

## Water Cooled Screw Chiller

High energy efficiency ratio

Adopting advanced structural design and reasonable system matching, the unit has high energy efficiency ratio and small volume.

Comfortable and energy-saving

Variable energy regulation, flexible start and stop, Comfortable and energy-saving.

Powerful Function

Adopt large touch screen, powerful control function, with multiple functions such as fault self-diagnosis.

Safe and stable

Multiple safety protection, safe and reliable operation of the unit.

Application area:

Applicable places: Hotels, shopping malls, office buildings, factories, etc.



### Product Parameter Table

#### Water Cooled Screw Chiller / R22

MODEL		LSBLG180	LSBLG220	LSBLG260	LSBLG340	LSBLG450	LSBLG540
Cooling Capacity	kW	180	220	260	340	443	540
Total Power Input	kW	39	48	55	72	95	115
Max. Current	A	121	153	171	220	268	310
100% Full Loading EER		4.62	4.58	4.73	4.72	4.66	4.70
Control Range		25%~100%	25%~100%	25%~100%	25%~100%	25%~100%	25%~100%
Number of cooling loops		1	1	1	1	1	1
Compressor Qty		1	1	1	1	1	1
Compressor Type		Semi-hermetic twice screw					
Noise	dB(A)	68	68	69	69	71	71
Power Supply	V/Ph/HZ	380/3/50					
Refrigerant		R22					
Refrigerant Charge	kg	30	40	50	60	75	90
Chiller Water In Temperature	°C	12					
Chiller Water Out Temperature	°C	7					
Water Flow	m <sup>3</sup> /h	31	38	45	59	76	93
Pressure Drop	kPa	43	43	44	44	44	44
Connection pipe Size		DN80	DN80	DN80	DN100	DN100	DN125
Cooling Water In Temperature	°C	30	30	30	30	30	30
Cooling Water Out Temperature	°C	35	35	35	35	35	35
Cooling Water Flow	m <sup>3</sup> /h	38	46	54	71	93	113
Pressure Drop	kPa	43	43	44	44	44	44
Connection Pipe Size		DN80	DN80	DN80	DN100	DN100	DN125
Heat Recovery Capacity	kW	36	44	52	68	89	108
Heat Recovery Water Flow	m <sup>3</sup> /h	6	8	9	12	15	19
Heat Recovery Pressure Drop	kPa	30	30	31	32	30	32
Length	mm	2800	2800	3050	3200	3500	3500
Width	mm	1250	1250	1300	1300	1300	1300
Height	mm	1440	1440	1470	1500	1500	1500
Standard Weight	kg	2000	2000	2250	2300	2410	2500

Note:

Heat Recovery Water In / Out Temperature: 40 / 45 ;

Evaporator, condenser water side pressure bear is 1.0MPa;

Volks reserves all the right to make whatever modifications if necessary to improve the product at any time without previous notice.



Product Parameter Table

Water Cooled Screw Chiller / R22

MODEL		LSBLG620	LSBLG660	LSBLG700	LSBLG810	LSBLG860	LSBLG960	LSBLG1080
Cooling Capacity	kW	610	660	700	795	850	960	1050
Total Power Input	kW	128	140	148	168	180	203	223
Max. Current	A	355	377	393	453	498	534	620
100% Full Loading EER		4.77	4.71	4.73	4.73	4.72	4.73	4.71
Control Range		25%~100%	25%~100%	25%~100%	25%~100%	25%~100%	25%~100%	25%~100%
Number of cooling loops		1	1	1	1	1	1	1
Compressor Qty		1	1	1	1	1	1	1
Compressor Type		Semi-hermetic twice screw						
Noise	dB(A)	68	68	69	69	71	71	71
Power Supply	V/Ph/Hz	380/3/50						
Refrigerant		R22						
Refrigerant Charge	kg	110	130	145	165	170	185	205
Chiller Water In Temperature	°C	12						
Chiller Water Out Temperature	°C	7						
Water Flow	m <sup>3</sup> /h	105	114	121	137	146	165	181
Pressure Drop	kPa	43	43	44	44	44	44	50
Connection pipe Size		DN125	DN125	DN150	DN150	DN150	DN150	DN150
Cooling Water In Temperature	°C	30						
Cooling Water Out Temperature	°C	35						
Cooling Water Flow	m <sup>3</sup> /h	127	138	146	166	177	200	219
Pressure Drop	kPa	43	43	44	44	44	44	50
Connection Pipe Size		DN125	DN125	DN150	DN150	DN150	DN150	DN150
Heat Recovery Capacity	kW	122	132	140	159	170	192	210
Heat Recovery Water Flow	m <sup>3</sup> /h	21	23	24	27	29	33	36
Heat Recovery Pressure Drop	kPa	30	30	31	32	30	32	32
Length	mm	3500	3500	3500	3600	3600	3700	3780
Width	mm	1400	1450	1450	1500	1500	1500	1550
Height	mm	1600	1750	1750	1800	1800	1900	1900
Standard Weight	kg	3300	3380	3500	3650	3750	3900	4200

Note:

Heat Recovery Water In / Out Temperature: 40 / 45 ;  
Evaporator, condenser water side pressure bear is 1.0MPa;  
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Product Parameter Table

