

WORLD'S A FAMILY, COMFORT QUALITY

Kingair Air Conditioning Product Manual

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January 2018

1.Maybe there are some difference between the actual products and products in stylebook,please consult for details while purchasing.
2.Through careful verification, if there are printing mistake and omissions in the stylebook, Kingair would not take the according
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consequence.



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Kingair with 50 years experience

KINGAIR PROFESSIONAL & CREATIVE



PROFILE

Zhejiang Kingair Co., Ltd is famous for its brand Kingair. It is a full-invested subsidiary company of Zhejiang King Refrigeration Industry Co., Ltd. Kingair went public with A share in Shanghai become the first A share listed enterprise invested by Taiwan. It adopts advanced technology, successfully put out first-rate international products after inheriting 50years experience and strictly requirement from Kingair. Its product's quality and market are always in the front of industry. Kingair has become a large-scaled, high-tech central air conditioner enterprise since interting 50years experience of reach, development of new product and manufacturing

2019

- Kingair Refrigeration Company established one new factory in Shanghai.

2017

- Achieved the ISO9001 International Certification
- Achieved the Certification about reliable products in China market

2019

- Achieved the National Brand Certification
- Commended in the National Torch Program
- Achieved the BR1 Certification (which concerned to pressure testing)

2000

- Achieved the international standard ISO14001
- The product was passed CE Certification
- Kingair's laboratory was approved by the National Center for Supervision and Pressure Quality Control

2001

- Recognized as the leading product in the Chinese industry (National Torch Certification)
- Be patented for the designs which concerned to air conditioner for train, tramcar and ship
- The product was passed CCC Certification

2003

2005

- Certified and honored as a supplier that products reach the highest energy saving in China

2006

- Develop water chiller follow AHRI standard

2007

- The center of quality testing was passed CNAS National Certification

2008

- As a member of the Thermal Refrigeration CRAA Association

2010

- Established factory in Zhejiang

2011

- Successfully in the developments the first type of screw chiller which using 10kV with 3600 KW of cooling capacity

2012

- Be the top of national key enterprise

2013

- Project of Water chiller with heat recovery was recognized of the National Thermal Refrigeration Association

2014

- The second factory in Zhejiang with 500 acre was completed




















2015

- Kingair's heat pump was selected as a key topic in the Industrialization Forum

2016

- Kingair brand was chosen as the national famous brand

CE AAA CCC CRAA AHRI CNAS
ISO9001 ISO14001 ISO18001 BR1

Name	Model	Cooling Capacity / Air Volume	Refrigerant	Page
 Screw Water Chiller/ Screw Water Chiller with Heat Recovery	KCW1050B-2220B KCW1050BH-2220BH	176kW-764kW	R22	02
 Modular Scroll Water Chiller/ Modular Scroll Water Chiller With Heat Pump	KCW2020B-3030B KCW2020A3X-2070A3	68KW-104KW 72.5KW-248.5KW	R22 R410a	04
 Water-cooled Screw Flooded Chiller	KCWF1080B-2A20B KCWF1080BH-2A20BH KCWF1380BD-2A20BD KCWF1070AI-2860AI	275kW-3600kW 275kW-3600kW 1340kW-3600kW 245kW-3000kW	R22 R134a	05
 Centrifugal Water Chiller	KMC10350A~KMC12200A	1232kW-7735kW	R134a	12
 Environmental Protected High Efficient Screw Chiller	KCWF1110C1-KCWF2700C1	387kW-2464kW	R134a	17
 A-Cool Air Cooled Heat Pump	KCA1055B (R) -3510B (R)	220.6kW-1800kW	R22 R407C R134a	19
 Modular Air Cooled Heat Pump	KMS015D (R) -10-360D (R)-OC	50.5kW-1170kW	R22 R407C R410a	24
 Iso Temperature & Iso Humidity AC	KWH100BD-KWH500BD KAH050BD-KAH500BD	29kW-136kW 12.2kW-125kW	R22 R407c	27
 Modular Air Handling Unit	KZE/KZS/KZW0606-6636	1000m³/h-30000m³/h	-	28
 BLDC Fan Coil Unit	KCR200CC-1400CC KCR200TC-1400TC	340m³/h-2380m³/h 360m³/h-2500m³/h	-	34
 Fan Coil Unit	KC (R) 200CC-1400CC KF (R) 200CC-1200CC KCR200TC-1400TC KCR200HC-1200HC	340m³/h-2380m³/h 340m³/h-2040m³/h 360m³/h-2500m³/h 340m³/h-2040m³/h	-	35
 Large Air Fan Coil Unit	KLR800-2400	1360m³/h-4080m³/h	-	37
 Gassete Type Fan Coil Unit	KCKW200-1400CP (H)	340m³/h-2380m³/h	-	37
 Ceiling Type AHU	KDC010-180	1000m³/h-18000m³/h	-	38
 Jet Flow Ceiling Type AHU	KDC010-105	1000m³/h-10500m³/h	-	43
 Air Conditioner For Communication Equipment	KPCA22BD-27BD-37BD	27.4kW-294.4kW	R22 R407c R410a	44
 DC Frequency Conversion Multi-Connected (Heat Pump) Unit	KMRV-250WM/BAA-KMRV-1800WM/BAA KMRV-28K-KMRV-140K KMRV-22FD-C-KMRV-71FD-C KMRV-22FD-D-KMRV-140FD-D KMRV-45FD-Z-KMRV-150FA-Z KMRV-25D-KMRV-140D KMRV-90F-G-KMRV-560F-G KMRV-140F-X-KMRV-560F-X	25.2kW-180kW 2.8kW-14kW 2.2kW-7.1kW 2.2kW-14kW 4.5kW-15kW 2.5kW-14kW 9kW-56kW 14kW-56kW	R22 R407c R410a	46
 Direct Expansion Air Handling Unit	KZE0909B-26-KZW4230B-445 KZE0906B-012-KZS2824BR-272	25.2kW-445kW 12kW-272kW	R22 R407c	50
 Flooded Type High Temperature Chiller	KCWF1080G-2620G	280kW-2190kW	R22	54
 Precision Industrial Chiller	KMSG103AW-440AW KMSG103AA-448AA	8.6 kW - 130 kW	R22	55
 Screw Brine Chiller	KCW1016ASD-2550ASF KCW1012BSD-2415BSD KCW1007GSD-2240CSD KCW1016AZD-2550AZD KCW1012BZD-2415BZD KCW1007GZD-2240CZD	47kW-1930kW 34kW-1458kW 20kW-846kW 49kW-1998kW 36kW-1487kW 21kW-863kW	R22	57
 vertical air conditioner (air cooled)	KDD050BD-KDD500BD	12 kW - 124 kW	R22	62
 vertical air conditioner (Water cooled)	KPW030BD - KPW205BD	25 kW - 199 kW	R22	64
TD graphic				66

Screw Water Chiller With Heat Recover



Adopt high reliable screw compressor and perfect heat exchange technology, COP can reach 5.09.
Use new inner thread high efficiency heat exchanger whose heat exchange factor is 1.3 times higher than normal heat exchanger. Five layer protection are supplied in the compressor to avoid rotors blocked and motor overheat burned.
Controller has multi functions such as status display, parameter setting, energy fuzzy control, faulty tracing and so on

KCW 2 180 C H
Function Type:
H-- with Heat Recovery
Omitted-- Screw Water Chiller
Design Version
Model Code
Compressor Quantity
Kingair Screw Water Chiller

Model KCW	Single Compressor										Double Compressor							
	1050C	1060C	1070C	1080C	1090C	1100C	1110C	1130C	1140C	2100C	2120C	2140C	2150C	2180C	2200C	2220C		
Cooling Capacity	kW	176	200	235	265	310	350	382	430	480	352	400	470	528	620	700	772	
	kcal/h	151360	172000	202100	227900	266600	301000	328520	369800	412800	302720	344000	404200	455800	533200	602000	663920	
Input Power	kW	38.8	43.5	51.4	57	65	73.8	82.2	90	100.7	77.5	87	102.8	114	130	147.6	164	
Rate Current	A	65	71	87	96	110	124	138	151	170	130	142	174	192	220	248	276	
Capacity Regulating	25%~100%										12.5%~100%							
Power Supply	380V/3N~/50Hz										380V/3N~/50Hz							
Compressor	Type	5-6 asymmetric serrated semi-hermetic screw compressor										5-6 asymmetric serrated semi-hermetic screw compressor						
	Start Up	Y-Δ										Y-Δ						
	Qty	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	
Evaporator	Type	High Efficient Heat Exchanger										High Efficient Heat Exchanger						
	Water Flow	m³/h	30	34.4	40	45.6	53	60	66	74	61	69	81	91	106	120	131	
	Pressure Drop	kPa	36	48	56	46	46	50	43	52	40	50	58	48	46	52	45	
	Pipe Dia	DN100	DN100	DN100	DN100	DN125	DN125	DN125	DN150	DN150	DN125	DN125	DN125	DN150	DN150	DN150	DN150	
Condenser	Type	High Efficient Heat Exchanger										High Efficient Heat Exchanger						
	Water Flow	m³/h	38	43	51	57	67	75	82	92	76	86	101	114	133	151	164	
	Pressure Drop	kPa	45	46	58	50	50	54	55	60	45	42	48	50	50	54	55	
	Pipe Dia	DN80	DN80	DN100	DN100	DN100	DN100	DN125	DN125	DN125	DN80×2	DN80×2	DN100×2	DN100×2	DN100×2	DN100×2	DN100×2	
Oil	Type	KG5										KG5						
	Qty	L	8	8	14	14	14	16	15	18	16	16	28	28	28	28	32	
Refrigerant	Type	R22										R22						
	Change	kg	35	35	43	47	55	64	70	91	35×2	35×2	43×2	55×2	64×2	70×2		
Flow Control Method	Thermal Expansion Valve										Thermal Expansion Valve							
	Length	mm	2800	2850	2850	2850	2880	2880	2880	3050	3200	3200	3200	3200	3200	3200	3400	
Dimension	Width	mm	750	750	800	800	800	800	850	850	1700	1700	1700	1750	1750	1750	1750	
	Height	mm	1750	1750	1800	1850	1850	1850	1850	2000	2000	2000	2100	2100	2100	2100	2200	
Weight	Transportation	kg	1300	1300	1600	1800	2100	2100	2350	2500	3000	3200	3600	4000	4200	4600	5100	
	Operation	kg	1450	1450	1760	2000	2300	2300	2600	2750	3300	3550	4000	4450	4650	5050	5600	

Note:
1. Design, manufacture and test are comply with GB/T18430.1-2007.
2. Above data is based on chilled water 7, cooling water 30.
3. For selection please contact Kingair for detail. We would do our best to meet customer's require.

Nominal Cooling Condition	Chilled Water		Cooling Water	
	Entering Temperature (°C)	Leaving Temperature (°C)	Entering Temperature (°C)	Leaving Temperature (°C)
	-	7	30	-
Safety Operation Range	Leaving Temperature (°C)		Temperature Difference (°C)	
	5~15	2.5~8	19~35	3.5~8

Screw Water Chiller With Heat Recover



Adopt high reliable screw compressor and perfect heat exchange technology, COP can reach 5.09.
Use new inner thread high efficiency heat exchanger whose heat exchange factor is 1.3 times higher than normal heat exchanger. Five layer protection are supplied in the compressor to avoid rotors blocked and motor overheat burned.
Controller has multi functions such as status display, parameter setting, energy fuzzy control, faulty tracing and so on

KCW 2 180 C H
Function Type:
H-- with Heat Recovery
Omitted-- Screw Water Chiller
Design Version
Model Code
Compressor Quantity
Kingair Screw Water Chiller

Model KCW	Single Compressor										Double Compressor							
	1050CH	1060CH	1070CH	1080CH	1090CH	1100CH	1110CH	1130CH	1140CH	2100CH	2120CH	2140CH	2150CH	2180CH	2200CH	2220CH		
Cooling Capacity	kW	176	200	235	265	310	350	382	430	480	352	400	470	528	620	700	772	
	kcal/h	151360	172000	202100	227900	266600	301000	328520	369800	412800	302720	344000	404200	454080	533200	602000	663920	
Heat Recovery	kW	52	56	70	70	86	105	115	120	144	105	112	141	150	170	200	210	
Input Power	kW	38.8	43.5	51.4	57	65	73.8	82.2	90	100.7	77.5	87	102.8	114	130	147.6	164	
Rate Current	A	65	71	87	96	110	124	138	151	170	130	142	174	192	220	248	276	
Capacity Regulating	25%~100%										12.5%~100%							
Power Supply	380V/3N~/50Hz										380V/3N~/50Hz							
Compressor	Type	5-6 asymmetric serrated semi-hermetic screw compressor										5-6 asymmetric serrated semi-hermetic screw compressor						
	Start Up	Y-Δ										Y-Δ						
	Qty	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	
Evaporator	Type	High Efficient Heat Exchanger										High Efficient Heat Exchanger						
	Water Flow	m³/h	30	34.4	40	45.6	53	60	66	74	61	69	81	91	106	120	131	
	Pressure Drop	kPa	36	48	56	46	46	50	43	52	40	50	58	48	46	52	45	
	Pipe Dia	DN100	DN100	DN100	DN100	DN125	DN125	DN125	DN150	DN150	DN125	DN125	DN125	DN150	DN150	DN150	DN150	
Condenser	Type	High efficiency shell and tube heat exchanger										High efficiency shell and tube heat exchanger						
	Water Flow	m³/h	38	43	51	57	67	75	82	92	76	86	101	114	133	151	164	
	Pressure Drop	kPa	45	46	58	50	50	54	55	60	45	42	48	50	50	54	55	
	Pipe Dia	DN80	DN80	DN100	DN100	DN100	DN100	DN100	DN100	DN125	DN80×2	DN80×2	DN100×2	DN100×2	DN100×2	DN100×2	DN100×2	
Heat Recovery	Type	High Efficient Heat Exchanger										High Efficient Heat Exchanger						
	Water Flow	m³/h	9	10	12	12	15	18	20	25	18	19	24	25	29	36	39	
	Pressure Drop	kPa	62	62	62	62	62	62	62	62	65	65	65	65	65	65	65	
	Pipe Dia	R2	R2	R2	R2	R2	R2	R2-1/2	R2-1/2	R2-1/2	DN65	DN65	DN65	DN65	DN65	DN65	DN80	
Oil	Type	KG5										KG5						
	Qty	L	8	8	14	14	14	16	15	18	16	16	28	28	28	28	32	
Refrigerant	Type	R22										R22						
	Change	kg	35	35	43	47	55	64	70	91	35×2	35×2	43×2	47×2	55×2	64×2	70×2	
Flow Control Method	Thermal Expansion Valve										Thermal Expansion Valve							
	Length	mm	2800	2850	2850	2850	2880	2880	2880	3050	3200	3200	3200	3200	3200	3200	3400	
Dimension	Width	mm	750	750	800	800	800	800	850	850	1700	1700	1700	1750	1750	1750	1750	
	Height	mm	1750	1750	1800	1850	1850	1850	1850	2000	2000	2000	2000	2100	2100	2100	2200	
Weight	Transportation	kg	1300	1300	1600	2000	2100	2100	2350	2500	3000	3200	3600	4200	4600	5100		
	Operation	kg	1450	1450	1760	2000	2300	2300	2600	2750	3300	3550	4000	4450	4650	5050	5600	

Note:
1. Design, manufacture and test are comply with GB/T18430.1-2007.
2. Above data is based on chilled water 7, cooling water 30.
3. For selection please contact Kingair for detail. We would do our best to meet customer's require.

Nominal Cooling Condition	Chilled Water		Cooling Water	
	Entering Temperature (°C)	Leaving Temperature (°C)	Entering Temperature (°C)	Leaving Temperature (°C)
	-	7	30	-
Safety Operation Range	Leaving Temperature (°C)		Temperature Difference (°C)	
	5~15	2.5~8	19~35	3.5~8

(enviroment friendly)Modular Scroll Water Chiller



- Every modular unit has independent cooling and protection control system. Each unit will start to operate step by step in order to meet the capacity requirement

- This series unit applies high efficient scroll compressor which is with low noise small vibration and high COP.

- Microcomputer controller has multi auto control function to ensure unit in the best operation condition.

- When unit is running in the heat recovery mode, COP can be increase 5%, lower operation cost.

KCW 2 020 B H 3 X - B BA - Z

Unit type, Z is Master, F is client
Feature code
Power characteristics
Structure type: X is box-type structure sheet metal shell, Default is normal type (no shell)
Refrigerant code: Omitted R22;
3 - R410a
H- Heat Recovery, Omitted- without Heat Recovery
Design Version
Model Code
Compressor Quantity
KCW: Kingair Modular Scroll Water Chiller
KCWR: Kingair Modular Water Source Scroll Heat Pump

R22 Series Performance Parameter Data

Model	KCW2020B	KCW3030B
Cooling capacity kW	68	104
Input power kW	14	21
Rated Current A	28	42
Capacity Regulating	0-50%-100%	0-33%-67%-100%
Power Supply	380V/3N~/50Hz	
Compressor	Hermetic Scroll Compressor	
Start up	Directly Start	
Qty	Set	2 3
Type	R22	
Weight kg	13	19.5
Capacity controller	Thermal expansion valve	
Evaporator	High Efficient Shell and Tube Heat Exchanger	
Type	Soft Conection	
Water Flow m ³ /h	11.7	17.9
Pressure Drop kPa	48	48
Pipe Dia DN	65	65
Condenser	High Efficient Shell and Tube Heat Exchanger	
Type	Soft Conection	
Water Flow m ³ /h	14.6	22.4
Pressure Drop kPa	50	50
Pipe Dia DN	65	65
Heat Recovery (Optional)	Soft Conection	
Heat Capacity kW	10	15
Water Flow m ³ /h	1.7	2.6
Pressure Drop kPa	50	50
Pipe Dia inch	R1"	R1"
Dimension	Plate Heat Exchanger	
Length mm	2000	2000
Width mm	565	565
Heigh mm	1350	1350
Weight	Transportation kg 550 650	
Operation kg	650	750

Note:
1.Design, manufacture and test comply with GB/T18430.1-2007 criterion.
2.Above capacity based on chilled water outlet temperature 7 ,cooling water inlet temperature range 3.5~8
3.Chilled water outlet temperature range 5~15 , inlet and outlet water in temperature difference range 3.5~8 ,cooling water outlet temperature range 25~40 , inlet and outlet water in temperature difference range 3.5~8 .
4.Heat Recovery inlet temperature 40

R410 Series Performance Parameter Data

Model	KCW2020A3	KCW2020A3	KCW3030A3	KCW2055A3	KCW2070A3
Cooling capacity kW	72.5	72.5	108.5	200	248.5
Input power kW	15.6	15.6	23.3	40.8	50.8
Rated Current A	28.4	28.4	42.5	68.4	85.3
Capacity Regulating	0-50%-100%	0-33%-66%-100%	0-50%-100%		
Power Supply	380V/3N~/50Hz				
Compressor	Hermetic Scroll Compressor				
Start up	Directly Start				
Qty	Set	2 2 3 2 2 2			
Type	R410a				
Weight kg	10	12	18	33	42
Capacity controller	Thermal expansion valve				
Evaporator	Plate Hex High Efficient Shell and Tube Heat Exchanger				
Type	Soft Conection Flange				
Water Flow m ³ /h	12.5	12.5	18.7	34.4	42.7
Pressure Drop kPa	50	50	50	50	50
Pipe Dia DN	50	65	65	80	80
Condenser	Plate Heat Exchanger				
Type	Soft Conection Flange				
Water Flow m ³ /h	15.6	15.6	23.3	43.0	53.4
Pressure Drop kPa	50	50	50	50	50
Pipe Dia DN	50	65	65	100	100
Heat Recovery (Optional)	Soft Conection Flange				
Heat Capacity kW	10	10	15	28	35
Water Flow m ³ /h	1.7	1.7	2.6	4.8	6.0
Pressure Drop kPa	50	50	50	50	50
Pipe Dia inch	R1"	R1"	R1"	R1"1/4	R1"1/4
Dimension	Plate Heat Exchanger				
Length mm	1260	2000	2000	2400	2400
Width mm	580	565	565	770	770
Heigh mm	1215	1380	1380	1840	1840
Weight	Transportation kg 550 550 630 1330 1330				
Operation kg	650	650	730	1450	1450

Note:
1.Design, manufacture and test comply with GB/T19409-2003 criterion.
2.Nominal cooling condition: chilled water inlet/outlet temperature 127 ,cooling water inlet/outlet temperature 48/29
3.Nominal heating condition:Chilled water inlet temperature 15 ,hot water inlet temperature 40 .
4.Cooling mode, chiller water outlet temperature range 5~15 ,cooling water outlet temperature range 25~40 .
5.Heating mode, chiller water outlet temperature range 5~17 , hot water outlet temperature range 30~50

Water-cooled Screw Flooded Chiller



- Adopt screw compressor and flooded type heat exchange technology. Its COP could reach 5.7
- Use low fin flooded type heat exchange tube and optimization design refrigerant distributor whose heat exchange factor is 3 times higher than traditional dry type evaoptrator improving the cooling capacity and COP efficiently.
- Seven lays protection are applied in the unit, at the same time, it monitors the high low pressure, discharge temperature water temperature etc. It ensures the unit runs safely.
- Unit applies fuzzy control theory and adjust the compressor Hence, capacity steplessly according to the water temperature. it can match the actual air conditioner load, and has higher part load performance factor

KCWF 2 410 A H 1

Refrigerant:1-- R134a, Omitted-- R22
Function Type: Omitted-- Standard Unit
H-- with Heat Recovery
Design Version
Model Code
Compressor Quantity
Water-cooled Screw Flooded Chiller

R22 Series Technical Parameter

Model	KCWF	1080B	1100B	1120B	1150B	1180B	1200B	1220B	1255B	1270B	1310B	1340B	1380B	1440B	1510B	1380B	1440B	1510B		
Cooling Capacity	kW	275	345	416	525	630	680	768	892	957	1095	1195	1340	1550	1800	1340	1550	1800		
	kcal/h	236500	296700	357800	451500	541800	584800	660500	767100	823000	941700	1027700	1152400	1333000	1548000	1152400	1333000	1548000		
Input Power	kW	52.5	63.5	77.4	96	115.9	124	138	157.6	172.8	193.4	212	238	275	319	238	275	319		
Rated Current	A	96	118	138	171	184	222	260	294	324	353	380	400	471	541	25.8/15.3 ³	29.8/17.3 ³	34.2/20.3 ³		
Power Supply		380V/3N~/50Hz															600V/1000V/3N~/50Hz			
Capacity Regulating		25%~100%																		
Compressor	Type	5-6 asymmetric serrated semi-hermetic screw compressor																		
	Start Up	Y-Δ															Self Stater			
	Qty	Set	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Oil Heater	W	300															/			
Evaporator	Type	Flooded Type High Efficient Heat Exchanger																		
	Water Flow	m³/h	47	59	72	90	108	117	132	153	165	188	206	230	267	310	230	267	310	
	Pressure Drop	kPa	45	45	45	48	78	78	81	78	77	77	85	85	85	85	85	85	85	
	Pipe Dia	DN	100	100	100	125	125	125	150	150	150	150	200	200	200	200	200	200	200	
Condenser	Type	Shell and Tube Heat Exchanger																		
	Water Flow	m³/h	59	74	89	113	135	146	165	192	206	235	257	288	333	387	288	333	387	
	Pressure Drop	kPa	50	52	52	55	80	80	80	80	80	88	88	88	88	88	88	88	88	
	Pipe Dia	DN	100	100	125	125	150	150	150	150	150	200	200	200	200	250	200	200	250	
Weight Dimension	Refrigerant	Type	R22																	
		Weight	kg	100	115	115	120	175	175	160	205	205	215	245	260	300	330	260	300	330
		Length	mm	3100	3100	3100	3000	3650	3650	3550	3600	3600	3700	3750	3750	3700	3800	3750	3750	3800
		width	mm	1120	1120	1260	1260	1450	1450	1550	1650	1650	1600	1700	1700	2200	2200	2350	2350	2350
		height	mm	1700	1700	1800	1850	2050	2200	2200	2250	2250	2300	2500	2500	2850	2850	2800	2850	2850
		Transportation	kg	2400	2550	2800	3100	3500	3550	3600	4000	4000	4350	5550	5800	7000	7200	5800	7000	7200
Operation	kg	2550	2700	3000	3300	3750	3800	3850	4300	4300	4700	5950	6250	7550	7790	6250	7550	7790		

Note:
1.Design, manufacture and test are comply with GB/T18430.1-2007.
2.Above data is based on chilled water 7 ,cooling water 30 .
3.For selection please contact Kingair for detail. We would do our best to meet customer's require.

Nominal Cooling Condition	Chilled Water		Cooling Water	
	Entering Temperature (°C)	Leaving Temperature (°C)	Entering Temperature (°C)	Leaving Temperature (°C)
	-	7	30	-
Safety Operation Range	Leaving Temperature (°C)	Temperature Difference (°C)	Entering Temperature (°C)	Temperature Difference (°C)
	5~15	2.5~8	19~35	3.5~8

R22 Series Technical Parameter (Double Compressor)

Model KCWF		21608	22008	22408	22708	23008	23308	23608	23908	24108	24408	24708	25108	25308	
Cooling	kW	550	690	832	950	1050	1160	1260	1360	1448	1524	1654	1784	1860	
Capacity	kcal/h	473000	593400	715520	817000	903000	997600	1083600	1169600	1245300	1310600	1422400	1534200	1599600	
Input Power	kW	105	127	154.8	177.5	192	214	231.8	248	256	276	295.6	315.2	330.4	
Rated Current	A	96+96	118+118	138+138	138+177	171+171	171+184	184+184	222+222	222+260	222+260	260+260	294+294	294+430	
Power Supply	380V/3N~/50Hz														
Capacity Regulating	12.5%~100%														
Compressor	Type	5-6 asymmetric serrated semi-hermetic screw compressor													
	Start Up	Y-Δ													
	Qty	台	2	2	2	2	2	2	2	2	2	2	2	2	
Oil Filler	W	300													
Evaporator	Type	Flooded Type High Efficient Heat Exchanger													
	Water Flow	m³/h	95	119	143	163	181	200	217	234	249	262	284	307	320
	Pressure Drop	kPa	62	63	62	62	63	60	66	60	66	72	67	63	67
	Pipe Dia	DN	125	125	150	150	150	200	200	200	200	200	200	200	200
Condenser	Type	High Efficient Heat Exchanger													
	Water Flow	m³/h	118	148	179	204	226	249	271	292	311	328	356	384	400
	Pressure Drop	kPa	55	55	58	58	58	60	60	60	58	60	60	55	60
	Pipe Dia	DN	125	150	150	150	200	200	200	200	200	200	200	250	250
Weight Dimension	Type	R22													
	Weight	kg	190	220	240	280	320	350	350	410	410	410	425	470	470
	Length	mm	4500	4650	4550	4600	4700	4700	4700	4700	4600	4600	4600	4850	4850
	Width	mm	1450	1500	1600	1650	1600	1650	1800	1850	1850	1850	1850	2100	2100
	Height	mm	1900	1900	1950	1950	2000	2200	2150	2200	2300	2300	2300	2300	2300
	Importation	kg	4000	4400	4800	5400	5800	6400	6500	7100	7150	7150	7300	8380	8380
	Operation	kg	4350	4750	5200	5800	6200	6950	7050	7650	7780	7780	8350	9150	9150

Model		KC4WF	2550B	2620B	2680B	2760B	2820B	2880B	2950B	2A20B	2760B	2820B	2880B	2950B	2A20B	
Cooling Capacity		kW	1914	2190	2390	2680	2890	3100	3350	3600	2680	2890	3100	3350	3600	
		kcal/h	1646000	1883400	2055400	2304800	2485400	2666000	2881000	3096000	2304800	2485400	2666000	2881000	3096000	
Input Power		kW	339.2	386.8	414	476	513	550	594	638	476	513	550	594	638	
Rated Current		A	294 + 324	353+353	353+380	400+400	406+487	471+471	471+541	541+541	(2x25.8) / (2x15.9)A	(25.8+29.8) / (15.9+17.7)A	(2x29.8) / (2x17.7)A	(29.8+34.2) / (17.7+20.3)A	(2x34.2) / (2x20.3)A	
Power Supply			380V/3N~/50Hz								6000V/10000V/3N~/50Hz					
Capacity Regulating			12.5%~100%													
Compressor	Type		5-6 asymmetric serrated semi-hermetic screw compressor													
	Start Up		Y-Δ								Self Starter					
	Qty	台	2	2	2	2	2	2	2	2	2	2	2	2	2	
	Oil Heater		W	300								/				
Evaporator	Type		Flooded Type High Efficient Heat Exchanger													
	Water Flow	m³/h	329	377	411	461	497	533	576	619	461	497	533	576	619	
	Pressure Drop	kPa	72	65	75	75	115	115	116	116	114	115	115	116	116	
	Pipe Dia	DN	200	250	250	250	250	250	300	300	250	250	250	300	300	
Condenser	Type		High Efficient Heat Exchanger													
	Water Flow	m³/h	412	471	514	576	621	667	720	774	576	621	667	720	774	
	Pressure Drop	kPa	62	58	80	80	111	111	112	114	110	111	111	112	114	
	Pipe Dia	DN	250	250	250	250	300	300	300	300	250	300	300	300	300	
Refrigerant	Type		R22													
	Weight	kg	470	505	710	750	800	835	875	900	770	800	835	875	900	
	Length	mm	4850	4650	4650	5400	5950	5950	5850	5850	5850	5950	5950	5850	5850	
	Width	mm	2100	2100	2100	2100	2300	2300	2350	2350	2500	2500	2500	2550	2550	
	Height	mm	2300	2350	2500	2500	3000	3000	3050	3050	3000	3000	3000	3050	3050	
	Weight	kg	8380	8800	11200	11500	11850	12750	13350	13550	11650	11850	12750	13350	13550	
Operation	kg	9150	9740	12200	12600	13200	14200	14900	15150	12750	13200	14200	14900	15150		

Note:
1. Design, manufacture and test are comply with GB/T18430.1-2007.
2. Above data is based on chilled water 7 ,cooling water 30 .
3. For selection please contact Kingair for detail. We would do our best to meet customer's require.

R22 Series Technical Parameter (Single Compressor)

Model KCWF		1080BH	1100BH	1208H	1150BH	1180BH	1200BH	1220BH	1255BH	1270BH	1310BH	1340BH	1380BH	1440BH	1510BH	
Cooling Capacity	kW	275	345	416	525	630	680	768	892	957	1095	1195	1340	1550	1800	
	kcal/h	236500	296700	357800	451500	541800	584800	660500	767100	823000	941700	1027700	1152400	1333000	1548000	
Heat Recovery	kW	83	104	125	158	189	204	230	268	287	329	358	402	465	540	
Input power	kW	52.5	63.5	77.4	96	115.9	124	138	157.6	172.8	193.4	212	238	275	319	
Rater current	A	96	118	138	171	208	217	252	279	305	340	364	406	471	541	
Power Sullypy		380V/3N~/50Hz														
Capacity Regulating		25%—100%														
Compressor	Type	5-6 asymmetric serrated semi-hermetic screw compressor														
	Start Up	Y-Δ														
	Qty	台	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Oil Heater	W	300													
Evaporator	Type	Flooded Type High Efficient Heat Exchanger														
	Water Flow	m³/h	47	59	72	90	108	117	132	153	165	188	206	230	267	310
	Pressure Drop	kPa	45	45	45	45	48	78	78	181	78	77	77	85	85	85
	Pipe Dia	DN	100	100	100	125	125	125	150	150	150	150	200	200	200	200
Condenser	Type	Shell and Tube Heat Exchanger														
	Water Flow	m³/h	59	74	89	113	135	146	165	192	206	235	257	288	333	387
	Pressure Drop	kPa	50	52	52	55	80	80	80	80	80	80	88	88	88	88
	Pipe Dia	DN	100	100	125	125	150	150	150	150	150	200	200	200	200	250
Refrigerant Heat Recovery	Type	R22														
	Water Flow	m³/h	14	18	21	27	33	35	40	46	49	57	62	69	81	94
	Pressure Drop	kPa	36	44	38	50	38	42	47	42	48	42	45	45	56	56
	Pipe Dia	DN	50	50	65	65	65	65	80	80	80	80	100	100	125	125
Weight Dimension	Type	R22														
	Qty	kg	100	115	115	120	175	175	160	205	205	215	245	260	300	330
	Length	mm	3100	3100	3100	3000	3650	3650	3550	3600	3600	3700	3750	3750	3700	3800
	Width	mm	1400	1400	1520	1520	1610	1610	1660	1800	1800	1700	1700	1550	2200	2200
	Height	mm	1910	1910	1950	2000	2100	2100	2250	2250	2250	2320	2600	2500	2850	2850
	Transportation Operation	kg	2700	2900	3100	3500	3900	4000	4050	4500	4500	4900	6050	6250	7580	7820
	kg	2900	3100	3350	3800	4200	4300	4350	4900	4900	5300	6500	6700	8200	8490	

R22 Series Technical Parameter (Double Compressor)

Model KCWF		2160BH	2200BH	2240BH	2270BH	2300BH	2330BH	2360BH	2390BH	2410BH	2440BH	2470BH	
Cooling Capacity	kW	550	690	832	950	1050	1160	1260	1360	1448	1524	1654	
	kcal/h	473000	593400	715200	817000	903000	997600	1083600	1169600	1245300	1310600	1422400	
Heat Recovery	kW	165	207	250	285	315	348	378	408	434	457	496	
Input Power	kW	105	127	154.8	177.5	192	214	231.8	248	256	276	295.6	
Rated Current	A	96+96	118+118	138+138	138+177	171+171	173+208	208+208	217+217	217+252	252+252	252+279	
Power Supply		380V/3N~/50Hz											
Capacity Regulating		12.5%~100%											
Compressor	Type	5-6 asymmetric serrated semi-hermetic screw compressor											
	Start Up	Y-Δ											
	Qty	台	2	2	2	2	2	2	2	2	2	2	
	Oil Heater	W	300										
Evaporator	Type	Flooded Type High Efficient Heat Exchanger											
	Water Flow	m³/h	95	119	143	163	181	200	217	234	249	262	284
	Pressure Drop	kPa	62	63	62	62	63	60	66	60	66	72	67
	Pipe Dia	DN	125	125	150	150	150	200	200	200	200	200	200
Condenser	Type	Shell and Tube Heat Exchanger											
	Water Flow	m³/h	118	148	179	204	226	249	271	292	311	328	356
	Pressure Drop	kPa	55	55	58	58	58	60	60	60	58	60	60
	Pipe Dia	DN	125	150	150	150	200	200	200	200	200	200	200
	Water Flow	m³/h	28	36	43	49	54	60	65	70	75	79	85
	Pressure Drop	kPa	50	50	52	52	52	55	55	55	52	57	56
	Pipe Dia	DN	65	65	80	80	100	100	100	100	100	100	125
	Type	R22											
Weight Dimension	Weight	kg	190	220	240	280	320	350	350	410	410	410	425
	Length	mm	4500	4650	4550	4600	4700	4700	4700	4700	4600	4600	4600
	Width	mm	1450	1500	1600	1650	1650	1700	1900	1900	1900	1900	1900
	Height	mm	2000	2000	2060	2060	2150	2320	2320	2320	2400	2400	2400
	Transportation	kg	4500	5000	5500	6200	6600	7300	7500	8150	8200	8200	8800
	Operation	kg	4900	5400	6000	6700	7100	8000	8200	8800	9000	9000	9600

Note:
1. Design, manufacture and test are comply with GB/T18430.1-2007.
2. Above data is based on chilled water 7 ,cooling water 30 .
3. For selection please contact Kingair for detail. We would do our best to meet customer's require

R22 Series Technical Parameter (Double Compressor)

Model KCWF		2510BH	2530BH	2550BH	2620BH	2680BH	2760BH	2820BH	2880BH	2950BH	2A20BH	
Cooling Capacity	kW	1784	1860	1914	2190	2390	2680	2890	3100	3350	3600	
	kcal/h	1534200	1599600	1646000	1883400	2055400	2304800	2485400	2666000	2881000	3096000	
Heat Recovery	kW	535	558	574	657	716	800	865	930	1000	1080	
Input Power	kW	315.2	330.4	339.2	386.8	414	476	513	550	594	638	
Rated Current	A	279+279	279+305	305+305	340+340	364+364	406+406	406+487	471+471	471+541	541+541	
Power Sullyp		380V/3N~/50Hz										
Capacity Regulating		12.5%~100%										
Compressor	Type	5-6 asymmetric serrated semi-hermetic screw compressor										
	Start Up	Y-Δ										
	Qty	台	2	2	2	2	2	2	2	2	2	
Oil Heater	W	300										
Evaporator	Type	Flooded Type High Efficient Heat Exchanger										
	Water Flow	m³/h	307	320	329	377	411	461	497	533	576	619
	Pressure Drop	kPa	63	67	72	65	75	75	115	115	116	116
	Pipe Dia	DN	200	200	200	250	250	250	250	250	300	300
Condenser	Type	Shell and Tube Heat Exchanger										
	Water Flow	m³/h	384	400	412	471	514	576	621	667	720	774
	Pressure Drop	kPa	55	60	62	58	80	80	111	111	112	114
	Pipe Dia	DN	250	250	250	250	250	250	300	300	300	300
Refrigerant	Water Flow	m³/h	92	96	99	113	123	138	151	162	174	188
	Pressure Drop	kPa	51	55	58	52	58	58	54	54	55	55
	Pipe Dia	DN	125	125	125	125	150	150	150	150	150	150
	Type	R22										
Weight Dimension	Weight	kg	470	470	470	505	710	750	800	835	875	900
	Length	mm	4850	4850	4850	4650	5400	5400	5950	5950	5850	5850
	Width	mm	2200	1950	2200	2050	2050	2050	2300	2300	2350	2350
	Height	mm	2400	2400	2400	2450	2650	2650	3000	3000	3050	3050
	Transportation	kg	9600	9600	9600	10000	12000	12300	12670	13690	14330	14560
	Operation	kg	10500	10500	10500	11000	13000	13300	14140	15270	16020	16300

High Voltage Technical Parameter (R22)

Model KCWF		1380BO	1430BO	1510BO	2760BO	2820BO	2860BO	2950BO	2A20BO	
Cooling Capacity	kW	1340	1550	1800	2680	2890	3100	3350	3600	
	10 ³ kcal/h	115	133	155	230	249	267	288	310	
Electrical performance	Power Supply	6000V(10000V)/3N~/50HZ				6000V(10000V)/3N~/50HZ				
	Input Power	kW	246	288	329	492	534	576	617	658
	Rated Current	A	26.3 ^a /15.8 ^a	30.7 ^a /18.4 ^a	35.1 ^a /21 ^a	(2X26.3)/(2X15.8) ^b	(2X30.7)/(2X18.4) ^b	(30.7+35.1) ^b /(18.4+21) ^b	(2X35.1)/(2X21) ^b	
	Type	screw compressor				screw compressor				
	Qty	台	1	1	1	2	2	2	2	2
	Start Up	Direct				Direct				
Compressor	Capacity Regulating	25%~100%				25%~100%				
	Type	Flooded Type High Efficient Heat Exchanger				Flooded Type High Efficient Heat Exchanger				
	Water Flow	m ³ /h	230	267	310	461	497	533	576	619
	Pressure Drop	kPa	85	85	85	85	85	85	85	85
	Pipe Dia	DN	200	200	200	200×2组	200×2组	200×2组	200×2组	200×2组
	Working Pressure	MPa	1.0				1.0			
Evaporator	Type	Shell and Tube Heat Exchanger				Shell and Tube Heat Exchanger				
	Water Flow	m ³ /h	273	316	366	545	589	632	682	732
	Pressure Drop	kPa	88	88	88	88	88	88	88	88
	Pipe Dia	DN	200	200	200	200×2组	200×2组	200×2组	200×2组	200×2组
	Working Pressure	MPa	1.0				1.0			
	Type	R22				R22				
Refrigerant	weight	kg	260	300	330	520	560	600	630	660
	Length	mm	3800	4000	4000	3800	4000	4000	4000	4000
	Width	mm	2350	2450	2450	5400	5600	5600	5600	5600
	Height	mm	2850	2850	2850	2850	2850	2850	2850	2850
	Transportation	kg	6300	7500	7700	12600	13800	15000	15200	15400
	Operation	kg	6750	8050	8290	13500	14800	16100	16340	16580

Note:

1. "a" means the voltage is 6000V, "b" means the voltage is 10000V, please specify the type of power supply when ordering.

