

Air Cooled Water Chiller And Heat pump

Product Display



Low Temperature Modular Type Air Cooled Water Chiller And Heat pump

Product Characteristic

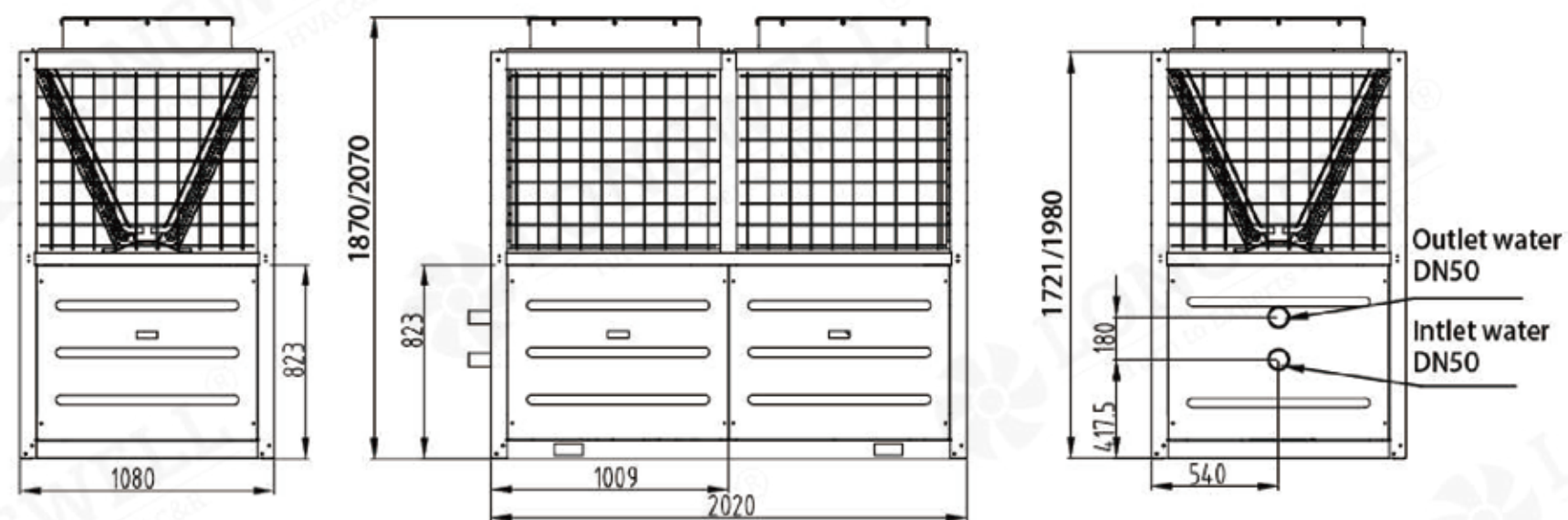


Adopting EVI scroll compressor and economizer, the unit can be used normally in low temperature environment, and greatly improve the heating operation efficiency of the unit in winter.