Water Cooled Screw Chiller / R22

MODEL		LSBLG1240	LSBLG1360	LSBLG1400	LSBLG1660	LSBLG1760	LSBLG1920	LSBLG2160
Cooling Capacity	kW	1200	1320	1400	1630	1700	1900	2100
Total Power Input	kW	255	280	290	340	360	395	445
Max. Current	A	355*2	377*2	393*2	453*2	498*2	534*2	620*2
100% Full Loading EER		4.71	4.71	4.83	4.79	4.72	4.81	4.72
Control Range		12.5%~100%	12.5%~100%	12.5%~100%	12.5%~100%	12.5%~100%	12.5%~100%	12.5%~100%
Number of cooling loops		2	2	2	2	2	2	2
Compressor Qty		2	2	2	2	2	2	2
Compressor Type		Semi-hermetic twice screw						
Noise	dB(A)	68	68	69	69	71	71	71
Power Supply	V/Ph/Hz	380/3/50						
Refrigerant		R22						
Refrigerant Charge	kg	230	280	310	330	350	370	420
Chiller Water In Temperature	°C	12						
Chiller Water Out Temperature	°C	7						
Water Flow	m <sup>3</sup> /h	207	227	241	281	293	327	362
Pressure Drop	kPa	43	43	44	44	44	44	50
Connection pipe Size		DN150	DN200	DN200	DN200	DN250	DN250	DN250
Cooling Water In Temperature	°C	30						
Cooling Water Out Temperature	°C	35						
Cooling Water Flow	m <sup>3</sup> /h	251	276	291	339	355	395	438
Pressure Drop	kPa	43	43	44	44	44	44	50
Connection Pipe Size		DN150	DN200	DN200	DN200	DN250	DN250	DN250
Heat Recovery Capacity	kW	240	264	280	326	340	380	420
Heat Recovery Water Flow	m <sup>3</sup> /h	41	45	48	56	58	65	72
Heat Recovery Pressure Drop	kPa	30	30	31	32	30	32	32
Length	mm	4500	4500	4600	4700	4900	5000	5000
Width	mm	1550	1550	1560	1600	1700	1700	1800
Height	mm	1800	1800	1800	1850	1850	2000	2000
Standard Weight	kg	5000	6520	6980	7350	7810	8520	9100

Note:

Heat Recovery Water In / Out Temperature: 40 / 45 ;  
Evaporator, condenser water side pressure bear is 1.0MPa;  
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Product Parameter Table

Water Cooled Screw Chiller / R22

MODEL		LSBLG2480	LSBLG2700	LSBLG2800	LSBLG3300	LSBLG3500
Cooling Capacity	kW	2450	2680	2800	3200	3450
Total Power Input	kW	520	565	595	675	725
Max. Current	A	355*4	377*4	393*4	453*4	498*4
100% Full Loading EER		4.71	4.74	4.71	4.74	4.76
Control Range		6.25%~100%	6.25%~100%	6.25%~100%	6.25%~100%	6.25%~100%
Number of cooling loops		4	4	4	4	4
Compressor Qty		4	4	4	4	4
Compressor Type		Semi-hermetic twice screw				
Noise	dB(A)	68	68	69	69	71
Power Supply	V/Ph/Hz	380/3/50				
Refrigerant		R22				
Refrigerant Charge	kg	450	470	500	530	550
Chiller Water In Temperature	°C	12				
Chiller Water Out Temperature	°C	7				
Water Flow	m /h <sub>s</sub>	422	462	482	551	594
Pressure Drop	kPa	43	43	44	44	44
Connection pipe Size		2-DN150	2-DN200	2-DN200	2-DN200	2-DN200
Cooling Water In Temperature	°C	30				
Cooling Water Out Temperature	°C	35				
Cooling Water Flow	m /h <sub>s</sub>	512	559	585	667	719
Pressure Drop	kPa	43	43	44	44	44
Connection Pipe Size		2-DN150	2-DN200	2-DN200	2-DN200	2-DN200
Heat Recovery Capacity	kW	490	536	560	640	690
Heat Recovery Water Flow	m /h <sub>s</sub>	84	92	96	110	119
Heat Recovery Pressure Drop	kPa	30	30	31	32	30
Length	mm	5000	5000	5000	5200	5200
Width	mm	2400	2400	2400	2500	2500
Height	mm	2300	2350	2350	2400	2480
Standard Weight	kg	10900	11500	12300	13000	14000

Note:

Heat Recovery Water In / Out Temperature: 40 / 45 ;  
Evaporator, condenser water side pressure bear is 1.0MPa;  
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Product Parameter Table