2. Design, manufacture and test are comply with GB/T18430.1-2007.

3. Above data is based on chilled water outlet temperature 7degC, cooling water inlet temperature 30degC.

4. Dual compressor unit is combined by two unit single compressor, can be transported separately.

5. For selection please contact Kingair for detail. We would do our best to meet customer's require.

R134a Series Technical Parameter (Single Compressor)

Model KCWF		1070A1	1080A1	1090A1	1105A1	1120A1	1135A1	1150A1	1165A1	1185A1	1210A1	1240A1	
Cooling capacity	kW	245	288	320	365	420	465	530	582	655	730	840	
	kcal/h	210700	247680	275200	313900	361200	400000	455800	500000	563300	627800	722400	
Input Power	kW	44.3	52.2	57.8	65.4	74.1	82.2	93.4	102.7	113.9	126.6	149	
Rated Current	A	75.2	88.5	98.1	111	125.7	139.6	158.5	174.4	193.3	214.9	265.2	
Power Supply		380V/3N~/50Hz											
Capacity Regulating		25%~100%											
Compressor	Type	5-6 asymmetric serrated semi-hermetic screw compressor											
	Start Up	Y-Δ											
	Qty	set	1	1	1	1	1	1	1	1	1	1	
	Oil Heater	W	300										
Evaporator	Type	Flooded Type High Efficient Heat Exchanger											
	Water Flow	m³/h	42	50	55	63	72	80	91	100	113	126	144
	Pressure Drop	kPa	45	44	45	45	44	44	79	78	86	84	80
	Pipe Dia	DN	100	100	100	100	125	125	125	125	125	125	150
Condenser	Type	Shell and Tube Heat Exchanger											
	Water Flow	m³/h	53	62	69	78	90	100	114	125	141	157	181
	Pressure Drop	kPa	45	48	45	45	50	45	76	76	76	76	76
	Pipe Dia	DN	100	100	100	125	125	125	125	125	150	150	150
Refrigerant	Type	R134a											
	Weight	kg	100	115	110	125	115	120	145	150	175	160	205
	Legth	mm	3100	3100	3100	3100	3100	3000	3500	3500	3650	3550	3600
	width	mm	1100	1100	1100	1100	1150	1250	1300	1300	1300	1300	1500
Weight	Height	mm	1750	1750	1750	1800	1800	1850	2000	2000	2000	2000	2250
	Transportation	kg	2600	2700	2800	3000	3100	3300	3600	3700	3800	4200	4600
	Operation	kg	2700	2800	2950	3150	3250	3500	3800	3900	4000	4450	4900

Model KCWF		1280A1	1320A1	1385A1	1430A1	1240A1	1280A1	1320A1	1385A1	1430A1	
Cooling Capacity	kW	980	1120	1350	1500	840	980	1120	1350	1500	
	kcal/h	842800	963200	1161000	1290000	722400	842800	963200	1161000	1290000	
Input power	kW	174	198.3	233	259	140	174	198.3	233	259	
Rated Current	A	305.3	347.1	399	443	6.8/10.1 ¹	8.6/11.7 ²	22/13.2 ²	25.3/15.2 ²	28.1/16.8 ²	
Power Supply					380V/3N~/50Hz		6000V/10000V/3N~/50Hz				
Capacity Regulating					25%—100%						
Compressor	Type		5-6 asymmetric serrated semi-hermetic screw compressor								
	Start up		Y-Δ				Direct				
	Qty	Set	1	1	1	1	1	1	1	1	
	Oil Heater	W	300				/				
Evaporator	Type		Flooded Type High Efficient Heat Exchanger								
	Water Flow	m³/h	169	193	232	258	44	169	193	232	258
	Pressure Drop	kPa	85	82	82	82	80	85	82	82	82
	Pipe Dia	DN	150	200	200	200	150	150	200	200	200
Condenser	Type		Shell and Tube Heat Exchanger								
	Water Flow	m³/h	211	241	300	323	181	211	241	290	323
	Pressure Drop	kPa	78	87	3800	80	76	78	87	80	80
	Pipe Dia	DN	150	200	2200	200	150	150	200	200	200
Refrigerant	Type		R134a								
	weight	kg	215	240	300	300	205	215	240	300	300
	Length	mm	3650	3750	3800	3800	3650	3640	3750	3800	3800
	Width	mm	2100	2100	2200	2200	2300	2300	2300	2400	2400
Weight Dimension	Height	mm	2800	2800	2800	2800	2750	2750	2800	2800	2800
	Transportation	kg	5050	6300	7800	8000	4600	5050	6300	7800	8000
	Operation	kg	5400	6850	8500	8700	4900	5400	6850	8500	8700

R134a Series Technical Parameter (Double Compressor)

Model KCWF		2180A1	2200A1	2210A1	2225A1	2240A1	2255A1	2270A1	2285A1	2300A1	
Cooling capacity	kW	640	698	730	785	840	885	930	995	1060	
	kcal/h	550400	600000	627800	675100	722400	761100	800000	855700	911600	
Input Power	kW	115.6	125	130.8	140	148.2	156	164.4	176	186.6	
Rated Current	A	98.1+98.1	106+106	111+111	111+125.7	125.7+125.7	132.5+132.5	139.6+139.6	149+149	158.5+158.5	
Power Supply		380V/3N~/50Hz									
Capacity Regulating		12.5%~100%									
Compressor	Type	5-6 asymmetric serrated semi-hermetic screw compressor									
	Start Up	Y-Δ									
	Qty	台	2	2	2	2	2	2	2	2	
	Oil Heater	W	300								
Evaporator	Type	Flooded Type High Efficient Heat Exchanger									
	Water Flow	m³/h	110	120	126	135	144	152	160	171	182
	Pressure Drop	kPa	66	61	70	60	68	61	69	60	68
	Pipe Dia	DN	150	150	150	150	150	150	150	150	200
Condenser	Type	Shell and Tube Heat Exchanger									
	Water Flow	m³/h	138	150	157	169	181	190	200	214	228
	Pressure Drop	kPa	52	52	58	50	55	50	52	50	55
	Pipe Dia	DN	150	150	150	150	150	150	150	200	200
Refrigerant	Type	R134a									
	Weight	kg	225	225	225	245	245	300	300	340	340
Dimension	Legth	mm	4650	4650	4650	4550	4550	4600	4600	4700	4700
	width	mm	1450	1450	1450	1500	1500	1550	1550	1750	1750
	Hight	mm	1900	1900	1900	1950	1950	1950	1950	2150	2150
Weight	Transportation	kg	4850	4950	5000	5300	5350	5650	5700	6200	6250
	Operation	kg	5000	5100	5150	5500	5550	5850	5900	6450	6500

R134a Series Technical Parameter (Double Compressor)

Model KCWF		2315A1	2330A1	2350A1	2370A1	2390A1	2410A1	2430A1	2480A1	2520A1	
Cooling capacity	kW	1115	1170	1240	1310	1390	1460	1520	1680	1820	
	kcal/h	958900	1000000	1066400	1126600	1200000	1255600	1307200	1444800	1565200	
Input Power	kW	196	205.4	217	227.8	241	253.2	270	298	323	
Rated Current	A	166.5+166.5	174.4+174.4	174.4+193.6	193.3+193.3	193.3+214.9	214.9+214.9	219.6+265.2	265.2+265.2	263.1+307.4	
Power Supply		380V/3N~/50Hz									
Capacity Regulating		12.5%—100%									
Compressor	Type	5-6 asymmetric serrated semi-hermetic screw compressor									
	Start Up	Y-Δ									
	Qty	台	2	2	2	2	2	2	2	2	
	Oil Heater	W	300								
Evaporator	Type	Flooded Type High Efficient Heat Exchanger									
	Water Flow	m³/h	192	200	213	225	240	251	261	289	313
	Pressure Drop	kPa	68	68	68	68	68	68	90	90	116
	Pipe Dia	DN	200	200	200	200	200	200	200	200	200
Condenser	Type	Shell and Tube Heat Exchanger									
	Water Flow	m³/h	240	252	267	282	299	314	327	361	391
	Pressure Drop	kPa	50	52	50	55	50	55	80	82	101
	Pipe Dia	DN	200	200	200	200	200	200	250	250	250
Refrigerant	Type	R134a									
	Weight	kg	320	320	350	350	410	410	480	540	560
Dimension	Legth	mm	4700	4700	4700	4700	4600	4600	5150	5300	5850
	width	mm	1750	1750	1850	1850	1900	1900	1900	2000	2100
	Hight	mm	2150	2150	2150	2150	2250	2250	2350	2400	2850
Weight	Transportation	kg	6450	6500	7000	7100	7400	7500	8700	9700	10050
	Operation	kg	6700	6750	7300	7400	7700	7800	9350	10450	10850

Note:

1. "a" means the voltage is 6000V, "b" means the voltage is 10000V, please specify the type of power supply when ordering.
2. Design, manufacture and test are comply with GB/T18430.1-2007.
3. Above data is based on chilled water outlet temperature 7degC, cooling water inlet temperature 30degC.
4. Dual compressor unit is combined by two unit single compressor, can be transported separately.
5. For selection please contact Kingair for detail. We would do our best to meet customer's require.

R134a Series Technical Parameter (Double Compressor)

Model KCWF		2560A1	2600A1	2640A1	2710A1	2770A1	2820A1	2860A1	2480A1	
Cooling capacity	kW	1960	2100	2240	2460	2700	2860	3000	1680	
	kcal/h	1685600	1806000	1926400	2115600	2322000	2459600	2580000	1444800	
Input Power	kW	348	372.3	396.6	425	466	492	518	298	
Rated Current	A	305.3+305.3	305.3+347.1	347.1+347.1	328+399	399+399	399+443	443+443	(2x16.8)/(2x10.1)	
Power Supply		380V/3N~/50Hz							6000V/10000V/3N~/50Hz±	
Capacity Regulating		12.5%—100%								
Compressor	Type		5-6 asymmetric serrated semi-hermetic screw compressor							
	Start Up		Y-△							Direct
	Qty	台	2	2	2	2	2	2	2	
	Oil Heater	W	300							
Evaporator	Type		Flooded Type High Efficient Heat Exchanger							
	Water Flow	m³/h	337	361	385	423	464	492	516	289
	Pressure Drop	kPa	117	115	117	114	114	114	114	90
	Pipe Dia	DN	200	250	250	250	250	250	250	200
Condenser	Type		Shell and Tube Heat Exchanger							
	Water Flow	m³/h	421	452	482	529	581	615	645	361
	Pressure Drop	kPa	102	101	100	101	101	101	101	82
	Pipe Dia	DN	250	250	250	250	300	300	300	250
Refrigerant	Type		R134a							
	Weight	kg	570	600	640	640	710	800	800	540
Dimension	Legth	mm	5850	5850	5800	5850	5850	5950	5950	5800
	width	mm	2100	2150	2150	2150	2250	2300	2350	2300
	Hight	mm	2850	2900	2900	2900	2900	2900	2900	2850
Weight	Transportation	kg	11000	11150	11450	15500	16500	17000	17500	9850
	Operation	kg	11850	12100	12500	16500	17500	18000	18500	10600

R134a High Voltage Technical Parameter

Model KCWF		2520A1	2560A1	2600A1	2640A1	2710A1	2770A1	2820A1	2860A1	
Cooling capacity	kW	1820	1960	2100	2240	2460	2700	2860	3000	
	kcal/h	1565200	1685600	1806000	1926400	2115600	2322000	2459600	2580000	
Input Power	kW	323	348	372.3	396.6	425	466	492	518	
Rated Current	A	(16.8+18.8)/(10.1+11.7)*	(2X18.8)/(2X11.7)*	(18.6+22)/(11.7+13.2)*	(2X22)/(2X13.2)*	(20.7+23.3)/(12.4+15.2)*	(2X25.3)/(2X15.2)*	(25.3+28)/(15.2+16.8)*	(2X28.1)/(2X16.8)*	
Power Supply		6000V/10000V/3N~/50Hz								
Capacity Regulating		12.5%~100%								
Compressor	Type	5-6 asymmetric serrated semi-hermetic screw compressor								
	Start Up	Direct								
	Qty	台	2	2	2	2	2	2	2	
	Oil Heater	W	300							
Evaporator	Type	Flooded Type High Efficient Heat Exchanger								
	Water Flow	m³/h	313	337	361	385	423	464	492	516
	Pressure Drop	kPa	116	117	115	117	114	114	114	114
	Pipe Dia	DN	200	200	250	250	250	250	250	250
Condenser	Type	Shell and Tube Heat Exchanger								
	Water Flow	m³/h	391	421	452	482	529	581	615	645
	Pressure Drop	kPa	101	102	101	100	101	101	101	101
	Pipe Dia	DN	250	250	250	250	250	300	300	300
Refrigent	Type	R134a								
	Weight	kg	560	570	600	640	640	710	800	800
Dimension	Legth	mm	5850	5850	5850	5800	5850	5850	5950	5950
	width	mm	2350	2350	2400	2450	2450	2450	2500	2550
	Hight	mm	2850	2850	2850	3000	3000	3000	3000	3000
	Weight	Transportation	kg	10050	11000	11150	11450	15500	16500	17000
	Operation	kg	10850	11850	12100	12500	16500	17500	18000	18500

Note:

1. "a" means the voltage is 6000V, "b" means the voltage is 10000V, please specify the type of power supply when ordering.
2. Design, manufacture and test are comply with GB/T18430.1-2007.
3. Above data is based on chilled water outlet temperature 7degC, cooling water inlet temperature 30degC.
4. Dual compressor unit is combined by two unit single compressor, can be transported separately.
5. For selection please contact Kingair for detail. We would do our best to meet customer's require.

High Efficiency Centrifugal Chiller



- All models of frequency conversion falling film centrifugal chiller and Ultra high efficiency frequency falling film centrifugal chiller can meet Chinese first grade energy efficiency
- With guide vane prewhirl and adjustable diffuser dual modulation technique, expand the unit operation range. Unit can adjust step less in the range 10%-100%
- Unit had multi ant surge function and complexly protection system, make sure the unit can operate safety and steady in kinds of working condition
- Unit adopt advantage microcomputer controller with true color touch screen who interlocking control with pump, start cabinet, assure the unit steady high efficient auto running

KMC 1 1500 A R H W E V 1-6

- (11) Power supply code: 6-6KV, 10-10KV, default-380V
- (10) Refrigerant type: 1-R134a
- (9) Frequency conversion type: V-Frequency conversion
- M-Meglev frequency conversion, default-constant speed
- (8) Energy efficiency type: E-Ultra high efficiency Default-High efficiency
- (7) Condenser type: W-Water cooled F-Air cooled I-Condensing type
- (6) Heat recovery option: H-With Heat recovery function Default-Without
- (5) Function code: R-Heat Pump Default-cooling only
- (4) Design serial: A-Serial A
- (3) Unit code: 0600-Nominal capacity 600RT 1500-Nominal capacity 1500RT
- (2) Compressor qty: 1-one compressor
- (1) Chiller Type: KMC-KINGAIR centrifugal chiller

KMC-AWE1 Series Technical Parameter (GB Condition)

Model	KMC	10600AWE1	10650AWE1	10700AWE1	10750AWE1	10800AWE1	10850AWE1	10900AWE1	10950AWE1	11000AWE1	11100AWE1	11200AWE1	11300AWE1
Cooling Capacity	RT	600.6	650.3	700.6	750.4	800.5	850.7	900.6	950.8	1001	1101	1202	1301
	kW	2112	2286	2463	2638	2815	2991	3167	3343	3520	3871	4226	4574
	10 ⁴ kcal/h	181.6	196.6	211.8	226.8	242.0	257.2	272.3	287.4	302.7	333.8	363.4	393.3
Input Power	kW	334.2	361.5	388.4	415.3	443.5	471.8	498.5	524.3	552.6	608.2	659.3	713.6
COP	W/W	6.32	6.32	6.34	6.35	6.35	6.34	6.35	6.38	6.37	6.36	6.41	6.41
IPLV	W/W	6.51	6.52	6.48	6.49	6.51	6.50	6.58	6.64	6.60	6.59	6.64	6.57
Energy efficiency	/	1级	1级	1级	1级	1级	1级	1级	1级	1级	1级	1级	1级
Motor Power	kW	490.0	490.0	490.0	490.0	560.0	560.0	630.0	630.0	695.0	760.0	840.0	
power supply	/	380V-3PH-50Hz											
rated current	A	580.4	627.7	674.5	721.1	770.2	819.3	865.5	910.4	959.5	1056	1145	1239
Max Operating Current	A	652.5	704.0	768.8	817.4	855.7	912.6	966.6	1008	1063	1171	1290	1391
Start Current	A	4700	4700	4700	4700	5400	5400	6100	6100	6100	6800	7400	9200
Evaporator	Water Flow	m ³ /h	363.3	393.2	423.6	453.7	484.2	514.5	544.7	575.0	605.4	665.8	726.9
	Pressure Drop	kPa	47.4	56	56.6	59.3	59.1	62.2	63.6	61.2	63	63.3	72.7
	Pipe Dia	mm	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300
Condenser	Water Flow	m ³ /h	454.1	491.5	529.5	567.2	605.2	643.1	680.9	718.7	756.8	832.3	908.6
	Pressure Drop	kPa	60.6	70.7	72.1	72.1	71.8	68.2	75.7	70.1	74.9	70.2	69
	Pipe	mm	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300
Demension	Length	mm	5020	5020	5020	5020	5020	5020	5020	5020	5045	5045	5045
	Width	mm	2100	2100	2100	2100	2100	2100	2100	2260	2260	2260	2260
	Height	mm	2510	2510	2510	2510	2510	2510	2510	2610	2610	2610	2610
Transportation Weight	kg	12130	12130	12130	12310	12460	12580	12720	12850	13560	13730	13950	14250
Operation Weight	kg	14250	14280	14310	14529	14740	14989	15207	15395	16372	16636	17023	17446

Remark: 1. The parameter in above sheet based on Chinese standard GB/T18430.1-2007, working condition: Chilled water outlet 7 °C, water flow=cooling capacity x0.172m³/h. °KW;
Cooling water inlet temperature 30C, water flow=cooling capacity x0.215m³/h. °KW;
2. Energy efficiency judgment is according to Chinese standard GB19577-2015
3. 600-1300RT chiller can use 10KW and other power supply optional. Detail technical data need ask from Kingair engineer
4. Evaporator and condenser both are dual circuits design, water side pressure 1.0Mpa, flange connection, water pipe flange connection comply with JB/T81-94.
5. If the working pressure higher than 1.0Mpa, please remark while order
6. The specification parameter is changed because the products are improved, forgive we for no issuing a separate notice. Please subject to the latest catalogue or material objects

KMC-AWE1 Series Technical Parameter (GB Condition)

Model	KMC	11400AWE1-10	11500AWE1-10	11600AWE1-10	11700AWE1-10	11800AWE1-10	11900AWE1-10	12000AWE1-10	12100AWE1-10	12200AWE1-10
Cooling Capacity	RT	1402	1502	1602	1700	1801	1901	2002	2101	2200
	kW	4929	5281	5633	5977	6332	6684	7039	7387	7735
	10 ⁴ kcal/h	423.8	454.1	484.4	513.9	544.5	574.7	605.2	635.2	665.1
Input Power	kW	766.9	820.1	870.5	899.3	949	995	1061	1125	1196
COP	W/W	6.43	6.44	6.47	6.65	6.67	6.72	6.63	6.57	6.47
IPLV	W/W	6.67	6.68	6.68	6.86	6.93	6.96	6.84	6.88	6.60
Energy efficiency	/	1级	1级	1级	1级	1级	1级	1级	1级	1级
Motor Power	kW	930.0	990.0	990.0	1100	1100	1200	1320	1320	1450
power supply	/	10KV-3PH-50Hz								
rated current	A	50.9	54.4	57.8	59.7	63.0	66.0	70.4	74.6	79.4
Max Operating Current	A	57.2	61.4	65.2	66.8	71.1	74.3	79.1	84.3	89.3
Start Current	A	380.0	405.0	405.0	450.0	450.0	490.0	540.0	540.0	590.0
Evaporator	Water Flow	m ³ /h	847.8	908.3	968.9	1028	1089	1150	1211	1271
	Pressure Drop	kPa	72.6	68.9	66.8	72.8	76.2	71.9	73.3	74.4
	Pipe Dia	mm	DN400	DN400	DN400	DN400	DN400	DN400	DN400	DN400
Condenser	Water Flow	m ³ /h	1060	1135	1211	1285	1361	1437	1513	1588
	Pressure Drop	kPa	73.6	79.6	76.6	88.2	83.5	80.9	72.2	73
	Pipe	mm	DN400	DN400	DN400	DN400	DN400	DN400	DN400	DN400
Demension	Length	mm	5690	5690	5690	5690	5690	5790	5790	5790
	Width	mm	2800	2800	2800	2800	2800	3150	3150	3150
	Height	mm	3010	3010	3010	3010	3010	3180	3180	3180
Transportation Weight	kg	22324	22406	22515	24030	24817	25312	25543	25949	26250
Operation Weight	kg	25944	25985	26055	27640	28727	28992	29443	30019	30306

Remark: 1. The parameter in above sheet based on Chinese standard GB/T18430.1-2007, working condition: Chilled water outlet 7 °C, water flow=cooling capacity x0.172m³/h. °KW;
Cooling water inlet temperature 30C, water flow=cooling capacity x0.215m³/h. °KW;
2. Energy efficiency judgment is according to Chinese standard GB19577-2015
3. 600-1300RT chiller can use 10KW and other power supply optional. Detail technical data need ask from Kingair engineer
4. Evaporator and condenser both are dual circuits design, water side pressure 1.0Mpa, flange connection, water pipe flange connection comply with JB/T81-94.
5. If the working pressure higher than 1.0Mpa, please remark while order
6. The specification parameter is changed because the products are improved, forgive we for no issuing a separate notice. Please subject to the latest catalogue or material objects

Model	KMC	10600AWE1	10650AWE1	10700AWE1	10750AWE1	10800AWE1	10850AWE1	10900AWE1	10950AWE1	11000AWE1	11100AWE1	11200AWE1	11300AWE1
Cooling Capacity	RT	600.3	650.6	700.4	750.6	800.2	850.5	900.6	950.9	1001	1101	1202	1301
	kW	2111	2288	2463	2639	2814	2990	3167	3343	3520	3871	4226	4574
	104kcal/h	181.5	196.7	211.8	226.9	242.0	257.1	272.3	287.4	302.7	332.8	363.4	393.3
Input Power	kW	341.7	370.3	399.1	426.8	460.1	487.2	513.9	542.2	569.5	622.2	675.8	732.1
COP	W/W	6.18	6.18	6.17	6.18	6.12	6.14	6.16	6.17	6.18	6.22	6.25	6.25
IPLV	W/W	6.33	6.34	6.33	6.32	6.31	6.34	6.31	6.45	6.38	6.42	6.42	6.45
Energy efficiency	/	2级	2级	2级	2级	2级	2级	2级	2级	2级	2级	2级	2级
Motor Power	kW	490.0	490.0	490.0	490.0	560.0	560.0	630.0	630.0	630.0	695.0	760.0	840.0
power supply	/	380V-3PH-50Hz											
rated current	A	593.4	643.1	693.0	741.1	799.0	846.0	892.4	941.4	988.8	1080	1173	1272
Max Operating Current	A	672.7	719.2	775.2	841.1	885.3	944.9	992.9	1044	1095	1199	1325	1424
Start Current	A	4700	4700	4700	4700	5400	5400	6100	6100	6100	6800	7400	9200
Evaporator	Water Flow	m ³ /h	363.1	393.5	423.6	453.9	484.0	514.3	544.7	575.0	605.4	665.8	726.9
	Pressure Drop	kPa	55.5	64.2	65.7	67.9	67.7	69.7	72.3	70.7	71.9	71.0	82.2
	Pipe Dia	mm	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300
Condenser	Water Flow	m ³ /h	453.9	491.9	529.5	567.4	605.0	642.9	680.9	718.7	756.8	832.3	908.6
	Pressure Drop	kPa	69.6	80.5	81.2	80.6	79.9	81.2	81.0	78.2	83.6	78.2	75.8
	Pipe	mm	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300
Demension	Length	mm	4690	4690	4690	4690	4690	4690	4690	4690	4745	4745	4745
	Width	mm	4950	1950	1950	1950	1950	1950	1950	2260	2260	2260	2260
	Height	mm	2410	2410	2410	2410	2410	2410	2410	2610	2610	2610	2610
Transportation Weight	kg	11070	11070	11120	11190	11270	11355	11425	11494	11920	12067	12235	12380
Operation Weight	kg	13000	13020	13100	13209	13350	13564	13712	13839	14532	14773	15108	15376

Remark: 1. The parameter in above sheet based on Chinese standard GB/T18430.1-2007, working condition: Chilled water outlet 7 °C, water flow=cooling capacity x0.172m³/h. °KW;
Cooling water inlet temperature 30C, water flow=cooling capacity x0.215m³/h. °KW;
2. Energy efficiency judgment is according to Chinese standard GB19577-2015
3. 600-1300RT chiller can use 10KW and other power supply optional. Detail technical data need ask from Kingair engineer
4. Evaporator and condenser both are dual circuits design, water side pressure 1.0Mpa, flange connection, water pipe flange connection comply with JB/T81-94.
5. If the working pressure higher than 1.0Mpa, please remark while order
6. The specification parameter is changed because the products are improved, forgive we for no issuing a separate notice. Please subject to the latest catalogue or material objects

KMC-AWEV1 Series Technical Parameter (GB Condition)

Model	KMC	11400AW1-10	11500AW1-10	11600AW1-10	11700AW1-10	11800AW1-10	11900AW1-10	12000AW1-10	12100AW1-10	12200AW1-10	
Cooling Capacity	RT	1402	1502	1601	1700	1801	1902	2001	2101	2200	
	kW	4929	5281	5629	5977	6332	6687	7036	7387	7735	
	104kcal/h	423.8	454.1	484.0	513.9	544.4	575.0	605.0	635.2	665.1	
Input Power	kW	788.6	843.2	902.3	962.5	1008	1066	1127	1169	1249	
COP	W/W	6.25	6.26	6.24	6.21	6.28	6.27	6.24	6.32	6.19	
IPLV	W/W	6.42	6.41	6.36	6.35	6.43	6.42	6.39	6.56	6.33	
Energy efficiency	/	2级	2级	2级	2级	2级	2级	2级	2级	2级	
Motor Power	kW	930.0	990.0	990.0	1110	1100	1200	1320	1320	1450	
power supply	/	10kV-3PH-50Hz									
rated current	A	52.33	55.95	59.88	63.88	66.86	70.75	74.76	77.60	82.86	
Max Operating Current	A	58.83	63.10	67.56	71.64	75.08	79.72	84.34	87.55	93.11	
Start Current	A	380.0	405.0	405.0	450.0	450.0	490.0	540.0	540.0	590.0	
Evaporator	Water Flow	m³/h	847.8	908.3	968.2	1028	1089	1150	1210	1271	1330
	Pressure Drop	kPa	77.0	73.9	72.0	81.3	85.8	80.3	81.5	81.4	81.6
	Pipe Dia	mm	DN400	DN400	DN400	DN400	DN400	DN400	DN400	DN400	DN400
Condense	Water Flow	m³/h	1060	1135	1210	1285	1361	1438	1513	1588	1663
	Pressure Drop	kPa	83.1	82.0	80.0	90.1	86.4	83.5	81.6	81.6	82.2
	Pipe	mm	DN400	DN400	DN400	DN400	DN400	DN400	DN400	DN400	DN400
Demension	Length	mm	5190	5190	5190	5190	5190	5290	5290	5290	5290
	Width	mm	2700	2700	2700	2700	2700	3150	3150	3150	3150
	Height	mm	3010	3010	3010	3010	3010	3180	3180	3180	3180
Transpotation Weight	kg	19370	19770	20150	20850	21450	23360	23590	23870	24120	
Operation Weight	kg	22790	23140	23490	24260	25160	26840	27290	27740	27976	

Remark 1: The parameter in above sheet based on Chinese standard GB/T18430.2007, working condition: Chilled water outlet 7 °C, water flow-cooling capacity $0.172\text{m}^3/(\text{h}\cdot\text{KW})$; Cooling water inlet temperature 30°C, water flow-cooling capacity $0.215\text{m}^3/(\text{h}\cdot\text{KW})$

2.Energy efficiency judgment is according to Chinese standard GB 19577-2015

3.600~1300RT chiller can use 10KW and other power supply optional. Detail technical data need ask from Kingair engineer

4.Exaporator and condenser both are dual circuit design, water side pressure 1.0MPa,flange connection, water pipe flange connection comply with JB/T81-94.

5.If the working pressure higher than 1.0MPa,please remark while order

5.The specification parameter is changed because the products are improved, forgive we for no issuing a separate notice. Please subject to the latest catalogue or material objects

KMC-AWEV1 Series Technical Parameter (GB Condition)

Model		KMC	10600AWEV	10650AWEV	10700AWEV	10750AWEV	10800AWEV	10850AWEV	10900AWEV	10950AWEV	11000AWEV	11100AWEV	11200AWEV	11300AWEV
Cooling Capacity		RT	600.5	650.5	700.3	750.6	800.4	850.6	900.7	950.9	1001	1102	1201	1302
		kW	2111	2287	2462	2639	2814	2991	3167	3343	3520	3875	4223	4578
		104kcal/h	181.5	196.6	211.7	226.9	242.0	257.2	272.3	287.4	302.7	333.2	363.1	393.6
Input Power		kW	335.3	363.1	390.7	417.9	446.2	474.6	501.8	530.3	558.4	612.9	666.4	721.5
COP		W/W	6.30	6.30	6.30	6.31	6.31	6.30	6.31	6.30	6.30	6.32	6.34	6.35
IPLV		W/W	8.37	8.40	8.36	8.42	8.47	8.47	8.60	8.37	8.64	8.71	8.78	8.70
EEG		/	1级	1级	1级	1级	1级	1级	1级	1级	1级	1级	1级	1级
Motor Power		kW	490.0	490.0	490.0	490.0	560.0	560.0	630.0	630.0	630.0	695.0	760.0	840.0
Power Supply		/	380V											
Rated Current		A	547.7	593.2	638.2	682.7	728.9	775.4	819.8	866.4	912.2	1001	1089	1178
Max Current		A	614.8	665.8	727.3	773.3	809.6	863.4	914.5	958	1010	1113	1227	1322
Install Current		A	4700	4700	4700	4700	5400	5400	6100	6100	6100	6800	7400	9200
Evaporator	Water Flow	m³/h	363.1	393.4	423.5	453.9	484.0	514.5	544.7	575.0	605.4	666.5	726.4	787.4
	Pressure Drop	kPa	47.4	56.0	56.6	59.3	59.1	62.2	63.6	61.2	63.0	63.3	63.0	72.7
	Pipe Dia	mm	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300
Condenser	Water Flow	m³/h	453.9	491.7	529.3	567.4	605.0	643.1	680.9	718.7	756.8	833.1	907.9	984.3
	Pressure Drop	kPa	60.6	70.7	72.1	72.1	71.8	68.2	75.7	70.1	74.9	70.2	69.0	79.9
	Pipe Dia	mm	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300
Demension	Length	mm	5020	5020	5020	5020	5020	5020	5020	5020	5045	5045	5045	5045
	Width	mm	2200	2200	2200	2200	2200	2200	2200	2200	2260	2260	2360	2360
	Height	mm	2600	2600	2600	2600	2600	2600	2600	2600	2615	2615	2700	2700
Transportation weight		kg	12700	12700	12700	12880	13030	13170	13310	13445	14155	14325	14685	15050
Operation Weight		kg	14820	14850	14880	15099	15310	15579	15797	15990	16967	17231	17758	18246

Remark 1: The parameter in above sheet based on Chinese standard GB/T18430.2007, working condition: Chilled water outlet 7 °C, water flow-cooling capacity $0.172\text{m}^3/(\text{h}\cdot\text{kW})$; Cooling water inlet temperature 30°C, water flow-cooling capacity $0.215\text{m}^3/(\text{h}\cdot\text{kW})$

2. Energy efficiency judgment is according to Chinese standard GB19577-2015

3. 660V-1300RT chiller can use 10KW and other power supply optional. Detail technical data need ask from Kingair engineer

4. Copper and condenser both are dual circuit design, water inlet pressure 1.0MPa, flange connection, water pipe flange connection comply with JB/T81-194

5. If the working pressure higher than 1.0MPa, please remark while order

6. The specification parameter is changed because the products are improved, forgive me for no issuing a separate notice. Please subject to the latest catalogue or material objects

Model		KMC	11400AWEV1-10	11500AWEV1-10	11600AWEV1-10	11700AWEV1-10	11800AWEV1-10	11900AWEV1-10	12000AWEV1-10	12100AWEV1-10	12200AWEV1-10
		RT	1401	1502	1601	1700	1802	1902	2002	2101	2200
Cooling Capacity		kW	4926	5281	5629	5977	6336	6687	7039	7387	7735
		104kcal/h	423.6	454.1	484.0	513.9	544.8	575.0	605.2	635.2	665.1
Input Power		kW	781.7	837.9	888.6	918.1	968.6	1016	1079	1148	1221
COP		W/W	6.30	6.30	6.33	6.51	6.54	6.58	6.52	6.43	6.33
IPLV		W/W	8.74	8.73	8.74	9.18	9.30	9.32	9.19	9.23	8.87
EEG		/	1级	1级	1级	1级	1级	1级	1级	1级	1级
Motor Power		kW	930.0	990.0	990.0	1100	1100	1200	1320	1320	1450
Power Supply		/	10kV								
Rated Current		A	47.51	50.93	54.00	55.80	58.86	61.78	65.57	69.79	74.23
Max Current		A	53.39	57.34	60.91	62.45	66.50	69.43	73.95	78.82	83.45
Install Current		A	380.0	405.0	405.0	450.0	450.0	490.0	540.0	540.0	590.0
Evaporator	Water Flow	m³/h	847.3	908.3	968.2	1028	1090	1150	1211	1271	1330
	Pressure Drop	kPa	72.6	68.9	66.8	72.8	76.2	71.9	73.3	73.1	74.4
Condenser	Pipe Dia	mm	DN400	DN400	DN400	DN400	DN400	DN400	DN400	DN400	DN400
	Water Flow	m³/h	1059	1135	1210	1285	1362	1438	1513	1588	1663
	Pressure Drop	kPa	73.6	79.6	76.6	88.2	83.5	80.9	72.2	73.0	80.3
	Pipe Dia	mm	DN400	DN400	DN400	DN400	DN400	DN400	DN400	DN400	DN400
Demension	Length	mm	5690	5690	5690	5690	5690	5690	5790	5790	5790
	Width	mm	2800	2800	2800	2800	2800	2800	3150	3150	3150
	Height	mm	3010	3010	3010	3010	3010	3010	3180	3180	3180
Transportation weight		kg	22324	22410	22515	24030	24817	25312	25543	25949	26250
Operation Weight		kg	25944	26010	26055	27640	28727	28992	29443	30019	30306

Remark: 1. The parameter in above sheet based on Chinese standard GB/T18430-2007, working condition: Chilled water outlet 7 °C, water flow-cooling capacity 0.172m3/(h·kW), Cooling water inlet temperature 30°C, water flow-cooling capacity 0.215m3/(h·kW)
2. Energy efficiency judgment is according to Chinese standard GB19577-2015
3. 3600~1300RT chiller can use 10KW and other power supply optional. Detail technical data need ask from Kingair engineer
4. Evaporator and condenser both are dual circuit design, water inlet pressure 1.0Mpa, flange connection, water pipe flange connection comply with JB/T81-94.
5. If the working pressure higher than 1.0Mpa, please remark while order
6. The specification parameter is changed because the products are improved, forgive for no issuing a separate notice. Please contact to the latest catalogue or material objects

KMC-AWV1 Series Technical Parameter (GB Condition)

Model		KMC	1060AWV1	10650AWV1	10700AWV1	10750AWV1	10800AWV1	10850AWV1	10900AWV1	10950AWV1	11000AWV1	11100AWV1	1200AWV1	1300AWV1
Cooling Capacity		RT	600.4	650.2	700.5	750.6	800.3	850.6	900.9	950.8	1001	1102	1201	1302
		kW	2111	2286	2463	2639	2814	2991	3168	3343	3520	3875	4223	4578
		104kcal/h	181.5	196.6	211.8	226.9	242.0	257.2	272.4	287.4	302.7	333.2	363.1	393.6
Input Power		kW	348.8	378.3	407.3	435.4	469.9	497.5	524.9	551.2	581.3	635.1	690.5	749.4
COP		W/W	6.05	6.04	6.05	6.06	5.99	6.01	6.04	6.06	6.06	6.10	6.12	6.11
IPLV		W/W	8.11	8.16	8.19	8.15	8.16	8.21	8.20	8.20	8.13	8.22	8.24	8.26
EEG		/	1 级	1 级	1 级	1 级	1 级	1 级	1 级	1 级	1 级	1 级	1 级	1 级
Motor Power		kW	490.0	490.0	490.0	490.0	560.0	560.0	630.0	630.0	630.0	695.0	760.0	840.0
Power Supply		/	380V											
Rated Current		A	569.8	618.0	665.5	711.3	767.8	812.8	857.5	900.5	949.7	1038	1128	1225
Max Current		A	645.8	690.5	744.2	807.5	850.1	907.4	953.3	1002	1050	1152	1275	1367
Install Current		A	4700	4700	4700	4700	5400	5400	6100	6100	6100	6800	7400	9200
Evaporator	Water Flow	m³/h	363.1	393.2	423.6	453.9	484.0	514.5	544.9	575.0	605.4	666.5	726.4	787.4
	Pressure Drop	kPa	55.5	64.2	65.7	67.9	67.7	69.7	72.3	70.7	72.7	71.9	71.0	82.2
	Pipe Dia	mm	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300
Condenser	Water Flow	m³/h	453.9	491.5	529.5	567.4	605.0	643.1	681.1	718.7	756.8	833.1	907.9	984.3
	Pressure Drop	kPa	69.6	80.5	81.2	80.6	79.9	81.2	81.0	78.2	83.6	78.2	75.8	87.7
	Pipe Dia	mm	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300	DN300
Dimension	Length	mm	4690	4690	4690	4690	4690	4690	4690	4690	4745	4745	4745	4745
	Width	mm	2050	2050	2050	2050	2050	2050	2050	2050	2260	2260	2360	2360
	Height	mm	2500	2500	2500	2500	2500	2500	2500	2500	2615	2615	2700	2700
Transportation weight		kg	11640	11640	11690	11760	11840	11945	12015	12089	12515	12662	12970	13180
Operation Weight		kg	13520	13590	13670	13779	13920	14154	14302	14434	15127	15368	15843	16176

1. The parameter in above sheet based on Chinese standard GB/T18430.1-2007, working condition: Chilled water outlet 7 °C, water flow-cooling capacity $\geq 0.172\text{m}^3/(\text{h}\cdot\text{kW})$ and Cooling water inlet temperature 30°C, water flow-cooling capacity $\geq 0.215\text{m}^3/(\text{h}\cdot\text{kW})$

2. Energy efficiency judgment is according to Chinese standard GB19577-2015

3. 600T-1300RT chiller can use 10KW and other power supply optional. Detail technical data need ask from Kingair engineer

4. Evaporator and condenser both are dual circuit design, water side pressure 1.0MPa, flange connection, water pipe flange connection comply with JB/T81-94.

