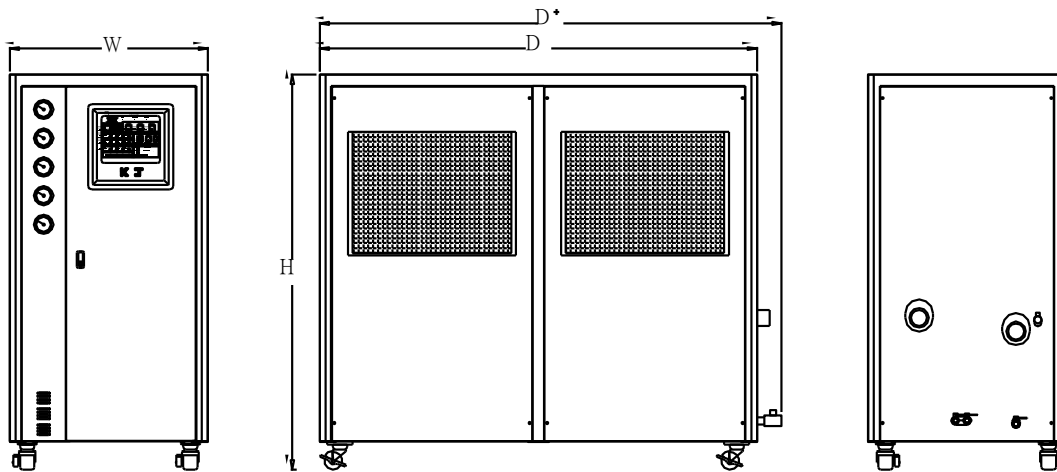
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# INVERTER AIR COOLING CHILLER

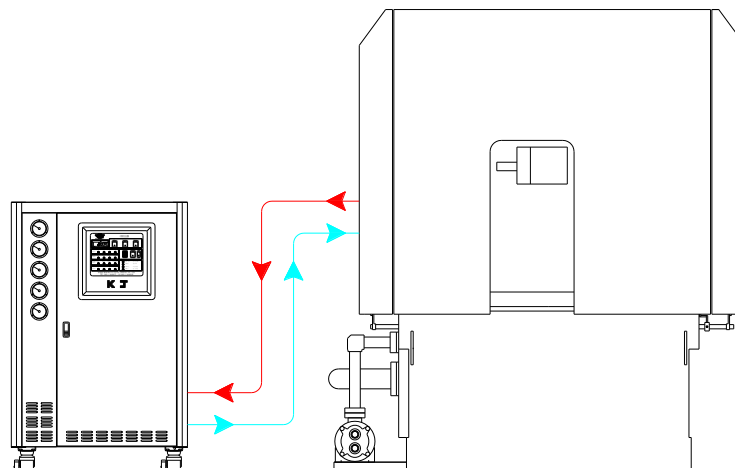
## FEATURES:

- Chillers are equipped with inverters design ,compressors ON/OFF smoothly within  $\pm 1^{\circ}\text{C}$  ,it can save 15~30% energy in 60 HZ country or 35~50% energy in 50 HZ country than without inverter design.
- Compressors are imported from MANEUROP, DANFOSS or COPELAND.
- Equip with high efficient evaporator and condenser.
- LED display controllers are imported from Europe, the temperature can controlled precisely within  $\pm 1^{\circ}\text{C}$ .
- Control method can be upgraded to PLC program with 4.3 "color touch panel.
- The chillers are equipped with circulation pumps and stainless steel water tanks, they are designed for auto water supply and exhaust system.
- Comprehensive safety protection system:
  1. Non-fuse breaker
  2. Pump overload protector
  3. Phase lack & reverse protector
  4. Freon shortage protector
  5. Anti-freezing protector
  6. Adjustable by-pass circulation
  7. Compressor overload protector
  8. Fan overload protector
  9. Overheat protector
  10. Freon high-pressure protector
  11. Return water overheat protector