Water Cooled Screw Chiller / R134a

MODEL		LSBLG180B	LSBLG220B	LSBLG260B	LSBLG340B	LSBLG380B	LSBLG430B	LSBLG560B
Cooling Capacity	kW	180	220	260	340	380	430	530
Total Power Input	kW	38	46	55	71	80	91	111
Max. Current	A	171	220	268	336	377	393	453
100% Full Loading EER		4.74	4.78	4.73	4.79	4.75	4.73	4.77
Control Range		25%~100%	25%~100%	25%~100%	25%~100%	25%~100%	25%~100%	25%~100%
Number of cooling loops		1	1	1	1	1	1	1
Compressor Qty		1	1	1	1	1	1	1
Compressor Type		Semi-hermetic twice screw						
Noise	dB(A)	68	68	69	69	71	71	71
Power Supply	V/Ph/Hz	380/3/50						
Refrigerant		R134a						
Refrigerant Charge	kg	50	65	80	110	130	150	165
Chiller Water In Temperature	°C	12						
Chiller Water Out Temperature	°C	7						
Water Flow	m /h <sub>s</sub>	31	38	45	59	65	74	91
Pressure Drop	kPa	43	43	44	44	44	44	45
Connection pipe Size		DN80	DN80	DN80	DN100	DN100	DN125	DN125
Cooling Water In Temperature	°C	30	30	30	30	30	30	30
Cooling Water Out Temperature	°C	35	35	35	35	35	35	35
Cooling Water Flow	m /h <sub>s</sub>	38	46	54	71	79	90	110
Pressure Drop	kPa	43	43	44	44	44	44	45
Connection Pipe Size		DN80	DN80	DN80	DN100	DN100	DN125	DN125
Heat Recovery Capacity	kW	36	44	52	68	76	86	106
Heat Recovery Water Flow	m /h <sub>s</sub>	6	8	9	12	13	15	18
Heat Recovery Pressure Drop	kPa	30	30	31	32	30	32	33
Length	mm	3000	3000	3050	3050	3200	3300	3530
Width	mm	1250	1250	1280	1300	1350	1420	1420
Height	mm	1440	1480	1480	1480	1600	1700	1780
Standard Weight	kg	2300	2480	2570	2700	2880	2995	3200

Note:

Heat Recovery Water In / Out Temperature: 40 / 45 ;  
Evaporator, condenser water side pressure bear is 1.0MPa;  
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Product Parameter Table

Water Cooled Screw Chiller / R134a

MODEL		LSBLG620B	LSBLG720B	LSBLG860B	LSBLG900B	LSBLG1020B	LSBLG1240B	LSBLG1420B
Cooling Capacity	kW	600	700	840	900	1000	1200	1400
Total Power Input	kW	125	145	173	185	208	247	285
Max. Current	A	534	620	710	786	906	1068	1240
100% Full Loading EER		4.80	4.83	4.86	4.86	4.81	4.86	4.91
Control Range		25%~100%	25%~100%	12.5%~100%	12.5%~100%	12.5%~100%	12.5%~100%	12.5%~100%
Number of cooling loops		1	1	2	2	2	2	2
Compressor Qty		1	1	2	2	2	2	2
Compressor Type	Semi-hermetic twice screw							
Noise	dB(A)	68	68	69	69	71	71	71
Power Supply	V/Ph/Hz	380/3/50						
Refrigerant	R134a							
Refrigerant Charge	kg	190	210	240	270	290	320	350
Chiller Water In Temperature	°C	12						
Chiller Water Out Temperature	°C	7						
Water Flow	m <sup>3</sup> /h	103	121	145	155	172	207	241
Pressure Drop	kPa	43	43	44	44	44	44	50
Connection pipe Size		DN125	DN125	DN150	DN150	DN150	DN150	DN200
Cooling Water In Temperature	°C	30						
Cooling Water Out Temperature	°C	35						
Cooling Water Flow	m <sup>3</sup> /h	125	146	174	187	208	249	290
Pressure Drop	kPa	43	43	44	44	44	44	50
Connection Pipe Size		DN125	DN125	DN150	DN150	DN150	DN150	DN200
Heat Recovery Capacity	kW	120	140	168	180	200	240	280
Heat Recovery Water Flow	m <sup>3</sup> /h	21	24	29	31	34	41	48
Heat Recovery Pressure Drop	kPa	30	30	31	32	30	32	32
Length	mm	3600	3700	4600	4600	4800	5000	5000
Width	mm	1500	1550	1600	1600	1700	1750	1800
Height	mm	1800	1850	1900	1900	1900	1900	2000
Standard Weight	kg	3600	3890	4800	6100	7200	8500	9950

Note:  
Heat Recovery Water In / Out Temperature: 40 / 45 ;  
Evaporator, condenser water side pressure bear is 1.0MPa;  
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Product Parameter Table