5. If the working pressure is higher than 1.0MPa, please remark with the pressure

6. The specification parameter is changed because the products are improved, for we have no for issuing a separate notice. Please select to the latest catalogue or material objects

KMC-AWV1 Series Technical Parameter (GB Condition)

Model	KMC	11400AWV1-10	11500AWV1-10	11600AWV1-10	11700AWV1-10	11800AWV1-10	11900AWV1-10	12000AWV1-10	12100AWV1-10	12200AWV1-10
Cooling Capacity	RT	1402	1502	1601	1700	1802	1902	2001	2101	2200
	kW	4929	5281	5629	5977	6336	6687	7036	7387	7735
	104kcal/h	423.8	454.1	484.0	513.9	544.8	575.0	605.0	635.2	665.1
Input Power	kW	805.1	860.3	921.7	982.8	1029	1088	1150	1194	1275
COP	W/W	6.12	6.14	6.11	6.08	6.16	6.15	6.12	6.19	6.07
IPLV	W/W	8.40	8.38	8.32	8.33	8.42	8.42	8.37	8.60	8.31
EEG	/	1级	1级	1级	1级	1级	1级	1级	1级	1级
Motor Power	kW	930.0	990.0	990.0	1100	1100	1200	1320	1320	1450
Power Supply	/	10kV								
Rated Current	A	48.92	52.29	56.02	59.73	62.51	66.14	69.90	72.56	77.47
Max Current	A	54.97	58.96	63.15	66.95	70.18	74.54	78.84	81.84	87.03
Install Current	A	380.0	405.0	405.0	450.0	450.0	490.0	540.0	540.0	590.0
Evaporator	Water Flow	m ³ /h	847.8	908.3	968.2	1028	1090	1150	1210	1271
	Pressure Drop	kPa	77.0	73.9	72.0	81.3	85.8	80.3	81.5	81.4
	Pipe Dia	mm	DN400	DN400	DN400	DN400	DN400	DN400	DN400	DN400
	Water Flow	m ³ /h	1060	1135	1210	1285	1362	1438	1513	1588
Condenser	Pressure Drop	kPa	83.1	82.0	80.0	90.1	86.4	83.5	81.6	82.2
	Pipe Dia	mm	DN400	DN400	DN400	DN400	DN400	DN400	DN400	DN400
Dimension	Length	mm	5190	5190	5190	5190	5190	5290	5290	5290
	Width	mm	2700	2700	2700	2700	2700	3150	3150	3150
	Height	mm	3010	3010	3010	3010	3010	3180	3180	3180
Net Weight	kg	19370	19770	20150	20850	21450	23360	23590	23870	24120
Operation Weight	kg	22790	23050	23490	24260	25160	26840	27290	27740	27976

Remark: 1. The parameter in above sheet basing on Chinese standard GB/T18430.1-2007, working condition: Chilled water outlet 7°C, water flow=cooling capacity x0.172m³/(h·kW);

Cooling water inlet temperature 30°C, water flow=cooling capacity x0.215m³/(h·kW)

2. Energy efficiency judgment is according to Chinese standard GB19577-2015

3. 600~1300RT chiller can use 10KW and other power supply optional. Detail technical data need ask from Kingair engineer

4. Evaporator and condenser both are dual circuits design, water side pressure 1.0Mpa, flange connection, water pipe flange connection comply with JB/T81-94.

If the working pressure higher than 1.0Mpa, please remark while order

5. The specification parameter is changed because the products are improved, forgive we for no issuing a separate notice. Please subject to the latest catalogue or material objects

KMC-AWEV1 Series Technical Parameter (GB Condition)

Model	KMC	10350AWEV1	10400AWEV1	10450AWEV1	10500AWEV1	10550AWEV1
Cooling Capacity	RT	350.5	400.3	450.2	500.4	550.6
	kW	1232	1407	1583	1759	1936
	104kcal/h	105.9	121.0	136.1	151.2	166.5
Input Power	kW	189.2	220.6	243.3	272.4	305.5
COP	W/W	6.51	6.38	6.51	6.46	6.34
IPLV	W/W	8.76	8.88	9.03	9.00	9.11
EEG	/	1级	1级	1级	1级	1级
Motor Power	kW	240.0	280.0	315.0	315.0	350.0
Power Supply	/	380V				
Rated Current	A	309.1	360.4	397.5	444.9	499.2
Max Current	A	358.9	416.1	457.5	507.9	565.8
Install Current	A	4570	5331	5998	5998	6664
Evaporator	Water Flow	m ³ /h	211.9	242.0	272.3	302.5
	Pressure Drop	kPa	52.9	53.5	54.1	53.6
	Pipe Dia	mm	DN200	DN250	DN250	DN250
	Water Flow	m ³ /h	264.9	302.5	340.3	378.2
Condenser	Pressure Drop	kPa	56.0	56.5	57.2	60.0
	Pipe Dia	mm	DN200	DN250	DN250	DN250
Dimension	Length	mm	3650	3650	3650	3650
	Width	mm	1940	2000	2000	2000
	Height	mm	2150	2150	2150	2150
	Net Weight	kg	4950	5650	5800	5950
Operation Weight	kg	5950	6700	6900	7100	7300

Remark: 1. The parameter in above sheet basing on Chinese standard GB/T18430.1-2007, working condition: Chilled water outlet 7°C, water flow=cooling capacity x0.172m³/(h·kW);

Cooling water inlet temperature 30°C, water flow=cooling capacity x0.215m³/(h·kW)

2. Energy efficiency judgment is according to Chinese standard GB19577-2015

3. 600~1300RT chiller can use 10KW and other power supply optional. Detail technical data need ask from Kingair engineer

4. Evaporator and condenser both are dual circuits design, water side pressure 1.0Mpa, flange connection, water pipe flange connection comply with JB/T81-94.

If the working pressure higher than 1.0Mpa, please remark while order

5. The specification parameter is changed because the products are improved, forgive we for no issuing a separate notice. Please subject to the latest catalogue or material objects

Environmental Protected High Efficient Screw Chiller



- Adopt latest high efficiency single screw compressor. Special structure and advanced materials realize the efficient operation and prolong the service life
- Applies flooded type screw compressor and flooded type evaporating heat transfer technology, energy efficiency ratio is up to 5.7.
- Applies low fin flooded type heat transfer tube and optimal designed refrigerant distributor, heat transfer coefficient is 3 times of the traditional dry type evaporator, it improves the unit's cooling capacity and energy efficiency ratio.
- The unit applies 7 safe protection device, has the real time supervision and control to high /low pressure, discharge temperature and water temperature, ensuring the unit operate safely.
- Basis on the water temperature change in the air condition the unit can apply fuzzy control principle to adjust compressor volume matching the actual load, so part of load performance will be higher.

KCWF 2 410 C 1

Refrigerant: 1 is R134a, Omitted is R22

Design Version

Unit Capacity-TR

Compressor Amount

High Efficient Screw Chiller

R134a Technical Parameter (Single Compressor)

Model KCWF	1110C1	1120C1	1150C1	1170C1	1185C1	1205C1	1230C1	1260C1	1300C1	1330C1	1350C1
Cooling capacity	kW	387	422	520	598	651	722	810	915	1056	1232
	kcal/h	332820	362920	447200	514280	559860	620920	696600	786900	908160	1059520
Input Power	kW	66	72	88	100	110	122	137	155	178	206
Rated Current	A	112	122	150	170	187	207	233	264	303	350
Power Supply	380V/3N~/50Hz										
Capacity Regulating	25%~100%										
Compressor	Type	5-6 asymmetric serrated semi-hermetic screw compressor									
	Start Up	Y-Δ									
Evaporator	Qty	台	1	1	1	1	1	1	1	1	1
	Type	Flooded Type High Efficient Heat Exchanger									
	Water Flow	m ³ /h	67	73	89	103	112	124	139	157	212
Condenser	Pressure Drop	kPa	43	45	74	77	84	81	76	74	77
	Pipe Dia	DN	100	125	125	125	125	125	150	150	200
	Type	Shell and Tube Heat Exchanger									
Refrigerant	Water Flow	m ³ /h	83	91	112	129	140	155	174	197	265
	Pressure Drop	kPa	44	48	74	73	75	75	77	80	82
	Pipe Dia	DN	125	125	125	125	150	150	150	200	200
Dimension	Type	R134a									
	Weight	kg	128	128	170	182	184	184	212	241	317
	Length	mm	3100	3100	3550	3550	3650	3650	3650	3750	3750
	Width	mm	1300	1300	1400	1460	1460	1510	1550	1600	1700
Weight	Height	mm	1950	1950	2050	2150	2200	2250	2300	2450	2700
	Transportation	kg	3000	3100	3550	3700	3800	4100	4600	5600	6300
Operation	kg	3100	3220	3680	3830	3940	4260	4780	5000	5840	6550
	kg	3100	3220	3680	3830	3940	4260	4780	5000	5840	6550

Note:

1. Unit is designed, manufactured and tested according to GB/T18430.1-2007

2. Above model cooling capacity is based on 7°C chilled water outlet temperature and 30°C cooling water input temperature.

R134a Technical Parameter (Double Compressor)

Model KCWF		2220C1	2240C1	2270C1	2300C1	2320C1	2340C1	2370C1	2390C1	2410C1
Cooling capacity	kW	774	845	942	1040	1118	1197	1302	1373	1443
	kcal/h	665640	726700	810120	894400	961480	1029420	1119720	1180780	1240980
Input Power	kW	132	144	159	175	188	200	220	232	244
Rated Current	A	112+112	122+122	122+150	150+150	150+170	170+170	187+187	187+207	207+207
Power Supply		380V/3N~/50Hz								
Capacity Regulating		12.5%~100%								
Compressor	Type	5-6 asymmetric serrated semi-hermetic screw compressor								
	Start Up	Y-Δ								
	Qty	台	2	2	2	2	2	2	2	2
Evaporator	Type	Flooded Type High Efficient Heat Exchanger								
	Water Flow	m ³ /h	133	145	162	179	192	206	224	248
	Pressure Drop	kPa	68	68	68	68	68	68	68	68
	Pipe Dia	DN	150	150	150	150	200	200	200	200
Condenser	Type	Shell and Tube Heat Exchanger								
	Water Flow	m ³ /h	166	182	203	224	240	257	280	310
	Pressure Drop	kPa	65	65	65	65	65	65	65	65
	Pipe Dia	DN	150	150	150	200	200	200	200	200
Refrigerant	Type	R134a								
	Weight	kg	280	280	320	320	360	360	430	430
	Length	mm	4500	4500	4500	4650	4650	4650	4650	4650
	Width	mm	1800	1800	1800	1900	1900	2000	2000	2000
	Height	mm	2000	2000	2000	2150	2150	2250	2250	2250
Weight	Transportation	kg	5300	5300	5300	6000	6500	6500	7400	7400
	Operation	kg	5600	5600	5700	6400	6950	7900	7900	7900

Note:

- Unit is designed, manufactured and tested according to GB/T18430.1-2007
- Above model cooling capacity is based on 7°C chilled water outlet temperature and 30°C cooling water input temperature.
- Contact Kingair for detailed unit selection; we will try our best to meet actual customers need.

R134a Technical Parameter (Double Compressor)

Model KCWF		2435C1	2460C1	2490C1	2520C1	2560C1	2600C1	2630C1	2660C1	2700C1
Cooling capacity	kW	1531	1619	1725	1830	1971	2112	2219	2326	2464
	kcal/h	1316660	1392340	1483500	1573800	1695060	1816320	1908340	2000360	2119040
Input Power	kW	259	274	292	310	333	356	374	392	412
Rated Current	A	207+233	233+233	233+264	264+264	264+303	303+303	303+333	333+332	350+350
Power Supply		380V/3N~/50Hz								
Capacity Regulating		12.5%~100%								
Compressor	Type	5-6 asymmetric serrated semi-hermetic screw compressor								
	Start Up	Y-Δ								
	Qty	台	2	2	2	2	2	2	2	2
Evaporator	Type	Flooded Type High Efficient Heat Exchanger								
	Water Flow	m ³ /h	263	278	297	315	339	363	382	424
	Pressure Drop	kPa	68	68	68	68	68	68	68	68
	Pipe Dia	DN	200	200	200	200	200	250	250	250
Condenser	Type	Shell and Tube Heat Exchanger								
	Water Flow	m ³ /h	329	348	371	393	424	454	477	530
	Pressure Drop	kPa	65	65	65	65	65	65	65	65
	Pipe Dia	DN	250	250	250	250	250	250	250	250
Refrigerant	Type	R134a								
	Weight	kg	430	430	520	520	540	630	630	630
	Length	mm	4700	4700	4700	4700	4600	4600	4600	4600
	Width	mm	2100	2100	2100	2100	2250	2250	2250	2250
	Height	mm	2350	2350	2350	2350	2450	2500	2500	2500
Weight	Transportation	kg	9000	9000	10000	10000	10500	11000	11500	11500
	Operation	kg	9600	9600	10650	10650	11200	11800	11800	12400

Note:

- Unit is designed, manufactured and tested according to GB/T18430.1-2007
- Above model cooling capacity is based on 7°C chilled water outlet temperature and 30°C cooling water input temperature.
- Contact Kingair for detailed unit selection; we will try our best to meet actual customers need.
- Contact Kingair for detailed unit selection; we will try our best to meet actual customers need.

A-Cool Air Cooled Heat Pump

- High efficiency screw compressor, advanced tooth form design, high precision processing technique, and high volume efficiency.
- Advanced economizer two-stage compression cycle technology, increasing the capacity and energy efficiency of the unit. Patented designed heat pumps energy updaters, improve the uniformity of coil distribution; improve the efficiency of heat
- Patented designed heat pumps energy updaters, improve the uniformity of coil distribution; improve the efficiency of heat exchanger and unit heat performance.
- All pipes apply softness supports just like plastic pipe clamp etc, reduce vibration.
- Applies double hull, bottom coordinate has damping pad, operate steadily and reliably, lower noise. Advanced Siemens PLC microcomputer controller



- KCA 1 078 B R 2 H C
- Low circumference temperature cooling unit
 - Heat recovery: H part of heat recovery, T total heat recovery
 - Refrigerant: 1 is R134a, 2 is R407C, omitted is R22
 - Function: R - heat pump, W - hot water, Omitted - cooling chiller
 - Design version
 - Unit number
 - Compressor amount
 - Kingair air cooled heat pump

R22 Performance Data

Model KCA-B(R)(H)(C)		1067	1078	1087	1093	1108	1130	1142	1153	1170	1185	2201	2216	2238	2260	2284	
Cooling Capacity	kW	235.9	270.5	308.3	340.5	373.0	450.0	498.6	531.2	602.4	641.0	713.5	746.0	823.0	900.0	997.2	
	kcal/h	2030.0	2340.0	2670.0	2940.0	3240.0	3900.0	4290.0	4580.0	5210.0	5540.0	6160.0	6480.0	7080.0	7800.0	8580.0	
	BTU/h	8000.0	9200.0	10500.0	11800.0	13100.0	15800.0	17400.0	18700.0	21300.0	22800.0	25700.0	27000.0	29700.0	32400.0	35800.0	
Heating Capacity	kW	264.2	303.0	345.3	381.4	417.8	504.0	558.4	594.9	674.7	717.9	799.1	835.5	921.8	1008.0	1116.9	
	kcal/h	2280.0	2620.0	2970.0	3290.0	3620.0	4380.0	4860.0	5140.0	5850.0	6210.0	6940.0	7280.0	8000.0	8720.0	9800.0	
	BTU/h	9200.0	10500.0	11900.0	13200.0	14700.0	17600.0	19400.0	20700.0	23500.0	24900.0	27900.0	29200.0	32000.0	34800.0	39000.0	
Partial heat recovery	kW	60.2	69.0	78.6	86.8	95.1	114.8	127.1	135.5	153.6	163.5	181.9	190.2	209.9	229.5	254.3	
	kcal/h	520.0	600.0	680.0	750.0	830.0	1000.0	1100.0	1180.0	1340.0	1420.0	1590.0	1660.0	1830.0	1990.0	2210.0	
	BTU/h	2100.0	2400.0	2700.0	3000.0	3300.0	4000.0	4400.0	4700.0	5400.0	5800.0	6500.0	6800.0	7400.0	8000.0	8900.0	
Electrical performance	Power Supply	380V/3N~/50Hz															
	Input Power	kW	73.5	85.7	95.1	106.1	117.8	140.1	157.1	164.6	187.3	202.1	223.9	235.6	257.9	280.2	314.2
	Rated Current	A	131.4	153.2	170.0	191.8	210.6	253.5	280.8	294.2	334.8	361.3	402.4	421.1	464.1	506.9	561.6
Compressor	Type	5-6 asymmetric serrated semi-hermetic screw compressor															
	Qty	set	1	1	1	1	1	1	1	1	1	2	2	2	2	2	
	Start Up	Y-Δ															
Capacity Regulating		25%~100%										12.5%~100%					
	kW	66.3	76.9	84.3	95.3	104.6	125.7	142.7	146.6	169.3	180.1	199.9	209.2	230.3	251.4	285.4	
	A	124.0	144.0	156.0	176.0	188.0	224.0	252.0	256.0	296.0	312.0	344.0	356.0	392.0	428.0	488.0	
Anxial Fan	Type	Water proof, low noise, high efficient anxial fan															
	Qty	4	4	6	6	6	8	8	10	10	10	12	12	14	16	16	
	Fan Motor	kW	7.2	8.8	10.8	10.8	13.2	14.4	14.4	18.0	18.0	22.0	24	26.4	28.8	28.8	
Evaporator	Type	Shell and Tube Heat Exchanger															
	Water Flow	m³/h	40.6	46.5	53.0	58.6	64.2	77.4	85.8	91.4	103.6	110.3	122.7	128.3	141.6	154.8	171.5
	Pressure Drop	kPa	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
	Pipe Dia	DN	80FLG	80FLG	100FLG	100FLG	100FLG	125FLG	125FLG	125FLG	150FLG	150FLG	100FLG×2	100FLG×2	125FLG×2	125FLG×2	125FLG×2
Part Heat Recover	Working Pressure	MPa	1.6														
	Type	Shell and Tube Heat Exchanger															
	Water Flow	m³/h	10.3	11.9	13.5	14.9	16.4	19.7	21.9	23.3	26.4	28.1	31.3	32.7	36.1	39.5	43.7
	Pressure Drop	kPa	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
Refrigerant Dimension	Pipe Dia	DN	50FLG	50FLG	50FLG	50FLG	65FLG	65FLG	65FLG	65FLG	65FLG	65FLG	65FLG×2	65FLG×2	65FLG×2	65FLG×2	65FLG×2
	Working Pressure	MPa	1.6														
	Length	mm	2550	2550	3520	3520	3520	4500	4500	5500	5500	5500	7120	7120	8100	9080	9080
	Width	mm	2235	2235	2235	2235	2235	2235	2235	2235	2235	2235	2235	2235	2235	2235	2235
	Height	mm	2600	2600	2600	2600	2600	2750	2750	2750	2750	2750	2750	2600	2600	2750	2750
Weight	Type	R22															
	Weight	kg	69	76	85	95	107	120	130	150	165	170	202.0	214	227	240	260
Unit Weight	kg	3050	3350	4100	4200	4300	4800	5100	5400	5800	6100	8500	8600	9100	9600	10200	

R407C Performance Data

Model KCA-B(R)(H)(C)		1067	1078	1087	1093	1108	1130	1142	1153	1170	1185	2201	2216	2238	2260	2284		
Cooling Capacity		kW	220.6	252.9	288.3	318.4	348.8	420.8	466.2	496.7	563.2	599.3	667.1	697.5	769.5	841.5	932.4	
Heating Capacity		kW	244.4	280.2	319.4	352.8	386.4	466.2	516.5	550.3	624.1	664.1	739.2	772.8	852.6	932.4	1033.1	
Partial heat recovery		kW	56.2	64.5	73.5	81.2	88.9	107.3	118.9	126.7	143.6	152.8	170.1	177.9	196.2	214.6	237.8	
Electrical performance	Power Supply		380V/3N~/50Hz															
	Input Power		kW	71.8	83.8	93.0	104.9	115.2	138.6	153.5	160.9	183.1	197.6	218.9	230.4	252.1	277.2	307.3
	Rated Current		A	128.4	149.8	166.2	187.5	205.9	247.8	274.4	287.7	327.2	353.2	391.3	411.8	450.7	495.5	548.9
	type		5-6 asymmetric serrated semi-hermetic screw compressor															
Compressor	Qty		Set	1	1	1	1	1	1	1	1	1	2	2	2	2	2	
	Start Up		Y-Δ															
	Capacity Regulating		25%~100%															
Anaxial Fan	Motor power		kW	64.6	75.0	82.2	94.1	102.0	124.2	139.1	142.9	165.1	175.6	194.9	204.0	224.5	248.4	278.3
	Type		Water proof low noise, high efficient axial fan															
	Qty		4	4	6	6	6	8	8	10	10	10	12	12	14	16	16	
Evaporator	Fan Motor		kW	7.2	8.8	10.8	10.8	13.2	14.4	14.4	18.0	18.0	22.0	24	26.4	27.6	28.8	28.8
	Type		Shell and Tube Heat Exchanger															
	Water Flow		m ³ /h	37.9	43.5	49.6	54.8	60.0	72.4	80.2	85.4	96.9	103.1	114.7	120.0	132.4	144.7	160.4
	Pressure Drop		kPa	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
Part Heat Recover	Pipe Dia		DN	80FLG	80FLG	100FLG	100FLG	100FLG	125FLG	125FLG	125FLG	150FLG	150FLG	100FLG×2	100FLG×2	125FLG×2	125FLG×2	125FLG×2
	Working pressure		MPa	1.6														
	Type		Shell and Tube Heat Exchanger															
	Water Flow		m ³ /h	9.7	11.1	12.6	14.0	15.3	18.5	20.4	21.8	24.7	26.3	29.3	30.6	33.8	36.9	40.9
Weight/Dimension	Pressure Drop		kPa	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
	Pipe Dia		DN	50FLG	50FLG	50FLG	50FLG	65FLG	65FLG	65FLG	65FLG	65FLG	65FLG	50FLG×2	65FLG×2	65FLG×2	65FLG×2	65FLG×2
	Working pressure		MPa	1.6														
	Width		mm	2550	2550	3520	3520	3520	4500	4500	5500	5500	5500	7120	7120	8100	9080	9080
Weight/Dimension	Depth		mm	2235	2235	2235	2235	2235	2235	2235	2235	2235	2235	2235	2235	2235	2235	2235
	Height		mm	2600	2600	2600	2600	2600	2750	2750	2750	2750	2750	2600	2600	2750	2750	2750
	Type		R407C															
	weight		kg	69	76	85	95	107	120	130	150	165	170	190	214	227	240	260
Unit Weight	kg		3050	3350	4100	4200	4300	4800	5100	5400	5800	6100	8400	8600	9100	9600	10200	10200
	kg		3050	3350	4100	4200	4300	4800	5100	5400	5800	6100	8400	8600	9100	9600	10200	10200

- Notes:
 1. Cooling mode condition: water leaving temperature 7°C, ambient temperature 35°C;
 2. Heating mode condition: water leaving temperature 45°C, air inlet temperature 7°CDB/6°CWB; ;
 3. Maximum water of heat recovery mode condition: 55°C;
 4. Max.input power/ current is 1.25 times the rated value.

R407C Performance Data

Model KCA-B(R)(H)(C)		2295	2306	2323	2340	2355	2370	3390	3402	3426	3437	3459	3476	3493	3510
Cooling Capacity		kW	962.9	993.3	1059.9	1126.5	1162.6	1198.7	1262.3	1307.7	1398.6	1429.1	1490.0	1556.6	1623.2
Heating Capacity		kW	1066.9	1100.6	1174.4	1248.1	1288.1	1328.1	1398.6	1448.9	1549.6	1583.4	1650.9	1724.7	1798.5
Partial heat recovery		kW	245.5	253.3	270.3	287.3	296.5	305.7	321.9	333.5	356.6	364.4	380.0	396.9	413.9
Electrical performance	Power Supply		380V/3N~/50Hz												
	Input Power	kW	314.5	321.9	344.0	366.1	380.7	395.2	415.8	427.4	460.6	468.0	482.8	504.9	527.1
	Rated Current	A	562.1	575.3	614.9	654.5	680.4	706.4	743.3	764.1	823.3	836.6	863.0	902.6	942.1
	type		5-6 asymmetric serrated semi-hermetic screw compressor												
Compressor	Qty	台	2	2	2	2	2	2	3	3	3	3	3	3	3
	Start Up		Y-△												
	Capacity Regulating		12.5%~100%												
Anaxial Fan	Motor power	kW	282.1	285.9	308.0	330.1	340.7	351.2	372.6	384.2	417.4	421.2	428.8	450.9	473.1
	Type		Water proof, low noise, high efficient axial fan												
	Qty		18	20	20	20	20	20	24	24	24	26	30	30	30
Evaporator	Fan Motor	kW	32.4	36.0	36.0	36.0	40	44.0	43.2	43.2	43.2	46.8	54.0	54.0	54.0
	Type		Shell and Tube Heat Exchanger												
	Water Flow	m³/h	165.6	170.9	182.3	193.8	200.0	206.2	217.1	224.9	240.6	245.8	256.3	267.7	279.2
	Pressure Drop	kPa	70	70	70	70	70	70	70	70	70	70	70	70	70
Part Heat Recover	Pipe Dia	DN	125FLG×2	125FLG×2	150FLG×2	150FLG×2	150FLG×2	125FLG×2	125FLG×3	125FLG×3	125FLG×3	125FLG×3	125FLG×3	150FLG×3	150FLG×3
	Working pressure	MPa	1.6												
	Type		Shell and Tube Heat Exchanger												
	Water Flow	m³/h	42.2	43.6	46.5	49.4	51.0	52.6	55.4	57.4	61.3	62.7	65.4	68.3	71.2
Refrigerant Dimension	Pressure Drop	kPa	45	45	45	45	45	45	45	45	45	45	45	45	45
	Pipe Dia	DN	65FLG×2	65FLG×2	65FLG×2	65FLG×2	65FLG×2	65FLG×2	65FLG×3	65FLG×3	65FLG×3	65FLG×3	65FLG×3	65FLG×3	65FLG×3
	Working pressure	MPa	1.6												
	Width	mm	10080	11080	11080	11080	11080	11080	13660	13660	13660	14660	16660	16660	16660
Unit Weight	Depth	mm	2235	2235	2235	2235	2235	2235	2235	2235	2235	2235	2235	2235	2235
	Height	mm	2750	2750	2750	2750	2750	2750	2750	2750	2750	2750	2750	2750	2750
	Type		R407C												
	weight	kg	280	300	315	330	335	340	360	370	390	410	450	465	480
Unit Weight	kg	10580	10800	11200	11600	11900	12200	14400	14700	15300	15600	16200	16600	17000	17400
	kg	10580	10800	11200	11600	11900	12200	14400	14700	15300	15600	16200	16600	17000	17400

- Notes:
 1. Cooling mode condition: water leaving temperature 7°C, ambient temperature 35°C;
 2. Heating mode condition: water leaving temperature 45°C, air inlet temperature 7°CDB/6°CWB; ;
 3. Maximum water of heat recovery mode condition: 55°C;
 4. Max.input power/ current is 1.25 times the rated value.

R22 Series Parameter (Total Heat Recovery)

AC	Hot water + Cooling	Model KCA-B(R)(T)(W)		2295	2306	2323	2340	2355	2370	3390	3402	3426	3437	3459	3476	3493	3510			
		Cooling Capacity		kW	1029.8	1062.4	1133.6	1204.8	1243.4	1282.0	1350.0	1398.6	1495.8	1528.4	1593.6	1664.8	1736.0	1800.0		
		Unit Rated Input power		kW	321.7	329.2	351.9	374.6	389.4	404.2	420.3	437.3	471.3	478.8	493.8	516.5	539.2	561.9		
		Rated Current		A	575.0	588.4	629.0	669.6	696.1	722.5	760.4	781.7	842.4	855.9	882.7	923.2	963.8	1004.4		
		Cooling Capacity		kW	1050.4	1083.6	1156.3	1228.9	1268.3	1307.6	1377.0	1426.6	1525.7	1559.0	1625.5	1698.1	1770.7	1843.3		
	Hot Water	Hot Water Heating Capacity		kW	1294.3	1332.7	1424.5	1517.2	1565.7	1614.3	1702.7	1762.2	1891.1	1926.6	1999.0	2090.4	2183.1	2275.8		
		Rated input power		kW	318.4	325.5	348.3	371.2	385.9	400.6	421.6	433.4	467.0	474.0	488.2	511.0	533.9	558.8		
		Rated Current		A	569.2	581.8	622.7	663.5	689.8	716.1	753.6	774.6	834.8	847.4	872.7	913.6	954.4	995.3		
		Hot Water Heating Capacity		kW	1349.5	1392.2	1485.5	1578.8	1629.4	1679.9	1769.9	1832.7	1960.1	2002.8	2088.3	2181.8	2274.9	2368.0		
		Hot Water Capacity		m ³ /h	29.0	30.0	32.0	34.0	35.1	36.2	38.1	39.4	42.2	43.1	44.9	46.9	49.0	51.8		
Compressor	Hot Water	Rated Input Power		kW	293.6	300.5	321.2	341.9	355.4	368.8	388.3	399.1	430.2	437.0	450.7	471.4	492.1	512.8		
		Rated Current		A	524.8	537.1	574.1	611.1	635.3	659.4	694.0	713.4	768.9	781.1	805.6	842.6	879.7	916.7		
		Power Supply		380V/3N~/50Hz																
		Type		5-6 Unmatching Gear Type Semi Hermetic Screw Compressor																
		Qty		Set	2	2	2	2	2	2	3	3	3	3	3	3	3	3		
	Evaporator	Capacity Regulating Control capacity		12.5%~100%										8.3%~100%						
		Type		Waterproof, Weatherproof, Low Noise, High Performance Axial Fan																
		Qty		18	20	20	20	20	20	24	24	24	26	30	30	30	30	30		
		Input Power		kW	32.4	36.0	36.0	36.0	40.0	44.0	43.2	43.2	43.2	46.8	54.0	54.0	54.0	54.0		
		Type		High Efficient Shell And Tube Heat Exchanger																
Heat Exchanger	Hot Water Side	Water Flow		m ³ /h	177.1	182.7	195.0	207.2	213.9	220.5	232.2	240.6	257.3	262.9	274.1	286.3	298.6	309.6		
		Water Pressure Drop		kPa	70	70	70	70	70	70	70	70	70	70	70	70	70	70		
		Water Pipe Dia		DN	125R×2	125R×2	150R×2	150R×2	150R×2	125R×2	125R×3	125R×3	125R×3	125R×3	125R×3	150R×3	150R×3	150R×3		
		Operation Pressure		MPa	1.6															
		Type		High Efficient Shell And Tube Heat Exchanger																
	Transmission/Waterpump	Water Flow Rate		m ³ /h	232.1	239.5	255.5	271.5	280.2	288.9	304.3	315.2	337.1	344.5	359.2	374.2	391.3	407.3		
		Water Pressure Drop		kPa	65	65	65	65	65	65	65	65	65	65	65	65	65	65		
		Water Pipe Dia		DN	125R×2	125R×2	125R×2	125R×2	125R×2	125R×2	125R×3	125R×3	125R×3	125R×3	125R×3	125R×3	125R×3	125R×3		
		Operation Pressure		MPa	1.6															
		Type		High Efficient Shell And Tube Heat Exchanger																
Operation	Width		mm	10080	11080	11080	11080	11080	11080	13660	13660	13660	14660	16660	16660	16660	16660			
	Depth		mm	2235	2235	2235	2235	2235	2235	2235	2235	2235	2235	2235	2235	2235	2235			
	Height		mm	2750	2750	2750	2750	2750	2750	2750	2750	2750	2750	2750	2750	2750	2750			
	Type		R22																	
	Charge		kg	336	360	378	396	402	408	432	444	468	492	540	558	576	594			
Operation Weight		kg	12600	12960	13440	13920	14280	14640	14280	17640	18360	18920	19440	19920	19920	19920	20880			

R407c Series Parameter (Total Heat Recovery)

AC	Model	KCA-B(R)TT(W)															
		2295	2306	2323	2340	2355	2370	3390	3402	3426	3437	3459	3476	3493	3510		
Hot water + Cooling	Cooling Capacity	kW	962.9	993.3	1059.9	1126.5	1162.6	1198.7	1262.3	1307.7	1398.6	1429.1	1490.0	1556.6	1623.2	1689.7	
	Unit Rated input power	kW	314.5	321.9	344.0	366.1	380.7	395.2	415.8	427.4	460.6	468.0	482.8	504.0	527.1	549.2	
	Rated Current	A	562.1	575.3	614.9	654.5	680.4	706.4	743.3	764.1	823.3	836.6	863.0	902.6	942.1	981.7	
	Cooling Capacity	kW	982.1	1013.2	1081.1	1149.0	1185.8	1222.6	1287.5	1333.9	1426.6	1457.6	1519.6	1587.7	1655.6	1723.5	
	Hot Water Heating Capacity	kW	1293.5	1257.3	1344.5	1431.7	1477.4	1523.2	1606.7	1628.6	1784.6	1818.4	1886.0	1973.1	2060.2	2147.4	
	Rated input power	kW	311.6	319.0	340.9	362.8	377.3	391.7	412.1	423.6	456.4	463.8	478.5	500.4	523.3	544.8	
	Rated Current	A	557.1	570.2	609.4	648.6	674.3	700.1	736.7	757.2	815.9	829.0	855.3	894.3	933.7	972.8	
	Hot Water Heating Capacity	kW	1248.2	1287.7	1374.0	1460.3	1507.1	1553.9	1636.3	1695.2	1813.1	1852.6	1931.6	2017.9	2104.2	2190.5	
	Hot Water Heating Capacity	m³/h	26.9	27.7	29.6	31.4	32.4	33.4	35.2	36.5	39.0	39.9	41.6	43.4	45.3	47.1	
	Rated Input Power	kW	287.0	293.8	314.0	334.2	347.6	360.7	375.9	390.1	420.4	427.1	440.7	460.9	481.1	501.3	
Rated Current	A	513.0	525.1	561.2	597.3	621.0	644.7	678.4	697.4	751.4	763.5	787.7	823.8	859.9	896.0		
Compressor	Power Supply																
	Type	380V/3N~/50Hz															
	Qty	5-6 Unmatching Gear Type Semi Helmholtz Screw Compressor															
	Capacity Regulating Control capacity	Set	2	2	2	2	2	2	2	3	3	3	3	3	3	3	
Evaporator	Type	12.5%~100% Y-Δ															
	Capacity Regulating Control capacity	8.3%~100%															
	Type	Waterproof, Weatherproof, Low Noise, High Performance Axial Fan															
	Qty	18	20	20	20	20	20	20	24	24	24	26	30	30	30	30	
Heat Exchanger	Input Power	kW	32.4	36.0	36.0	36.0	40.0	44.0	43.2	43.2	43.2	46.8	54.0	54.0	54.0	54.0	
	Type	High Efficient Shell And Tube Heat Exchanger															
	Water Flow	m³/h	165.6	170.9	182.3	193.8	200.0	206.2	217.1	224.9	240.6	245.8	256.3	267.7	279.2	290.6	
	Water Pressure Drop	kPa	70	70	70	70	70	70	70	70	70	70	70	70	70	70	
Hot Water Side	Water Pipe Dia	DN	125R×2	125R×2	150R×2	150R×2	150R×2	125R×2	125R×3	125R×3	125R×3	125R×3	150R×3	150R×3	150R×3		
	Operation Pressure	MPa	1.6														
	Type	High Efficient Shell And Tube Heat Exchanger															
	Water Flow Rate	m³/h	214.7	221.5	236.3	251.2	259.2	267.3	281.4	291.6	311.8	318.6	332.2	347.1	361.9	376.8	
Water Side	Water Pressure Drop	kPa	65	65	65	65	65	65	65	65	65	65	65	65	65		
	Water Pipe Dia	DN	125R×2	125R×2	125R×2	125R×2	125R×2	125R×2	125R×3	125R×3	125R×3	125R×3	125R×3	125R×3	125R×3		
	Operation Pressure	MPa	1.6														
	Width	mm	10080	11080	11080	11080	11080	11080	13660	13660	13660	14660	16660	16660	16660	16660	
Water Side	Depth	mm	2235	2235	2235	2235	2235	2235	2235	2235	2235	2235	2235	2235	2235	2235	
	Height	mm	2750	2750	2750	2750	2750	2750	2750	2750	2750	2750	2750	2750	2750	2750	
	Type	R407c															
	Charge	kg	336	360	378	396	402	408	432	444	468	492	540	558	576	594	
Operation	Weight	kg	12600	12960	13440	13920	14280	14640	14280	17640	18360	18720	19440	19920	20400	20880	

Notes:

1. Cooling mode condition: water leaving temperature 7°C, ambient temperature 35°C;
2. Cooling + hot water mode condition: AC water temperature 7°C, hot water leaving 45°C;
3. Hot water mode condition: Water tank initial temperature 15°C, end temperature 55°C, ambient temperature 20°CDB/15°CWB;
4. Hot water heating capacity: The average value under nominal condition; Rated power: average input power under nominal conditions;
5. Max.input power/ current is 1.25 times the rated value.