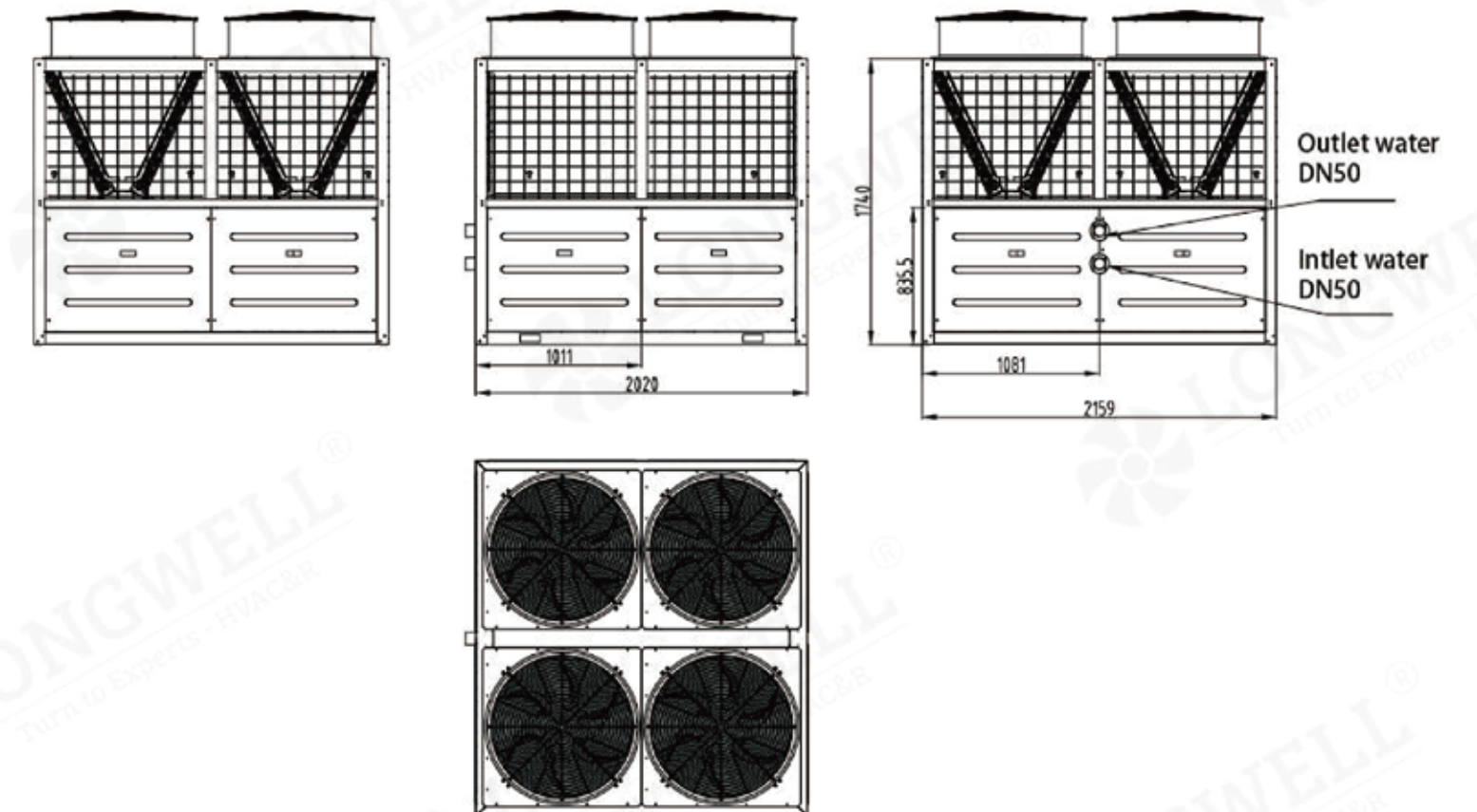
- The compressor has added one gas filling port, the suction air of the unit is increased, the circulation flow is increased, the heat exchange heat of the unit on the condensing side is greatly increased, the heating capacity of the unit is increased by more than 30%, and the performance coefficient Also greatly improved.
- By optimizing the matching of products, the amount of refrigerant evaporated in the evaporator at low ambient temperature is increased, which can effectively avoid the failure of the refrigerant to completely evaporate due to the poor evaporation effect and the return of the compressor.
- Increase the enthalpy of the compressor by supplementing the air, increasing the displacement of the compressor, ensuring that the product still runs stably at low ambient temperature, the compressor will not exceed the compression ratio of the compressor, ensuring the safe performance of the compressor Reduce the compressor discharge temperature and extend the life of the compressor.