Water Cooled Screw Chiller / R134a

MODEL		LSBLG1700B	LSBLG1800B	LSBLG2040B	LSBLG2480B	LSBLG2800B
Cooling Capacity	kW	1650	1750	2000	2420	2780
Total Power Input	kW	338	362	410	495	570
Max. Current	A	1420	1572	1812	2136	2480
100% Full Loading EER		4.88	4.83	4.88	4.89	4.88
Control Range		6.25%~100%	6.25%~100%	6.25%~100%	6.25%~100%	6.25%~100%
Number of cooling loops		4	4	4	4	4
Compressor Qty		4	4	4	4	4
Compressor Type	Semi-hermetic twice screw					
Noise	dB(A)	75	75	75	78	78
Power Supply	V/Ph/Hz	380/3/50				
Refrigerant	R134a					
Refrigerant Charge	kg	380	410	430	460	500
Chiller Water In Temperature	°C	12				
Chiller Water Out Temperature	°C	7				
Water Flow	m <sup>3</sup> /h	284	301	344	417	479
Pressure Drop	kPa	43	43	44	44	44
Connection pipe Size		2-DN125	2-DN150	2-DN150	2-DN150	2-DN200
Cooling Water In Temperature	°C	30				
Cooling Water Out Temperature	°C	35				
Cooling Water Flow	m <sup>3</sup> /h	342	364	415	502	577
Pressure Drop	kPa	43	43	44	44	44
Connection Pipe Size		2-DN125	2-DN150	2-DN150	2-DN150	2-DN200
Heat Recovery Capacity	kW	330	350	400	484	556
Heat Recovery Water Flow	m <sup>3</sup> /h	57	60	69	83	96
Heat Recovery Pressure Drop	kPa	30	30	31	32	30
Length	mm	4800	4900	5000	5200	5200
Width	mm	2300	2300	2400	2500	2500
Height	mm	2300	2350	2350	2400	2480
Standard Weight	kg	10900	11500	12300	13000	14000

Note:  
Heat Recovery Water In / Out Temperature: 40 / 45 ;  
Evaporator, condenser water side pressure bear is 1.0MPa;  
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Product Parameter Table

Flooded type Water Cooled Screw Chiller / R22

MODEL		LSBLG 220M	LSBLG 260M	LSBLG 300M	LSBLG 340M	LSBLG 400M	LSBLG 450M	LSBLG 520M	LSBLG 600M
Cooling Capacity	kW	220	260	300	340	400	445	510	590
Total Power Input	kW	43	52	60	67	80	89	101	115
Max. Current	A	128	153	171	193	220	241	268	310
100% Full Loading EER		5.12	5.00	5.00	5.07	5.00	5.00	5.05	5.1
Control Range	25%~100%								
Number of cooling loops		1	1	1	1	1	1	1	1
Compressor Qty		1	1	1	1	1	1	1	1
Compressor Type	Semi-hermetic twice screw								
Noise	dB(A)	68	68	69	69	71	71	68	68
Power Supply	V/Ph/H z	380/3/50							
Refrigerant	R22								
Refrigerant Charge	kg	50	60	75	80	90	100	110	140
Chiller Water In Temperature	°C	12							
Chiller Water Out Temperature	°C	7							
Water Flow	m /h <sub>s</sub>	38	45	52	59	69	77	88	102
Pressure Drop	kPa	43	43	44	44	44	44	43	43
Connection pipe Size		DN80	DN80	DN80	DN100	DN100	DN125	DN125	DN125
Cooling Water In Temperature	°C	30							
Cooling Water Out Temperature	°C	35							
Cooling Water Flow	m /h <sub>s</sub>	45	54	62	70	83	92	105	121
Pressure Drop	kPa	43	43	44	44	44	44	43	43
Connection Pipe Size		DN80	DN80	DN80	DN100	DN100	DN125	DN125	DN125
Heat Recovery Capacity	kW	44	52	60	68	80	89	102	118
Heat Recovery Water Flow	m /h <sub>s</sub>	8	9	10	12	14	15	18	20
Heat Recovery Pressure Drop	kPa	30	30	31	32	30	32	30	30
Length	mm	3300	3300	3450	3450	3450	3500	3700	3800
Width	mm	1300	1300	1350	1350	1350	1400	1400	1400
Height	mm	1700	1700	1700	1700	1700	1730	1760	1760
Standard Weight	kg	2500	2800	3200	3450	3500	3680	3800	4000

Note:  
Heat Recovery Water In / Out Temperature: 40 / 45 ;  
Evaporator, condenser water side pressure bear is 1.0MPa;  
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Product Parameter Table

Flooded type Water Cooled Screw Chiller / R22

MODEL		LSBLG 620M	LSBLG 700M	LSBLG 760M	LSBLG 800M	LSBLG 900M	LSBLG 960M	1060M LSBLG	1200M LSBLG
Cooling Capacity	kW	615	700	750	790	890	950	1050	1180
Total Power Input	kW	120	135	145	155	172	185	205	228
Max. Current	A	5.13	5.19	5.17	5.10	5.17	5.14	5.12	5.18
100% Full Loading EER		336	355	377	393	453	498	534	620
Control Range	25%~100%								
Number of cooling loops		1	1	1	1	1	1	1	1
Compressor Qty		1	1	1	1	1	1	1	1
Compressor Type	Semi-hermetic twice screw								
Noise	dB(A)	69	69	69	71	71	71	71	71
Power Supply	V/Ph/H z	380/3/50							
Refrigerant	R22								
Refrigerant Charge	kg	160	180	195	210	240	270	285	310
Chiller Water In Temperature	°C	12							
Chiller Water Out Temperature	°C	7							
Water Flow	m /h <sub>s</sub>	106	121	129	136	153	164	181	203
Pressure Drop	kPa	44	44	44	44	44	50	55	55
Connection pipe Size		DN125	DN150	DN150	DN150	DN150	DN150	DN150	DN150
Cooling Water In Temperature	°C	30							
Cooling Water Out Temperature	°C	35							
Cooling Water Flow	m /h <sub>s</sub>	127	144	154	163	183	196	216	243
Pressure Drop	kPa	44	44	44	44	44	50	55	55
Connection Pipe Size		DN125	DN150	DN150	DN150	DN150	DN150	DN150	DN150
Heat Recovery Capacity	kW	123	140	150	158	178	190	210	236
Heat Recovery Water Flow	m /h <sub>s</sub>	21	24	26	27	31	33	36	41
Heat Recovery Pressure Drop	kPa	30	30	30	30	32	32	33	33
Length	mm	3900	3900	4300	4300	4450	4450	4300	4300
Width	mm	1400	1400	1500	1550	1580	1550	1550	1550
Height	mm	1800	1800	1850	1850	1850	1850	1850	1850
Standard Weight	kg	4200	4300	4450	4600	5000	5200	5400	5680