R134a Series Parameter

Model KCA-B(R)(H)		□	1055	1062	1075	1086	1100	1120	1138	1160	2172	2200	2340	2276	2320	3360	3414	3480	
Cooling Capacity		kW	192	220	244	301	358	420	484	563	672	716	840	968	1126	1260	1452	1689	
Heating Capacity		kW	215.0	246.4	295.7	337.1	401.0	470.4	542.1	630.6	642.2	801.9	940.8	1086	1226.1	1420	1626.2	1891.7	
Partial Heat Recovery		kW	48	55.0	66.0	75.3	89.5	105.0	121.0	140.8	150.5	179.0	210.0	242.0	281.5	315.0	363.0	422.3	
Electrical	Power Supply		380V/3H~50Hz																
	Input Power	kW	57.8	68.2	79.1	89.5	108.4	124.9	145.1	167.3	179.1	216.8	249.8	290.2	334.6	374.7	435.3	501.9	
	Input Current	A	103.3	121.9	141.4	160.0	193.8	223.3	259.4	299.0	320.1	387.5	446.5	518.7	598.1	669.8	778.1	897.1	
	Type		5-6 Unmatching Gear Type Semi Hermetic Screw Compressor																
Compressor	Qty	Set	1	1	1	1	1	1	1	1	2	2	2	2	2	3	3	3	
	Start Up		Y-Δ																
	Capacity Regulating		25%~100%																
	Input Power	kW	51.8	61.0	71.9	80.5	98.8	112.9	130.7	149.3	161.1	197.6	225.8	261.4	298.6	338.7	392.1	447.9	
Axial Fan	Type		Waterproof, Weatherproof, Low Noise, High Performance Axial Fan																
	Qty		4	4	6	6	8	8	8	10	12	16	16	16	20	24	24	30	
	Input Power	kW	6.0	7.2	7.2	9.0	9.6	12.0	14.4	18.0	18	19.2	24	28.8	36	36.0	43.2	50.4	
	Type		High Efficient Shell And Tube Heat Exchanger																
Water Side Heat Exchanger	Water Flow Rated	m³/h	33.0	37.8	45.4	51.8	61.6	72.2	83.2	96.8	103.5	123.2	144.5	166.5	193.7	216.7	249.7	290.5	
	Water Pressure Drop	MPa	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	
	Connection Pipe	DN	80FLG	80FLG	100FLG	100FLG	100FLG	125FLG	125FLG	125FLG	150FLG X 2	100FLG X 2	125FLG X 2	125FLG X 2	125FLG X 2	125FLG X 3	125FLG X 3	125FLG X 3	
	Working Pressure		MPa	1.6															
Partial Heat Recovery	Type		High Efficient Shell And Tube Heat Exchanger																
	Water Flow Rate	m³/h	8.3	9.5	11.4	12.9	15.4	18.1	20.8	24.2	25.9	30.8	34.8	48.4	54.2	62.4	72.6		
	Water Pressure Drop	kPa	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	
	Connection Pipe	DN	50FLG	50FLG	50FLG	50FLG	65FLG	65FLG	65FLG	65FLG	65FLG X 2	65FLG X 2	65FLG X 2	65FLG X 2	65FLG X 2	65FLG X 2	65FLG X 3	65FLG X 3	
Dimension	Working Pressure		MPa	1.6															
	L	mm	2550	2550	3520	3520	4650	4650	4650	5600	7120	9380	9380	9380	11280	14110	14110	16960	
	W	mm	2235	2235	2235	2235	2235	2235	2235	2235	2235	2235	2235	2235	2235	2235	2235	2235	
	H	mm	2600	2600	2600	2600	2750	2750	2750	2750	2600	2600	2600	2750	2750	2750	2750	2750	
Weight	Type		R134a																
	Charge	kg	60	65	80	90	105	130	143	165	180	210	260	286	330	390	429	495	
Operation Weight		kg	3200	3500	4300	4400	5000	5300	5300	6200	8800	10000	10600	11800	12400	15900	16500	18600	

Notes:

1. Cooling mode condition: water leaving temperature 7°C, ambient temperature 35°C;
2. Heating mode condition: water leaving temperature 45°C, air inlet temperature 7°CDB/6°CWB; ;
3. Maximum water of heat recovery mode condition: 55°C;
4. Max.input power/ current is 1.25 times the rated value,

R134a Series Parameter (Full Heat Recovery)

AC	Model KCA-B(T)(W)		1055	1062	1075	1086	1100	1120	1138	1160	
	Cooling Capacity		kW	192	220	264	358	420	484	563	
	Heating Capacity		kW	57.8	68.2	79.1	89.5	108.4	124.9	145.1	
	Input Power		kW	103.3	121.9	141.4	160.0	193.8	223.3	259.4	
	Rated Current		A	195.8	224.4	269.3	307.0	365.2	428.4	493.7	
	Hot Water / Hot Water Cooling	Cooling Capacity		kW	239.7	294.2	330.2	375.2	449.1	524.0	604.4
		Hot Water Heating Capacity		kW	53.7	67.6	78.4	88.7	107.4	123.8	143.8
		Rated Current		A	102.4	120.8	140.1	158.6	192.0	221.2	257.0
		Cooling Capacity		kW	251.6	288.3	345.9	394.4	469.1	550.4	634.2
		Hot Water Capacity		m ³ /h	5.41	6.20	7.44	8.49	10.10	11.84	13.65
Hot Water / Hot Water Cooling	Input Power		kW	52.3	62.2	72.2	81.7	98.9	114.0	132.4	
	Rated Current		A	94.3	111.3	129.0	146.1	176.8	203.8	232.7	
	Power Supply		380V/3N~/50Hz								
	Type		5-6 asymmetric serrated semi - hermetic screw compressor								
	Type		Y-△								
Compressor	Capacity Regulating		25%~100%								
	Control Capacity		Water proof, low noise, high efficient axial fan								
	Type		1.6								
	Motor Input Power		kW	4	6	9	6	8	8	10	
	Type		kW	6.0	7.2	7.2	9.0	9.6	12.0	14.4	
	Water Flow Rate		m ³ /h	33.0	37.8	45.4	51.8	61.6	72.2	83.2	
	Water Pressure Drop		kPa	70	70	70	70	70	70	70	
	Water Pipe Dia		DN	80FLG	80FLG	100FLG	100FLG	100FLG	125FLG	125FLG	
	Water Pressure		MPa	1.6							
	Type		1.6								
Hot Water / Hot Water Cooling	Water Flow Rate		m ³ /h	43.3	49.6	59.5	67.8	80.7	94.7	109.1	
	Water Pressure Drop		kPa	70	70	70	70	70	70	70	
	Water Pipe Dia		in	100FLG	100FLG	125FLG	125FLG	125FLG	150FLG	150FLG	
	Operating Pressure		MPa	1.6							
	Type		1.6								
	W		mm	2550	2550	3520	3520	4650	4650	5600	
	D		mm	2235	2235	2235	2235	2235	2235	2235	
	H		mm	2600	2600	2600	2600	2750	2750	2750	
	Type		R134a								
	Charge		kg	71	80	100	110	135	160	175	
Dimension Weight	Operation Weight		kg	4100	4400	5200	5300	6000	6300	6500	
	Type		200								

	Model KCA-B(T)(W)	2172	2200	2240	2276	2320	3360	3414	3480
AC Hot Water + Hot Water Cooling	Cooling Capacity kW	602	716	840	968	1126	1260	1452	1689
	Heating Capacity kW	179.1	216.8	249.8	290.2	334.6	374.7	435.3	501.9
	Input Power kW	320.1	387.5	446.5	518.7	598.1	669.8	778.1	897.1
	Rated Current A	614.0	730.3	856.8	987.4	1148.5	1285.2	1481.0	1722.8
	Cooling Capacity kW	750.3	898.2	1047.9	1208.8	1400.8	1571.9	1813.1	2101.2
	Hot Water Heating Capacity kW	217.2	214.8	247.5	287.4	331.6	371.3	431.4	497.4
	Rated Current A	317.2	384.0	442.5	514.1	595.8	663.7	771.1	889.1
	Cooling Capacity kW	788.9	938.2	1100.7	1268.5	1457.5	1651.1	1902.7	2213.3
	Hot Water Capacity m³/h	17.0	20.2	23.7	27.3	31.8	35.5	40.9	47.6
	Input Power kW	163.4	197.9	228.0	264.9	305.4	342.0	397.3	458.1
	Rated Current A	292.2	353.7	407.5	473.4	545.9	611.3	710.2	818.8
	Power Supply								
	Type								
	Capacity Regulating Control Capacity								
	Type								
	Motor Input Power kW								
	Type								
	Water Flow Rate m³/h								
Compressor / Air Fan Heat Exchanger / Shell and Tube heat exchanger / Direct cooled	Water Pressure Drop kPa								
	Water Pipe Dia DN								
	Operating Pressure MPa								
	Type								
	Water Flow Rate m³/h								
	Water Pressure Drop kPa								
	Water Pipe Dia in								
	Operating Pressure MPa								
	D mm								
	H mm								
	Type								
Heat Exchanger / Direct Cooled	Charge kg								
	Operation Weight kg								
	Type								
	Weight kg								
	Material								

Note:

1. Cooling mode condition: water leaving temperature 7°C, ambient temperature 35°C;
2. Heating mode condition: water leaving temperature 45°C, air inlet temperature 7°CDB/6°CWB; ;
3. Maximum water of heat recovery mode condition: 55°C;
4. Max.input power/ current is 1.25 times the rated value,

Modular Air Cooled Heat Pump



- Passed the national energy conservation certification, the EER is 3.25.
- Applies high efficient heat exchanger tubes and hydrophilic aluminum sheets, to ensure play the best effect of heat transfer.
- Applies high-quality steel plate and has electrostatic phosphating coating, solid and easy.
- Activity combination, operate silence, easy for installation and maintenance

KMS 020 D R 2 H Q

Q: Low Temperature, Omitted: Without Low Temperature
H: Heat Recovery, Omitted: Without Heat Recovery
Refrigerant, 2: R407C, 3: R410A, Omitted: R22
R: Heat Pump, Omitted: Without Heat Pump
Design Version
Model Code
Kinquair Modular Air Cooled Chiller

Classic Unit Parameter (15RT/20RT Modules Combination)

Parameter			Model	KMS																
Item				01SD(R)/2 (H)/Q-10	02OD(R)/2 (H)/Q-01	04OD(R)/2 (H)/Q-02	06OD(R)/2 (H)/Q-03	08OD(R)/2 (H)/Q-04	10OD(R)/2 (H)/Q-05	12OD(R)/2 (H)/Q-06	14OD(R)/2 (H)/Q-07	16OD(R)/2 (H)/Q-08	18OD(R)/2 (H)/Q-09	20OD(R)/2 (H)/Q-10	22OD(R)/2 (H)/Q-11	24OD(R)/2 (H)/Q-12				
R22	15RT Module Quantity			1	0	0	0	0	0	0	0	0	0	0	0	0				
	20RT Module Quantity			0	1	2	3	4	5	6	7	8	9	10	11	12				
	Cooling Capacity		kW	50.5	65	130	195	260	325	390	455	520	585	650	715	780				
	Heating Capacity		kW	55	71	142	213	284	355	426	497	568	639	710	781	852				
R407C	Input Power			kW	15.5	19.9	39.8	59.7	79.6	99.5	119.4	139.3	159.2	179.1	199	218.9	238.8			
	Cooling Capacity		kW	50.5	61	122	183	244	305	366	427	488	549	610	671	732				
	Heating Capacity		kW	55	67	134	201	268	335	402	469	536	603	670	737	804				
	Input Power		kW	15.5	21.2	42.4	63.6	84.8	106	127.2	148.4	169.6	190.8	212	233.2	254.4				
R410A	Cooling Capacity			kW	50.5	65	130	195	260	325	390	455	520	585	650	715	780			
	Heating Capacity		kW	55	71	142	213	284	355	426	497	568	639	710	781	852				
	Input Power		kW	15.5	19.5	39	58.5	78	97.5	117	136.5	156	175.5	195	214.5	234				
	Heat Recovery Capacity (Optional)		kW	12.5	15	30	45	60	75	90	105	120	135	150	165	180				
Power Supply				380V/3N~/50Hz																
Compressor	Type			Hermetic compressor																
	Quantity		Set	2	2	4	6	8	10	12	14	16	18	20	22	24				
Air Side Heat Exchanger				Inner grooved tube and fin																
Axial Fan	Type			High efficient shell and tube heat exchanger																
	Quantity		Set	2	2	4	6	8	10	12	14	16	18	20	22	24				
Air Side Heat Exchanger				kW	1.5	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18			
Chilled Water Side	R22	Type			High efficient shell and tube heat exchanger															
		Water Flow Rate		m3/h	8.7	11.2	22.4	33.5	44.7	55.9	67.1	78.2	89.4	100.6	111.8	123	134.1			
		Water Pressure Drop		kPa	40	40	40	40	40	40	40	40	40	40	40	40	40			
		Type	High efficient shell and tube heat exchanger																	
Heat Exchanger	R410A	Type			High efficient shell and tube heat exchanger															
		Water Flow Rate		m3/h	8.7	10.5	21	31.5	42	52.5	62.9	73.4	83.9	84.4	104.9	115.4	125.9			
		Water Pressure Drop		kPa	40	40	40	40	40	40	40	40	40	40	40	40	40			
		Type	High efficient shell and tube heat exchanger																	
Water Flow Rate				m3/h	8.7	11.2	22.4	33.5	44.7	55.9	67.1	78.2	89.4	100.6	111.8	123	134.1			
Water Pressure Drop				kPa	40	40	40	40	40	40	40	40	40	40	40	40	40			
Piping Dia				DN50×1 DN50×1 DN50×2 DN50×4 DN50×5 DN50×6 DN50×7 DN50×8 DN50×9 DN50×10 DN50×11 DN50×12																
Water Side Operation Pressure				1.0																
Suggest Main Pipe				DN50	DN50	DN65	DN80	DN100	DN100	DN125	DN125	DN125	DN150	DN150	DN150	DN200				
Water Side Heat Recovery	R22	Type			High Efficient Pipe in Pipe Heat Exchanger															
		Water Flow Rate		m3/h	2.2	2.2	5.2	7.7	10.3	12.9	15.5	18.1	20.6	23.2	25.8	28.4	31			
		Water Pressure Drop		kPa	21	21	21	21	21	21	21	21	21	21	21	21	21			
		Piping		R1"×1 R1"×1 R1"×2 R1"×3 R1"×4 R1"×5 R1"×6 R1"×7 R1"×7 R1"×8 R1"×9 R1"×10 R1"×11 R1"×12																
Water Side Operation Pressure				1.0																
Suggest Main Pipe				DN25	DN25	DN40	DN40	DN50	DN50	DN65	DN65	DN65	DN65	DN80	DN80	DN80				
Dimension	Length			mm	1080	1080	2460	3840	5220	6600	7980	9360	10740	12120	13500	14880	16260			
	Width			mm	2155	2155	2155	2155	2155	2155	2155	2155	2155	2155	2155	2155	2155			
	Height			mm	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020			
Operation Weight				kg	750	800	1600	2400	3200	4000	4800	5600	6400	7200	8000	8800	9600			

Note:

- 1.Cooling Condition:water leaving temperature 7 °C; ambient temperature 35 °C; heat recovery entering temperature 40 °C; leaving temperature 45 °C
2.Heating Condition:water leaving temperature 45 °C; ambient temperature 7 °C; DB/6 °C; WB,z
3.Operating Condition: cooling mode is 16~45 °C; heating mode -10~21 °C,heat recovery only used in cooling mode

Performance Data-- Classic Model(20RT/30RT)

Data		Model	KMS																
			030D(R)/Z (H-0)	050D(R)/Z (H-1)	060D(R)/Z (H-2)	070D(R)/Z (H-2)	090D(R)/Z (H-3)	100D(R)/Z (H-2)	110D(R)/Z (H-3)	150D(R)/Z (H-5)	180D(R)/Z (H-6)	210D(R)/Z (H-7)	240D(R)/Z (H-8)	270D(R)/Z (H-9)	300D(R)/Z (H-10)	330D(R)/Z (H-10)	360D(R)/Z (H-10)		
Item																			
20RT Module Qty			0	1	0	2	0	2	1	0	0	0	0	0	0	0	0		
30RT Module Qty			1	1	2	1	3	2	3	5	6	7	8	9	10	11	12		
R22	Cooling Capacity	kW	97.5	162.5	195	227.5	292.5	325	357.5	487.5	585	682.5	780	877.5	975	1072.5	1170		
	Heating Capacity	kW	106	177	212	248	318	354	389	530	636	742	848	954	1060	1166	1272		
	Input Power	kW	30.4	50.3	60.8	70.2	91.2	100.6	111.1	152	182.4	212.8	243.2	273.6	304	334.4	364.8		
R407C	Cooling Capacity	kW	91.5	152.5	183	213.5	274.5	305	335.5	457.5	549	640.5	732	823.5	915	1006.5	1098		
	Heating Capacity	kW	100.5	167.5	201	234.5	301.5	335	368.5	502.5	603	703.5	804	904.5	1005	1105.5	1206		
	Input Power	kW	31.8	53	63.6	74.2	95.4	106	116.6	159	190.8	222.6	254.4	286.2	318	349.8	381.6		
R410A	Cooling Capacity	kW	97	162	194	227	291	324	356	485	582	679	776	873	970	1067	1164		
	Heating Capacity	kW	106	177	212	248	318	354	389	530	636	742	848	954	1060	1166	1272		
	Input Power	kW	30.1	49.6	60.2	69.1	90.3	99.2	109.8	150.5	180.6	210.7	240.8	270.9	301	331.1	361.2		
Heat Recovery Capacity (Optional)		kW	22.5	37.5	45	52.5	67.5	75	82.5	112.5	135	157.6	180	202.5	225	247.5	270		
Power Supply			380V/3N ~ /50Hz v																
Compressor	Type		Hermetic Scroll Compressor																
	Qty	Set	3	5	6	7	9	10	11	15	18	21	24	27	30	33	36		
Air Side Heat Exchanger			Inner Groove Copper Tube and Aluminum Fin																
Anxial Fan	Type		Water proof,low noise, high efficient anxial fan																
	Qty	Set	2	4	4	6	6	8	8	10	12	14	16	18	20	22	24		
	Input Power	kW	2.5	4	5	5.5	7.5	8	9	12.5	15	17.5	20	22.5	25	27.5	30		
Chilled Water Side Heat Exchanger	R22	Type	High Efficient Shell and Tube Heat Exchanger																
		Water Flow Rate	m³/h	16.8	27.9	33.5	39.1	50.3	55.9	61.5	83.8	100.6	117.4	134.1	150.9	167.7	184.4	201.2	
		Water Pressure Drop	kPa	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	
	R407C	Type	High Efficient Pipe in Pipe Heat Exchanger																
		Water Flow Rate	m³/h	15.7	26.2	31.5	36.7	47.2	52.5	57.5	78.7	94.4	110.1	125.9	141.6	157.4	173.1	188.8	
		Water Pressure Drop	kPa	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	
	R410A	Type	High Efficient Pipe in Pipe Heat Exchanger																
		Water Flow Rate	m³/h	16.7	27.9	33.4	39	50.1	55.7	61.2	83.4	100.1	116.8	133.5	150.2	166.8	183.5	200.2	
		Water Pressure Drop	kPa	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	
	Water Pipe Dia.		-	DN50×1	-	DN50×2	-	DN50×2	DN50×1	-	-	-	-	-	-	-	-		
			DN65×1	DN65×1	DN65×2	DN65×1	DN65×3	DN65×2	DN65×3	DN65×5	DN65×6	DN65×7	DN65×8	DN65×9	DN65×10	DN65×11	DN65×12		
	Water Side Operation Pressure		MPa	1.0															
	Main Pipe Dia.			DN65	DN80	DN80	DN100	DN100	DN100	DN125	DN125	DN150	DN150	DN200	DN200	DN200	DN200	DN200	
	Heat Recovery Water Side Heat Exchanger	Type		High Efficient Pipe in Pipe Heat Exchanger															
Water Flow Rate		m³/h	3.9	6.4	7.7	9	11.6	12.9	14.2	19.3	23.2	27.1	31	34.8	38.7	42.6	46.4		
Water Pressure Drop		kPa	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21		
Water Pipe Dia.			R1"×1	R1"×2	R1"×2	R1"×3	R1"×3	R1"×4	R1"×4	R1"×5	R1"×6	R1"×7	R1"×8	R1"×9	R1"×10	R1"×11	R1"×12		
Water Side Operation Pressure		MPa	1.0																
Main Pipe Dia.			DN40	DN40	DN40	DN50	DN50	DN50	DN50	DN65	DN65	DN80	DN80	DN100	DN100	DN100	DN100		
Dimension	Length	mm	1080	2460	2460	3840	3840	5220	5220	6600	7980	9360	10740	12120	13500	14880	16260		
	Width	mm	2155	2155	2155	2155	2155	2155	2155	2155	2155	2155	2155	2155	2155	2155	2155		
	Height	mm	2270	2270	2270	2270	2270	2270	2270	2270	2270	2270	2270	2270	2270	2270	2270		
	Operation Weight	kg	950	1750	1900	2550	2850	3500	3650	4750	5700	6650	7600	8550	9500	10450	11400		

Note:

- 1.Cooling Condition:water leaving temperature 7℃; ambient temperature 35℃; heat recovery entering temperature 40℃; leaving temperature 45℃
2.Heating Condition:water leaving temperature 45℃; ambient temperature 7℃; DB/6℃; WB.z
3.Operating Condition: cooling mode is 16~45℃; heating mode -10~21℃,heat recovery only used in cooling mode

Performance Data-- Classic Model(30RT/40RT)

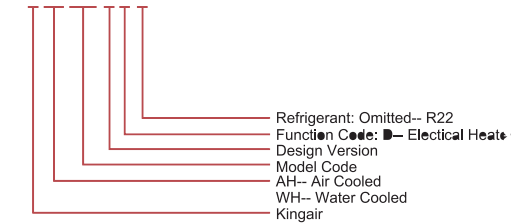
Data		Model	KMS																	
			0400(R/2) (H-01)	0700(R/2) (H-11)	0800(R/2) (H-02)	1000(R/2) (H-21)	1100(R/2) (H-12)	1200(R/2) (H-03)	1300(R/2) (H-31)	1400(R/2) (H-22)	1500(R/2) (H-13)	1600(R/2) (H-04)	1700(R/2) (H-32)	1800(R/2) (H-23)	1900(R/2) (H-14)	2000(R/2) (H-05)	2100(R/2) (H-33)	2200(R/2) (H-24)		
30RT Module Qty			0	1	0	2	1	0	3	2	1	0	3	2	1	0	3	2		
40RT Module Qty			1	1	2	1	2	3	1	2	3	4	2	3	4	5	3	4		
R22	Cooling Capacity	kW	130	227.5	260	325	357.5	390	422.5	455	487.5	520	552.5	585	617.5	650	682.5	715		
	Heating Capacity	kW	142	248	284	354	390	426	460	496	532	568	602	638	674	710	744	780		
	Input Power	kW	40.1	70.5	80.2	100.9	110.6	120.3	131.1	141	150.7	160.4	171.1	181.1	190.8	200.5	211.5	221.2		
R407C	Cooling Capacity	kW	122	213.5	244	305	335.5	366	396.5	427	457.5	488	518.5	549	579.6	610	640.5	671		
	Heating Capacity	kW	134	234.5	268	335	368.5	402	435.5	469	502.5	536	569.5	603	636.5	670	703.6	737		
	Input Power	kW	42.4	74.2	84.8	106	116.6	127.2	137.8	148.4	159	169.6	180.2	190.8	201.4	212	222.6	232.2		
R410A	Cooling Capacity	kW	130	227	260	324	357	390	421	454	487	520	551	584	617	650	681	714		
	Heating Capacity	kW	142	248	284	354	390	426	460	496	532	568	602	638	674	710	744	780		
	Input Power	kW	39.3	69.4	78.6	99.5	108.7	117.9	129.6	138.8	148	157.2	168.9	178.1	187.3	196.5	208.2	217.4		
Heat Recovery Capacity (Optional)		kW	30	52.5	60	75	82.5	90	97.5	105	112.5	120	127.5	135	142.5	150	157.5	165		
Power Supply			380V/3N~/50Hz																	
Compressor	Type		Hermetic Scroll Compressor																	
	Qty	Set	4	7	8	10	11	12	13	14	15	16	17	18	19	20	21	22		
Air Side Heat Exchanger			Inner Groove Copper Tube and Aluminum Fin																	
Anxial Fan	Type		Water proof,low noise,high efficient anxial fan																	
	Qty	Set	2	4	4	6	6	6	8	8	8	8	10	10	10	10	12	12		
	Input Power	kW	3.6	6.1	7.2	8.6	9.7	10.8	11.1	12.2	13.3	14.4	14.7	15.8	16.9	18	18.3	19.4		
Chilled Water Side Heat Exchanger	Type		High Efficient Shell and Tube Heat Exchanger																	
	Water Flow Rate	m ³ /h	22.4	39.1	44.7	55.9	61.5	67.1	72.7	78.2	83.8	89.4	95	100.6	106.2	111.8	117.4	123		
	Water Pressure Drop	kPa	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40		
	Type		High Efficient Pipe in Pipe Heat Exchanger																	
	Water Flow Rate	m ³ /h	21	36.7	42	52.5	57.7	62.9	68.2	73.4	78.7	83.9	89.2	94.4	99.7	104.9	110.1	115.4		
	Water Pressure Drop	kPa	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40		
	Type		High Efficient Pipe in Pipe Heat Exchanger																	
	Water Flow Rate	m ³ /h	22.4	39	44.7	55.7	61.4	67.1	72.4	78.1	83.8	89.4	94.8	100.4	106.1	111.8	117.1	122.8		
	Water Pressure Drop	kPa	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40		
	Water Pipe Dia.		DN65×1	DN65×2	DN65×2	DN65×3	DN65×3	DN65×3	DN65×4	DN65×4	DN65×4	DN65×4	DN65×5	DN65×5	DN65×5	DN65×6	DN65×6			
	Water Side Operation Pressure	MPa	1.0																	
	Main Pipe Dia.		DN65	DN100	DN100	DN100	DN125	DN125	DN125	DN125	DN125	DN150	DN150	DN150	DN150	DN150	DN150	DN150		
Heat Recovery Water Side Heat Exchanger	Type		High Efficient Pipe in Pipe Heat Exchanger																	
	Water Flow Rate	m ³ /h	5.2	9	10.3	12.9	14.2	15.5	16.8	18.1	19.3	20.6	21.9	23.2	24.5	25.8	27.1	28.4		
	Water Pressure Drop	kPa	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21		
	Water Pipe Dia.		R1-1/2"	R1-1/2"	R1-1/2"×2	R1-1/2"×2	R1-1/2"×2	R1-1/2"×2	R1-1/2"×2	R1-1/2"×2	R1-1/2"×2	R1-1/2"×2	R1-1/2"×2	R1-1/2"×2	R1-1/2"×2	R1-1/2"×2	R1-1/2"×2	R1-1/2"×2		
	Water Side Operation Pressure	MPa	1.0																	
	Main Pipe Dia.		DN40	DN50	DN50	DN50	DN50	DN65	DN65	DN65	DN65	DN65	DN65	DN65	DN80	DN80	DN80	DN80		
Dimension	Length	mm	1260	2640	2820	4020	4200	4380	5400	5580	5760	5940	6960	7140	7320	7500	8520	8700		
	Width	mm	2155	2155	2155	2155	2155	2155	2155	2155	2155	2155	2155	2155	2155	2155	2155	2155		
	Height	mm	2310	2310	2310	2310	2310	2310	2310	2310	2310	2310	2310	2310	2310	2310	2310	2310		
	Operation Weight	kg	1250	2200	2500	3150	3450	3750	4100	4400	4700	5000	5350	5650	5950	6250	6600	6900		

- Note:
- Cooling Condition:water leaving temperature 7℃; ambient temperature 35℃; heat recovery entering temperature 40℃; leaving temperature 45℃
 - Heating Condition:water leaving temperature 45℃; ambient temperature 7℃; DB/6℃; WB.z
 - Operating Condition: cooling mode is 16~45℃; heating mode -10~21℃,heat recovery only used in cooling mode

Cabinet Isothermal & Isohumidity AC



- Patented design unit frame structure is simple and refined,outlook is general and elegant,easily blend with conditioned room surrounding.
- Use the latest fully hermetic compressor, low noise and small vibration.
- Evaporator uses high purity inner groove copper tube and hydrophilic aluminium slit fin, heat transfer coefficient is 67% higher than normal evaporator.
- Status will be showed in the screen, easy operation.



Performance Data(Water Cooled)

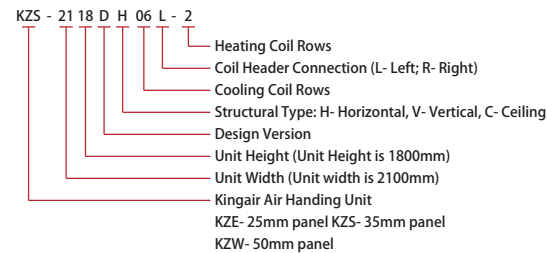
Item	Data	Model	KWH 1008D	KWH 1258D	KWH 1508D	KWH 2008D	KWH 2508D	KWH 3008D	KWH 3608D	KWH 4008D	KWH 5008D	
Unit Features	Cooling Capacity	kW	29	34	46	59	68	88	102	118	136	
	Heating Capacity	kW	16	20	24	28	36	44	50	60	72	
	Cycle Air Volume	m ³ /h	6000	7000	9000	12000	14000	18000	21000	23000	26000	
	Top Flow	Po	80	80	100	100	150	200	200	200	300	
	Side Flow	Po	0	0	0	0	-	-	-	-	-	
	Top Flow	dB(A)	63	64	64	65	68	71	73	75	76	
	Side Flow	dB(A)	61	63	63	64	-	-	-	-	-	
	Noise	dB(A)	61	63	63	64	-	-	-	-	-	
	Temperature Range	℃	18~28									
	Power Supply		380V/3~/50Hz									
Refrigerant System	Rated Cooling Power	kW	8.1	9	12.1	17.4	18.8	25	27.7	31.5	40.6	
	Unit Total Power	kW	30.1	35	42.1	56	66.8	81	89.7	109	130.1	
	Type		R22									
	Distribution Method		Capillary Tube/ Thermal Expansion Valve									
	Charged	kg	6	8	10	12	15	20	24	30	38	
	Type		Scroll Compressor									
	Input Power	kW	3.28	3.73	4.75	6.5	7.4	9.5	10.5	12.5	15.5	
	Face Area	m ²	0.67	0.79	1.41	1.51	1.51	2.2	2.2	2.6	2.6	
	Type		Shell and Tube Heat Exchanger									
	Water Flow Rate	m ³ /h	6.1	7	10.5	12.5	14.5	18.8	21.8	25	29	
Supply Air System	Water Pressure Drop	kPa	23	29	34	30	36	23	41	42	46	
	Inlet/Outlet Pipe		32	32	40	40	40	40	65	65	80	
	Type		Low Noise Double Inlet Centrifugal Type									
	Driven		Belt									
	Motor Power	kW	1.5	1.5	2.2	3	4	5.5	5.5	5.5	11	
	Air Filter		Nylon									
	Type		Electrical Heater									
	Motor Power	kW	16	20	24	28	36	44	50	60	72	
	Type		Electrode Humidifier									
	Power	kW	6	12	17.5	23	23	23	23	23	23	
Dimension	Humidification	kg/h	8	15	23	23	23	23	23	23	23	
	Water Inlet Pipe	mm	DN15									
	Depth	mm	1480	1600	1780	1780	2050	2050	2050	2050	2050	
	Width	mm	550	650	890	890	1000	1200	1200	1500	1500	
	Top Flow	mm	1900	1900	2100	2100	2100	1950	1950	1950	1950	
	Side Flow	mm	2200	2200	2480	2480	-	-	-	-	-	
	Height	mm	1200	1200	1200	1200	1200	1200	1200	1200	1200	
	Top Flow	kg	355	440	710	780	980	1450	1650	1800	1800	
	Side Flow	kg	375	465	740	810	-	-	-	-	-	

Modular Air Handling Unit



- Kingair patented air handing unit structure is with tenon and double pillar double metal layer for insulation and no cold bridge.
- Pannel is patented aluminium structure.
- Coil are manufactured from imported cooper tube with pure aluminum fin pressure bonded to the tubes under a 12MPa pressure as to ensure the bond contact is tight,even an without water leakage risk. In the mean time, it provides minimum thermal resistance and high heat transfer rate.

- Panner boards are connected by bolts and nuts, easy to install at site.
- Smooth inner surface, not easy to accumulate dust, especially for clean place.



Air Flow Table

Model KZE/KZS/KZW	Face Velocity (m/s)	Air Flow (m³/h)								
		1.60	2.00	2.25	2.50	2.75	2.85	3.00	3.50	4.00
0606	1000	1250	1406	1563	1719	1781	1875	2188	2500	
0906	1741	2176	2448	2720	2992	3101	3264	3808	4353	
1206	2509	3136	3528	3920	4313	4469	4705	5489	6273	
0909	2736	3420	3847	4275	4702	4873	5130	5985	6840	
1209	3943	4929	5545	6161	6777	7023	7393	8625	9857	
1509	5150	6437	7242	8047	8851	9173	9656	11265	12875	
1212	5735	7169	8065	8961	9857	10216	10753	12546	14338	
1512	7490	9363	10534	11704	12875	13343	14045	16386	18727	
1812	9246	11558	13003	14448	15892	16470	17337	20227	23116	
2112	11002	13753	15472	17191	18910	19597	20629	24067	27505	
1515	9832	12290	13826	15362	16898	17513	18434	21507	24579	
1815	12136	15170	17066	18962	20859	21617	22755	26547	30340	
2115	14440	18050	20307	22563	24819	25722	27075	31588	36101	
2415	16745	20931	23547	26163	28780	29826	31396	36629	41861	
1919	15976	19970	22467	24963	27459	28458	29956	34948	39941	
2119	17878	22348	25141	27935	30728	31846	33522	39109	44696	
2419	20731	25914	29153	32393	35632	36928	38871	45350	51828	
2719	23584	29480	33165	36850	40535	42009	44220	51590	58961	
2222	22450	28063	31571	35079	38587	39990	42094	49110	56126	
2422	24718	30898	34760	38622	42484	44029	46346	54071	61795	
2722	28120	35150	39543	43937	48331	50088	52724	61512	70299	
3022	31521	39401	44327	49252	54177	56147	59102	68953	78803	
2525	29188	36485	41045	45606	50166	51990	54727	63848	72969	
2725	31748	39685	44546	49606	54567	56551	59527	69449	79370	
3025	35589	44486	50046	55607	61168	63392	66728	77850	88971	
3325	39429	49286	55447	61608	67768	70233	73929	86251	98572	
3625	43270	54087	60848	67608	74369	77074	81130	94652	108174	
3628	50687	63359	71279	79198	87118	90286	95038	110878	126718	
3928	55186	68982	77605	86228	94851	98300	103474	120719	137965	
4530	65749	82186	92460	102733	113006	117115	123279	143826	164373	
4830	70358	87947	98940	109934	120927	125324	131920	153907	175894	
4533	73576	91970	103467	114963	126459	131058	137956	160948	183941	
4833	78734	98417	110719	123021	135323	140244	147625	172230	196834	
4536	82969	103711	116675	129639	142603	147789	155567	181495	207422	
4836	88785	110981	124853	138726	152599	158148	166471	194216	221961	
5136	94600	118250	133031	147813	162594	168507	177375	206938	236500	
5436	100416	125520	141210	156900	172590	178866	188280	219659	251039	
5736	106231	132789	149388	165986	182585	189225	199184	232381	265578	
6036	112047	140059	157566	175073	192581	199584	210088	245103	280117	
6636	121020	151300	170200	189090	208000	215560	227000	265000	300000	

Cooling Capacity Performance

Model KZE KZS KZW	Rated Air Flow (m³/h)	Fresh Air						Return Air					
		4 Rows		6 Rows		8 Rows		4 Rows		6 Rows		8 Rows	
		Sensible Cooling Capacity kW	Total Cooling Capacity kW	Sensible Cooling Capacity kW	Total Cooling Capacity kW	Sensible Cooling Capacity kW	Total Cooling Capacity kW	Sensible Cooling Capacity kW	Total Cooling Capacity kW	Sensible Cooling Capacity kW	Total Cooling Capacity kW	Sensible Cooling Capacity kW	Total Cooling Capacity kW
0606	1563	7.8	17.8	10.2	25	11.5	28.7	5.7	7.3	7.3	10.7	8.3	13
0906	2720	14	30	18	41	20	46	11	14	13	19	15	21
1206	3920	22	49	27	64	29	68	16	22	20	29	21	33
0909	4275	23	49	30	69	33	77	17	23	22	32	24	37
1209	6161	36	81	45	106	48	112	25	35	31	47	33	52
1509	8047	49	114	60	142	63	150	33	47	39	58	44	70
1212	8961	47	105	58	138	62	147	36	48	44	61	44	71
1512	11704	64	147	84	192	93	213	47	65	55	82	61	95
1812	14448	81	189	95	224	101	239	59	83	72	107	79	122
2112	17191	96	224	110	259	121	285	71	101	85	123	90	140
1515	15362	83	192	96	222	107	247	63	90	73	107	80	120
1815	18962	107	248	133	309	142	330	77	108	94	141	104	158
2115	22563	125	290	146	339	157	364	93	132	105	160	120	184
2415	26163	143	331	173	400	186	430	102	150	120	182	135	215
1919	24963	140	324	161	373	177	410	100	144	124	187	133	210
2119	27935	163	381	198	463	213	498	115	164	145	220	154	240
2419	32393	177	409	206	475	222	513	130	184	166	239	175	272
2719	36850	207	481	243	564	265	615	150	210	165	261	196	304
2222	35079	200	466	239	556	257	599	142	199	170	260	192	300
2422	38622	216	502	262	607	283	657	157	222	195	296	209	330
2722	43937	241	558	282	653	307	710	170	244	217	327	236	376
3022	49252	264	608	338	778	371	853	195	282	236	362	257	426
2525	45606	264	613	313	727	340	792	186	264	225	337	246	389
2725	49606	280	649	332	769	363	840	201	285	246	371	260	426
3025	55607	308	710	364	840	399	921	210	305	280	410	290	466
3325	67768	368	851	448	1078	503	1225	272	376	346	525	381	600
3625	74369	407	944	496	1195	556	1355	385	420	381	581	420	663
3628	87118	473	1095	577	1389	648	1578	443	487	444	676	490	772
3928	94851	518	1204	633	1525	710	1730	384	538	486	741	535	845
4530	113006	587	1336	767	1855	859	2094	466	658	576	876	620	965
4830	120927	634	1448	825	1995	922	2250	502	711	603	907	666	1041
4533	126459	549	1196	859	2075	961	2343	522	737	645	980	693	1080
4833	135323	593	1297	923	2232	1032	2518	562	796	675	1015	746	1165
4536	142603	615	1338	964	2327	1079	2632	585	825	705	1054	780	1212
4836	152599	664	1449	1036	2504	1160	2828	630	891	758	1138	838	1307
5136	162594	712	1562	1108	2680	1240	3025	674	958	812	1221	897	1402
5436	172590	761	1674	1181	2857	1321	3222	719	1025	865	1305	956	1497
5736	182585	810	1787	1253	3033	1401	3418	764	1092	919	1388	1014	1591
6036	192581	859	1899	1326	3211	1482	3615	808	1159	972	1472	1074	1686
6636	208000	943	2100	1447	3508	1614	3939	859	1213	1061	1615	1169	1843

Note

1. Chiller water inlet/outlet water temperature 7°C/12°C;
2. Return air intake temperature 27°C DB/19.5°C WB; fresh air intake temperature 35°C DB/28°C WB;
3. Above data is only for your reference, if any change of working condition of different coil circuit lead to different cooling capacity, please refer to King air for detail;
4. All specification are subject to change by the manufacture without prior notice.