Structure Diagram

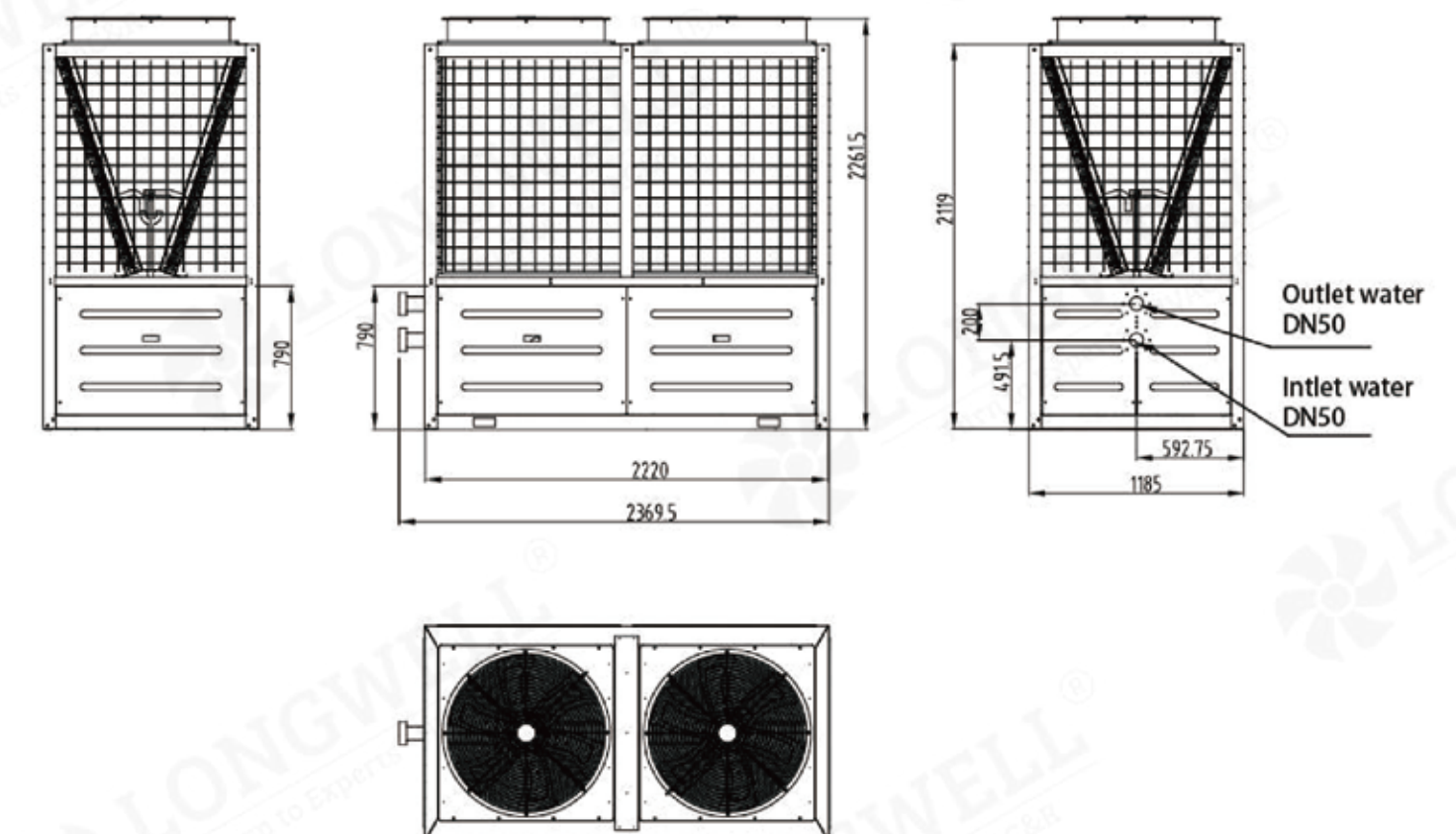
RLSFWM68/RLSFWM75 (mm)



RLSFWM136 (mm)



RLSFWM136 (mm)