Note:  
Heat Recovery Water In / Out Temperature: 40 / 45 ;  
Evaporator, condenser water side pressure bear is 1.0MPa;  
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Product Parameter Table

Flooded type Water Cooled Screw Chiller / R22

MODEL		LSBLG860M	LSBLG900M	LSBLG1020M	LSBLG1200M	LSBLG1240M	LSBLG1400M
Cooling Capacity	kW	850	900	1000	1180	1235	1380
Total Power Input	kW	164	175	195	228	242	268
Max. Current	A	5.18	5.14	5.13	5.18	5.10	5.15
100% Full Loading EER		220*2	241*2	268*2	310*2	336*2	355*2
Control Range	12.5%~100%						
Number of cooling loops	2						
Compressor Qty	2						
Compressor Type	Semi-hermetic twice screw						
Noise	dB(A)	68	68	68	68	68	69
Power Supply	V/Ph/H z	380/3/50					
Refrigerant	R22						
Refrigerant Charge	kg	200	225	260	315	330	350
Chiller Water In Temperature	°C	12					
Chiller Water Out Temperature	°C	7					
Water Flow	m /h <sub>3</sub>	146	155	172	203	213	238
Pressure Drop	kPa	53	53	53	53	53	53
Connection pipe Size		DN150	DN150	DN150	DN150	DN150	DN200
Cooling Water In Temperature	°C	30					
Cooling Water Out Temperature	°C	35					
Cooling Water Flow	m /h <sub>3</sub>	175	185	206	243	254	284
Pressure Drop	kPa	58	58	58	58	58	60
Connection Pipe Size		DN150	DN150	DN150	DN150	DN150	DN200
Heat Recovery Capacity	kW	170	180	200	236	247	276
Heat Recovery Water Flow	m /h <sub>3</sub>	29	31	34	41	42	47
Heat Recovery Pressure Drop	kPa	30	30	30	30	30	31
Length	mm	4500	4580	4600	4600	4650	4720
Width	mm	1300	1300	1480	1500	1780	1800
Height	mm	1650	1700	1780	1800	1800	1800
Standard Weight	kg	5000	5300	5500	6000	6500	6800

Note:  
Heat Recovery Water In / Out Temperature: 40 / 45 ;  
Evaporator, condenser water side pressure bear is 1.0MPa;  
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Product Parameter Table

Flooded type Water Cooled Screw Chiller / R22

MODEL		LSBLG1520M	LSBLG1600M	LSBLG1800M	LSBLG1920M	LSBLG2080M	LSBLG2400M
Cooling Capacity	kW	1520	1600	1780	1900	2050	2400
Total Power Input	kW	295	310	345	368	400	462
Max. Current	A	5.15	5.16	5.16	5.16	5.13	5.19
100% Full Loading EER		377*2	393*2	453*2	498*2	534*2	620*2
Control Range	12.5%~100%						
Number of cooling loops	2						
Compressor Qty	2						
Compressor Type	Semi-hermetic twice screw						
Noise	dB(A)	69	69	71	71	71	71
Power Supply	V/Ph/H z	380/3/50					
Refrigerant	R22						
Refrigerant Charge	kg	370	380	400	435	470	530
Chiller Water In Temperature	°C	12					
Chiller Water Out Temperature	°C	7					
Water Flow	m /h <sub>3</sub>	262	262	307	327	353	413
Pressure Drop	kPa	53	55	55	55	60	60
Connection pipe Size		DN200	DN200	DN200	DN200	DN200	DN200
Cooling Water In Temperature	°C	30					
Cooling Water Out Temperature	°C	35					
Cooling Water Flow	m /h <sub>3</sub>	313	313	366	391	422	493
Pressure Drop	kPa	60	60	60	65	65	65
Connection Pipe Size		DN200	DN200	DN200	DN200	DN200	DN200
Heat Recovery Capacity	kW	304	304	356	380	410	480
Heat Recovery Water Flow	m /h <sub>3</sub>	52	52	61	65	71	83
Heat Recovery Pressure Drop	kPa	32	32	30	32	32	33
Length	mm	4760	4760	4800	4800	4800	4800
Width	mm	1800	1800	1800	1850	1900	1900
Height	mm	1800	1800	1900	1950	2000	2000
Standard Weight	kg	7000	7200	7780	8150	8600	9000

Note:  
Heat Recovery Water In / Out Temperature: 40 / 45 ;  
Evaporator, condenser water side pressure bear is 1.0MPa;  
Volks reserves all the right to make whatever modifications if necessary to improve the product at any time without previous notice.