Hot Water Performance Parameter

Model KZE KZS KZW	Rated Air Flow (m ³ /h)	Fresh Air				Return Air			
		1 Row	2 Rows	3 Rows	4 Rows	1 Row	2 Rows	3 Rows	4 Rows
		Total Load kW	Total Load kW	Total Load kW	Total Load kW	Total Load kW	Total Load kW	Total Load kW	Total Load kW
0606	1563	5.3	11.7	14.9	18.6	4	9.4	11.9	15.1
0906	2720	13	22	30	36	11	17	25	29
1206	3920	21	33	45	53	16	27	38	43
0909	4275	21	34	48	56	18	27	39	47
1209	6161	32	51	70	83	26	43	59	69
1509	8047	43	70	95	111	35	57	79	92
1212	8961	47	76	104	122	38	62	86	102
1512	11704	62	100	138	160	50	82	115	133
1812	14448	77	127	171	198	64	104	143	166
2112	17191	93	150	204	233	76	123	168	197
1515	15362	75	133	182	210	60	109	150	176
1815	18962	94	167	226	261	77	136	186	218
2115	22563	115	200	270	308	94	163	221	257
2415	26163	136	234	310	359	111	193	261	300
1919	24963	133	220	297	344	112	181	246	288
2119	27935	153	247	334	383	125	203	279	319
2419	32393	178	290	384	444	146	237	324	372
2719	36850	195	332	440	509	168	273	364	424
2222	35079	192	310	411	481	157	257	350	401
2422	38622	212	345	457	530	175	286	381	442
2722	43937	234	395	518	612	200	322	435	508
3022	49252	262	428	573	676	215	367	487	567
2525	45606	239	408	538	626	205	337	450	528
2725	49606	262	429	590	684	216	369	492	572
3025	55607	297	482	665	764	242	415	551	639
3325	67768	332	539	730	849	268	444	616	709
3625	74369	367	594	794	921	299	487	673	781
3628	87118	430	698	928	1079	350	570	792	909
3928	94851	468	767	1005	1181	382	623	854	992
4530	113006	563	915	1213	1412	460	750	1029	1175
4830	120927	605	986	1306	1510	499	807	1082	1259
4533	126459	630	1030	1360	1574	523	848	1148	1321
4833	135323	645	1107	1462	1685	559	908	1234	1416
4536	142603	689	1163	1535	1774	593	959	1296	1491
4836	152599	731	1254	1665	1926	632	1035	1404	1603
5136	162594	793	1317	1783	2079	682	1120	1494	1731
5436	172590	857	1398	1922	2207	696	1206	1599	1860
5736	182585	917	1490	2059	2357	748	1291	1709	1987
6036	192581	980	1601	2188	2518	800	1316	1828	2116
6636	208000	1058	1729	2363	2720	864	1422	1975	2285

Note:

1. Hot water inlet/outlet 60°C/50°C;
2. Air return temperature 15°C DB, fresh air temperature 7°C DB;
3. The above data only for reference, if any changes of air intake condition, water inlet/outlet temperature lead to different heating capacity, please refer to Kingair for detail;
4. All specification are subject to change by the manufacture without prior notice.

Functional Section Dimension

Model	Rated Air Flow (m³/h)	Length (mm)																Other	
		Mixing Box	Plate Filter	Bag Filter	Fold Filter	Purification	PM 2.5 Purification	Electric Cleaner	Photocatalyst Cleaner	Fresh Air Discharge	Fresh Air Discharge (1 - 6 Rows)	Cooling Coil (8 - 12 Rows)	Cooling Coil (1 - 6 Rows)	Heating Section (8mm and 10mm Water Gap)	Humidification Section	Section Access	Silencer		Fan (Model A)
0606	1563	600	200	500	400	200	300	200	1200	600	600	300	600	600	600	600	900(1.8)	900(2.0)	For heat recovery model, the dehumidifier section length based on the actual condition to determine. For selection, Active carbon section: 900
0906	2720	600	200	500	400	200	300	200	1200	600	800	300	600	600	600	900	900(2.0)	1100(2.25)	
1206	3920	600	200	500	400	200	300	200	1200	600	800	300	600	600	900	800(2.25)	1100(2.5)		
0909	4275	600	200	500	400	200	300	200	1200	600	800	300	600	600	900	1100(2.5)	1300(2.8)		
1209	6161	600	200	500	400	200	300	200	1200	600	800	300	600	600	900	900(2.8)	1300(3.15)		
1509	8047	600	200	500	400	200	300	200	1200	600	800	300	600	600	900	800(3.15)	900(3.55)		
1212	8961	600	200	500	400	200	300	200	1200	600	800	300	600	600	900	1300(3.15)	1400(3.55)		
1512	11704	600	200	500	400	200	300	200	1200	600	800	300	600	600	900	900(3.55)	1000(4.0)		
1812	14448	800	200	500	400	200	300	200	1200	600	800	300	600	600	900	1000(4.0)	1100(4.5)		
2112	17191	800	200	500	400	200	300	200	1200	600	800	300	600	600	900	1100(4.5)	1200(5.0)		
1515	15362	800	200	500	400	200	300	200	1200	600	800	300	600	600	900	1700(4.5)	1800(5.0)		
1815	18962	800	200	500	400	200	300	200	1200	600	800	300	600	600	900	1200(5.0)	2000(5.6)		
2115	22563	800	200	500	400	200	300	200	1200	600	800	300	600	600	900	1200(5.0)	1300(5.6)		
2415	26163	800	200	500	400	200	300	200	1200	600	800	300	600	600	900	1300(5.6)	1500(6.3)		
1919	24963	800	200	500	400	200	300	200	1200	600	800	300	600	600	900	1300(5.6)	2300(6.3)		
2119	27935	800	200	500	400	200	300	200	1200	600	800	300	600	600	900	2300(6.3)	2400(7.1)		
2419	32393	800	200	500	400	200	300	200	1200	600	800	300	600	600	900	1500(6.3)	1700(7.1)		
2719	36850	800	200	500	400	200	300	200	1200	600	800	300	600	600	900	1700(7.1)	1800(8.0)		
2222	35079	1000	200	500	400	200	300	200	1500	600	800	300	600	600	900	2400(7.1)	2600(8.0)		
2422	38622	1000	200	500	400	200	300	200	1500	600	800	300	600	600	900	1700(7.1)	2600(8.0)		
2722	43937	1000	200	500	400	200	300	200	1500	600	800	300	600	600	900	1800(8.0)	2100(9.0)		
3022	49252	1000	200	500	400	200	300	200	1500	600	800	300	600	600	900	1800(8.0)	2100(9.0)		
2525	45606	1000	200	500	400	200	300	200	1500	600	800	300	600	600	900	1800(8.0)	2800(9.0)		
2725	49606	1000	200	500	400	200	300	200	1500	600	800	300	600	600	900	1800(8.0)	2100(8.0)		
3025	55607	1000	200	500	400	200	300	200	1500	600	800	300	600	600	900	2100(9.0)	2200(10.0)		
3325	67768	1000	200	500	400	200	300	200	1500	600	800	300	600	600	900	2100(9.0)	2200(10.0)		
3625	74369	1200	200	500	400	200	300	200	1500	600	800	300	600	600	900	2100(9.0)	2200(10.0)		
3628	87118	1200	200	500	400	200	300	200	1500	600	800	300	600	600	900	2600(8.0*2)			
3928	94851	1200	200	500	400	200	300	200	1500	600	800	300	600	600	900	2600(8.0*2)			
4530	113006	1200	200	500	400	200	300	200	1500	1000	1200	600	600	600	900	2600(8.0*2)			
4830	120927	1200	200	500	400	200	300	200	1500	1000	1200	600	600	600	900	2800(9.0*2)			
4533	126459	1200	200	500	400	200	300	200	1800	1000	1200	600	600	600	900	2800(9.0*2)			
4833	135323	1200	200	500	400	200	300	200	1800	1000	1200	600	600	600	900	3000(10.0*2)			
4536	142603	1200	200	500	400	200	300	200	1800	1000	1200	600	600	600	900	3000(10.0*2)			
4836	152599	1200	200	500	400	200	300	200	1800	1000	1200	600	600	600	900	3000(10.0*2)			
5136	162594	1200	200	500	400	200	300	200	1800	1000	1200	600	600	600	900	2800(9.0*3)			
5436	172590	1200	200	500	400	200	300	200	1800	1000	1200	600	600	600	900	2800(9.0*3)			
5736	182585	1200	200	500	400	200	300	200	1800	1000	1200	600	600	600	900	2800(9.0*3)			
6036	192581	1200	200	500	400	200	300	200	1800	1000	1200	600	600	600	900	2800(9.0*3)			
6636	208000	1200	200	500	400	200	300	200	1800	1000	1200	600	600	600	900	3000(10.0*3)			

Note:

1. Mixing section and supply air section is of standard dimension. The position and dimension of the damper can be considered based on the situation;
2. The length of the humidifier section can be adjusted based on the requirement condition and method;
3. Wet membrane humidifier is installed behind the cooling coil without individual section, if it is installed in individual section, it requires 6 modules ;
4. In front of the filter section, cooling section, heating section, silencer section an empty section is required for maintenance and servicing purpose;
5. The data above is just for reference, it may vary based on the actual case design;
6. Any special request for the functional sections, please contact Kingair.

For heat recovery model, the dehumidifier section length based on the actual condition to determine;
for selection, Active carbon section: 900*

Function Section Weight And Length (Empty Casing)

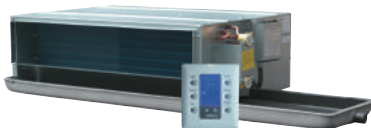
Model KZE/KZS/KZW	Empty Cabiner's Section Weight (kg)														
	Pannel Thickness 25mm					Pannel Thickness 35mm					Pannel Thickness 50mm				
	End Pannel	300	600	900	1200	End Pannel	300	600	900	1200	End Pannel	300	600	900	1200
0606	4	25	38	52	72	5	27	40	55	76	6	32	47	62	86
0906	6	31	49	66	84	7	31	50	68	87	8	34	55	76	97
1206	8	33	53	72	91	9	34	54	74	94	10	37	60	83	106
0909	9	38	58	77	96	10	39	59	79	99	10	42	65	88	111
1209	12	40	62	83	104	13	41	63	85	107	13	45	70	96	121
1509	14	43	66	88	111	15	44	67	91	115	16	48	75	103	131
1212	15	48	71	93	116	16	49	72	96	120	17	53	81	108	136
1512	18	50	75	99	123	19	51	76	102	128	20	56	86	116	146
1812	21	52	78	105	131	23	53	81	108	136	24	59	91	123	156
2112	25	55	82	110	138	26	56	85	114	144	27	61	96	131	166
1515	23	57	84	110	136	23	58	86	113	141	24	64	96	128	161
1815	27	60	88	115	143	27	61	90	119	149	29	67	101	136	171
2115	31	62	91	121	151	32	63	94	125	156	33	69	106	143	180
2415	35	64	95	127	158	36	66	98	131	164	37	72	112	151	190
1919	35	70	101	132	162	36	72	104	136	168	37	78	117	155	194
2119	38	72	103	135	167	39	73	106	140	174	40	80	120	160	200
2419	43	74	107	141	174	44	76	111	146	181	45	83	125	168	210
2719	50	76	111	147	182	49	78	115	152	189	51	86	131	175	220
2222	47	80	114	148	182	46	81	117	153	189	48	89	132	175	218
2422	51	81	116	152	187	50	83	120	157	194	52	91	136	180	225
2722	57	84	120	157	194	56	85	124	163	202	58	94	141	188	235
3022	63	86	124	163	201	62	88	128	168	210	63	97	146	195	245
2525	59	89	127	164	202	59	91	130	170	210	60	100	148	195	243
2725	65	91	129	168	206	63	93	133	174	215	65	102	151	200	250
3025	72	93	133	174	214	69	95	137	180	223	71	105	156	208	259
3325	79	95	137	179	221	76	98	142	185	231	78	108	161	215	269
3625	86	98	141	185	228	82	100	146	191	239	84	110	167	223	279
3628	95	105	150	196	241	91	107	155	202	251	94	118	177	235	294
3928	104	107	154	201	248	99	110	159	208	259	101	121	182	243	304
4530	122	117	168	220	271	120	120	174	228	283	123	132	199	266	333
4830	135	119	172	225	278	128	122	178	234	291	131	135	205	274	343
4533	133	124	177	230	283	132	127	183	239	296	134	140	210	279	348
4833	147	126	181	236	291	140	129	187	245	304	143	143	215	286	358
4536	144	131	186	241	296	143	134	192	250	309	146	148	220	292	363
4836	159	134	190	247	303	152	137	196	256	317	155	151	225	299	373
5136	171	136	194	252	310	161	139	200	262	325	164	154	230	307	383
5436	181	138	198	258	318	170	142	205	268	333	173	157	236	314	393
5736	191	141	202	264	325	179	144	209	274	340	182	160	241	322	402
6036	200	143	206	269	332	188	146	213	280	348	191	163	246	329	412
6636	220	158	227	296	365	207	161	234	308	383	210	180	271	362	453

Note:
 1. Cooling section weight = cooling section casing modules weight + cooling coil rows weight;
 2. Fan section weight = fan section casing modules weight + fan blower weight + fan motor weight + tranmission parts weight + fan blower /motor support base weight;
 3. Unit's weight = total section weight 1. and 2 + end panel weight.

Function Section Weight (Components)

Model KZE KZS KZW	Weight kg																						
	Mixing Box	Plate Filter	Bag Filter	Electric Cleaner	Photocatalyst Cleaner	Water Screen	Slender	Membrane Humidifier (Dry Condition)				Standard 1/2" coil (no water)											
								Thickness 50 mm	Thickness 100 mm	Thickness 150 mm	Thickness 200 mm	1 Row	2 Rows	3 Rows	4 Rows	5 Rows	6 Rows	8 Rows	10 Rows	12 Rows			
0606	12	4	2.5	15	4	4	15	6	8	9	11	12	15	18	20	22	25	29	33	40			
0906	15	5	3	23	5	5	20	8	10	11	13	15	18	20	22	25	28	34	39	45			
1206	22	6	4	38	6	7	26	9	11	13	16	16	20	23	26	30	33	41	48	56			
0909	15	7	4	38	7	7	30	9	11	13	15	24	29	32	36	40	45	54	63	72			
1209	22	9	6	46	9	10	40	10	13	15	18	25	32	37	41	47	53	65	77	89			
1509	29	11	7	61	11	13	50	11	14	18	21	27	35	41	47	54	62	76	91	106			
1212	22	12	8	69	12	15	53	11	14	18	22	37	46	53	60	69	77	94	111	129			
1512	29	15	10	84	15	20	66	12	16	21	25	39	50	59	68	79	89	111	132	153			
1812	51	18	12	107	18	24	79	13	18	23	28	41	55	65	76	89	102	127	153	178			
2112	61	21	14	115	21	29	92	14	20	26	31	43	59	72	85	99	114	144	173	203			
1515	42	19	12	107	19	26	83	13	18	24	29	51	66	78	89	103	117	145	173	201			
1815	51	23	15	130	23	32	99	14	20	27	33	53	71	86	100	117	134	167	200	233			
2115	61	26	17	168	26	38	116	16	23	29	36	56	77	94	111	130	150	188	227	266			
2415	70	30	19	184	30	44	132	17	25	32	40	59	82	102	122	144	166	210	254	298			
1919	54	30	19	183	30	42	132	16	24	31	38	68	91	110	129	151	173	216	260	303			
2119	61	34	21	199	34	47	146	17	25	33	41	70	96	117	138	162	186	234	282	330			
2419	70	38	25	222	38	54	167	18	27	36	45	73	102	127	151	179	206	261	316	370			
2719	80	43	28	253	43	61	188	20	30	40	50	77	109	137	165	195	226	288	349	410			
2222	84	41	26	252	41	58	177	19	29	38	48	84	117	143	170	200	220	290	349	409			
2422	92	44	28	268	44	64	194	20	30	41	51	87	122	151	180	213	246	311	376	441			
2722	105	50	32	321	50	73	218	22	33	44	55	91	130	163	196	233	269	343	416	489			
3022	118	55	35	337	55	82	242	23	35	48	60	95	138	175	212	253	293	375	456	537			
2525	97	52	34	336	52	76	229	22	33	45	57	100	141	175	210	248	287	363	440	517			
2725	105	57	36	337	57	83	248	23	35	48	60	103	147	184	222	263	305	387	470	553			
3025	118	63	40	390	63	93	275	24	38	52	65	108	156	198	240	286	332	423	515	607			
3325	130	69	44	414	69	103	303	26	41	55	70	112	165	211	258	308	359	459	560	661			
3625	177	76	48	460	76	113	330	27	43	59	75	117	174	225	276	331	385	495	605	714			
3628	177	85	54	544	85	132	370	30	48	66	84	136	203	263	323	387	451	579	708	836			
3928	192	92	59	597	92	144	400	32	51	70	90	141	214	279	344	413	482	621	760	899			
4530	224	113	73	705	113	171	495	36	58	80	103	156	241	319	396	478	560	724	888	1052			
4830	239	121	77	751	121	183	528	37	61	85	108	162	252	335	418	505	592	767	942	1117			
4533	224	125	80	782	125	192	545	38	62	87	111	175	270	356	443	535	626	810	993	1177			
4833	239	133	85	828	133	205	581	40	66	92	118	181	282	374	467	565	663	858	1054	1249			
4536	224	136	87	874	136	192	594	38	62	87	111	176	272	358	445	537	629	813	996	1180			
4836	239	145	93	943	145	218	634	41	69	96	123	193	301	399	498	602	706	914	1122	1330			
5136	255	154	99	1011	154	232	673	43	72	101	130	199	313	418	523	634	744	965	1186	1407			
5436	270	163	104	1058	163	247	713	45	75	106	136	206	326	438	549	666	783	1017	1251	1485			
5736	286	172	110	1127	172	261	752	47	79	111	143	212	339	457	575	698	821	1068	1315	1562			
6036	302	181	116	1188	181	275	792	49	82	116	149	219	352	476	600	730	860	1120	1379	1639			
6636	332	199	128	1307	199	303	871	54	90	128	164	241	387	524	660	803	946	1232	1517	1807			

BLDC Fan Coil Unit



- Energy Saving: control the air volume stepless in the range of 15%~100% through PMW
- Comfortable: temperature difference is adjusted by PID caculating, the control accuracy is more than 0.5 .
- Low noise: brushless structure, no magnetic noise, quiet operation.

KCR 200 C - 3 R B F - W A - E

E- Export Sales; Omitted- Domestic Sales
A- Standard Drain Pan; L- Extended Drain Pan; S- SS Drain Pan; F- Extended SS Drain Pan W-Brushless DC Motor
F- With Filter; Omitted- Without Filter
B-Back Air Return; D- Bottom Air Return; Omitted- No Plenum
Hand of Coil Connection: L- Left(Facing Air Outlet); R- Right
3- 30Pa (E.S.P. 30Pa); 5- 50Pa (E.S.P. 50Pa) Omitted- Standard Type
C-Design Version
C- 3 Rows and 2 Pipes; T- 2 Rows and 2 Pipes;
Specification Code
KCR-Kingair Horizontal Concealed FCU

Performance Data (3 Rows)

Item		Model	3 Rows									
Air Flow	High Speed	m³/h	KCR-200CC	KCR-300CC	KCR-400CC	KCR-500CC	KCR-600CC	KCR-800CC	KCR-1000CC	KCR-1200CC	KCR-1400CC	
	Total Cooling Capacity	W	340	510	680	850	1020	1360	1700	2040	2380	
Operation Performance	Sensible Cooling Capacity	W	2150	3260	3800	4700	5800	7200	9480	11100	12950	
	Heating Capacity	W	1450	2270	2910	3560	4230	5340	6860	8370	9530	
	Water Flow Rate	m³/h	3.500	5000	6680	8030	9390	13000	15920	19000	20520	
	Water pressure drop	kPa	0.37	0.56	0.65	0.81	1.00	1.24	1.63	1.90	2.23	
Fan	Type	Double In Forward - Curve Centrifugal Fan										
	Qty	1	2							4		
Motor	Type	Brushless Direct Current Motor										
	Qty	1										
	Power Supply	AC 1N-220V-50Hz										
	Standard	23	30	42	51	62	87	124	152	180		
	30Pa ESP	29	36	51	65	75	107	131	177	206		
Input Power W	50Pa ESP	34	45	56	72	88	136	157	211	-		
	Lowest Speed	8	10	11	13	19	20	22	23	25		
Coil	Type	Cooper Tube/ Aluminium Split Fin										
	Rows	3										
Pipe Connect	Face Area	m²	0.089	0.114	0.136	0.152	0.175	0.230	0.268	0.293	0.366	
	Operation Pressure	1.6MPa										
N.W	Water Inlet						3/4" FPT Thread (DN20)					
	Water Outlet						3/4" FPT Thread (DN20)					
N.W	Water Drainage						3/4" FPT Thread (DN20)					
	Without Plenum	kg	10	12.5	13.5	15	16	23.5	26	30	37	
N.W	With Plenum	kg	12.3	15	16.3	18	19.5	27.5	30.2	35.5	44.5	

Performance Data (2 Rows)

Item		Model	2 Rows									
Air Flow	High Speed	m3/h	KCR-200TC	KCR-300TC	KCR-400TC	KCR-500TC	KCR-600TC	KCR-800TC	KCR-1000TC	KCR-1200TC	KCR-1400TC	
	Cooling Capacity	W	360	540	720	880	1030	1500	1780	2170	2500	
	Heating Capacity	W	1950	2830	3600	4350	5400	7200	8490	10100	11600	
	Water Flow Rate	m3/h	3.480	4700	6240	7750	9100	12510	14970	18000	19000	
	Water Pressure Drop	kPa	0.34	0.49	0.62	0.75	0.93	1.24	1.46	1.79	2.00	
Question Performance	Water Pressure Drop	kPa	8	17	26	37	62	30	36	47	65	
	Type	Double In Forward - Curve Centrifugal Fan										
Fan	Qty	1	2								4	
	Type	Brushless Direct Current Motor										
Motor	Qty	1					2					
	Power Supply	AC 1N-220V-50Hz										
	Standard	24	30	42	54	59	82	95	152	171		
	30Pa ESP	28	37	50	60	71	101	119	177	198		
	50Pa ESP	34	44	58	72	84	120	140	195	-		
Coil	Lowest Speed	7	10	10	12	20	21	22	24			
	Type	Cooper Tube/ Aluminium Split Fin										
Coil	Qty	2										
	Face Area	m ²	0.089	0.114	0.136	0.152	0.175	0.268	0.293	0.325	0.366	
Pipe Connect	Operation Pressure	1.6MPa										
	Water Inlet	3/4" FPT Thread (DN20)										
	Water Outlet	3/4" FPT Thread (DN20)										
	Water Drainage	3/4" MPT Thread (DN20)										
	Without Plenum	kg	9.5	11	15	16	17.5	24	26.5	30	32.5	
N.W	With Plenum	kg	11.8	13.5	17.8	18	21	28	31.3	36.5	40	

Fan Coil Unit



- Excellent heat transfer capability produced using high quality copper tubes with aluminium hydrophilic fins which are pressure bonded to the tubes through 12.5 MPa hydraulic expansions to ensure fully surface contact occurrence
- Use ABS blower which is statically and dynamically balanced, no leakage
- Motor use ball bearing, low noise.
- Hydranically expanding make it more equal to be expanded and no leakage.
- One step made drain pan, PE thermal insulation outside.
- Small size, the thickness is only 230mm, can change the left and right connection freely at site, easy installation and maintenance.

KCR 200 C - 3 R B F - A A

A- Standard Drain Pan; L- Extended Drain Pan; S- SS Drain Pan; F- Extended SS Drain Pan
A-220V/1PH/50Hz
F- With Filter; Omitted- Without Filter
B-Back Air Return; D- Bottom Air Return; Omitted- No Plenum
Hand of Coil Connection: L- Left(Facing Air Outlet); R- Right
3- 30Pa (E.S.P. 30Pa); 5- 50Pa (E.S.P. 50Pa) Omitted- Standard Type
C-Design Version
C- 3 Rows and 2 Pipes; T- 2 Rows and 2 Pipes;
Specification Code
KCR-Kingair Horizontal Concealed FCU
KC- Kingair Horizontal Exposed FCU
KFR- Kingair Floor Concealed FCU
KF- Kingair Floor Exposed FCU
KLR- Kingair High Air Volume FCU

Performance Data (2 Rows)

Model Item			2 Rows									
			KCR-200TC	KCR-300TC	KCR-400TC	KCR-500TC	KCR-600TC	KCR-800TC	KCR-1000TC	KCR-1200TC	KCR-1400TC	
Air Flow	High Speed	m³/h	360	540	720	880	1030	1500	1780	2170	2500	
	Medium Speed	m³/h	285	430	570	660	820	1150	1380	1620	1950	
	Low Speed	m³/h	210	310	420	510	590	870	1000	1250	1450	
Operation Performance	Cooling Capacity	W	1950	2830	3600	4350	5400	7200	8490	10400	11600	
	Heating capacity	W	3480	4700	6460	7750	9100	13580	15800	18000	19000	
	Water Flow Rate	m³/h	0.34	0.49	0.62	0.75	0.93	1.24	1.46	1.79	2.00	
	Water Pressure Drop	KPa	8	17	26	37	62	30	36	47	65	
Air Flow Adjustment			Switch Control With 3 Different Air Flow									
Fan	Type	Double Inlet Forward - curve Centrifugal Fan										
	Qty	1	2					4				
Motor	Type	3 Speed Single - Phase Asynchronous Motor										
	Qty	1							2			
	Power Supply	AC 1N-220V-50Hz										
	Input Power W	Standard	37	52	62	76	96	134	152	189	228	
		30Pa ESP	44	59	72	87	108	156	174	208	253	
50Pa ESP		49	66	84	100	118	174	210	250	300		
Coil	Type	Copper Tube/Hydrophilic Aluminium Split Fin										
	Rows	2										
	Working Pressure	1.6MPa										
	Faced Area	m²	0.089	0.114	0.136	0.152	0.175	0.268	0.293	0.325	0.366	
Piping	Water Inlet/ Outlet	3/4" FPT thread (DN20)										
	Water Drainage	3/4" MPT thread (DN20)										
NW	No Plenum	kg	9.5	11	15	16	17.5	24	26.5	30	32.5	
	With Plenum	kg	11.8	13.5	17.8	19	21	28	31.3	36.5	40	

- Note:
1. Cooling capacities are based on coil air temperature 27°C DB/19.5°C WB, entering water temperature 7°C, temperature difference 5°C.
 2. Heating capacities are based on coil temperature 21°C DB, entering water temperature 60°C, air and water flow rate same as in cooling mode.
 3. MPT—Male pipe thread; FPT—female pipe thread.
 4. There will be no notice on charges of the above specification.

Performance Data (3 Rows)

Model			3 Rows									
Item			KCR-200CC	KCR-300CC	KCR-400CC	KCR-500CC	KCR-600CC	KCR-800CC	KCR-1000CC	KCR-1200CC	KCR-1400CC	
Air Flow	High Speed	m³/h	340	510	680	850	1020	1360	1700	2040	2380	
	Medium Speed	m³/h	270	410	540	670	810	1080	1360	1630	1900	
	Low Speed	m³/h	200	310	400	510	610	810	1000	1220	1430	
Operation Performance	Cooling Capacity	W	2150	3260	3800	4700	5800	7200	9480	11100	12950	
	Heating capacity	W	3500	5000	6680	8030	9390	13000	15920	19000	20520	
	Water Flow Rate	m³/h	0.37	0.56	0.65	0.81	1.00	1.24	1.63	1.90	2.23	
	Water Pressure Drop	KPa	12	23	16	24	30	25	19	30	40	
Air Flow Adjustment			Switch Control With 3 Different Air Flow									
Fan	Type	Double Inlet Forward - curve Centrifugal Fan										
	Qty		1	2						4		
	Type	3 Speed Single - Phase Asynchronous Motor										
Motor	Qty		1						2			
	Power Supply	AC 1N-220V-50Hz										
	Input Power W	Standard	37	52	62	76	96	134	152	189	228	
		30Pa ESP	44	59	72	87	108	156	174	212	253	
		50Pa ESP	49	66	84	100	118	174	210	250	300	
Coil	Type	Copper Tube/Hydrophilic Aluminium Split Fin										
	Rows	3										
	Working Pressure	1.6MPa										
	Faced Area	m²	0.089	0.114	0.136	0.152	0.175	0.230	0.268	0.293	0.366	
Piping	Water Inlet/ Outlet	3/4" FPT thread (DN20)										
	Water Drainage	3/4" MPT thread (DN20)										
N.W	No Plenum	kg	10	12.5	13.5	15	16	23.5	26	30	37	
	With Plenum	kg	12.3	15	16.3	18	19.5	27.5	30.2	35.5	44.5	

Note:

- Cooling capacities are based on coil air temperature 27°C DB/19.5°C WB, entering water temperature 7°C, temperature difference 5°C.
- Heating capacities are based on coil temperature 21°C DB, entering water temperature 60°C, air and water flow rate same as in cooling mode.
- MPT—Male pipe thread; FPT—female pipe thread.
- KFR none 1400 type, performance parameters are the same as KCR series.
- There will be no notice on charges of the above specification.

Performance Data (4 Rows)

Model			4 Rows							
Item			KCR-200HC	KCR-300HC	KCR-400HC	KCR-500HC	KCR-600HC	KCR-800HC	KCR-1000HC	KCR-1200HC
Air Flow	High Speed	m³/h	340	510	680	850	1020	1360	1700	2040
	Medium Speed	m³/h	270	410	540	670	810	1080	1360	1630
Operation Performance	Low Speed	m³/h	200	310	400	510	610	810	1000	1220
	Cooling Capacity	W	2150	3260	3800	4700	5800	7200	9480	11100
	Heating capacity	W	1880	2750	3570	4250	5410	6450	8620	10500
	Cooling Water Flow	m³/h	0.37	0.56	0.65	0.81	1.00	1.24	1.63	1.90
	Hot Water Flow	m³/h	0.16	0.24	0.31	0.37	0.47	0.55	0.74	0.90
	Cooling Water Pressure Drop	KPa	12	23	16	24	30	25	19	30
	Hot Water Pressure Drop	KPa	8	11	21	28	52	18	33	38
Air Flow Adjustment			Switch Control With 3 Different Air Flow							
Fan	Type		Double Inlet Forward - curve Centrifugal Fan							
	Qty		1	2					4	
Motor	Type		3 Speed Single - Phase Asynchronous Motor							
	Qty		1						2	
	Power Supply		AC1 φ-220V-50Hz							
	Input Power	Standard 30Pa ESP	44 49	59 66	72 84	87 100	108 118	156 174	174 210	212 250
Coil	Type		Copper Tube/ Hydrophilic Aluminium Split Fin							
	Rows		3 + 1							
	Working Pressure		1.6MPa							
Piping	Faced Area	m²	0.089	0.114	0.136	0.152	0.175	0.230	0.268	0.293
	Water Inlet/ Outlet		3/4" FPT thread (DN20) + 1/2" FPT (Hot water)							
N.W	Water Drainage		3/4" MPT thread (DN20)							
	No Plenum	kg	13.3	18.6	23.5	24.7	26.8	29.8	37.5	45.2
	With Plenum	kg	15.6	21.1	26.3	27.7	30.3	33.8	42.3	51.7

Note:

- Cooling capacities are based on coil air temperature 27°C DB/19.5°C WB, entering water temperature 7°C, temperature difference 5°C.
- Heating capacities are based on coil temperature 21°C DB, entering water temperature 60°C, air and water flow rate same as in cooling mode.
- MPT—Male pipe thread; FPT—female pipe thread.
- There will be no notice on charges of the above specification.

Large Air Flow High Static Pressure FCU Performance Parameter

Model			KLR-800	KLR-1000	KLR-1200	KLR-1400	KLR-1600	KLR-1800	KLR-2000	KLR-2400
Item										
Air flow	High speed	m³/h	1360	1700	2040	2380	2720	3060	3400	4080
	Medium speed	m³/h	1090	1360	1635	1900	2180	2450	2720	3260
	Low speed	m³/h	815	1020	1225	1430	1630	1830	2040	2450
Operation Performance	Cooling Capacity	kW	7.8	10.2	11.2	13.8	15.5	17.8	18.5	22.5
	Heating Capacity	kW	13.8	16.83	19.42	22.91	25.27	27.82	30.11	37.02
	Water flow rate	m³/h	1.34	1.75	1.93	2.37	2.67	3.06	3.18	3.87
	Water pressure drop	kPa	52.0	41.1	51.9	28.5	33.6	52.1	59.1	68.5
Air flow adjustment			Switch control with 3 different air flow							
Fan	Type	Double inlet forward - curve centrifugal fan								
	Qty	1				2				
Motor	Type	3 speeds permanent split capacity motor								
	Qty	1								
	Power supply	AC 1 Φ 22V-50Hz								
	Input water W	50Pa	280	380	480	615	680	775	900	1000
		120Pa	380	480	500	680	775	900	1000	1100
Coil	Type	Copper tube/ hydrophilicaluminium split fin								
	Working pressure	1.6MPa								
	Faced area	m²	0.256	0.285		0.334		0.402		0.494
Piping	Water inlet	3/4" FPT								
	Water Outlet	3/4" FPT								
	Water drainage	3/4" MPT								
Outline dimension		mm	970×750×420		1030×750×420		1190×750×420		1380×750×420	
N.W		kg	55		58		63		69	
									98	

Note:

- Cooling capacities are based on coil air temperature 27°C DB/19.5°C WB, entering water temperature 7°C, temperature difference 5°C.
- Heating capacities are based on coil temperature 21°C DB, entering water temperature 60°C, air and water flow rate same as in cooling mode.
- The unit is equipped with a return air box and filter.
- MPT—Male pipe thread; FPT—Female pipe thread.

KCKW Cassete Type FCU

Item		Model KCKW	200CP (H)	300CP (H)	400CP (H)	500CP (H)	600CP (H)	800CP (H)	1000CP (H)	1200CP (H)	1400CP (H)
Air Volume	High	m³/h	340	510	680	850	1020	1360	1700	2040	2380
	Medium	m³/h	255	380	510	635	765	1020	1275	1530	1785
	Low	m³/h	170	255	340	425	510	680	850	1020	1190
Cooling Capacity	High	kW	2.12	3.09	3.94	5	5.87	7.32	9.59	11.46	13.04
	Medium	kW	1.7	2.6	3.2	4.1	4.9	6.2	8	9.6	11
	Low	kW	1.3	1.9	2.4	3.1	3.6	4.7	6.1	7.2	8.3
Heating Capacity	High	kW	3.37	4.81	6.21	7.66	9.62	12.42	15.47	17.43	20.16
	Medium	kW	2.7	3.8	5	6.1	7.6	9.9	12.3	14	16.2
	Low	kW	1.9	2.7	3.6	4.4	5.5	7.1	8.9	10.1	11.7
Fan	Type	Type	Vortex centrifugal								
	Qty	St	1	1	1	1	1	1	1	1	1
Motor	Type	Type	3 speeds single - phase asynchronous motor								
	Qty	St	1	1	1	1	1	1	1	1	1
	Power supply		1φ-220V-50Hz								
	Insulation class	Class	B								
	Input power	W	35	49	58	72	94	130	149	183	220
Coil	Rated current	A	0.16	0.22	0.26	0.33	0.43	0.59	0.68	0.83	1
	Type	Type	Integral "C" shape, copper tube / hydrophilic shutter aluminium fin								
	Working Pressure	MPa	1.6								
Piping	Water flow	m³/h	0.366	0.534	0.678	0.858	1.008	1.26	1.65	1.974	2.244
	Water pressure drop	kPa	16.2	20.8	28.2	21.5	25.4	35.9	33.6	40	47.2
	Water inlet	Inch	FPT 3/4"								
Size	Water outlet	Inch	FPT 3/4"								
	Water drainage	mm	Φ 26								
	Cabinet	mm	580×580×275			752×752×290			952×952×290		
Noise	Panel	mm	650×650×28.5			850×850×28.5			1050×1050×28.5		
	dB(A)		35	39	41	40	45	45	46	50	52
Net weight		kg	21.5	21.5	21.5	30.5	32	41	41	41	41

Ceiling Type Air Handling Unit



- Unit assembly applies direct structure assemble, panel side frame use our patent design alloy aluminum frame structure and the internal of the panel comprise of high density of injected rigid polyurethane foam that ensure the strength of the unit. The joint connection between the two pannels uses bolt nut fastener to provide effective air tight and thermal insulation solution.
- Unit panel uses high strength color bonded steel as its external skin with anticorrosive properties and it is covered with a protection plastic layer to prevent any scratches during assemble and transportation. After the panel is constructed, the corner becomes an arc structure thus providing an aesthetic outlook.
- All panel board are connected by bolts and nuts, easy to installation.
- Coils are manufactured from imported seamless copper tube with pure aluminum fin.