Modular Type Air Cooled Water Chiller And Heat Pump

Unit model	RISFWM-(B) RLSWFM-(B)R	68	136	204	272	340	408	476
Nominal cooling capacity(Kw)		68	136	204	272	340	408	476
Input power(Kw)		21.1	42.2	63.2	84.3	105.4	126.5	147.6
Running current(A)		41.2	82.4	123.6	164.8	206	247.2	288.4
Nominal heating capacity(Kw)		70	140	210	280	350	420	490
Input power(Kw)		22.1	44.1	66.2	88.2	110.3	132.4	154.4
Running current(A)		39.5	79	118.5	158	197.5	237	276.5
Max.running current(A)		48.2	96.4	144.6	192.8	241	289.2	337.4
Cable diameter(copper wire distance ≤ 20 meters) mm²		3×16+2×10	(3×16+2×10)×2	(3×16+2×10)×3	(3×16+2×10)×4	(3×16+2×10)×5	(3×16+2×10)×6	(3×16+2×10)×7
Compressor type		Hermetic scroll						
Compressor qty		2	4	6	8	10	12	14
Power voltage		3N-380V-50HZ						
Starting mode		Direct						
Refrigerant		R410A/R22						
Refrigerant charge		11.5×2	11.5×4	11.5×6	11.5×8	11.5×10	11.5×12	11.5×14
Refrigerant control device		Electronic expansion valve(EXV)						
Evaporator	Type	Shell & tube type						
	Water pressure drop(Kpa)	70						
	Water pipe Dia.DN	50	50×2	50×3	50×4	50×5	50×6	50×7
	Water flow(m³/h)	11.7	23.4	35.1	46.8	58.5	70.2	81.9
Condenser type		Internally threaded copper tube & hydrophilic aluminum fins						
Protection device		High and low voltage protection, antifreeze protection, temperature control,reverse phase and phase loss protection,high and low voltage protection,high pressure exhaust temperature protection,built-in motor overheat protection, overcurrent protection,check valve, safety valve						
Dimensions	L	2110	2110	2110	2110	2110	2110	2110
	W	1080	2160	3240	4320	5400	6480	7560
	H	1870	1870	1870	1870	1870	1870	1870
Net weight(kg)		700	1400	2100	2800	3500	4200	4900
Running weight(kg)		760	1520	2280	3040	3800	4560	5320
Noise(dBA)		73	73	73	74	74	74	74

Remarks:

- Cooling standard working conditions: ambient temperature 35℃DB/24℃WB; cold water inlet temperature 12℃, outlet temperature 7℃.
- Heating standard working conditions: ambient temperature 7℃DB/6℃WB; hot water inlet temperature 40℃, outlet temperature 45℃.

Modular Type Air Cooled Water Chiller And Heat Pump

Unit model	RISFWM-(B) RLSWFM-(B)R	136	272	408	544	680	816	952
Nominal cooling capacity(Kw)		136	272	408	544	680	816	952
Input power(Kw)		42.2	84.3	126.5	168.6	210.8	253	295.1
Running current(A)		80.4	162.8	241.2	321.6	402	482.4	562.8
Nominal heating capacity(Kw)		140	280	420	560	700	840	980
Input power(Kw)		44.1	88.2	132.4	176.5	220.6	264.7	308.8
Running current(A)		76.4	150.8	229.2	305.6	382	458.4	534.8
Max.running current(A)		96.4	195.3	289.2	385.6	482	578.4	674.8
Cable diameter(copper wire distance ≤ 20 meters) mm²		3×35+2×16	(3×35+2×16)×2	(3×35+2×16)×3	(3×35+2×16)×4	(3×35+2×16)×5	(3×35+2×16)×6	(3×35+2×16)×7
Compressor type		Hermetic scroll						
Compressor qty		4	8	12	16	20	24	28
Power voltage		3N-380V-50HZ						
Starting mode		Direct						
Refrigerant		R410A/R22						
Refrigerant charge		11.5×4	11.5×8	11.5×12	11.5×16	11.5×20	11.5×24	11.5×28
Refrigerant control device		Electronic expansion valve(EXV)						
Evaporator	Type	Shell & tube type						
	Water pressure drop(Kpa)	70						
	Water pipe Dia.DN	65	65×2	65×3	65×4	65×5	65×6	65×7
	Water flow(m³/h)	23.4	46.8	70.2	93.6	117	140.4	163.7
Condenser type		Internally threaded copper tube & hydrophilic aluminum fins						
Protection device		High and low voltage protection, antifreeze protection, temperature control,reverse phase and phase loss protection,high and low voltage protection,high pressure exhaust temperature protection,built-in motor overheat protection, overcurrent protection,check valve, safety valve						
Dimensions	L	2110	2110	2110	2110	2110	2110	2110
	W	2160	4320	6480	8640	10800	12960	15120
	H	1870	1870	1870	1870	1870	1870	1870
Net weight(kg)		1360	2720	4080	5440	6800	8160	9520
Running weight(kg)		1480	2960	4440	5920	7400	8880	10360
Noise(dBA)		73	73	73	74	74	74	74

Remarks:

- Cooling standard working conditions: ambient temperature 35℃DB/24℃WB; cold water inlet temperature 12℃, outlet temperature 7℃.
- Heating standard working conditions: ambient temperature 7℃DB/6℃WB; hot water inlet temperature 40℃, outlet temperature 45℃.