Product Parameter Table

Flooded type Water Cooled Screw Chiller / R134a

MODEL		300BM LSBLG	320BM LSBLG	360BM LSBLG	390BM LSBLG	480BM LSBLG	500BM LSBLG	540BM LSBLG	640BM LSBLG
Cooling Capacity	kW	300	320	360	390	450	500	540	620
Total Power Input	kW	57	61	69	74	86	96	103	119
Max. Current	A	5.26	5.25	5.22	5.27	5.23	5.21	5.24	5.21
100% Full Loading EER		241	268	310	336	355	377	453	498
Control Range	25%~100%								
Number of cooling loops	1								
Compressor Qty	1								
Compressor Type	Semi-hermetic twice screw								
Noise	dB(A)	68	68	68	68	69	69	71	71
Power Supply	V/Ph/H z	380/3/50							
Refrigerant	R134a								
Refrigerant Charge	kg	70	80	95	110	130	145	190	220
Chiller Water In Temperature	°C	12							
Chiller Water Out Temperature	°C	7							
Water Flow	m <sup>3</sup> /h	52	55	62	67	78	86	93	107
Pressure Drop	kPa	40	43	43	43	44	44	44	44
Connection pipe Size		DN100	DN100	DN100	DN100	DN100	DN125	DN125	DN125
Cooling Water In Temperature	°C	30							
Cooling Water Out Temperature	°C	35							
Cooling Water Flow	m <sup>3</sup> /h	61	66	74	80	92	103	111	127
Pressure Drop	kPa	45	45	45	45	45	45	45	45
Connection Pipe Size		DN100	DN100	DN100	DN100	DN100	DN125	DN125	DN125
Heat Recovery Capacity	kW	60	64	72	78	90	100	108	124
Heat Recovery Water Flow	m <sup>3</sup> /h	10	11	12	13	15	17	19	21
Heat Recovery Pressure Drop	kPa	30	30	30	30	31	31	30	32
Length	mm	3500	3600	3760	3800	3950	4100	4200	4250
Width	mm	1300	1300	1400	1400	1400	1580	1580	1580
Height	mm	1600	1680	1680	1700	1700	1700	1750	1750
Standard Weight	kg	3000	3200	3450	3890	4100	4300	4800	5000

Note:  
Heat Recovery Water In / Out Temperature: 40 / 45 ;  
Evaporator, condenser water side pressure bear is 1.0MPa;  
Volks reserves all the right to make whatever modifications if necessary to improve the product at any time without previous notice.

Product Parameter Table

Flooded type Water Cooled Screw Chiller / R134a

MODEL		700BM LSBLG	800BM LSBLG	960BM LSBLG	1000BM LSBLG	1120BM LSBLG	1260BM LSBLG	LSMBLG 1400B	LSMBLG 1600B
Cooling Capacity	kW	690	785	950	990	1100	1250	1380	1580
Total Power Input	kW	132	150	182	190	210	240	265	303
Max. Current	A	5.23	5.23	5.22	5.21	5.24	5.21	5.21	5.21
100% Full Loading EER		534	620	710	754	786	906	1068	1240
Control Range	25%~100%			12.5%~100%					
Number of cooling loops	1		1	2	2	2	2	2	2
Compressor Qty	1		1	2	2	2	2	2	2
Compressor Type	Semi-hermetic twice screw								
Noise	dB(A)	68	68	68	69	69	71	71	71
Power Supply	V/Ph/H z	380/3/50							
Refrigerant	R134a								
Refrigerant Charge	kg	242	260	290	320	350	380	450	500
Chiller Water In Temperature	°C	12							
Chiller Water Out Temperature	°C	7							
Water Flow	m <sup>3</sup> /h	119	135	164	171	189	215	238	272
Pressure Drop	kPa	44	44	43	44	44	44	50	55
Connection pipe Size		DN125	DN125	DN125	DN150	DN150	DN150	DN200	DN200
Cooling Water In Temperature	°C	30							
Cooling Water Out Temperature	°C	35							
Cooling Water Flow	m <sup>3</sup> /h	142	161	195	203	226	257	283	324
Pressure Drop	kPa	44	44	43	44	44	44	50	55
Connection Pipe Size		DN125	DN125	DN125	DN150	DN150	DN150	DN200	DN200
Heat Recovery Capacity	kW	138	157	190	198	220	250	276	316
Heat Recovery Water Flow	m <sup>3</sup> /h	24	27.004	33	34	38	43	47	54
Heat Recovery Pressure Drop	kPa	33	33	30	31	32	30	32	33
Length	mm	4300	4300	4700	4700	4700	4780	4800	4800
Width	mm	1580	1580	1650	1700	1700	1800	1900	1900
Height	mm	1760	1780	1780	1800	1800	1800	2000	2000
Standard Weight	kg	5300	5500	5900	6200	6600	7000	8000	8600

Note:  
Heat Recovery Water In / Out Temperature: 40 / 45 ;  
Evaporator, condenser water side pressure bear is 1.0MPa;  
Volks reserves all the right to make whatever modifications if necessary to improve the product at any time without previous notice.