KDC 010 E F - 25 L 4

- Coil Rows
- Hand Of Coil Connection (L-Left R-Right)
- External Pressure (x10 Unit: Pa)
- Supply Air Type (Omitted- Return Air; F- Fresh Air; G- Dry Type; S- Jet Flow; X- Sensible heat fresh air ventilator; J- Total Heat Fresh Air Ventilator)
- Design Version
- Specification Code (Codex100 = Air Flow m³/h)
- Kingair Air Handling Unit
- KDC- Ceiling Type

Cooling Performance Data--4R (Return Air)

Model	Air Flow	Rated Cooling Capacity	Rated Heating Capacity	Water Flow Rate	Water Resistance	E.P			Motor Power			Unit weight
						KDC	I	II	III	I	II	III
KDC	m ³ /h	kW	kW	m ³ /h	kPa	Pa	Pa	Pa	kW	kW	kW	kg
010	1000	5.9	9.9	1.01	12.2	120	180	250	0.37	0.37	0.37	73
015	1500	8.6	13.6	1.48	20.6	120	180	250	0.37	0.37	0.37	80
020	2000	13.3	22.1	2.29	24.9	120	180	250	0.55	0.55	0.55	95
025	2500	15.9	23.7	2.73	42.0	120	180	250	0.55	0.55	0.55	100
030	3000	16.6	28.1	2.85	52.7	120	180	250	0.55	0.55	0.55	115
040	4000	22.4	37.5	3.85	9.9	150	200	300	0.75	0.75	1.1	125
050	5000	30.0	47.9	5.16	18.3	150	200	300	1.1	1.1	1.5	155
060	6000	35.5	58.1	6.10	30.3	150	200	300	1.1	1.1	1.5	167
070	7000	42.0	67.6	7.22	34.5	180	250	350	1.5	1.5	2.2	191
080	8000	48.7	76.9	8.37	38.6	180	250	350	1.5	2.2	2.2	260
090	9000	49.3	89.4	8.48	41.9	200	300	400	1.5	2.2	2.2	295
105	10500	59.3	104	10.20	65.3	200	300	400	2.2	2.2	3	315
120	12000	69.3	122.5	11.92	78.6	200	300	400	3	3	3	325
135	13500	82.7	144.9	14.22	52.9	300	400	500	3	3	4	383
150	15000	89.7	161.7	15.43	51.6	300	400	500	3	4	4	387
180	18000	115.5	202.6	19.86	30.7	300	400	500	4	4	5.5	446

Note:
 1. Cooling mode: Water inlet/outlet 7°C/12°C, air intake temp 27°C DB/19.5°C WB.
 2. Heating mode: water intake temp 60°C, air intake temp 21°C.
 3. Above data is just for reference. Any changes will lead to different capacity, please contact Kingair for detail.
 4. The ESP and motor power are standard type. If there is any change please contact Kingair (motor power is for input power).
 5. All specification are subject to change by the manufacture without prior notice.

Cooling Performance Data--6R (Return Air)

Model	Air Flow	Rated Cooling Capacity	Rated Heating Capacity	Water Flow Rate	Water resistance	E.P			Motor Power			Unit weight
						KDC	I	II	III	I	II	III
KDC	m ³ /h	kW	kW	m ³ /h	kPa	Pa	Pa	Pa	kW	kW	kW	kg
010	1000	8.2	12.4	1.41	27.3	120	180	250	0.37	0.37	0.37	80
015	1500	10.5	16.0	1.81	49.6	120	180	250	0.37	0.37	0.55	86
020	2000	15.1	23.0	2.60	57.5	120	180	250	0.55	0.55	0.55	105
025	2500	18.1	29.8	3.11	79	120	180	250	0.55	0.55	0.55	110
030	3000	21.6	34.7	3.71	15.5	120	180	250	0.55	0.55	0.75	146
040	4000	28.7	46.5	4.94	24.9	150	200	300	0.75	0.75	1.1	155
050	5000	35.9	56.6	6.17	44.6	150	200	300	1.1	1.1	1.5	185
060	6000	42.8	65.9	7.36	72.5	150	200	300	1.1	1.5	1.5	208
070	7000	49.4	77.2	8.50	82.5	180	250	350	1.5	1.5	2.2	251
080	8000	57.9	87.5	9.96	27.6	180	250	350	2.2	2.2	2.2	300
090	9000	64.6	101.7	11.11	29.9	200	300	400	2.2	2.2	3	330
105	10500	78.3	124.7	13.47	46.2	200	300	400	2.2	3	3	345
120	12000	88.5	141.1	15.22	55.3	200	300	400	3	3	4	351
135	13500	98.5	160.9	16.94	37.53	300	400	500	3	4	4	413
150	15000	107.7	176.7	18.52	36.58	300	400	500	4	4	5.5	429
180	18000	126.4	207.5	21.74	73.1	300	400	500	4	5.5	7.5	499

Note:
 1. Cooling mode: Water inlet/outlet 7°C/12°C, air intake temp 27°C DB/19.5°C WB.
 2. Heating mode: water intake temp 60°C, air intake temp 21°C.
 3. Above data is just for reference. Any changes will lead to different capacity, please contact Kingair for detail.
 4. The ESP and motor power are standard type. If there is any change please contact Kingair (motor power is for input power).
 5. All specification are subject to change by the manufacture without prior notice.

Cooling Performance Data--8R (Return Air)

Model	Air Flow	Rated Cooling Capacity	Rated Heating Capacity	Water Flow Rate	Water resistance	E.P			Motor Power			Unit weight
						KDC	I	II	III	I	II	III
KDC	m ³ /h	kW	kW	m ³ /h	kPa	Pa	Pa	Pa	kW	kW	kW	kg
030	3000	25.6	38.7	4.40	26.0	120	180	250	0.55	0.75	0.75	175
040	4000	33.9	51.4	5.83	41.0	150	200	300	0.75	1.1	1.1	185
050	5000	41.4	62.1	7.12	30.0	150	200	300	1.1	1.5	1.5	225
060	6000	49.4	76.3	8.50	35.9	150	200	300	1.5	1.5	2.2	237
070	7000	57.7	87.4	9.92	40.7	180	250	350	1.5	2.2	2.2	293
080	8000	65.4	101.0	11.25	45.3	180	250	350	2.2	2.2	3	335
090	9000	73.9	121.4	12.71	62.0	200	300	400	2.2	2.2	3	365
105	10500	86.6	142.2	14.89	41.4	200	300	400	2.2	3	3	375
120	12000	99	162.5	17.02	38.7	200	300	400	3	3	4	393
135	13500	112.8	183.6	19.40	61.37	300	400	500	4	4	5.5	425
150	15000	123.6	201.2	21.26	59.50	300	400	500	4	4	5.5	441
180	18000	146.1	237.5	25.12	35.9	300	400	500	4	5.5	7.5	511

Note:
 1. Cooling mode: Water inlet/outlet 7°C/12°C, air intake temp 27°C DB/19.5°C WB.
 2. Heating mode: water intake temp 60°C, air intake temp 21°C.
 3. Above data is just for reference. Any changes will lead to different capacity, please contact Kingair for detail.
 4. The ESP and motor power are standard type. If there is any change please contact Kingair (motor power is for input power).
 5. All specification are subject to change by the manufacture without prior notice.

Cooling Performance Data--4R (Fresh air)

Model KDC	Air Flow m³/h	Rated Cooling Capacity kW	Rated Heating Capacity kW	Water Flow Rate m³/h	Water resistance KPa	E.P			Motor Power			Unit weight kg
						I	II	III	I	II	III	
010	1000	16.4	18.9	2.82	41.6	120	180	250	0.37	0.37	0.37	73
015	1500	21.9	26.1	3.77	66.7	120	180	250	0.37	0.37	0.37	80
020	2000	28.8	31.6	4.95	10.8	120	180	250	0.55	0.55	0.55	95
025	2500	34.9	41.5	6.00	15.1	120	180	250	0.55	0.55	0.55	100
030	3000	41	49.2	7.05	22.8	120	180	250	0.55	0.55	0.55	115
040	4000	48.9	61.5	8.41	38.7	150	200	300	0.75	0.75	1.1	125
050	5000	64.5	76.7	11.09	22.8	150	200	300	1.1	1.1	1.5	155
060	6000	76.4	92.6	13.14	27	150	200	300	1.1	1.1	1.5	167
070	7000	90.1	106.9	15.49	26.2	180	250	350	1.5	1.5	2.2	191
080	8000	104.1	121.4	17.9	37.2	180	250	350	1.5	2.2	2.2	260
090	9000	116.9	140.2	20.10	50.6	200	300	400	1.5	2.2	2.2	295
105	10500	141.7	172	24.37	36.7	200	300	400	2.2	2.2	3	315
120	12000	158.4	199.7	27.24	39	200	300	400	3	3	3	325
135	13500	175.1	225.3	30.11	22.32	300	400	500	3	3	4	383
150	15000	185.8	239.1	31.95	22.97	300	400	500	3	4	4	387
180	18000	210.8	262.3	36.25	26.2	300	400	500	4	5.5	5.5	446

Note:
1. Cooling mode: Water inlet/outlet 7°C/12°C, air intake temp 35°C DB/28°C WB.
2. Heating mode: water intake temp 60°C, air intake temp 7°C.
3. Above data is just for reference. Any changes will lead to different capacity, please contact Kingair for detail.
4. The ESP and motor power are standard type, if there is any change please contact Kingair (motor power is for input power).
5. All specification are subject to change by the manufacture without prior notice.

Cooling Performance Data--6R (Fresh air)

Model KDC	Air Flow m³/h	Rated Cooling Capacity kW	Rated Heating Capacity kW	Water Flow Rate m³/h	Water resistance KPa	E.P			Motor Power			Unit weight kg
						I	II	III	I	II	III	
010	1000	19.1	22.3	3.28	9.8	120	180	250	0.37	0.37	0.37	80
015	1500	27.1	31.4	4.66	21.0	120	180	250	0.37	0.37	0.55	86
020	2000	35.7	41.6	6.14	23.4	120	180	250	0.55	0.55	0.55	105
025	2500	43.4	50.8	7.46	33.9	120	180	250	0.55	0.55	0.55	110
030	3000	50.2	58.9	8.63	51.3	120	180	250	0.55	0.55	0.75	146
040	4000	64.6	76.3	11.11	28.4	150	200	300	0.75	0.75	1.1	155
050	5000	79.9	92.0	13.74	55.9	150	200	300	1.1	1.1	1.5	185
060	6000	95.6	110.8	16.44	61.6	150	200	300	1.1	1.5	1.5	208
070	7000	110.8	129.8	19.05	59.3	180	250	350	1.5	1.5	2.2	251
080	8000	126.1	146.3	21.69	65.3	180	250	350	2.2	2.2	2.2	300
090	9000	134.8	168.5	23.18	82.3	200	300	400	2.2	2.2	3	330
105	10500	164.1	204.9	28.22	85.6	200	300	400	2.2	3	3	345
120	12000	186.3	232.8	32.04	92.7	200	300	400	3	3	4	351
135	13500	208.6	266.1	35.87	53.98	300	400	500	3	4	4	413
150	15000	225.3	287.3	38.74	56.01	300	400	500	4	4	5.5	429
180	18000	269.1	336.7	46.28	52.0	300	400	500	5.5	5.5	7.5	499

Note:
1. Cooling mode: Water inlet/outlet 7°C/12°C, air intake temp 35°C DB/28°C WB.
2. Heating mode: water intake temp 60°C, air intake temp 7°C.
3. Above data is just for reference. Any changes will lead to different capacity, please contact Kingair for detail.
4. The ESP and motor power are standard type, if there is any change please contact Kingair (motor power is for input power).
5. All specification are subject to change by the manufacture without prior notice.

Cooling Performance Data--8R (Fresh air)

Model KDC	Air Flow m³/h	Rated Cooling Capacity kW	Rated Heating Capacity kW	Water Flow Rate m³/h	Water resistance KPa	E.P			Motor Power			Unit weight kg
						I	II	III	I	II	III	
030	3000	55.1	63.9	9.48	26.0	120	180	250	0.55	0.75	0.75	175
040	4000	70.5	82.6	12.12	48.7	150	200	300	0.75	1.1	1.1	185
050	5000	86.1	100.2	14.81	40.5	150	200	300	1.1	1.5	1.5	225
060	6000	107.4	127.7	18.47	45.3	150	200	300	1.5	1.5	2.2	237
070	7000	120.5	139.5	20.72	43.5	180	250	350	1.5	2.2	2.2	293
080	8000	136.7	159.3	23.51	60.9	200	300	400	2.2	2.2	3	335
090	9000	153.6	191.8	26.41	69.5	200	300	400	2.2	2.2	3	365
105	10500	180.9	226.1	31.11	80.2	200	300	400	2.2	3	3	375
120	12000	205.2	256.5	35.29	85.4	200	300	400	3	3	4	393
135	13500	236.3	301.4	40.64	35.4	300	400	500	4	4	5.5	425
150	15000	249.3	318.0	42.87	36.8	300	400	500	4	4	5.5	441
180	18000	298.4	374.0	51.32	38.5	300	400	500	5.5	5.5	7.5	511

Note:
1. Cooling mode: Water inlet/outlet 7°C/12°C, air intake temp 35°C DB/28°C WB.
2. Heating mode: water intake temp 60°C, air intake temp 7°C.
3. Above data is just for reference. Any changes will lead to different capacity, please contact Kingair for detail.
4. The ESP and motor power are standard type, if there is any change please contact Kingair (motor power is for input power).
5. All specification are subject to change by the manufacture without prior notice.

Heating and Humidification performance parameter

Model KDC	Air flow m³/h	Return Air						Fresh Air						Humidification		
		1 Row heating coil			2 Rows heating coil			1 Row heating coil			2 Rows heating coil			Humidity: Wet film humidifier		
		NHC	WFR	WR	NHC	WFR	WR	NHC	WFR	WR	NHC	WFR	WR	50mm	100mm	150mm
010	1000	4.0	0.34	0.3	6.3	0.54	0.3	5.6	0.48	1.2	8.0	0.69	0.6	2.7	5.5	6.9
015	1500	5.8	0.50	0.5	10.7	0.92	0.6	8.7	0.75	2.0	13.6	1.17	1.4	3.7	7.3	9.1
020	2000	8.7	0.75	0.8	14.6	1.26	0.9	11.6	1.00	3.2	19.4	1.67	2.3	5.5	11.1	13.8
025	2500	9.7	0.83	1	17.5	1.50	1.2	13.6	1.17	4.3	21.3	1.83	2.7	5.5	11.1	13.8
030	3000	12.7	1.09	1.8	22.5	1.93	2.9	16.7	1.44	7.1	27.4	2.36	4.9	6.5	13.0	16.3
040	4000	16.7	1.44	3.2	27.4	2.36	3.1	21.6	1.86	10.7	35.3	3.04	8	8.7	17.4	21.7
050	5000	21.6	1.86	6.3	35.3	3.04	4.7	28.4	2.44	20.6	45.1	3.88	12.7	10.6	21.3	26.6
060	6000	25.5	2.19	7.1	43.1	3.71	7.4	33.3	2.86	20.9	52.9	4.55	10.4	12.6	25.2	31.5
070	7000	29.4	2.53	8.3	51	4.39	8.7	38.2	3.28	21.5	62.7	5.39	14.9	14.7	29.5	36.8
080	8000	33.3	2.86	8.7	56.8	4.88	9.2	44.1	3.79	31.6	70.6	6.07	19.4	16.8	33.5	41.9
090	9000	38.2	3.28	14.2	65.7	5.65	16.3	50	4.30	43.9	79.4	6.83	24.7	18.8	37.6	46.9
105	10500	46.1	3.96	21.1	75.5	6.49	17.8	56.8	4.88	16.3	95.1	8.18	37.5	22.0	44.0	55.0
120	12000	51.9	4.46	22.7	86.2	7.41	18.9	65.7	5.65	52.2	107.8	9.27	42.8	25.6	51.2	64.1
135	13500	51.9	4.46	18	97.0	8.34	13.9	74.7	6.42	35	123.2	10.59	36.9	28.7	57.3	71.6
150	15000	64.0	5.50	23.7	106.7	9.17	21.5	77.6	6.67	35	128.0	11.01	28.7	31.0	62.1	77.6
180	18000	76.6	6.59	32.4	124.2	10.68	20.7	93.1	8.01	43.9	154.2	13.26	38.2	37.7	75.4	94.3

Note:
1. Heating: Water inlet/outlet temp 60°C/50°C, fresh air temp 7°C, return air inlet temp 21°C;
2. Above data is just for reference, any changes will lead to difference capacity, please contact Kingair for detail.
3. Wet-film humidifier thickness is suitable for the coil: 4 rows: 150mm and below; 6 rows: 100mm and below; 8 rows: 50mm;
4. The largest model of KDC is KDC180.

Dry Air Handling Unit

Ceiling Type Horizontal Type Vertical Type Air Handling Unit

Cooling Performance Data--4R (Return Air)

Model KDC	Air flow m ³ /h	Rated Cooling Capacity kW	Water flow rate m ³ /h	Water resistance kPa	E.P			Motor Power			Unit weight kg
					KDC	I	II	I	II	III	
010	1000	2.06	0.18	4.96	120	180	250	0.55	0.55	0.55	73
015	1500	3.11	0.27	13.12	120	180	250	0.55	0.55	0.55	80
020	2000	3.97	0.34	17.02	120	180	250	0.55	0.55	0.55	95
025	2500	4.93	0.42	23.25	120	180	250	0.55	0.55	0.55	100
030	3000	5.67	0.49	29.99	120	180	250	0.55	0.55	0.55	115
040	4000	7.75	0.67	22.31	150	200	300	0.75	0.75	1.1	125
050	5000	10.12	0.87	45.24	150	200	300	1.1	1.1	1.5	155
060	6000	11.93	1.03	50.32	150	200	300	1.1	1.1	1.5	167
070	7000	14.01	1.20	48.23	180	250	350	1.5	1.5	2.2	191
080	8000	16.02	1.38	66.55	180	250	350	1.5	2.2	2.2	260
090	9000	17.10	1.47	11.99	200	300	400	1.5	2.2	2.2	295
105	10500	20.64	1.77	19.87	200	300	400	2.2	2.2	3	315

Note:

1. The above chart cooling capacity based on condition of: Water inlet/outlet temp 18°C / 21°C, air intake temp 27°C DB/19.5°C WB;
2. If real working condition is different from standard, please refer to the modified coefficient on page 12 to correct.
3. External static pressure and motor power both have respective standard unit, please contact Kingair if there is any change.

Cooling Performance Data--6R (Return Air)

Model KDC	Air flow m ³ /h	Rated Cooling Capacity kW	Water flow rate m ³ /h	Water resistance kPa	E.P			Motor Power			Unit weight kg
					KDC	I	II	I	II	III	
010	1000	2.39	0.21	3.53	120	180	250	0.55	0.55	0.55	80
015	1500	3.61	0.31	10.01	120	180	250	0.55	0.55	0.55	86
020	2000	4.78	0.41	10.58	120	180	250	0.55	0.55	0.55	105
025	2500	5.78	0.50	14.90	120	180	250	0.55	0.55	0.55	110
030	3000	6.91	0.59	22.13	120	180	250	0.55	0.55	0.75	146
040	4000	9.39	0.81	47.28	150	200	300	0.75	0.75	1.1	155
050	5000	11.56	0.99	12.43	150	200	300	1.1	1.1	1.5	185
060	6000	13.69	1.18	13.94	150	200	300	1.1	1.5	1.5	208
070	7000	16.05	1.38	13.39	180	250	350	1.5	1.5	2.2	251
080	8000	18.40	1.58	18.53	180	250	350	2.2	2.2	2.2	300
090	9000	20.90	1.80	25.68	200	300	400	2.2	2.2	3	330
105	10500	24.90	2.14	41.67	200	300	400	2.2	3	3	345

Note:

1. The above chart cooling capacity based on condition of: Water inlet/outlet temp 18°C / 21°C, air intake temp 27°C DB/19.5°C WB;
2. If real working condition is different from standard, please refer to the modified coefficient on page 12 to correct.
3. External static pressure and motor power both have respective standard unit, please contact Kingair if there is any change.

Jet Flow Air Handling Unit

The superior performance of ball type nozzle as air supply outlet, without air duct, less space, it is mainly used for direct air supply system in large space. Thermal performance parameters are same as the ordinary air conditioning unit, P2 - P8 for detail. Inner spheres of ball-type nozzle can be adjusted within a certain range, range far and wide. It is widely used in the theatre, the gym, airport, supermarket, workshop, large commercial buildings, exhibition hall and other places of the large spaces.

Jet Flow Unit Parameter

Model KDC	Air Flow CMH	Spout Specifications	Spout No.	Motor power kW														
				Jet distance 10m			Jet distance 15m			Jet distance 20m			Jet distance 25m			Jet distance 30m		
				4R	6R	8R	4R	6R	8R	4R	6R	8R	4R	6R	8R	4R	6R	8R
010	1000	φ315	1	0.25	0.25	-	0.25	0.18	-	0.25	0.25	-	-	-	-	-	-	-
015	1500	φ315	1	0.25	0.25	-	0.25	0.32	-	0.32	0.37	-	0.37	0.37	-	-	-	-
020	2000	φ315	1	0.32	0.45	-	0.45	0.45	-	0.45	0.55	-	0.55	0.55	-	-	-	-
025	2500	φ315	1	0.32	0.32	-	0.32	0.55	-	0.55	0.55	-	0.55	0.45	-	0.45	0.45	-
030	3000	φ315	1	0.55	0.55	0.75	0.55	0.75	0.75	0.75	0.75	1.1	0.75	1.1	1.1	1.1	1.1	1.1
040	4000	φ400	1	1.1	1.1	1.1	1.1	1.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
050	5000	φ400	2	1.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.2	1.5	2.2	2.2
060	6000	φ400	2	1.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.2	1.5	2.2	2.2	2.2	2.2	2.2
070	7000	φ400	2	1.5	1.5	2.2	1.5	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3
080	8000	φ400	2	2.2	2.2	2.2	2.2	2.2	3	3	3	3	3	3	3	3	3	3
090	9000	φ500	2	1.5	2.2	2.2	1.5	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
105	10500	φ500	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
120	12000	φ500	2	3	3	3	3	3	4	3	4	4	4	4	4	4	4	4

Note:

1. The above power Based on no external static pressure. If air pipes are needed at the inlet, please indicate in the order.
2. If air pipes are needed, or jet distance surpass above specification, please contact engineering department of factory.

Dimension

Model KDC	L	W	H	L1	W1	H1	Air supply outlet specification	Air supply outlet NO.	Flange air inlet (length x width x NO.)
010	1240	860	490	1290	1020	540	φ315	1	810×440×1
015	1240	860	490	1290	1020	540	φ315	1	810×440×1
020	1240	940	520	1290	1100	570	φ315	1	890×470×1
025	1240	940	520	1290	1100	570	φ315	1	890×470×1
030	1400	1060	520	1450	1220	570	φ315	1	1010×470×1
040	1400	1210	570	1450	1370	620	φ400	1	1160×520×1
050	1400	1420	570	1450	1580	620	φ400	2	1370×520×1
060	1400	1640	600	1450	1800	650	φ400	2	1590×550×1
070	1400	1700	650	1450	1860	700	φ400	2	1650×600×1
080	1400	1760	670	1450	1920	720	φ400	2	1710×620×1
090	1400	1800	720	1450	1960	770	φ500	2	1750×670×1
105	1550	2060	720	1600	2220	770	φ500	2	2010×670×1
120	1550	2200	800	1600	2360	850	φ500	2	2150×750×1

Air Conditioner For Communication Equipment



- Applies most advanced hermetical scroll compressor, smooth running, low noise, high EER.
- Applies high purity seamless red cooper tube and aluminum double shutter type fins, high heat transfer efficiency.
- Applies stainless steel plated heat exchanger or shell and tube type heat exchanger, high heat transfer efficiency, small volume, small water pressure drop, low refrigerant charge

K PCA 22 B D 2

- 2—R407C; omitted is R22
- D—auxiliary electric heating
- Design version
- Cooling capacity code
- Communication air conditioner; A-air cooled
- Kingair Conditioner For Communication Equipment

Note: front return side supply unit is combined by front return top supply device add air outlet wind cap

Performance parameter (air-cooled)

Indoor Unit Model			KPCA22BD	KPCA27BD	KPCA37BD	
Capacity	Total/Sensible Capacity		kW	22.3/20.5	27.4/24.9	36.8/33.5
	Sensible heat Rotary			0.92	0.91	0.91
Power Supply			380V/3~50Hz			
Nominal Power Input		kW	8.42	11.12	13.5	
Max Input Power		kW	20.4	24.2	31.1	
Indoor Air Supply	Air Flow	m³/h	7000	8400	10000	
	ESP P ₀	Bottom	50	50	50	
		Top	100	100	100	
		Side	0	0	0	
	Fan Qty		2	2	2	
Air Filter		G4				
Evaporator	Type		Copper Tube + Aluminium Fin			
	Row		3	3	4	
	Face Area	m²	0.87	1.1	1.1	
	On Coil Velocity	m/s	2.25	2.12	2.53	
Compressor	Type		Hermetic Scroll			
	Capacity Regulating		0~50%~100%			
	Qty	台	2	2	2	
	Input Power	kW	3.1×2	4.1×2	4.7×2	
Elec. Heater	Type		PTC			
	Capacity Regulating		0~33%~66%~100%			
	Input Power	kW	9	9	12.5	
	Type		Electro Dry Steam Humidify			
Humidifier	Humdify Capacity	kg/h	4	4	9	
	Power	kW	3	3	6.75	
Dimension (L x W x H)	Bottom Supply	mm	1600×800×1950		1600×800×1950	
	Top Supply	mm	1600×800×1950		1600×800×1950	
	Side Supply	mm	1600×800×2250		1600×800×2250	
Weight		kg	430	440	455	
Outdoor Unit	Type		Copper Tube/Aluminum Fin	Copper Tube/Aluminum Fin	Copper Tube/Aluminum Fin	
	Model		KR18A	KR18A	KR24A	
	Qty		2	2	2	
Pipe	Liquip Pipe Dia		1/2"	1/2"	1/2"	
	Gas Pipe Dia		5/8"	5/8"	5/8"	

Note:
1. energy test condition: internal air return temperature: 27 DB/17 WB; external environment temperature 35.
2. KPCA22BD is only for modular unit combination, KPCA22BD single modular can not choose the model, the minimum cooling capacity of communication air conditioner is 27.4kW

Performance parameter (Water-cooled)

Model			KPCA030BL	KPCA040BL	KPCA050BL	KPCA060BL	KPCA070BL	KPCA080BL	
Total Cooling capacity			kW	30.3	40.1	50.8	60.7	70.3	80
Sensible Capacity			kW	25.5	34.2	42	50.3	57.6	65.4
Power Supply			380V/3~50Hz						
Air Supply (EC Motor)	Air Flow	m ³ /h	8000	9000	11000	13500	15500	17000	
		Bottom	150	150	150	150	150	150	
	E.S.P	Top	150	150	150	150	150	150	
		Side	0	0	0	0	0	0	
	Fan Power	kW	3.1	3.1	3.1	6.2	6.2	6.2	
	Fan Qty		1			2			
Air Filter			G4						
Condenser	Type		Copper Tube + Aluminium Fin						
	Row		4	4	4	4	4	4	
	Face Area	m ²	1.2	1.2	1.2	2.4	2.4	2.4	
	On Coil Velocity	m/s	1.87	2.1	2.57	1.58	1.81	1.98	
	Cooled Water Flow	m ³ /h	5.99	7.12	8.74	11.3	12.4	14.3	
	Pressure Drop	kPa	7.5	10.2	13.7	6.7	8.0	10.3	
	Type		PTC						
Electric heater	Capacity Regulating		0~100%			0~50%~100%			
	Input Power	kW	9	9	9	18	18	18	
Humidifier	Type		Electro Dry Steam Humidity						
	Humdidity Capacity	kg/h	4	4	4	4	4	4	
	Input power	kW	3	3	3	3	3	3	
Water Valve (Two Way Valve)			DN32			DN40			
Pipe	Inlet Pipe		DN32			DN40			
	Outlet pipe		DN32			DN40			
	Drain pipe		DN25						
	Bottom		900*1000*1950			1760*1000*1950			
Dimensions (mm x width x height)	Top		900*1000*1950			1760*1000*1950			
	Side		900*1000*2250			1760*1000*2250			
	Noise	dB(A)	63	64	65	68	68	69	
Weight		kg	370	380	390	710	725	740	

Model			KPCA090BL	KPCA100BL	KPCA110BL	KPCA120BL	KPCA150BL
Total Cooling capacity		kW	90.8	100.2	112	121.2	150
Sensible Capacity		kW	74.7	83.2	91.3	99.6	126.2
Power Supply			380V/3~/50Hz				
Air Supply (EC Motor)	Air Flow	m ³ /h	19500	21000	23000	26000	32000
		Bottom	150	150	150	150	150
	E.S.P	Top	150	150	150	150	150
		Side	0	0	0	0	0
	Fan Power	kW	6.2	6.2	9.3	9.3	9.3
	Fan Qty		2			3	
Air Filter			G4				
Condenser	Type		Copper Tube + Aluminium Fin				
	Row		4	4	4	4	4
	Face Area	m ²	2.4	2.4	3.6	3.6	3.6
	On Coil Velocity	m/s	2.28	2.45	1.79	2.02	2.49
	Cooled Water Flow	m ³ /h	15.6	16.4	19.9	21.7	24.8
	Pressure Drop	kPa	12.0	12.2	9.0	10.5	12.4
	Type		PTC				
Electric heater	Capacity Regulating		0~50%~100%		0~33%~66%~100%		
	Input Power	kW	18	18	27	27	27
Humidifier	Type		Electro Dry Steam Humidify				
	Humidify Capacity	kg/h	4		4	4	4
	Input power	kW	3	3	3		3
Water Valve (Two Way Valve)			DN40		DN50		
Pipe	Inlet Pipe		DN40		DN50		
	Outlet pipe		DN40		DN50		
	Drain pipe		DN25				
Dimensions (length x width x height)	Bottom		1760*1000*1950		2610*1000*1950		
	Top		1760*1000*1950		2610*1000*1950		
	Side		1760*1000*2250		2610*1000*2250		
	Noise	dB(A)	69	69	70	70	70
Weight		kg	760	770	1050	1100	1150

Note:
1. Room return air temperature: 23° CDB/17° CWB, inlet water temperature 7° C, outlet water temperature 12° C.
2. Noise test conditions: 1 meter in front of the unit, 1 meter high free space.
3. The indoor fan is an EC fan.
4. The unit has an electric two-way valve.

DC Frequency Conversion Multi-Connected (Heat Pump) Unit



- Efficient environmental protection dc frequency conversion technology.
- Magnetic resistance type dc motor.
- A new generation of direct current frequency conversion compressor,
- 4 protection function, ensuring the compressor running smooth and efficient.
- 180° sine wave dc variable frequency drive technology.
- High efficient heat exchanging technology.
- Oil control technology.
- Refrigerant control technology.

Outdoor

KMRV-280 W M / 2 A-B AA

- Feature code
- A: 1 phase, B: 3 Phase
- Design version
- Refrigerant: 2-R410A
- M- modular unit
- Outdoor unit
- Nominal cooling capacity: digitX100W
- DC frequency multi-connected(heat pump)unit

Indoor

KMRV-22 F A D 2-C-A AA

- Feature code
- A: 1 phase, B: 3 Phase
- C表示超薄风管机 D表示低静压型 Z表示中静压型
- Refrigerant: 2-R410A
- Design version
- Indoor structure code: K means embedded
- F means duct D means seat
- Nominal cooling capacity: digitX100W
- DC frequency multi-connected(heat pump)unit

DC frequency multi-connected external unit—Integral type

Model		KMRV-250 WM		KMRV-280 WM		KMRV-335 WM		KMRV-400 WM		KMRV-450 WM	
Power Supply		380~415 3N ~50Hz		380~415 3N ~50Hz		380~415 3N ~50Hz		380~415 3N ~50Hz		380~415 3N ~50Hz	
Cooling	Cooling Capacity	kW	25.2			33.5		40		45	
	Input Power	kW	5.8	6.8	8.5	10.3	12.1				
	Rated Current	A	8.8	10.3	12.7	16.7	19.8				
Heating	Heating Capacity	kW	28	31.5	37.5	45	50				
	Input Power	kW	6.1	7.0	8.6	10.2	11.8				
	Rated Current	A	9.3	10.5	12.8	15.1	17.5				
Max Power		kW	14	14.2	15.1	20.1	21.3				
Compressor	Type		Hermetic Scroll								
	Frozen Oil	Type	FVC68D								
		Charge	4	4	4	5.5	5.5				
Fan	Type		Axial fan blade								
	Output Power	kW	0.75	0.75	0.75	0.82	0.82				
	Air Flow	m ³ /h	11000	11000	11000	14000	14000				
Noise		dB(A)	<60	<60	<60	<62	<62				
Machine (W x D x H)		mm	930 x 765 x 1680	930 x 765 x 1680	930 x 765 x 1680	1340 x 765 x 1680	1340 x 765 x 1680				
Package (W x D x H)		mm	980 x 810 x 1840	980 x 810 x 1840	980 x 810 x 1840	1390 x 810 x 1840	1390 x 810 x 1840				
Net Weight/Operation Weight		kg	280/300	280/300	280/300	350/375	350/375				
Refrigerant	Type		R410A								
	Charge	kg	8.5	8.5	9	13	13				
	Pipe/Tube Specification	mm	Φ12.7/Φ22.2	Φ12.7/Φ22.2	Φ12.7/Φ22.2	Φ12.7/Φ28.6	Φ12.7/Φ28.6				
Operating Pressure		Mpa	4.2	4.2	4.2	4.2	4.2				

Note:
 1. Cooling based on internal dry/wet bulb 27/19°C, external dry/wet bulb 35/24°C, distribution rate 100%, piping length 8m, R p-v is 0
 2. Heating based on: internal dry bulb 20°C, external dry/wet bulb 7/6°C, distribution rate 100%, piping length 8m, R p-v is 0.
 3. Noise is tested in semi-anechoic room, in the actual situation, it usually higher than the data.
 4. There is no further information if there are some changes according to the improvement.

DC frequency multi-connected external unit—Paralleled modular

Model KMRV-WM-BAA		500	560	615	680	735	785	850	900	
Capacity Number		18	20	22	24	26	28	30	32	
Power Supply		380~415 3N~50Hz								
Cooling	Cooling Capacity	kW	50.4	56.0	61.5	68.0	73.5	78.5	85.0	90.0
	Input Power	kW	11.6	14.2	17	18.4	19.3	20.8	24.2	24.8
	Rated Current	A	19.6	21.6	24.3	29.5	30.2	34.6	39.8	42.2
Heating	Heating Capacity	kW	56.0	63.0	68.5	76.0	81.5	88.5	95.0	100.0
	Input Power	kW	12.2	15.2	16.7	18.8	19.3	20.9	24	25.3
	Rated Current	A	18.6	23	25.3	28.4	30.2	33.3	36.4	39
Max Power		kW	28	28.4	29.3	34.3	35.2	36.4	41.4	42.6
Compressor	Type	Hermetic scroll								
	Frozen Oil	Type	FVC68D							
Fan	Charge L	8	8	8	9.5	9.5	9.5	11	11	
	Type	Axial fan blade								
	Output Power	kW	1.5	1.5	1.5	1.57	1.57	1.57	1.64	1.64
Air Flow		m ³ /h	22000	22000	22000	25000	25000	28000	28000	28000
Noise		dB(A)	≤62			28000			≤63	
Dimension (W x D x H)		mm	(930 x 765 x 1680) x 2			(930 x 765 x 1680) + 1340 x 765 x 1680			(1340 x 765 x 1680) x 2	
Net Weight		kg	560	560	560	630	630	700	700	700
Refrigerant	Type	R410A								
	Refrigerant Charge	kg	17	17	17.5	21.5	22	22	26	26
Liquid Pipe/Gas Pipe (Φ)		mm	φ 15.88/φ 28.6			φ 19.05/φ 34.93				
Operating Pressure		MPa				4.2				

Model KMRV-WM-BAA		960	1010	1080	1130	1200	1250	1300	1350
Capacity Number		34	36	38	40	42	44	46	48
Power Supply		380~415 3N ~50Hz							
Cooling	Cooling Capacity	kW	96.0	101.0	108.0	113.0	120.0	125.0	130.0
	Input Power	kW	25.5	27.1	29.7	31.3	33.9	35.5	36.1
	Rated Current	A	40.3	42.7	48.2	50.6	56.1	58.5	60.9
Heating	Heating Capacity	kW	107.0	112.0	121.0	126.0	135.0	140.0	150.0
	Input Power	kW	26.4	28	30	31.6	33.6	35.2	35.8
	Rated Current	A	39.9	42.5	45.3	47.9	50.7	52.9	53.5
Max Power		kW	48.5	49.7	54.5	55.6	60.3	60.3	62.7
Compressor	Type		Hermetic scroll						
	Frozen Oil	Type	FVC68D						
		Charge L	13.5	13.5	15	15	16.5	16.5	16.5
Fan	Type		Axial fan blade						
	Output Power	kW	2.32	2.32	2.39	2.39	2.46	2.46	2.46
	Air Flow	m³/h	36000	36000	39000	39000	42000	42000	42000
Noise		dB(A)	<64			<65			
Dimension (W x D x H)		mm	(930x765x1680)x2+1340x765x1680			(1340 x 765 x 1680) x 3			
Net Weight		kg	910	910	980	980	1050	1050	1050
Refrigerant	Type		R410A						
	Refrigerant Charge	kg	30	30	34.5	34.5	39	39	39
	Liquid Pipe/Gas Pipe (Φ)	mm	φ 19.05/φ 34.93			φ 19.05/φ 41.3			
Operating Pressure		MPa	4.2						

Model KMRV-WM-BAA			1410	1460	1515	1580	1635	1700	1750	1800
Capacity Number			50	52	54	56	58	60	62	64
Power Supply			380~415 3N ~50Hz							
Cooling	Cooling Capacity	kW	141.0	146.0	151.5	158.0	163.5	170.0	175.0	180.0
	Input Power	kW	38.4	40	41.8	44.2	46	48.4	50	52.6
	Rated Current	A	61.4	63.8	66.5	71.7	74.4	79.6	82	84.4
Heating	Heating Capacity	kW	157.0	162.0	168.5	176.0	182.5	190.0	195.0	200.0
	Input Power	kW	39.2	40.8	42.3	44.4	45.9	48	49.6	52.2
	Rated Current	A	59.4	62	64.3	67.4	69.7	72.8	75.4	78
Max Power		kW	69.8	71	71.9	76.9	77.8	82.8	84	85.3
Compressor	Type		Hermetic scroll							
	Frozen Oil	Type	FVC68D							
		Charge L	19	19	19	20.5	20.5	22	22	22
Fan	Type		Axial fan blade							
	Output Power	kW	3.14	3.14	3.14	3.21	3.21	3.28	3.28	3.28
	Air Flow	m ³ /h	50000	50000	50000	53000	53000	56000	56000	56000
Noise		dB(A)	≤66							
Dimension (W x D x H)		mm	(930 x 765 x 1680) x 2 + (1340 x 765 x 1680) x 2				930x765x1680 + (1340x765x1680)x3		(1340 x 765 x 1680) x 4	
Net Weight		kg	1260	1260	1260	1330	1330	1400	1400	1400
Refrigerant	Type		R410A							
	Refrigerant Charge	kg	44	44	45	47.5	48	52	52	52
	Liquid Pipe/Gas Pipe (Φ)	mm	φ19.05/φ41.3				φ22.2/φ47.6			
Operating Pressure		MPa	4.2							

Note:
 1. Cooling based on internal dry/wet bulb 27/19°C, external dry/wet bulb 35/24°C, distribution rate 100%, piping length 8m, R p-v is 0
 2. Heating based on: internal dry bulb 20°C, external dry/wet bulb 7/6°C, distribution rate 100%, piping length 8m, R p-v is 0.
 3. Noise is tested in semi-anechoic room, in the actual situation, it usually higher than the data.
 4. There is no further information if there are some changes according to the improvement.