Modular Type Air Cooled Water Chiller And Heat Pump

Unit model	RISFWM-(B) RLSWFM-(B)R	75	150	225	300	375	450	525
Nominal cooling capacity(Kw)		71	142	213	284	355	426	497
Input power(Kw)		20.6	41.2	61.8	82.4	103	123.6	144.2
Running current(A)		44	88	132	176	220	264	308
Nominal heating capacity(Kw)		72	144	216	288	360	432	504
Input power(Kw)		20.3	40.5	60.8	81	101.3	121.5	141.8
Running current(A)		43	86	129	172	215	258	301
Max.running current(A)		61.2	122.4	183.6	244.8	306	367.2	428.4
Cable diameter(copper wire distance ≤ 20 meters) mm²		3×25+2×16	(3×25+2×16)×2	(3×25+2×16)×3	(3×25+2×16)×4	(3×25+2×16)×5	(3×25+2×16)×6	(3×25+2×16)×7
Compressor type		Hermetic scroll						
Compressor qty		1	2	3	4	5	6	7
Power voltage		3N-380V-50HZ						
Starting mode		Direct						
Refrigerant		R410A/R22						
Refrigerant charge		13.5	13.5×2	13.5×3	13.5×4	13.5×5	13.5×6	13.5×7
Refrigerant control device		Electronic expansion valve(EXV)						
Evaporator	Type	Shell & tube type						
	Water pressure drop(Kpa)	70						
	Water pipe Dia.DN	50	50×2	50×3	50×4	50×5	50×6	50×7
	Water flow(m³/h)	12.2	24.4	36.6	48.8	61.1	73.3	85.5
Condenser type		Internally threaded copper tube & hydrophilic aluminum fins						
Protection device		High and low voltage protection, antifreeze protection, temperature control,reverse phase and phase loss protection,high and low voltage protection,high pressure exhaust temperature protection,built-in motor overheat protection, overcurrent protection,check valve, safety valve						
Dimensions	L	2110	2110	2110	2110	2110	2110	2110
	W	1080	2160	3240	4320	5400	6480	7560
	H	2070	2070	2070	2070	2070	2270	2070
Net weight(kg)		660	980	1320	1960	1980	2940	2640
Running weight(kg)		690	1040	1380	2080	2070	3120	2760
Noise(dBA)		74	74	74	74	74	75	75

Remarks:
1.Cooling standard working conditions: ambient temperature 35℃DB/24℃WB; cold water inlet temperature 12℃, outlet temperature 7℃.
2.Heating standard working conditions: ambient temperature 7℃DB/6℃WB; hot water inlet temperature 40℃, outlet temperature 45℃.

Modular Type Air Cooled Water Chiller And Heat Pump

Unit model	RISFWM-(B) RLSWFM-(B)R	150	300	450	600	750	900	1050
Nominal cooling capacity(Kw)		142	284	426	568	710	852	994
Input power(Kw)		41.2	82.4	123.6	164.8	206	247.2	288.4
Running current(A)		88	176	264	352	440	528	616
Nominal heating capacity(Kw)		144	288	432	576	720	864	1008
Input power(Kw)		40.5	81	121.5	162	202.5	243	283.5
Running current(A)		86	172	258	344	430	516	602
Max.running current(A)		122.4	244.8	367.2	489.6	612	734.4	856.8
Cable diameter(copper wire distance ≤ 20 meters) mm²		3×35+2×16	(3×35+2×16)×2	(3×35+2×16)×3	(3×35+2×16)×4	(3×35+2×16)×5	(3×25+2×16)×6	(3×35+2×16)×7
Compressor type		Hermetic scroll						
Compressor qty		2	4	6	8	10	12	14
Power voltage		3N-380V-50HZ						
Starting mode		Direct						
Refrigerant		R410A/R22						
Refrigerant charge		13.5×2	13.5×4	13.5×6	13.5×8	13.5×10	13.5×12	13.5×14
Refrigerant control device		Electronic expansion valve(EXV)						
Evaporator	Type	Shell & tube type						
	Water pressure drop(Kpa)	70						
	Water pipe Dia.DN	65	65×2	65×3	65×4	65×5	65×6	65×7
	Water flow(m³/h)	24.42	48.85	73.27	97.7	122.12	146.54	170.97
Condenser type		Internally threaded copper tube & hydrophilic aluminum fins						
Protection device		High and low voltage protection, antifreeze protection, temperature control,reverse phase and phase loss protection,high and low voltage protection,high pressure exhaust temperature protection,built-in motor overheat protection, overcurrent protection,check valve, safety valve						
Dimensions	L	2370	2370	2370	2370	2370	2370	2370
	W	1185	2370	3555	4740	5925	7110	8295
	H	2260	2260	2260	2260	2260	2260	2260
Net weight(kg)		980	1960	2940	3920	4900	5880	6860
Running weight(kg)		1180	2360	3540	4720	5900	7080	8260
Noise(dBA)		74	74	74	74	74	75	75