Product Parameter Table

## Falling Film Type Water Cooled Screw Chiller / R22

MODEL		LSBLG 350P	LSBLG 400P	LSBLG 520P	LSBLG 660P	LSBLG 700P	LSBLG 800P	LSBLG 960P	LSBLG 1060P	LSBLG 1200P
Cooling Capacity	kW	350	400	520	660	700	800	950	1050	1180
Total Power Input	kW	65	75	97	122	130	150	175	195	218
Max. Current	A	193	220	268	336	355	393	498	534	620
100% Full Loading EER		5.38	5.33	5.36	5.41	5.38	5.33	5.43	5.38	5.41
Control Range	25%~100%									
Number of cooling loops	1									
Compressor Qty	1									
Compressor Type	Semi-hermetic twice screw									
Noise	dB(A)	69	71	68	69	69	71	71	71	71
Power Supply	V/Ph/H z	380/3/50								
Refrigerant	R22									
Refrigerant Charge	kg	80	90	110	160	180	210	270	285	310
Chiller Water In Temperature	°C	12								
Chiller Water Out Temperature	°C	7								
Water Flow	m /h <sub>s</sub>	60	69	90	114	121	138	164	181	203
Pressure Drop	kPa	44	44	43	44	44	44	50	55	55
Connection pipe Size		DN100	DN100	DN125	DN125	DN150	DN150	DN150	DN150	DN150
Cooling Water In Temperature	°C	30								
Cooling Water Out Temperature	°C	35								
Cooling Water Flow	m /h <sub>s</sub>	71	82	106	135	143	164	194	214	241
Pressure Drop	kPa	44	44	43	44	44	44	50	55	55
Connection Pipe Size		DN100	DN100	DN125	DN125	DN150	DN150	DN150	DN150	DN150
Heat Recovery Capacity	kW	70	80	104	132	140	160	190	210	236
Heat Recovery Water Flow	m /h <sub>s</sub>	12	14	18	23	24	28	33	36	41
Heat Recovery Pressure Drop	kPa	32	30	30	30	30	30	32	33	33
Length	mm	3450	3450	3700	3900	3900	4300	4450	4300	4300
Width	mm	1350	1350	1400	1400	1400	1550	1550	1550	1550
Height	mm	1700	1700	1760	1800	1800	1850	1850	1850	1850
Standard Weight	kg	3450	3500	3800	4200	4300	4600	5200	5400	5680

Note:  
 Heat Recovery Water In / Out Temperature: 40 / 45 ;  
 Evaporator, condenser water side pressure bear is 1.0MPa;  
 Volks reserves all the right to make whatever modifications if necessary to improve the product at any time without previous notice.

Product Parameter Table

## Falling Film Type Water Cooled Screw Chiller / R22

MODEL		LSBLG 1320P	LSBLG 1400P	LSBLG 1600P	LSBLG 1820P	LSBLG 2000P	LSBLG 2200P	LSBLG 2400P
Cooling Capacity	kW	1320	1380	1600	1780	1900	2050	2240
Total Power Input	kW	242	255	295	329	348	378	412
Max. Current	A	5.45	5.41	5.42	5.41	5.46	5.42	5.44
100% Full Loading EER		336*2	355*2	393*2	453*2	498*2	534*2	620*2
Control Range	12.5%~100%							
Number of cooling loops	2							
Compressor Qty	2							
Compressor Type	Semi-hermetic twice screw							
Noise	dB(A)	68	69	69	71	71	71	71
Power Supply	V/Ph/H z	380/3/50						
Refrigerant	R22							
Refrigerant Charge	kg	330	350	380	400	435	470	530
Chiller Water In Temperature	°C	12						
Chiller Water Out Temperature	°C	7						
Water Flow	m /h <sub>s</sub>	227	238	276	307	327	353	386
Pressure Drop	kPa	53	53	55	55	55	60	60
Connection pipe Size		DN200	DN200	DN200	DN200	DN250	DN250	DN250
Cooling Water In Temperature	°C	30						
Cooling Water Out Temperature	°C	35						
Cooling Water Flow	m /h <sub>s</sub>	269	282	326	363	387	418	457
Pressure Drop	kPa	58	60	60	60	65	65	65
Connection Pipe Size		DN200	DN200	DN200	DN200	DN250	DN250	DN250
Heat Recovery Capacity	kW	264	276	320	356	380	410	448
Heat Recovery Water Flow	m /h <sub>s</sub>	45	47	55	61	65	71	77
Heat Recovery Pressure Drop	kPa	30	31	32	30	32	32	33
Length	mm	4650	4720	4760	4800	4800	4800	4800
Width	mm	1780	1800	1800	1800	1850	1900	1900
Height	mm	1800	1800	1800	1900	1950	2000	2000
Standard Weight	kg	6500	6800	7200	7780	8150	8600	9000

Note:  
 Heat Recovery Water In / Out Temperature: 40 / 45 ;  
 Evaporator, condenser water side pressure bear is 1.0MPa;  
 Volks reserves all the right to make whatever modifications if necessary to improve the product at any time without previous notice.