Embedded type

Model KMRV-K		28	36	45	50	56	63	71	80	90	100	112	125	140
Cooling Capacity	kW	2.8	3.6	4.5	5	5.6	6.3	7.1	8	9	10	11.2	12.5	14
Heating Capacity	kW	3	4.3	5	5.8	6.3	7.5	8	10	11	12	12.8	13.3	15
Electric Heater	kW	0.7	0.7	1.4	1.4	1.4	1.7	1.7	1.7	1.7	2.5	2.5	2.5	
Rated Power	W	45	45	65	65	65	145	145	151	151	151	167	167	190
Power Supply		220V~/50Hz												
Air Flow	m³/h	630	630	850	850	850	1300	1300	1500	1500	1500	1600	1600	1700
E.S.P	Pa	0	0	0	0	0	0	0	0	0	0	0	0	0
Noise	dB(A)	38/35/32	38/35/32	39/36/33	39/36/33	39/36/33	40/37/33	40/37/33	41/38/35	41/38/35	41/38/35	41/38/35	41/38/35	41/38/35
Dimension LxW x H	mm	570 x 570 x 263					822 x 822 x 263					822 x 822x 293		
Panel L x W x H	mm	650 x 650 x 45					950 x 950 x 45					950 x 950 x 45		
Eternal Weight	kg	19	19	19	19	19	25	25	28	28	28	28	28	28
Panel Net Weight	kg	2.2	2.2	2.2	2.2	2.2	6	6	6	6	6	6	6	6
Liquid Pipe/Gas Pipe	mm	Φ6.35/Φ12.7					Φ9.52/Φ15.88					Φ9.52/Φ15.88		
Drainage Pipe	mm	Φ26 PVC Pipe												

Ducted ultrathin type

Model KMRV-FD-C		22	25	28	32	36	40	45	50	56	63	71	
Cooling Capacity	kW	2.2	2.5	2.8	3.2	3.6	4	4.5	5	5.6	6.3	7.1	
Heating Capacity	kW	2.5	2.8	3	3.8	4.3	4.5	5	5.8	6	7.5	8	
Electric Heater	kW	1	1	1	1	1	1.5	1.5	1.5	1.5	2	2	
Rated Power	W	40	40	40	51	51	70	70	75	75	121	121	
Power Supply		220V~50Hz											
Air Flow	m/h	420	420	420	520	520	680	680	730	730	1100	1100	
E.S.P	Pa	12	12	12	12	12	12	12	12	12	12	12	
Noise	dB(A)	34/31/28	34/31/28	34/31/28	36/33/30	36/33/30	38/35/32	38/35/32	38/35/32	38/35/32	39/36/33	39/36/33	
Dimension LxWxH	mm	910 x 480 x 190					1050 x 480 x 190					1350 x 480 x 190	
Net Weight	kg	19	19	19	20	20	24	24	25	25	29	29	
iquid Pipe/Gas Pipe	mm	Φ6.35/Φ9.52				Φ6.35/Φ12.7							Φ9.52/Φ15.88
Drainage Pipe	mm	3/4" MPT											

Low static pressure air duct

Model KMRV-FD-D		22	25	28	32	36	40	45	50	56	63	71	80	90	100	112	125	140
Cooling Capacity	kW	2.2	2.5	2.8	3.2	3.6	4	4.5	5	5.6	6.3	7.1	8	9	10	11.2	12.5	14
Heating Capacity	kW	2.5	2.8	3	3.8	4.3	4.5	5	5.8	6	7.5	8	10	11	12	12.8	13.3	15
Electric Heater	kW	1	1	1	1	1	1	1.5	1.5	1.5	2	2	2	2	2	3	3	3
Rated Power	W	48	48	48	60	60	60	73	73	73	120	120	140	140	140	190	190	190
Power Supply		220V~50Hz																
Air Flow	m³/h	420	420	420	580	580	580	780	780	780	1200	1200	1500	1500	1500	2000	2000	2000
E.S.P	Pa	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
Noise	dB(A)	36/33/30	36/33/30	36/33/30	38/35/32	38/35/32	38/35/32	40/37/34	40/37/34	40/37/34	42/39/36	42/39/36	44/41/38	44/41/38	44/41/38	44/41/38	44/41/38	44/41/38
Dimension LxWxH	mm	940 x 460 x 250						1160 x 460 x 250				1460 x 460 x 250				1680 x 460 x 250		
Net Weight	kg	15.5	15.5	15.5	16.5	16.5	16.5	22	22	22	25	25	28	28	28	38	38	38
Liquid Pipe/Gas Pipe	mm	Φ6.35/Φ9.52			Φ6.35/Φ12.7							Φ9.52/Φ15.88						
Drainage Pipe	mm	3/4" MPT																

Ducted middle static pressure type

Model KMRV- ^a FD-Z		45	50	56	63	71	80	90	100	112	125	140	150
Cooling Capacity	kW	4.5	5	5.6	6.3	7.1	8	9	10	11.2	12.5	14	15
Heating Capacity	kW	5	5.8	6	7.5	8	10	11	12	12.8	13.3	15	16
Electric Heater	kW	2	2	2	2	2	2	2	2	3	3	3	3
Rated Power	W	120	120	120	160	160	216	216	216	310	310	310	310
Power Supply		220V~/50Hz											
Air Flow	m ³ /h	950	950	950	1200	1200	1500	1500	1500	2000	2000	2000	2000
E.S.P	Pa	50	50	50	50	50	50	50	50	50	50	50	50
Noise	dB(A)	42/39/37	42/39/37	42/39/37	45/42/39	45/42/39	48/45/42	48/45/42	48/45/42	51/43/40	51/43/40	51/43/40	51/43/40
DimensionLxWxH	mm	1040 x 743 x 290									1400 x 743 x 290		
Net Weight	kg	34	34	34	36	36	36	36	36	52	52	52	52
iquid Pipe/Gas Pipe	mm	Φ6.35/Φ12.7			Φ9.52/Φ15.88						Φ9.52/Φ15.88		
Drain Pipe	mm	3/4" MPT											

Ducted low static pressure type

Model KMRV-*D		25	28	32	36	40	45	50	56	63	71	80	90	100	112	125	140	
Cooling Capacity	kW	2.5	2.8	3.2	3.6	4	4.5	5	5.6	6.3	7.1	8	9	10	11.2	12.5	14	
Heating Capacity	kW	2.8	3	3.8	4.3	4.5	5	5.8	6	6.8	7.2	9	10	10	12.0	13.3	15	
Rated Power	W	80	80	80	80	80	80	80	80	110	110	140	140	140	200	200	200	
Power Supply		220V~/50Hz																
Air Flow	m³/h	800	800	800	800	800	800	800	900	1200	1200	1400	1400	1400	1700	1700	1900	
E.S.P	Pa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Noise	dB(A)	37/34 /31	37/34 /31	37/34 /31	37/34 /31	37/34 /31	37/34 /31	37/34 /31	39/36 /33	45/42 /39	45/42 /39	47/44 /41	47/44 /41	47/44 /41	48/45 /42	48/45 /42	48/45 /42	
Dimension LxWxH	mm	905×673×243									1288×673×243					1672×673×243		
Net Weight	kg	30	30	30	30	30	30	30	30	38	38	40	40	40	42	42	42	
Liquid Pipe/Gas Pipe	mm	Φ6.35/Φ12.7									Φ9.52/Φ15.88					Φ9.52/Φ15.88		
Drain Pipe	mm	Φ25PVC硬质管																

High static pressure parameter table

Model KMRV-*F-G		90	100	112	125	140	150	220	280	450	560
Cooling Capacity	kW	9	10	11.2	12.5	14	15	22	28	45	56
Heating Capacity	kW	10	11.2	12.5	14	15	16	24.5	31	49.5	61.5
Air Flow	m3/h	1800			2300			4000		8000	
E.S.P	Pa	150			150			220			
Rated Power	kW	0.42			0.53			1.25		3	
Power Supply		220V~/50Hz								380V 3N~50 Hz	
Noise	dB(A)	49			51			53		58	59
Pipe	Liquid	3/8"					1/2"			1/2"	5/8"
	Gas	5/8"					7/8"			1-1/8"	
Dimention	L*W*H	1380*796*434						1750*875*536		1900*943*878	
Weight	kg	85			89			98		200	210

Fresh air indoor unit parameter table

Model	KMRV-*F-X	140	220	280	450	560
Cooling Capacity	kW	14	22	28	45	56
Heating Capacity	kW	15	24.5	31	49.5	61.5
Air Flow	m ³ /h	1200	2800	2800	4000	5000
E.S.P	Pa	200	220	220	220	220
Rated Power	kW	0.4	0.55	0.55	1.1	2.2
Power Supply		220V~50Hz			380V 3N~50 Hz	
Noise	dB(A)	51	53	53	57	59
Pipe	Liquid	3/8"	1/2"	1/2"	5/8"	5/8"
	Gas	3/4"	7/8"	7/8"	1-1/8"	1-1/8"
Dimension	L*W*H	1410*796*434	1650*945*598		1750*945*824	
Weight	kg	69	98	98	170	190

Direct Expansion Air Handling Unit



- Applies patented double frame structure, the air leakage ratio is 0.16%.
- Applies module design, each module 100mm, proportionate increase, to adapt to the requirement of site conditions on the unit width and height.
- The internal surface is flat and smooth, not easy to dust, without secondary pollution, suitable for clean place to use. External panel is high quality anticorrosion color steel plate, and coated surface, can prevent the scratch panel in assembly and transportation.
- High efficient screw compressor, the most advanced gear design, high precision processing, high efficiency.
- Applies famous brands refrigerant control assembly such as ALCO, SPORLAN, DANFOSS, steady quality.
- Applies double inlet centrifugal fan, and special anti-vibration structure, making the unit have small vibration, low noise.
- Applies axial flow fan, operating in peace.
- Applies single-chip microcomputer controller, LCD display screen, colorful backlighting, and multi-function mode for selection.
- Having the automatic defrosting and manual defrost function.

Indoor

KZE 09 06 B R D H - L W

- Internal unit type: W-roof type, omitted is standard
- Connection direction: R-right, L-left
- Model number
- Structure: H-horizontal type, V-vertical type
- Auxiliary heating: D-electric type; omitted is without
- Function: H-constant temperature and humidity; R-pump, omitted is chiller
- Design version: A, B, C, Z
- Height module: 06, 07, 08 30
- Width module: 09, 12, 16 34
- Model code: KZE/KZS/KZW thickness of the caseboard: 25/35/50mm

Outdoor

KCA 1067 A R 2 X - B AA

- Detailed Information
- Power Type
- Model Difference type
- Refrigerant code (2 for R407C, R22 default)
- Function code (R for heat pump, Only Cooling default)
- Design version
- Model code
- Kingair Air Cooled Screw Type Outdoor Unit

KSA 250 B R 2 X - B AA

- Detailed Information
- Power Type
- Model Difference type
- Refrigerant code (2 for R407C, R22 default)
- Function code (R for heat pump, Only Cooling default)
- Design version
- Model code
- Kingair Air Cooled Scroll Type Outdoor Unit

KCW 1012 A 2 X - B AA

- Details
- Power type
- Model difference code
- Refrigerant: 2-R407C, omitted is R22
- Design version
- Model code
- Water cooled condensing section

Air-cooled direct expansion series technical parameters (R407C)

Mode	Indoor unit	KZE	2824	3027	3427	3530	
		KZS					
		KZW					
	Outdoor unit	Model	KCA1078A(R)2X	KCA1093A(R)2X	KCA1108A(R)2X	KCA1130A(R)2X	
Qty		1	1	1	1		
Cooling Capacity		kW	255	305	350	424	
Heating Capacity		kW	296	353	404	489	
Power Supply		-	380V/3N~/50Hz				
Indoor Unit	Air Flow	m³/h	50000	60000	70000	80000	
	Temperature Control		Cooling: 22-26℃, Heating 18-22℃				
	Dimension	Width	mm	2870	3100	3500	3600
		Height	mm	2550	2900	2900	3200
		Length	mm	Depends on the actual modular amount			
Outdoor Unit	Compressor*qty		Screw type*1				
	Cooling power input		kW	85.3	108.9	121.5	144.1
	Heating power input		kW	77.5	99.9	111.5	131.3
	Dimension	Weight	kg	2850	3650	3740	4200
		Length	mm	2460	3435	3520	4500
		Width	mm	2235	2235	2235	2235
		Height	mm	2400	2400	2600	2760
	Refrigerant	Type	- R407C				
Charge		kg	76	95	107	130	
Connecting pipe	Connection	-					
	Liquid	Ømm	34.9	34.9	34.9	41.3	
		Steam	Ømm	79.4	79.4	79.4	79.4

Note:
 1, rated cooling capacity is tested under nominal air volume, internal dry/wet bulb temperature 27/19; external dry bulb 35.
 2, rated cooling capacity is tested under nominal air volume, internal dry bulb temperature 20 and external dry/wet bulb temperature 7/6.
 3, rated cooling capacity does not consider the fan motor heating loss, external static pressure can be made by the customer's requirements;
 4, the charge is for your reference, it depends on the piping length.

Air-cooled direct expansion series technical parameters (R407C)

Model	Indoor Unit	KZE	0909	1209	1409	1511	1512	
		KZS						
		KZW						
	Outdoor Unit	Model	KSA100B2(R)X	KSA125B2(R)X	KSA150B2(R)X	KSA200B2(R)X	KSA250B2(R)X	
		Q.ty	1	1	1	1	1	
Rated Cooling Capacity		kW	24.6	27.5	33.7	45.6	56	
	Rated Heating Capacity (Heat Pump)	kW	26.3	30.2	36.5	50.2	61.5	
		Electric Heater	kW	16	20	24	28	32
		Humidification	Kg/h	8	10	13	18	22
	Power Supply	-	380V/3N~/50Hz					
Indoor Unit	Air Flow	m³/h	5000	6500	7500	10000	12000	
	Temperature Control	-	22-26℃±1℃ (±2℃)					
	Rehumidifier Control	-	45-65%±5%RH (10%RH)					
	Dimension	Width	mm	950	1250	1450	1550	1550
		High Length	mm	1030	1030	1030	1230	1330
			Depends on the actual modular amount					
Outdoor Unit	Compressor Type*Q.ty	-	Scroll*2					
	Cooling Input Power	kW	8.76	10.5	11.9	18.1	20.4	
	Quantity (Single Station)	kg	232	252	305	480	532	
	Dimension	Width	mm	1403	1558	1558	1808	1808
		High	mm	821	882	882	1090	1090
		Length	mm	980	1170	1170	1190	1190
Refrigerant	Type	-	R407C					
	Charge	kg	4.0*2	5.1*2	6.2*2	8.0*2	9.5*2	
Connection Pipe	Type	-	welding connection/oute bell connection					
	Liquid Pipe	Ømm	12.7*2	12.7*2	12.7*2	15.88*2	15.88*2	
	Gas Pipe	Ømm	19.05*2	19.05*2	22.2*2	28.6*2	28.6*2	

Model	Indoor Unit	KZ1	1812	2114	2018	2121	2521	
	Outdoor Unit	KZ5						
		Model	KSA150B2(R)X	KSA200B2(R)X	KSA250B2(R)X	KSA150B2(R)X	KCA1050A2(R)X	
		Q _{ty}	2	2	2	4	1	
Rated Cooling Capacity		kW	67.5	92	114	134	169	
Rated Heating Capacity (Heat Pump)		kW	73.1	101.2	125.1	145	186	
Electric Heater		kW	38	50	65	75	100	
Humidification		Kg/h	25	35	43	54	60	
Power Supply		-	380V/3N~/50Hz					
Indoor Unit	Air Flow	m ³ /h	15000	20000	24000	30000	37500	
	Temperature Control	-	22-26℃±1℃ (±2℃)					
	Rehumidifier Control	-	45-65%±5%RH (10%RH)					
	Dimension	Width	mm	1850	2150	2050	2170	2570
		High	mm	1330	1530	1930	2250	2250
		Length	Depends on the actual modular amount					
		Compressor Type*Q _{ty}	Scroll*2					
Outdoor Unit	Cooling Input Power	kW	11.9	18.1	20.4	11.9	64	
	Quantity (Single Station)	kg	305	480	532	305	2050	
	Dimension	Width	mm	1558	1808	1808	1558	2460
		High	mm	882	1090	1090	882	2235
		Length	mm	1170	1190	1190	1170	2400
Refrigerant	Type	-	R407C					
	Charge	kg	6.2*4	8.0*4	9.5*4	6.2*8	60	
Connector Pipe	Type	-	Welding connection					
	Liquid Pipe	Ømm	12.7*4	15.88*4	15.88*4	12.7*8	34.9	
	Gas Pipe	Ømm	22.2*4	28.6*4	28.6*4	22.2*8	66.68	

Model	Indoor Unit		KZE	2624	2824	3027	3427	3530
			KZS					
	Outdoor Unit		KZW					
			Model	KCA1067A2(R)X	KCA1078A2(R)X	KCA1093A2(R)X	KCA1108A2(R)X	KCA1130A2(R)X
			Q.ty	1	1	1	1	1
Rated Cooling Capacity			kW	214	245	295	337	409
Rated Heating Capacity (Heat Pump)			kW	235	269	324	370	450
Electric Heater			kW/h	120	140	160	180	220
Humidification			Kg/h	65	80	90	100	120
Power Supply			-	380V/3N~/50Hz				
Air Flow			m³/h	40000	50000	60000	70000	80000
Indoor Unit	Temperature Control		-	22-26℃±1℃ (±2℃)				
	Rehumidifier Control		-	45-65%±5%RH (10%RH)				
	Dimension	Width	mm	2770	2870	3100	3500	3600
		High	mm	2270	2570	2900	2900	3200
		Length	mm	Depends on the actual modular amount				
Compressor Type*Q.ty			Screw *1					
Outdoor Unit	Cooling Input Power		kW	77.6	85.3	108.9	121.5	144.1
	Quantity (Single Station)		kg	2580	2780	3570	3660	4100
	Dimension	Width	mm	2460	2460	3435	3520	4500
		High	mm	2235	2235	2235	2235	2235
		Length	mm	2400	2400	2400	2600	2760
Refrigerant	Type	-	R407C					
	Charge	kg	70	76	95	107	130	
Connection Pipe	Type		-	Welding connection				
	Liquid Pipe	Ømm	34.9	34.9	34.9	34.9	41.3	
	Gas Pipe	Ømm	66.68	79.4	79.4	79.4	79.4	

Note:

- rated cooling capacity is tested under nominal air volume, internal dry/wet bulb temperature 27/19; external dry bulb 35/24.
- rated cooling capacity is tested under nominal air volume, internal dry bulb temperature 20 and external dry/wet bulb temperature 7/6.
- rated cooling capacity does not consider the fan motor heating loss, external static pressure can be made by the customer's requirements;
- the charge is for your reference, it depends on the piping length.

Air-cooled direct expansion series technical parameters (R407C)

Model	Indoor Unit	KZE	0909	1209	1409	1511	1512	1812	
		KZS							
	KZW								
Outdoor Unit	Model	KSA100B(R)2X	KSA125B(R)2X	KSA150B(R)2X	KSA200B(R)2X	KSA250B(R)2X	KSA150B(R)2M		
	Q.ty	1	1	1	1	1	2		
Rated Cooling Capacity		kW	25.2	28.5	35	47.5	59	70	
Rated Heating Capacity (Heat Pump)		kW	26.6	32.3	39	53.2	64.6	78	
Power Supply		-	380V/3N~/50Hz						
Indoor Unit	Air Flow	m³/h	5000	6500	7500	10000	12000	15000	
	Temp Control Range		Cooling: 22-26°C, Heating: 18-22°C						
	Dimension	Width	mm	950	1250	1450	1550	1850	
		High	mm	1030	1030	1030	1230	1330	
	Length	mm	Depends on the actual modular amount						
Outdoor Unit	Compressor Type*Q.ty		Scroll*2						
	Cooling Input Power		kW	8.7	10.5	11.9	18.1	20.4	11.9
	Heating Input Power		kW	8	10.3	11.6	17	19.2	11.6
	Quantity (Single)		kg	240	260	325	492	544	325
	Dimension	Width	mm	1403	1558	1558	1808	1808	1558
		High	mm	821	882	882	1090	1090	882
		Length	mm	980	1170	1170	1190	1190	1170
Refrigerant	Type	-	R407C						
	Charge	kg	4.5*2	5.1*2	6.2*2	8.0*2	9.5*2	6.2*4	
Connection Pipe	Connection		welding connection/oute bell connection			Welding connection			
	Liquid Pipe		Ømm	12.7*2	12.7*2	12.7*2	15.88*2	12.7*4	
	Gas Pipe		Ømm	19.05	19.05*2	22.22*2	28.6*2	28.6*2	22.2*4

Model	Indoor Unit	KZE	2114	2018	2121	2521	2121	2624
		KZS						
		KZW						
	Outdoor Unit	Model	KSA200B(R)2M	KSA250B(R)2M	KSA200B(R)2M	KSA250B(R)2M	KCA1050A(R)2X	KCA1067A(R)2X
		Q.ty	2	2	3	3	1	1
Rated Cooling Capacity		kW	96.9	118.5	144.4	176.5	173	221
Rated Heating Capacity (Heat Pump)		kW	104.5	122	152	182.5	225	256.5
Power Supply		-	380V/3N~/50Hz					
Indoor Unit	Air Flow	m³/h	20000	24000	30000	37500	30000	40000
	Temp Control Range	-	Cooling: 22-26°C., Heating: 18-22°C					
	Width	mm	2150	2050	2170	2570	2170	2670
	High	mm	1530	1930	2250	2250	2250	2550
	Length	mm	Depends on the actual modular amount					
Outdoor Unit	Compressor Type*Q.ty	-	Scroll*2				Screw *1	
	Cooling Input Power	kW	18.1	20.4	18.1	20.4	57	77.6
	Heating Input Power	kW	17	19.2	17	19.2	55.3	70.6
	Quantity (Single)	kg	492	544	492	544	2650	2650
	Width	mm	1808	1808	1808	1808	2400	2460
	High	mm	1090	1090	1090	1090	2235	2235
	Length	mm	1190	1190	1190	1190	2400	2400
Refrigerant	Type	-	R407C					
	Charge	kg	8.0*4	9.5*4	8.0*6	9.5*6	58	70
Connection Pipe	连接方式	-	Welding connection					
	Liquid Pipe	Ømm	15.88*4	15.88*4	15.88*6	15.88*6	34.9	34.9
	Gas Pipe	Ømm	28.6*4	28.6*4	28.6*6	28.6*6	66.68	66.68

Note:

- rated cooling capacity is tested under nominal air volume, internal dry/wet bulb temperature 27/19; external dry bulb 35.
- rated cooling capacity is tested under nominal air volume, internal dry bulb temperature 20 and external dry/wet bulb temperature 7/6.
- rated cooling capacity does not consider the fan motor heating loss, external static pressure can be made by the customer's requirements;
- the charge is for your reference, it depends on the piping length.

Flooded Type High Temperature Chiller



- Flooded type evaporimeter design, COP can improve 15%, achieve energy-saving and cost-reducing.
- Screw compressor has little running parts, perform reliably, low noise, long operating life.
- Screw compressor has no unbalance inertia force, and without liquid hammer problems, the unit can smooth running for long time.
- Screw compressor is well adapted to the variable working condition, in 25%~100% capacity range, it can operating smoothly not effected by exhaust back pressure.
- There is no surge problem for centrifugal machine, part load performance will be higher.

KCWF 1 080 G

Design version
Unit code
Compressor QTY
Flooded type high temperature chiller

Nominal working condition

Model/KCWF	1080G	1100G	1120G	1130G	1150G	1170G	1200G	1220G	1250G	1280G	1310G	1350G	1390G	2440G	2500G	2560G	2620G
Cooling capacity	kW	280	360	420	460	540	600	680	780	880	1000	1100	1220	1370	1560	1760	2000
	kcal/h	240800	309600	361200	395600	464400	516000	584800	670800	756800	860000	946000	1049200	1178200	1341600	1513600	1720000
Input power	kW	42.8	53.8	62.4	67.2	79.2	87.4	99.2	112	124.3	140.9	154.7	170.4	190.2	224	248.6	281.8
	kW	42.8	53.8	62.4	67.2	79.2	87.4	99.2	112	124.3	140.9	154.7	170.4	190.2	224	248.6	281.8
Rated current	A	73	91	106	114	134	149	169	190	211	239	263	289	323	380	422	478
	A	73	91	106	114	134	149	169	190	211	239	263	289	323	380	422	478
Power supply type		380V/3N~/50Hz															
Capacity regulating		25%~100%															
Compressor	Type	5-6 asymmetric serrated semi-hermetic screw compressor															
	Start up	Y-Δ															
Evaporator	Qty	Set	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2
	Set	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2
Condenser	Type	Flooded type high efficient heat exchanger															
	Water flow rate	m³/h	48.3	62.1	72.4	79.3	93.1	103.4	117.2	134.5	151.7	172.4	189.6	210.3	236.2	268.9	303.4
Evaporator	Pressure drop	kPa	80	80	80	80	80	80	80	60	60	60	60	60	40	40	40
	Connection pipe	DN	100	100	100	100	125	125	125	150	150	200	200	200	200	200	200
Condenser	Type	Horizontal shell and tube heat exchanger															
	Water flow rate	m³/h	56	71	83	91	107	118	134	153	173	196	216	239	268	307	345
Evaporator	Pressure drop	kPa	45	45	45	45	45	45	45	60	60	60	60	60	60	60	60
	Connection pipe	DN	100	125	125	150	150	150	150	200	200	200	200	200	200	250	250
Condenser	Type	R134a															
	Charge	kg	105	115	120	140	150	170	185	245	270	290	325	350	380	425	430
Evaporator	Length	mm	3100	3100	3100	3150	3050	3200	3200	3700	3700	3700	3700	3650	3650	4600	4650
	Width	mm	1100	1100	1100	1300	1300	1300	1300	1300	1500	1500	1650	1650	2000	2100	2100
Condenser	Height	mm	1750	1800	1800	2000	2000	2050	2050	2050	2050	2150	2150	2250	2250	2300	2300
	Weight	kg	2500	2650	2700	2950	3100	3300	3400	3800	3900	4550	4650	5300	5450	7050	8300
Evaporator	Operation weight	kg	2600	2750	2850	3100	3250	3450	3600	4050	4200	4900	5050	5700	5950	7600	9250
	Weight	kg	2600	2750	2850	3100	3250	3450	3600	4050	4200	4900	5050	5700	5950	7600	9250

Note:
1. The unit is designed, manufactured, tested according to GB/T18430.1-2007.
2. All the above cooling capacity is based on chilled water inlet/outlet temperature 23/18°C, cooling water inlet and outlet temperature 30/35°C.
3. For your detailed requirements please contact to Kingair, we will do our best to meet your needs.

Nominal cooling condition	Chilled water		Cooling water	
	Water inlet (°C)	Water outlet (°C)	Water inlet (°C)	Water outlet (°C)
	23	18	30	35
Safety operation range	Water outlet (°C)	Difference temperature between inlet and outlet (°C)	Water inlet (°C)	Difference temperature between inlet and outlet (°C)
	5~20	25~10	19~35	3.5~8

Precision Industrial Chiller



- Applies the most advanced high efficient scroll compressor, low noise, small vibration, comparing to the normal compressor, the EER is 5% higher.
- Applies enhanced heat transfer technology, strengthening the heat exchange efficiency of the evaporator and condenser, raising the evaporating temperature, and lowering the condensing temperature, enhancing the energy efficiency of the unit.
- Multiple protections such as water flow, antifreezing, low pressure and water temperature monitor etc. completely prevent the evaporator from frost cracking.
- Applies the quiet axial fan which conforms with the aerodynamics principle, quiet operation.
- Applies advanced microcomputer controller, achieving automatic, manual operation etc. multiple working mode.

KMS G1 12 A A N

Structure Type, Omitted - complete machine,
N-internal unit, W-external unit
Cooling type:W-water cooled, A-air cooled
Design version
Model code
Compressor Qty
Kingair industrial chiller

Water cooled industrial chiller

Model	KMSG103AW	KMSG105AW	KMSG107AW	KMSG110AW	KMSG112AW	KMSG215AW	KMSG220AW	KMSG224AW	KMSG330AW	KMSG336AW	KMSG440AW
Cooling capacity	kW	9.8	15	20.1	30.2	34.6	51.5	63.4	72.6	95.1	126.8
	kcal/h	8428	12900	17286	25972	29756	44290	54524	62436	81786	109048
Unit power	kW	2.8	4.0	4.9	6.9	8.0	11.5	14.2	16.3	22.1	28.8
	A	5.6	8.1	9.4	12.8	15.2	21.8	26.6	31.2	42.0	53.6
Power supply type		380V/3N~/50Hz									
Compressor	Type	R22									
	Flow control	External equalizer thermal expansion valve									
Evaporator	Type	Hermetic scroll									
	Power	2.3	3.5	4.3	6.4	7.2	10.4	12.7	14.5	19.1	25.8
Condenser	Current	4.4	6.9	8.2	11.6	13.6	19.4	23.3	27.2	35.0	46.6
	Qty	Set	1	1	1	1	2	2	2	3	4
Evaporator	Type	Water tank coil/Shell and tube heat exchanger									
	Water flow rate	m³/h	1.7	2.6	3.5	5.2	5.9	8.8	10.9	12.5	16.3
Condenser	Water pipe Dia	DN20	DN20	DN25	DN32	DN32	DN50	DN50	DN50	DN65	DN65
	Type	Shell and tube heat exchanger									
Evaporator	Water flow rate	m³/h	2.1	3.2	4.2	6.3	7.2	10.6	13.1	15.0	19.6
	Pressure drop	kPa	50	50	50	50	50	50	50	50	50
Condenser	Water pipe Dia	DN25	DN25	DN25	DN40	DN40	DN50	DN50	DN50	DN65	DN65
	Type	High efficient, low noise centrifugal water pump									
Evaporator	Power	kW	0.55	0.55	0.55	0.55	0.75	1.1	1.5	1.8	3
	Current	A	1.2	1.2	1.2	1.2	1.6	2.4	3.3	4	7
Condenser	ESP head of delivery	mH ₂ O	23	20	22	20	23	20	21	25	28
	Water tank capacity	L	120	120	160	260	260	300	360	360	360
Evaporator	Length(L)	mm	1150	1150	1350	1450	1450	1800	2050	2050	2300
	Width(W)	mm	650	650	650	800	800	1100	1100	1100	1100
Condenser	Height(H)	mm	1150	1150	1200	1450	1450	1550	1550	1600	1600
	Total unit	kg	150	220	310	400	400	650	750	1200	1350

Note:
1. All the above cooling capacity is based on chilled water inlet/outlet temperature 12/7°C, cooling water inlet/outlet temperature 30/35°C.
2. Suggested chilled water outlet temperature range: 5~20°C.
3. When the water inlet/outlet temperatures are different with the nominal, please correct according to page 9.
4. If the above are not in your need, we will design for your requirement.

Air cooled industrial chiller

Model		KMSG103AA	KMSG105AA	KMSG107AA	KMSG110AA	KMSG112AA	KMSG215AA	KMSG220AA	KMSG224AA	KMSG330AA	KMSG336AA	KMSG440AA	KMSG448AA
Cooling capacity	kW	8.6	13.7	18.1	28	31.5	45.8	57.8	65	86.8	97.6	115.8	130.1
	kcal/h	7396	11782	15566	24080	27090	39388	49708	55900	74648	83936	99588	111886
Unit power	kW	3.6	5.2	6.4	9.2	10.4	14.9	18.5	20.9	27.8	32.2	37.9	42.2
Unit current	A	7.0	10.1	12.1	17.2	19.7	27.7	33.8	38.9	51.1	60.6	70.7	79.3
Power supply		380V/3N~/50Hz											
Refrigerant	Type	R22											
	Flow control	External equalizer thermal expansion valve											
Compressor	Type	Hermetic scroll type											
	Power	kW	2.8	4.2	5.3	7.8	8.9	12.8	15.7	17.8	23.5	26.7	35.6
	Current	A	5.3	7.9	9.7	13.8	15.9	22.8	27.5	31.9	41.3	47.8	55.1
	QTY	Set	1	1	1	1	1	2	2	2	3	3	4
Evaporator	Type	Water tank coil/Shell and tube type											
	Water flow rate	m ³ /h	1.5	2.4	3.1	4.8	5.4	7.9	9.9	11.2	14.9	16.8	22.3
Condensing fan	Water pipe Dia	mm	DN20	DN20	DN25	DN32	DN32	DN50	DN50	DN65	DN65	DN65	DN65
	Power	kW	0.2	0.4	0.5	0.8	0.8	1	1.3	1.3	2.5	2.5	3.6
Condenser	Current	A	0.5	1	1.2	2.2	2.2	2.5	3	3	5.8	5.8	8.6
	Current	A	0.5	1	1.2	2.2	2.2	2.5	3	3	5.8	5.8	8.6
Condenser type	Efficient micro channel /Finned heat exchanger												
	Type	High efficient, low noise centrifugal water pump											
Condenser pump	Power	kW	0.55	0.55	0.55	0.55	0.75	1.1	1.5	1.8	1.8	3	3
	Current	A	1.2	1.2	1.2	1.2	1.6	2.4	3.3	4	4	7	7
Head of delivery	mH ₂ O	24	20	24	20	27	22	25	27	22	28	25	21
	Water tank capacity	L	120	120	160	260	260	300	360	360	360	500	500
Length(L)	mm	1100	1100	1500	1500	1500	2130	2130	2300	2300	2300	2300	2300
	Width(W)	mm	655	655	655	800	800	1100	1100	1200	1200	1420	1420
Height(H)	mm	1400	1400	1400	1700	1700	2200	2200	2200	2200	2500	2500	2500
	Weight	kg	140	210	300	450	450	700	850	1200	1200	1350	1350

Note:

1.All the above cooling capacity is based on chilled water inlet/outlet temperature 12/7°C, external temperature 35°C.

2.Suggested chilled water outlet temperature range: 5-20°C.

3.When the water inlet/outlet temperatures are different with the nominal, please correct according to page 10.

4.If the above are not in your need, we will design for your requirement.

Air cooled industrial chiller(Split-body type)

Model		Indoor unit	KMSG104AAAN	KMSG105AAAN	KMSG108AAAN	KMSG112AAAN	KMSG215AAAN	KMSG220AAAN	KMSG224AAAN
Cooling capacity	Outdoor unit	KMSG104AAAW	KMSG105AAAW	KMSG108AAAW	KMSG112AAAW	KMSG215AAAW	KMSG220AAAW	KMSG224AAAW	
	kW	10	12.5	22.5	28.9	43.8	55.3	62.2	
Unit power	kcal/h	8600	10750	19350	24854	37668	47558	53492	
	kW	4.4	5.2	8.3	10.4	14.9	18.5	20.6	
Unit current	A	8.7	10.1	15.6	19.7	27.7	33.8	38.2	
Power supply		380V/3N~/50Hz							
Refrigerant	Type	R22							
	Flow control	External equalizer thermal expansion valve							
Evaporator	Type	Water tank coil/Shell and tube type							
	Water flow rate	m ³ /h	1.7	2.1	3.9	5.0	7.5	9.5	10.7
Water pipe Dia	mm	DN20	DN20	DN25	DN25	DN50	DN50	DN50	DN50
	Type	High efficient, low noise centrifugal water pump							
Input power	Power	kW	0.55	0.55	0.55	0.75	1.1	1.5	1.5
	Current	A	1.2	1.2	1.2	1.6	2.4	3.3	3.3
Head of delivery	mH ₂ O	22	22	22	22	25	25	25	21
	Water tank capacity	L	120	120	260	360	360	360	360
Length(L)	mm	1200	1200	1350	1350	1500	1500	1500	1500
	Width(W)	mm	580	580	580	650	700	700	700
Height(H)	mm	900	900	900	1200	1200	1200	1200	1200
	Internal weight	kg	100	100	150	200	250	250	250
Compressor	Type	Hermetic scroll type							
	Power	kW	3.4	4.2	6.9	8.9	12.8	15.7	17.8
Current	A	6.5	7.9	12.2	15.9	22.8	27.5	31.9	
	QTY	Set	1	1	1	1	2	2	
Fan	Power	kW	0.4	0.4	0.8	0.8	1	1.3	1.3
	Current	A	1	1	2.2	2.2	2.5	3	3
Condenser type	Efficient micro channel /Finned heat exchanger								
	Type	High efficient, low noise centrifugal water pump							
Length(L)	mm	1200	1200	1400	1560	1560	1800	1800	
	Width(W)	mm	500	500	750	800	800	1100	1100
Height(H)	mm	900	900	980	1200	1200	1200	1200	
	External weight	kg	160	160	220	260	315	500	540
Connectin way	Bell mouth connection								
	Liquid pipe	mm (in)	9.52(3/8)	9.52(3/8)	15.88(5/8)	15.88(5/8)	21.5.88(5/8)	21.5.88(5/8)	
Gas pipe	mm (in)	19.05(3/4)	19.05(3/4)	28.6(1-1/8)	28.6(1-1/8)	22.8.6(1-1/8)	22.8.6(1-1/8)	22.8.6(1-1/8)	

Note:

1.All the above cooling capacity is based on chilled water inlet/outlet temperature 12/7°C, external temperature 35°C.

2.Suggested chilled water outlet temperature range: 5-20°C.

3.When the water inlet/outlet temperatures are different with the nominal, please correct according to page 10.