Remarks:
1.Cooling standard working conditions: ambient temperature 35℃DB/24℃WB; cold water inlet temperature 12℃, outlet temperature 7℃.
2.Heating standard working conditions: ambient temperature 7℃DB/6℃WB; hot water inlet temperature 40℃, outlet temperature 45℃.

Air Cooled Water Chiller And Heat Pump

Unit model	RLSFWM-BRD RLSFWM-RD	68	136	204	272	340	408	476
Nominal cooling capacity(Kw)		68	136	204	272	340	408	476
Input power(Kw)		21.1	42.2	63.2	84.3	105.4	126.5	147.6
Running current(A)		41.2	82.4	123.6	164.8	206	247.2	288.4
Nominal heating capacity I (Kw)		78	156	234	312	390	468	546
Input power(Kw)		22.3	44.7	67	89.4	111.7	134	156.4
Running current(A)		41.6	79	118.5	158	197.5	237	276.5
Nominal heating capacity II (Kw)		57	114	171	228	285	342	399
Input power(Kw)		21.3	42.6	63.9	85.2	106.5	127.8	149.1
Running current(A)		41.6	83.2	124.8	166.4	208	249.6	291.2
Max.running current(A)		50.4	96.4	144.6	192.8	241	289.2	337.4
Cable diameter(copper wire distance ≤ 20 meters) mm ²		3×16+2×10	(3×16+2×10)×2	(3×16+2×10)×3	(3×16+2×10)×4	(3×16+2×10)×5	(3×16+2×10)×6	(3×16+2×10)×7
Compressor type	Hermetic scroll							
Compressor qty		2	4	6	8	10	12	14
Power voltage	3N-380V-50HZ							
Starting mode	Starting mode							
Refrigerant	R410A/R22							
Refrigerant charge		11×2	11×4	11×6	11×8	11×10	11×12	11×14
Refrigerant control device	Electronic expansion valve(EXV)							
Evaporator	Type	Shell & tube type						
	Water pressure drop(Kpa)	70						
	Water pipe Dia.DN	50	50×2	50×3	50×4	50×5	50×6	50×7
	Water flow(m³/h)	10.66	21.32	31.98	42.64	53.3	63.96	74.62
Condenser type	Internally threaded copper tube & hydrophilic aluminum fins							
Protection device	High and low voltage protection, antifreeze protection, temperature control,reverse phase and phase loss protection,high and low voltage protection,high pressure exhaust temperature protection,built-in motor overheat protection, overcurrent protection,check valve, safety valve							
Dimensions	L	2110	2110	2110	2110	2110	2110	2110
	W	1080	2160	3240	4320	5400	6480	7560
	H	1870	1870	1870	1870	1870	1870	1870
Net weight(kg)		700	1400	2100	2800	3500	4200	4900
Running weight(kg)		760	1520	2280	3040	3800	4560	5320
Noise(dBA)		73	73	73	74	74	74	74

Remarks:
1.Cooling standard working conditions: ambient temperature 35℃DB/24℃WB; cold water inlet temperature 12℃, outlet temperature 7℃.
2.Heating standard working conditions: ambient temperature 7℃DB/6℃WB; hot water inlet temperature 40℃, outlet temperature 45℃.