KC-1008AI~5050AI

## FLOWCHART:





**SPECIFICATIONS**

Model		KC-1008AI			KC-2010AI			KC-2015AI			KC-3020AI				
Temperature	°C	5-35°C													
Capacity	BTU/HR	96,000			120,000			180,000			240,000				
	KCAL/HR	24,192			30,240			45,360			60,480				
Compressor	HP	8(4*2)			10(5*2)			15(7.5*2)			20(10*2)				
	KW	6.0			7.5			11.3			15.0				
Freon		R-407													
Control method		INVERTER + LED temperature controller or can be upgraded to PLC program with 4.3 "color touch panel.													
Evaporator		Tube-in-shell type													
Condenser		High efficiency fin type													
Fan	W	600x2			900x2			900x3			900x3				
Water tank	LITER	88			88			155			155				
Pump	KW	0.75			1.50			1.50			2.25				
Flow ↑ Pressure ↓	60 HZ	LPM	192	180	146	424	335	267	424	335	267	655	502	321	
		KG/CM <sup>2</sup>	0.5	1.0	1.5	0.5	1.0	1.5	0.5	1.0	1.5	1.0	1.5	2.0	
	50 HZ	LPM	240	145	85	290	255	230	290	255	230	635	485	265	
		KG/CM <sup>2</sup>	0.5	1.2	1.5	0.7	1.4	2.1	0.7	1.4	2.1	1.0	1.5	2.0	
Piping	Chilled	1-1/2	1-1/2			2			2			2-1/2			
	Drain	INCH	1/2												
	Supply	INCH	1/2												
Total load	KW	7.95			10.80			15.50			19.95				
Dimension (W*D*H)	CM	86*210*172						90*260*193							
D <sup>+</sup> (With pipeline)	CM	217						267							
Approx. weight	KG	665			690			870			980				
Options	1.Vertical high-pressure pump      2.Cooling tower & cooling water pump      3. PLC Control														
Remarks	1.We reserve the right to change specifications without prior notice.														



**SPECIFICATIONS**

Model		KC-3025AI			KC-3030AI			KC-5040AI			KC-5050AI			
Temperature	°C	5-35°C												
Capacity	BTU/HR	300,000			360,000			480,000			600,000			
	KCAL/HR	75,600			90,720			120,960			151,200			
Compressor	HP	25(12.5*2)			30(15*2)			40(10*4)			50(12.5*4)			
	KW	18.8			22.3			29.8			37.5			
Freon		R-407												
Control method		INVERTER + LED temperature controller or can be upgraded to PLC program with 4.3 "color touch panel.												
Evaporator		Tube-in-shell type												
Condenser		High efficiency fin type												
Fan	W	900x3			900x3			467x3			580x3			
Water tank	LITER	200			200			0			0			
Pump	KW	2.25			2.25			3.75			3.75			
Flow ↕ Pressure	60 HZ	LPM	655	502	321	655	502	321	851	724	610	851	724	610
		KG/CM <sup>2</sup>	1.0	1.5	2.0	1.0	1.5	2.0	1.0	1.5	2.0	1.0	1.5	2.0
	50 HZ	LPM	635	485	265	635	485	265	875	705	485	875	705	485
		KG/CM <sup>2</sup>	1.0	1.5	2.0	1.0	1.5	2.0	1.0	1.5	2.0	1.0	1.5	2.0
Piping	Chilled	INCH	2-1/2			2-1/2			3			3		
	Drain	INCH	1/2											
	Supply	INCH	1/2											
Total load	KW	23.75			27.45			35.15			42.99			
Dimension (W*D*H)	CM	100*280*198						107*340*217			127*360*217			
D <sup>+</sup> (With Pipeline)	CM	287						347			367			
Approx. weight	KG	1,080			1,165			1,620			1,763			
Options		1.Vertical high-pressure pump    2.Cooling tower & cooling water pump    3. PLC Control												
Remarks		1.We reserve the right to change specifications without prior notice.												