4.If the above are not in your need, we will design for your requirement.

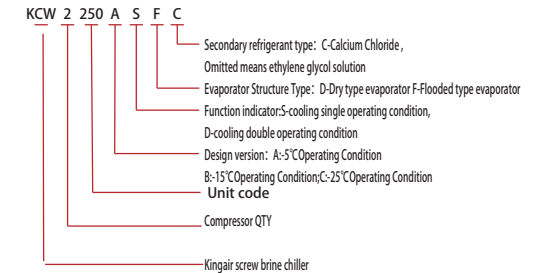
5.Cooling capacity is based on piping length which is between internal and external units 7 m, otherwise, actual cooling capacity will be down

6.Welding connection model has no refrigerant before delivery.

Screw Brine Chiller



- Applies low temperature screw compressor, operates stable and reliable, low noise, little vibration and high compression efficiency.
- Applies newest thin gear internal thread type efficient evaporation tube and needle like ream condenser pipe, heat transfer coefficient is 1.3 times of the general efficient tube.
- Unit applies Multi-safety protection, strong reliability.
- Microcomputer control, having several control function just like fault diagnosis, energy management, antifreeze monitoring, running mode etc. ensuring unit full blast.



A Series unit under nominal working condition

Model KCW		1016ASD	1022ASD	1030ASD	1032ASD	1040ASD	1042ASD	1050ASD	1060ASD	1063ASD	1070ASD	1080ASD	1086ASD	1095ASD	1102ASD	1105ASD	1125ASD	
Cooling capacity	Condition one	kW	58	78	102	111	136	149	175	203	220	242	288	304	333	360	374	436
	Condition two	kcal/h	49880	67080	87720	95460	116960	128140	150500	174580	189200	208120	247680	261440	286380	309600	321640	374960
	Condition one	kW	47	63	83	90	110	121	142	164	178	196	233	246	270	292	303	353
Input power	Condition two	kcal/h	40403	54335	71053	77323	94738	103793	121905	141410	153252	168577	200621	211766	231968	250776	260528	303718
	Condition one	kW	19.3	25.6	32.2	35.2	42.9	46.8	52.7	61	66.5	74	85.9	90.7	98.3	105.8	109.2	125.8
Rated current	Condition two	kW	18.7	24.8	31.2	34.1	41.6	45.4	51.1	59.2	64.5	71.8	83.3	88.0	95.4	102.6	105.9	122.0
	Condition one	A	32	43	54	59	72	79	89	103	112	124	144	153	165	178	184	211
Condition two	A	31	42	52	57	70	77	86	100	109	120	140	148	160	173	178	205	
Power supply type		380V/3N~/50Hz																
Capacity regulating		25%~100%																
Compressor	Type	5-6 asymmetric serrated semi-hermetic screw compressor																
	Start up	Y-Δ																
	Qty	Set	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Evaporator	Type	Dry type high efficient heat exchanger																
	Condition one	Liquid flow m3/h	11/11	15/15	19/20	21/22	25/27	28/30	33/35	38/40	41/43	45/48	54/57	57/60	62/66	67/71	70/74	82/86
	Condition two	Liquid flow m3/h	9/9	12/12	15/15	17/18	21/22	23/25	26/28	31/33	33/35	37/39	44/46	46/49	50/53	55/58	57/60	66/70
	Pressure drop kPa	55/68																
	Connection pipe DN	65	65	65	80	80	80	80	80	100	100	100	100	125	125	125	125	125
Condenser	Type	Shell and tube type																
	Condition one	Chilled water flow m3/h	13	18	23	25	31	34	39	45	49	54	64	68	74	80	83	97
	Condition two	Chilled water flow m3/h	11	15	20	21	26	29	33	39	42	46	55	58	63	68	71	82
	Pressure drop kPa	45	45	45	45	45	45	45	45	45	45	50	50	50	50	50	50	50
	Connection pipe DN	65	65	65	80	80	80	80	80	100	100	100	100	125	125	125	125	125
Refrigerant	Type	R22																
	Charge	Kg	17	23	31	33	41	45	53	61	66	73	86	91	100	108	112	131
	Length	mm	2850	2850	2850	2850	2850	2850	2850	2850	2850	2850	3100	3100	3100	3100	3100	3100
	Width	mm	1150	1150	1150	1260	1260	1260	1260	1360	1360	1360	1500	1500	1500	1500	1500	1560
	Height	mm	1400	1400	1400	1450	1450	1450	1450	1500	1500	1500	1500	1600	1600	1600	1600	1650
Size	Temperature withstand	Kg	1350	1400	1500	1650	1700	1750	1800	2300	2450	2500	2800	2950	3000	3250	3300	3650
	Operation withstand	Kg	1450	1500	1600	1800	1850	1900	1950	2450	2600	2650	3000	3150	3200	3450	3500	3850
Weight																		

A Series unit under nominal working condition

Model\KW		11AS3SD	11AS4SD	11AS6ASD	11BS4SF	120AS4SF	123AS4SF	127AS4SF	2033ASD	2044ASD	2058ASD	2063ASD	2077ASD	2085ASD	2100ASD	2115ASD		
Cooling capacity	Condition one	kW	479	511	576	644	722	832	965	116	156	204	222	272	298	350	406	
		kcal/h	4111940	4394660	4953600	5538400	6209200	7155200	8299000	9976000	13416000	17544000	19092000	23392000	25628000	30100000	34916000	
Input power	Condition two	kW	388	414	467	522	585	674	782	94	126	165	180	220	241	284	329	
		kcal/h	333671	355963	401242	448610	502945	579571	672219	80806	108670	142106	154645	189475	207587	243810	282820	
Rated current	Condition one	kW	139.6	148.2	166.7	185.6	207.3	233.5	269.5	38.6	51.3	64.3	70.5	85.8	93.5	105.4	121.9	
		kW	135.4	143.8	161.7	180.0	201.1	226.5	261.4	37.4	49.8	62.4	68.4	83.2	90.7	102.2	118.2	
Rated current	Condition one	A	235	249	280	320	356	397	461	65	86	108	119	144	157	177	205	
		A	228	242	272	310	345	385	447	63	83	105	115	140	152	172	199	
Power supply type		380V/3N~/50Hz																
Capacity regulating		25%~100%										12.5%~100%						
Compressor	Type	5-6 asymmetric serrated semi-hermetic screw compressor																
	Start up	Y-Δ																
	Qty	Set	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	
	Type	Dry type high efficient heat exchanger	Flooded type high efficient heat exchanger										Dry type high efficient heat exchanger					
	Condition one	Liquid flow m3/h	90/94	96/101	108/114	121/127	135/142	156/164	181/190	22/23	29/31	38/40	41/43	51/57	56/59	65/69	76/80	
	Condition two	Liquid flow m3/h	73/77	77/81	87/91	98/103	109/115	126/132	146/154	18/19	24/26	31/33	34/36	41/43	45/48	53/56	61/65	
Evaporator	Pressure drop kPa	55/68																
	Connection pipe DN	125	150	150	150	150	150	200	200	80	80	100	100	100	125	125	125	
	Type	Shell and tube type																
	Condition one	Chilled water flow m3/h	106	113	128	144	161	185	214	27	36	46	50	62	67	78	91	
	Condition two	Chilled water flow m3/h	90	96	109	122	137	157	182	23	30	39	43	52	57	67	77	
	Pressure drop kPa	50	50	50	55	55	55	55	55	55	55	55	55	55	55	55	55	
Condenser	Connection pipe DN	125	150	150	150	150	200	200	80	80	100	100	100	125	125	125	125	
	Type	Shell and tube type																
	Condition one	Chilled water flow m3/h	106	113	128	144	161	185	214	27	36	46	50	62	67	78	91	
	Condition two	Chilled water flow m3/h	90	96	109	122	137	157	182	23	30	39	43	52	57	67	77	
R22	Pressure drop kPa	50	50	50	55	55	55	55	55	55	55	55	55	55	55	55	55	
	Connection pipe DN	125	150	150	150	150	200	200	80	80	100	100	100	125	125	125	125	
	Type	R22																
	Charge	Kg	144	153	173	193	217	250	290	35	47	61	67	82	89	105	122	
Size	Length	mm	3100	3100	3100	3400	3400	3500	3500	4250	4250	4250	4250	4250	4250	4250	4250	
	Width	mm	1560	1650	1650	2000	2000	2200	2200	1360	1360	1360	1360	1460	1460	1460	1460	
	Height	mm	1650	1750	1750	2300	2300	2400	2400	1750	1750	1750	1750	1750	1850	1850	1850	
Weight	Transportation weight(kg)	Kg	3800	4100	4200	5500	5800	6500	6800	2700	2800	3000	3300	3400	3500	3600	4600	
	Operation weight(kg)	Kg	4000	4400	4500	5800	6100	6800	7100	2900	3000	3200	3600	3700	3800	3900	4900	

	Model		KCW	212AS4S	218A4S	216AA4S	2173A4S	2190AFS	220SAFS	2210KFS	2250SAF	227ZASF	229OASF	233OASF	237OASF	241OASF	247OASF	255OASF
Cooling capacity	Condition one	kW	440	484	576	608	666	720	748	872	958	1022	1152	1288	1444	1664	1930	
		kcal/h	378400	416240	495360	522880	572760	619200	643280	749290	823880	879920	990720	1107680	1241840	1431040	1659800	
		kW	356	392	467	492	539	583	606	706	776	828	933	1043	1170	1348	1563	
Input power	Condition one	kW	133.1	148	171.8	181.4	196.6	211.6	218.3	251.5	279.2	296.4	333.3	371.4	415.4	466.9	538.9	
		kW	129.1	143.6	166.6	176.0	190.7	205.3	211.8	244.0	270.8	287.5	323.3	360.0	402.1	452.9	522.7	
		kW	224	249	289	305	330	356	367	423	469	498	560	641	713	795	922	
Rated current	Condition two	A	217	242	280	296	320	345	356	410	455	483	543	622	692	771	894	
		380V/3N~/50Hz																
		12.5%~100%																
Compressor	Capacity regulating		5-6 asymmetric serrated semi-hemetic screw compressor															
	Type	Y-Δ																
	Start up																	
Evaporator	Qty	Set	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Type	Dry type high efficient heat exchanger								Flooded type high efficient heat exchanger								
	Condition one	Liquid flow m ³ /h	82/86	90/94	108/114	114/120	125/131	135/142	140/148	163/172	179/189	191/202	216/227	241/254	270/285	311/328	361/384	
	Condition two	Liquid flow m ³ /h	67/71	73/77	87/91	92/96	101/106	109/115	113/119	132/139	145/153	155/163	174/183	195/206	219/230	252/265	292/304	
	Pressure drop kPa		72/88															
	Connection pipe DN		125	125	150	150	150	150	150	200	200	200	200	200	200	200	250	
Condenser	Type	Shell and tube type																
	Condition one	Oil/water flow rate t/h	99	109	129	136	148	160	166	193	213	227	255	287	322	369	428	
	Condition two	Oil/water flow rate t/h	84	92	109	115	126	136	141	164	181	193	217	244	274	314	364	
	Pressure drop kPa		55	55	55	55	55	55	55	55	55	55	55	65	65	65	65	
Refrigerant	Connection pipe DN		125	125	150	150	150	150	150	200	200	200	200	200	200	250	250	
	Type	R22																
	Charge	Kg	132	145	173	182	205	216	220	255	287	290	320	380	420	480	560	
Size	Length	mm	4250	4250	4550	4550	4550	4550	4550	4550	4550	4550	4550	6000	6000	6000	6000	
	Width	mm	1460	1460	1600	1600	1600	1600	1600	1600	1650	1700	1700	2000	2000	2200	2200	
	Height	mm	1850	1850	1950	1950	1950	1950	1950	2050	2150	2150	2150	2400	2500	2500	2600	
Weight	Transportation weight about	Kg	4800	4900	5000	5100	5200	5400	5500	6000	6600	6700	7000	10500	11000	12500	13000	
	Operation weight about	Kg	5100	5200	5300	5400	5500	5700	5800	6300	6900	7000	7300	11000	11500	13000	13500	

Note :

1. All the units that listed in the form cool capacity are based on evaporator inlet and outlet liquid temperature 0/5℃, condenser inlet/ outlet water temperature 30/35℃.
2. Unit refrigeration side applies ethylene glycol solution which mass concentration is 28% or calcium chloride solution which mass concentration is 20% for secondary refrigerant.
3. In the form of evaporator, before “/” the parameter is applying ethylene glycol solution, and after is applying calcium chloride solution.
4. Please contact Kingair for detailed unit selection; we will try our best to meet actual customers need.

B Series unit under nominal working condition

Model KCW			1012BS	1017BS	1022BS	1024BS	1030BS	1032BS	1038BS	1045BS	1047BS	1052BS	1062BS	1065BS	1072BS	1078BS	1081BS	1094BS	
Cooling capacity	Condition one	kW	43	60	77	84	103	113	133	154	166	183	218	230	252	273	283	330	
		kcal/h	36980	51600	66220	72240	88580	97180	114380	132440	142760	157380	187480	197800	216720	234780	243380	283800	
	Condition two	kW	34	48	62	67	82	90	106	123	133	146	174	184	202	218	226	264	
		kcal/h	29584	41280	52976	57792	70864	77744	91504	105952	114208	125904	149984	158240	173376	187824	194704	227040	
Input power	Condition one	kW	20.7	27.1	33.9	37.2	45.2	49.2	55.1	63.8	69.7	77.6	89.9	95	102.8	110.6	114.1	131.3	
	Condition two	kW	20.5	26.8	33.6	36.8	44.7	48.7	54.5	63.2	69.0	76.8	89.0	94.1	101.8	109.5	113.0	130.0	
Rated current	Condition one	A	35	45	57	62	76	83	93	107	117	130	151	160	173	186	192	221	
	Condition two	A	34.7	44.6	56	61	75	82	92	106	116	129	149	158	171	184	190	219	
Capacity regulating	380V/3N~/50Hz																		
	25%~100%																		
	Type	5-6 asymmetric serrated semi-hermetic screw compressor																	
	Y-Δ																		
	Start up																		
	Qty	Set	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Evaporator	Type	Dry type high efficient heat exchanger																	
	Condition one	Liquid flow m³/h	8/8	12/12	15/16	16/17	20/21	22/23	26/27	30/31	33/34	36/37	43/44	45/47	49/51	54/57	55/57	65/67	
	Condition two	Liquid flow m³/h	7/7	9/9	12/12	13/13	16/17	18/19	21/22	24/25	26/27	29/30	34/35	36/37	40/41	43/44	44/45	52/54	
	Pressure drop kPa	55/68																	
Connection pipe DN	65	65	65	80	80	80	80	100	100	100	100	125	125	125	125	125	125		
Condenser	Type	Shell and tube type																	
	Condition one	Chilled water flow rate m³/h	11	15	19	21	25	28	32	37	41	45	53	56	61	66	68	79	
	Condition two	Chilled water flow m³/h	9	13	16	18	22	24	28	32	35	39	46	48	52	57	59	68	
	Pressure drop kPa	45	45	45	45	45	45	45	45	45	45	50	50	50	50	50	50	50	
Connection pipe DN	65	65	65	80	80	80	80	100	100	100	100	125	125	125	125	125	125		
Refrigerant	Type	R22																	
	Charge	Kg	17	23	31	33	41	45	53	61	66	73	86	91	100	108	112	131	
	Length	mm	2850	2850	2850	2850	2850	2850	2850	2850	2850	2850	3100	3100	3100	3100	3100	3100	
	Width	mm	1150	1150	1150	1260	1260	1260	1260	1360	1360	1360	1360	1500	1500	1500	1500	1560	
Size	Height	mm	1400	1400	1400	1450	1450	1450	1450	1500	1500	1500	1500	1600	1600	1600	1600	1650	
	Temperature weight(kg)	Kg	1400	1450	1550	1700	1750	1800	1850	2350	2500	2550	2850	3000	3050	3300	3350	3700	
	Operation weight(kg)	Kg	1500	1550	1650	1850	1900	1950	2000	2500	2650	2700	3000	3200	3250	3500	3550	3900	

Model KCW		11038SD	11108SD	11248SD	11388SD	1158SD	11808SD	12078SD	20258SD	20348SD	20448SD	20488SD	20588SD	20648SD	20768SD	20878SD	
Cooling capacity	Condition one	kW	362	387	436	486	546	629	729	86	120	155	168	205	225	266	307
	Condition two	kcal/h	311320	332820	374960	417960	469560	540940	626940	73960	103200	133300	144480	176300	193500	228760	264020
Input power	Condition one	kW	290	310	349	389	437	503	583	69	96	124	134	164	180	213	246
	Condition two	kcal/h	249056	266256	299968	334368	375648	432752	501252	59168	82360	106640	115584	141040	154800	183008	211216
Rated current	Condition one	kA	144.3	153.2	172.2	190.1	211.9	238.6	275.2	40.6	53.5	67.3	73.3	89.1	97.0	108.9	126.7
	Condition two	A	245	260	292	331	368	410	475	69	91	114	125	152	165	185	215
Power supply type	Capacity regulating	25%~100%								380V/3N~/50Hz							
	Power supply regulating	25%~100%								12.5%~100%							
Compressor	Type	5-6 asymmetric serrated semi-hermetic screw compressor															
	Start up	Y-Δ															
	Qty	Set	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2
Evaporator	Type	Dry type high efficient heat exchanger								Flooded type high efficient heat exchanger							
	Condition one	Liquid water flow m3/h	71/73	76/79	85/89	98/101	110/114	126/131	147/153	17/18	24/26	30/32	33/35	40/42	44/47	52/55	60/63
	Condition two	Liquid water flow m3/h	57/59	61/63	68/70	76/79	86/90	99/102	114/118	13/13	19/20	24/26	26/27	32/34	35/37	42/44	48/50
Condenser	Pressure drop kPa	55/68															
	Connection pipe DN	125	150	150	150	150	150	150	80	80	80	100	100	100	100	125	
	Type	Shell and tube type															
	Condition one	Outlet water flow rate t/h	87	93	105	120	134	154	178	22	30	38	42	51	56	65	75
	Condition two	Outlet water flow rate t/h	75	80	90	103	115	132	153	19	26	33	36	44	48	56	64
Refrigerant	Pressure drop kPa	50	50	50	65	65	65	65	65	65	65	65	65	65	65	65	65
	Connection pipe DN	125	150	150	150	150	150	150	80	80	80	100	100	100	100	125	
	Type	R22															
Size	Charge	Kg	144	153	173	193	217	250	290	26	36	47	50	62	68	80	92
	Length	mm	3100	3100	3100	3400	3400	3500	3500	4250	4250	4250	4250	4250	4250	4250	4250
	Width	mm	1560	1650	1650	2000	2000	2100	2200	1360	1360	1360	1360	1360	1360	1460	1460
Weight	Height	mm	1650	1750	1750	2400	2400	2500	2500	1750	1750	1750	1750	1750	1800	1800	1800
	Transportation weight(kg)	Kg	3850	4150	4250	5600	5900	6600	6900	2700	2800	3000	3300	3400	3500	3600	4600
	Operation weight(kg)	Kg	4050	4450	4550	5900	6200	6900	7200	2900	3000	3200	3600	3700	3800	3900	4900

Note

- Note:
1. All the units* listed in the for/cooling capacity are based on evaporator inlet and outlet liquid temperature -10/-15°C, condenser inlet/outlet water temperature 30/35°C.
 2. Unit refrigeration still applies ethylene glycol solution, which mass concentration is38% or calcium chloride solution, which mass concentration is26% for secondary refrigerant.
 3. In the form of evaporator, before “-” the parameter is applying ethylene glycol solution, and after is applying calcium chloride solution..
 4. Please contact Kinair for detailed unit selection; we will try our best to meet actual customers need.

Note:

1. All the units' that listed in the form cooling capacity are based on cooling water inlet/outlet temperature 30/35°C;
- Condition one: chilled water inlet/outlet temperature -20/-25°C; Condition two: chilled water inlet/outlet temperature 25/-30°C. .
2. Unit refrigeration side applies ethylene glycol solution which mass concentration is 48% or calcium chloride solution which mass concentration is 29% for secondary refrigerant.
3. In the form of evaporimeter, before "f" the parameter is applying ethylene glycol solution, and after is applying calcium chloride solution.
4. Please contact Kingair for detailed unit selection; we will try our best to meet actual customers need.

Unitary Package Air Conditioner (Air Cooled)



- Unit exquisite, appearance and easy to agree with the environment
- Applied with hermetic compressor , lower noise and vibration .
- Applied with DANFOSS EMERSON etc. parts as system component , accuracy and excellent quality
- Evaporator coil from high purer groove seamless copper tube with aluminium split fin , heat transfer ratio than normal
- PLC control ,with several model :Fault diagnosis energy management operation management, and other functions, ensure the smooth operation

- Outdoor Unit

KSA 100 B R P 2

- Refrigerant: 1-R134A,2-R407C,3-R410A,Omitted- R22

P-Assemble with air cooled package unit,
M-Several units (2 or more than 2 nos.)

- R-Heat pump, Omitted-Cooling only

- Design version

- Unit cooling capacity

- Indoor Unit

KPA 100 B R D 2-F

- Air discharge direction :F-Front return/top supply

B-Back return /top supply,C-Front return/side supply

- Refrigerant: 1-R134A,2-R407C,3-R410A,Omitted- R22

- Auxiliary function:D-Elec. heater,W

- R-Heat pump, Omitted-Cooling only

- Design version

- Unit cooling
- Unit Model

Air Cooled (Electrical Heater) Package Unit Performance

Item		Model	Indoor Unit	KDD0508P	KDD0508RP	KDD0608P	KDD0608RP	KDD0758P	KDD0758RP	KPA100B	KPA100BR	KPA125B	KPA125BR	KPA150B	KPA150BR	
			Outdoor Unit	KSA0508D	KSA0508RD	KSA0608D	KSA0608RD	KSA0758D	KSA0758RD	KSA100BP	KSA100BRP	KSA125BP	KSA125BRP	KSA150BP	KSA150BRP	
R22	R407C	Rated Cooling Capacity	kW	12		14		20		25.5		30		37		
		Rated Heating Capacity	kW	--	13	--	16	--	21	--	28	--	34	--	41	
Rated Cooling Capacity		kW	11.5		13.5		18.5		25		28.5		35			
Rated Heating Capacity		kW	--	12.5	--	15	--	20	--	27	--	31	--	39		
Power Supply			380V/3N/5Hz						380V/3N/50Hz							
Total Input Power		Cooling	kW	4.9		5.6		7.8		9.9		11.9		14.2		
		Heating	kW	--	4.65	--	5.4	--	7.8	--	9.65	--	11.6	--	13.8	
Total Current		Cooling	A	8.5		9.7		16.5		21.8		25.6		27.8		
		Heating	A	--	8.2	--	9.4	--	16.5	--	21.3	--	24.8	--	27.7	
Indoor Unit	External Static	Air Flow		CMH	2500		2800		4200		5000		6000		8000	
		Top	Pa	120		150		150		150		150		150		150
		Side	Pa	0		0		0		0		0		0		0
	Fan	Type		Low Noises Double intake centrifugal Blower						Low Noises Double intake centrifugal Blower						
		Driven Type		3-Speeds driven/ Belt drive						3-Speeds driven/ Belt drive						
		Motor Power		kW	0.375		0.55		1.1		1.5		1.5		2.2	
		W*D		mm	780*500		780*500		1250*500		1250*500		1480*500		1480*500	
		H(Top)		mm	1600		1600		1600		1600		1600		1600	
	Dimension	H(Side)		mm	1800		1800		1800		1800		1800		1800	
		Condense water pipe Dia.			R3/4						R1					
Outdoor Unit	Air Filter		Washable Nylon Filter						Washable Nylon Filter							
	Noise	Top	dB(A)	≤56		≤57		≤60		≤61		≤62		≤63		
		Side	dB(A)	≤56		≤56		≤59		≤60		≤61		≤63		
	Weigh		kg	90		108		155		180		245		270		
	Compressor			Hermetic scroll compressor						Hermetic scroll compressor						
Refrigerant	Dimension W*D*H		mm	940*400*1243			940*400*1243			1403*821*980			1560*880*1170			
	Weigh		kg	120	120	120	120	215	223	232	240	252	260	305	315	
Pipe Connection	Liquid		R22						R22							
	Control		Capillary / expansion valve						Capillary / expansion valve							
	Connect type		Horn						Horn							
	Welding															
Pipe Connection	Liquid		mm(in)	9.52 (3/8)		9.52 (3/8)		212.7 (1/2)		212.7 (1/2)		212.7 (1/2)		212.7(1/2)		
	Gas		mm(in)	19.05 (3/4)		19.05 (3/4)		219.05 (3/4)		219.05 (3/4)		219.05 (3/4)		219.05 (3/4)		

Note:

- 1.All unit basing on GB/T17758-1999 Standard.
- 2.Cooling/heating capacity basing on 7.5m pipe connected outdoor and indoor unit.high fall 0 m.
- 3.Noise increased according to external static pressure rise.
- 4.Air flow is at high speed with 3 speeds .
- 5.Without refrigerant from KPA150 to up ,need charged at site
- 6.All for refer only ,contact with Kingair if need to do selection

Unitary Package Air Conditioner (Air Cooled)

Air Cooled (Electrical Heater) Package Unit Performance

Item		Model				KPA200B		KPA200BR		KPA250B		KPA250BR		KPA300B		KPA300BR
						KSA200BP		KSA200BRP		KSA250BP		KSA250BRP		2*KSA150BM		2*KSA150BRM
R22		Rated Cooling Capacity		kW				52				62				74
		Rated Heating Capacity		kW		--	--	58		--	--	68		--	--	82
R407C		Rated Cooling Capacity		kW				50				58				70
		Rated Heating Capacity		kW		--	--	55		--	--	63		--	--	78
Power Supply						380V/3N/50Hz										
Total Input Power		Cooling	kW					20				23.8				29.7
		Heating	kW			--	--	18.8		--	--	23.4		--	--	28.9
Total Current		Cooling	A					40.2				48.2				56.1
		Heating	A			--	--	38.9		--	--	47.4		--	--	55.1
Indoor Unit	Air Flow		CMH					10000				12000				15000
	External Static	Top	Po					150				200				200
		Side	Po					0				0				0
	Fan	Type			Low Noies Duoble intake centrifugal Blower											
		Driven Type			Belt drive											
	Dimension	Motor Power	kW					2.2				4				5.5
		W*D	mm					1580*700				1580*700				1850*880
		H(Top)	mm					1900				1900				1900
		H(Side)	mm					2200				2200				--
	Condense Water Pipe Dia.															R1
	Air Filter				Washable Nylon Filter											
	Noise	Top	dB(A)					≤65				≤65				≤68
		Side	dB(A)					≤64				≤64				≤66
	Weigh		kg					310				380				420
Outdoor Unit	Compressor				Hermetic scroll compressor								Hermetic scroll compressor			
	Dimension W*D*H	mm					1810*1090*1190				1810*1090*1190				1560*880*1170	
Refrigerant	Weigh		kg					480				492				532
	Liquid Control				R22											
	Pipe				expansion valve											
Connection	Connect type				Welding											
	Liquid	mm(in)					2*15.88 (5/8)				2*15.88 (5/8)				4*12.7(1/2)	
Gas		mm(in)					2*28.6 (1-1/8)				2*28.6 (1-1/8)				4*22.22(7/8)	

Item		Model		KPA400B		KPA400BR		KPA500B		KPA500BR	
				2"KSA200BM		2"KSA200BRM		2"KSA250BM		2"KSA250BRM	
R22	Rated Cooling Capacity	kW	105		115		--		124		
	Rater Heating Capacity	kW	--		--		--		135		
R407C	Rated Cooling Capacity	kW	100		110		--		116		
	Rated Heating Capacity	kW	--		110		--		126		
Power Supply			60		--		60		--		
Total Input Power		Cooling	kW	41						49	
		Heating	kW	--		39		--		48	
Total Current		Cooling	A	81.8						97.8	
		Heating	A	--		78.2		--		96	
Indoor Unit	Air Flow		CMH	20000						24000	
	External Static	Top	Pa	200						250	
		Side	Pa	0						0	
	Fan	Type	Low Noises Double Intake Centrifugal Blower								
		Driven Type	Belt Driven								
	Dimension	Motor Power	kW	5.5						7.5	
		W*D	mm	1850*1500						1850*1500	
		H(Top)	mm	1900						1900	
		H(Side)	mm	--						--	
	Condense water pipe Dia.			R1-1/4							
Outdoor Unit	Air Filter		Washable Nylon Filter								
	Noise	Top	dB(A)	≤73						≤73	
		Side	dB(A)	≤72						≤72	
	Weigh	kg	460						460		
	Compressor	Hermetic Scroll Compressor									
Dimension	W*D*H	mm	1810*1090*1190						1810*1090*1190		
Refrigerant	Weigh	kg	2'480		2'492		2'532		2'544		
	Liquid Control	R22									
	Expansion Valve		R22								
Pipe Connection	Connect type	Welding									
	Liquid	mm(in)	4"15.88 (5/8)						4"15.88 (5/8)		
	Gas	mm(in)	4"28.6 (1-1/8)						4"28.6 (1-1/8)		

Note:

1. All unit based on GB/T17758-1999 Standard.
2. Cooling/heating capacity based on 7.5m pipe connected outdoor and indoor unit, high fall 0 m.
3. Noise increased according to external static pressure rise.
4. Air flow is at high speed with 3 speeds .
5. Without refrigerant from KPA150 to up, need charged at site

Unitary Package Air Conditioner (Water Cooled)



- Evaporator uses high purity inner groove copper tube and hydrophilic aluminum slit fin, heat transfer coefficient is 67% higher than normal evaporator.
- Uses the latest fully hermetic compressor, low noise level and small vibration.
- Uses forward curved centrifugal double inlet impeller wheel, impeller wheel has undergone balancing inspection and with is silent and less vibration during long operating hours, thus ensuring high air discharge efficiency.
- Refrigeration system control component Uses SPORLAN, wellknown brand with consistent quality.
- Uses nylon filter net, easy assemble and disassemble, can be detach for cleaning.

Indoor Unit

KPW 035 A D 2 - F

- Discharge Direct:F-Front return/top discharge
- B-Back return/top discharge,C-front return/front discharge .
- Refrigerant 1-R134R , 2-R407C , 3-R410A , Omitted-R22 .
- D-Electrical heater , W-Hot water heater .
- Disign version .
- Unit capacity .
- Unit Model

Water Cooled Conditioner Peformance (Electric Heater)

Item	Model		KPW030A	KPW035A	KPW055A	KPW070A	KPW085A	KPW100A	KPW125A	KPW135A	KPW160B	KPW205A	
	Data												
Unit characteristic	Cooling Capacity	kW	25	32	52	65	82	96	118	128	155	199	
	Electric Heater (Option)	kW	9	12	20	27	35	40	50	50	58	60	
	Circle Air Flow	m³/h	4100	5500	8600	12000	15000	18000	21000	23000	27000	32000	
	External Static	Pa	80(0)	80(0)	100(0)	100(0)	150	200	200	200	300	350	
	Unit Noise	dB(A)	58(56)	60(59)	63(62)	66(65)	69	71	72	73	74	76	
	Power Supply		380V/3N~50Hz										
	Unit Input Power	kW	6.1(5.9)	7.6(7.6)	12.5(12)	15.9(15)	20.6	23.9	29.8	32.4	39	50	
	Refrigerant	Liquid		R22									
		Control		Vasa capillare									
		Charge	kg	1.5*2	1.9*2	1.9*3	4*2	4.5*2	4*3	4.1*3	4*4	4.1*4	4.1*5
Cooling System	Compressor	Type	Hermetic Scroll Copressor										
		Quantity	Unit	2	2	3	2	2	3	3	4	4	5
	Evaporator	Type	Copper Tube / Aluminium Slit Fin										
		Type		High efficient Coaxial drivepipe					Shell type exchange				
	Condenser	Water Flow	m³/h	8	6.7	11	13.8	17	20	25.2	26.6	31.8	39.6
		Water Pressure	kPa	26	28	36	38	42	35	42	40	46	50
		Inlet/Outlet Pipe (Rc)		1-1/2	1-1/2	2	2	2	2-1/2	2-1/2	2-1/2	3	3
	Fan	Type	Lower Noise Double Intake Centrifugal Blower										
		Driven Method		Beltdrive									
		Motor Power	kW	0.75(0.55)	1.1(1.1)	2.2(1.5)	3.0(2.2)	5.5	5.5	7.5	7.5	7.5	15
Type			Nylon Washable Air Filter										
Size		mm	610*655	610*655	915*805	915*805	600*700	600*600	600*676	600*754	600*754	550*754	
Air Filter	Quantity	Unit	2	2	2	2	4	6	6	6	6	8	
	PLC controller												
Controller													
Dimension	Electric Heater Power	kW	9	12	20	27	35	40	50	50	58	60	
	W	mm	1480	1480	1780	1780	1780	2050	2050	2050	2590	2770	
	L	mm	550	550	800	800	1200	1200	1200	1200	1200	1200	
	H	mm	1900	1900	2100	2100	1670	1920	1920	1920	1920	1920	
Unit Weigh		kg	300	340	690	750	950	1500	1550	1600	1800	1900	

- Note:
- 1,All performance basing on China standard GB/T 17758-1999 .
 - 2,Cooling capacity not including motor heating .
 - 3,Top discharge without Electric heater is standard unit ,Electric heater and side discharge is option .
 - 4,The data in bracket suitable to direct blow unit
 - 5,All for refer only ,please contact Kingair company.

Unitary Package Air Conditioner (Water Cooled)

Water Cooled Conditioner Performace (Electric Heater) 407C

Item	Model													
	Data		KPW030AD2	KPW035AD2	KPW055AD2	KPW070AD2	KPW085AD2	KPW100AD2	KPW125AD2	KPW135AD2	KPW160BD2	KPW205AD2		
Unit Characteristic	Cooling Capacity	kW	24.5	31	50	63	78	92	113	123	150	190		
	Electric Heater Option	kW	9	12	20	27	35	40	50	50	58	60		
	Circle Air Flow	m³/h	4100	5500	8600	12000	15000	18000	21000	23000	27000	32000		
	External Static	Pa	80 (0)	80 (0)	100 (0)	100 (0)	150	200	200	300	300	350		
	Unit Noise	dB(A)	58 (56)	60 (59)	63 (62)	66 (65)	69	71	72	73	74	76		
	Power Supply		380V/3N~/50Hz											
	Unit Input Power	kW	6.4 (6.2)	8.0 (8.0)	13.2 (12)	16.7 (15.8)	21.1	24.5	30.4	33.6	40.5	51.5		
	Refrigerant	Liquid	R407C											
		Control	Vasa capillare											
		Charge	kg	1.5*2	1.9*2	1.9*3	4*2	4.5*2	4*3	4.1*3	4*4	4.1*4	4.1*5	
Compressor	Type	Hermetic Scroll Copressor												
	Quantity	Unit	2	2	3	2	2	3	3	4	4	5		
Evaporator	Type	Copper Tube / Aluminium Slit Fin												
	Type	High efficient Coaxial drivepipe					Shell type exchange							
Condenser	Water Flow	m³/h	5.2	6.5	10.6	13.3	16.7	19.6	24.1	26.1	31.6	40.6		
	Water Pressure	kPa	25	27	34	36	40	42	45	47	49	50		
	Inlet/Outlet Pipe (Rc)		1-1/2	1-1/2	2	2	2	2-1/2	2-1/2	2-1/2	3	3		
Supply Fan System	Fan	Type	Lower Noise Double Intake Centrifugal Blower											
		Driven Method	Beltdrive											
		Motor Power	kW	0.75(0.55)	1.1 (1.1)	2.2 (1.5)	3.0 (2.2)	5.5	5.5	7.5	7.5	7.5	15	
	Air Filter	Type	Nylon Washable Air Filter											
		Size	mm	610*655	610*655	915*805	915*805	600*700	600*600	600*676	600*754	600*754	550*754	
		Quantity	Unit	2	2	2	2	4	6	6	6	6	8	
Controller		PLC controller												
Dimension	Electric Heater Power	kW		12	20	27	35	40	50	50	58	60		
	W	mm	1480	1480	1780	1780	1780	2050	2050	2050	2590	2770		
	L	mm	550	550	800	800	1200	1200	1200	1200	1200	1200		
	H	mm	1900(2040)	1900(2040)	2100(2400)	2100(2400)	1670	1920	1920	1920	1920	1920		
Unit Weight		kg	300	340	690	750	950	1500	1550	1600	1800	1900		

- Note:
- 1,All performance basing on China standard GB/T 17758-1999 .
 - 2,Cooling capacity not including motor heating .
 - 3,Top discharge without Electric heater is standard unit ,Electric heater and side discharge is option .
 - 4,The data in bracket suitable to direct blow unit
 - 5,All for reference only ,please contact Kingair company for detail.

Top Discharge Unit Dimension

Model	A	B	C	D	E	F	G	H	I	J	K	L	1	2
KPW030A(D)-A-BAB	1900	1480	550	266	40	350	844	180	110	168	180	275	Rc1 -1/2	Rc1 -1/2
KPW035A(D)-A-BAB	1900	1480	550	266	40	390	844	180	110	168	180	275	Rc1 -1/2	Rc1 -1/2
KPW055A(D)-A-BAB	2100	1780	800	293	229	470	930	180	124	240	200	400	Rc2	Rc2
KPW070A(D)-A-BAB	2100	1780	800	345	184	438	1118	180	124	240	200	400	Rc2	Rc2
KPW085A(D)-A-BAB	1670	1760	1200	345	584	459	1138	180	124	240	550	600	Rc2	Rc2
KPW100A(D)-A-BAB	1920	2030	1200	408	495	557	1330	180	124	250	490	600	Rc2-1/2	Rc2-1/2
KPW125A(D)-A-BAB	1920	2030	1200	408	495	557	1330	180	124	250	490	600	Rc2-1/2	Rc2-1/2
KPW135A(D)-A-BAB	1920	2030	1200	408	495	557	1330	180	124	250	490	600	Rc2-1/2	Rc2-1/2
KPW160B(D)-A-BAB	1920	2570	1200	482	495	557	1576	180	124	250	490	650	Rc3	Rc3
KPW205A(D)-A-BAB	1920	2750	1200	482	495	557	1576	180	124	250	490	650	Rc3	Rc3

Side Discharge Unit Dimension

Model	A	B	C	D	E	F	G	I	2
KPW030A(D)-A-BAB	2040	1460	275	110	180	168	550	Rc1-1/2	Rc1-1/2
KPW035A(D)-A-BAB	2040	1460	275	110	180	168	550	Rc1-1/2	Rc1-1/2
KPW055A(D)-A-BAB	2400	1760	400	124	200	240	800	Rc1-1/2	Rc2
KPW070A(D)-A-BAB	2400	1760	400	124	200	240	800	Rc1-1/2	Rc2

Duct Design