Air Cooled Water Chiller And Heat Pump

Unit model	RLSFWM-BRD RLSFWM-RD	136	272	408	544	680	816	952
Nominal cooling capacity(Kw)		136	272	408	544	680	816	952
Input power(Kw)		42.2	84.4	126.6	168.8	211	253.2	295.4
Running current(A)		82.4	164.8	247.2	329.6	412	494.4	576.8
Nominal heating capacity I (Kw)		156	312	468	624	780	936	1092
Input power(Kw)		44.7	89.4	134	178.7	223.4	268.1	312.8
Running current(A)		80.4	160.8	241.2	321.6	402	482.4	562.8
Nominal heating capacity II (Kw)		114	228	342	456	570	684	798
Input power(Kw)		42.6	85.2	127.8	170.4	213	255.6	298.2
Running current(A)		83.2	166.4	249.6	332.8	416	499.2	582.4
Max.running current(A)		96.4	192.8	289.2	385.6	482	578.4	674.8
Cable diameter(copper wire distance ≤ 20 meters) mm ²		3×35+2×16	(3×35+2×16)×2	(3×35+2×16)×3	(3×35+2×16)×4	(3×35+2×16)×5	(3×35+2×16)×6	(3×35+2×16)×7
Compressor type	Hermetic scroll							
Compressor qty		4	8	12	16	20	24	28
Power voltage	3N-380V-50HZ							
Starting mode	Starting mode							
Refrigerant	R410A/R22							
Refrigerant charge		11.5×4	11.5×8	11.5×12	11.5×16	11.5×20	11.5×24	11.5×28
Refrigerant control device	Electronic expansion valve(EXV)							
Evaporator	Type	Shell & tube type						
	Water pressure drop(Kpa)	70						
	Water pipe Dia.DN	65	65×2	65×3	65×4	65×5	65×6	65×7
	Water flow(m³/h)	23.39	46.78	70.18	93.57	116.96	140.35	163.74
Condenser type	Internally threaded copper tube & hydrophilic aluminum fins							
Protection device	High and low voltage protection, antifreeze protection, temperature control,reverse phase and phase loss protection,high and low voltage protection,high pressure exhaust temperature protection,built-in motor overheat protection, overcurrent protection,check valve, safety valve							
Dimensions	L	2110	2110	2110	2110	2110	2110	2110
	W	2160	4320	6480	8640	10800	12960	15120
	H	1870	1870	1870	1870	1870	1870	1870
Net weight(kg)		1360	2720	4080	5440	6800	8160	9520
Running weight(kg)		1480	2960	4440	5920	7400	8880	10360
Noise(dBA)		73	73	73	74	74	74	74

Remarks:
1.Cooling standard working conditions: ambient temperature 35℃DB/24℃WB; cold water inlet temperature 12℃, outlet temperature 7℃.
2.Heating standard working conditions: ambient temperature 7℃DB/6℃WB; hot water inlet temperature 40℃, outlet temperature 45℃.

Air cooled water chiller and heat pump

Unit model	RLSFWM-BRD	75	150	225	300	375	450	525
	RLSFWM-RD							
Nominal cooling capacity(Kw)		70	140	210	280	350	420	490
Input power(Kw)		22.8	45.6	68.4	91.2	114	136.8	159.6
Running current(A)		44	88	132	176	220	264	308
Nominal heating capacity I (Kw)		85	170	255	340	425	510	595
Input power(Kw)		22.5	45	67.5	90	112.5	135	157.5
Running current(A)		43	86	129	172	215	258	301
Nominal heating capacity II (Kw)		62	124	186	248	310	372	434
Input power(Kw)		24.8	49.6	74.4	99.2	124	148.8	173.6
Running current(A)		47.8	95.6	143.4	191.2	239	286.8	334.6
Max.running current(A)		61.2	122.4	183.6	244.8	306	367.2	428.4
Cable diameter(copper wire distance ≤ 20 meters) mm ²		3×16+2×10	(3×16+2×10)×2	(3×16+2×10)×3	(3×16+2×10)×4	(3×16+2×10)×5	(3×16+2×10)×6	(3×16+2×10)×7
Compressor type	Hermetic scroll							
Compressor qty		1	2	3	4	5	6	7
Power voltage	3N-380V-50HZ							
Starting mode	Starting mode							
Refrigerant	R410A/R22							
Refrigerant charge		13.5	13.5×2	13.5×3	13.5×4	13.5×5	13.5×6	13.5×7
Refrigerant control device	Electronic expansion valve(EXV)							
Evaporator	Type	Shell & tube type						
	Water pressure drop(Kpa)	70						
	Water pipe Dia.DN	50	50×2	50×3	50×4	50×5	50×6	50×7
	Water flow(m³/h)	12	24.1	36.1	48.2	60.2	72.2	84.3
Condenser type	Internally threaded copper tube & hydrophilic aluminum fins							
Protection device	High and low voltage protection, antifreeze protection, temperature control,reverse phase and phase loss protection,high and low voltage protection,high pressure exhaust temperature protection,built-in motor overheat protection, overcurrent protection,check valve, safety valve							
Dimensions	L	2110	2110	2110	2110	2110	2110	2110
	W	1080	2160	3240	4320	5400	6480	7560
	H	2070	2070	2070	2070	2070	2270	2070
Net weight(kg)		660	980	1320	1960	1980	2940	2640
Running weight(kg)		690	1040	1380	2080	2070	3120	2760
Noise(dBA)		74	74	74	74	74	75	75

Remarks:
1.Cooling standard working conditions: ambient temperature 35℃DB/24℃WB; cold water inlet temperature 12℃, outlet temperature 7℃.
2.Heating standard working conditions: ambient temperature 7℃DB/6℃WB; hot water inlet temperature 40℃, outlet temperature 45℃.

Air cooled water chiller and heat pump

Unit model	RLSFWM-BRD	150	300	450	600	750	900	1050
	RLSFWM-RD							
Nominal cooling capacity(Kw)		140	280	420	560	700	840	980
Input power(Kw)		45.6	91.2	136.8	182.4	228	273.6	319.2
Running current(A)		88	176	264	352	440	528	616
Nominal heating capacity I (Kw)		170	340	510	680	850	1020	1190
Input power(Kw)		45	90	135	180	225	270	315
Running current(A)		86	172	258	344	430	516	602
Nominal heating capacity II (Kw)		124	248	372	496	620	744	868
Input power(Kw)		49.6	99.2	148.8	198.4	248	297.6	347.2
Running current(A)		95.6	191.2	286.8	382.4	478	573.6	669.2
Max.running current(A)		122.4	244.8	367.2	489.6	612	734.4	856.8
Cable diameter(copper wire distance ≤ 20 meters) mm ²		3×35+2×16	(3×35+2×16)×2	(3×35+2×16)×3	(3×35+2×16)×4	(3×35+2×16)×5	(3×35+2×16)×6	(3×35+2×16)×7
Compressor type	Hermetic scroll							
Compressor qty		2	4	6	8	10	12	14
Power voltage	3N-380V-50HZ							
Starting mode	Starting mode							
Refrigerant	R410A/R22							
Refrigerant charge		13.5×2	13.5×4	13.5×6	11.3×8	13.5×10	13.5×12	13.5×14
Refrigerant control device	Electronic expansion valve(EXV)							
Evaporator	Type	Shell & tube type						
	Water pressure drop(Kpa)	70						
	Water pipe Dia.DN	65	65×2	65×3	65×4	65×5	65×6	65×7
	Water flow(m³/h)	24.08	48.16	72.24	96.32	120.4	144.48	168.56
Condenser type	Internally threaded copper tube & hydrophilic aluminum fins							
Protection device	High and low voltage protection, antifreeze protection, temperature control,reverse phase and phase loss protection,high and low voltage protection,high pressure exhaust temperature protection,built-in motor overheat protection, overcurrent protection,check valve, safety valve							
Dimensions	L	2370	2370	2370	2370	2370	2370	2370
	W	1185	2370	3555	4740	5925	7110	8295
	H	2260	2260	2260	2260	2260	2260	2260
Net weight(kg)		980	1960	2940	3920	4900	5880	6860
Running weight(kg)		1180	2360	3540	4720	5900	7080	8260
Noise(dBA)		74	74	74	74	74	75	75

Remarks:
1.Cooling standard working conditions: ambient temperature 35℃DB/24℃WB; cold water inlet temperature 12℃, outlet temperature 7℃.
2.Heating standard working conditions: ambient temperature 7℃DB/6℃WB; hot water inlet temperature 40℃, outlet temperature 45℃.