Product Parameter Table

Falling Film Type Water Cooled Screw Chiller / R22

MODEL		LSBLG 350P	LSBLG 400P	LSBLG 520P	LSBLG 660P	LSBLG 700P	LSBLG 800P	LSBLG 960P	LSBLG 1060P	LSBLG 1200P
Cooling Capacity	kW	350	400	520	660	700	800	950	1050	1180
Total Power Input	kW	65	75	97	122	130	150	175	195	218
Max. Current	A	193	220	268	336	355	393	498	534	620
100% Full Loading EER		5.38	5.33	5.36	5.41	5.38	5.33	5.43	5.38	5.41
Control Range	25%~100%									
Number of cooling loops	1									
Compressor Qty	1									
Compressor Type	Semi-hermetic twice screw									
Noise	dB(A)	69	71	68	69	69	71	71	71	71
Power Supply	V/Ph/H z	380/3/50								
Refrigerant	R22									
Refrigerant Charge	kg	80	90	110	160	180	210	270	285	310
Chiller Water In Temperature	°C	12								
Chiller Water Out Temperature	°C	7								
Water Flow	m /h <sub>s</sub>	60	69	90	114	121	138	164	181	203
Pressure Drop	kPa	44	44	43	44	44	44	50	55	55
Connection pipe Size		DN100	DN100	DN125	DN125	DN150	DN150	DN150	DN150	DN150
Cooling Water In Temperature	°C	30								
Cooling Water Out Temperature	°C	35								
Cooling Water Flow	m /h <sub>s</sub>	71	82	106	135	143	164	194	214	241
Pressure Drop	kPa	44	44	43	44	44	44	50	55	55
Connection Pipe Size		DN100	DN100	DN125	DN125	DN150	DN150	DN150	DN150	DN150
Heat Recovery Capacity	kW	70	80	104	132	140	160	190	210	236
Heat Recovery Water Flow	m /h <sub>s</sub>	12	14	18	23	24	28	33	36	41
Heat Recovery Pressure Drop	kPa	32	30	30	30	30	30	32	33	33
Length	mm	3450	3450	3700	3900	3900	4300	4450	4300	4300
Width	mm	1350	1350	1400	1400	1400	1550	1550	1550	1550
Height	mm	1700	1700	1760	1800	1800	1850	1850	1850	1850
Standard Weight	kg	3450	3500	3800	4200	4300	4600	5200	5400	5680

Note:  
Heat Recovery Water In / Out Temperature: 40 / 45 ;  
Evaporator, condenser water side pressure bear is 1.0MPa;  
Volks reserves all the right to make whatever modifications if necessary to improve the product at any time without previous notice.



Product Parameter Table

Falling Film Type Water Cooled Screw Chiller / R22

MODEL		LSBLG 1320P	LSBLG 1400P	LSBLG 1600P	LSBLG 1820P	LSBLG 2000P	LSBLG 2200P	LSBLG 2400P
Cooling Capacity	kW	1320	1380	1600	1780	1900	2050	2240
Total Power Input	kW	242	255	295	329	348	378	412
Max. Current	A	5.45	5.41	5.42	5.41	5.46	5.42	5.44
100% Full Loading EER		336*2	355*2	393*2	453*2	498*2	534*2	620*2
Control Range	12.5%~100%							
Number of cooling loops	2							
Compressor Qty	2							
Compressor Type	Semi-hermetic twice screw							
Noise	dB(A)	68	69	69	71	71	71	71
Power Supply	V/Ph/H z	380/3/50						
Refrigerant	R22							
Refrigerant Charge	kg	330	350	380	400	435	470	530
Chiller Water In Temperature	°C	12						
Chiller Water Out Temperature	°C	7						
Water Flow	m /h <sub>s</sub>	227	238	276	307	327	353	386
Pressure Drop	kPa	53	53	55	55	55	60	60
Connection pipe Size		DN200	DN200	DN200	DN200	DN250	DN250	DN250
Cooling Water In Temperature	°C	30						
Cooling Water Out Temperature	°C	35						
Cooling Water Flow	m /h <sub>s</sub>	269	282	326	363	387	418	457
Pressure Drop	kPa	58	60	60	60	65	65	65
Connection Pipe Size		DN200	DN200	DN200	DN200	DN250	DN250	DN250
Heat Recovery Capacity	kW	264	276	320	356	380	410	448
Heat Recovery Water Flow	m /h <sub>s</sub>	45	47	55	61	65	71	77
Heat Recovery Pressure Drop	kPa	30	31	32	30	32	32	33
Length	mm	4650	4720	4760	4800	4800	4800	4800
Width	mm	1780	1800	1800	1800	1850	1900	1900
Height	mm	1800	1800	1800	1900	1950	2000	2000
Standard Weight	kg	6500	6800	7200	7780	8150	8600	9000

Note:  
Heat Recovery Water In / Out Temperature: 40 / 45 ;  
Evaporator, condenser water side pressure bear is 1.0MPa;  
Volks reserves all the right to make whatever modifications if necessary to improve the product at any time without previous notice.

## Product Parameter Table

## Falling Film Type Water Cooled Screw Chiller / R134a

MODEL		300BP LSBLG	370BP LSBLG	480BP LSBLG	520BP LSBLG	580BP LSBLG	700BP LSBLG	800BP LSBLG
Cooling Capacity	kW	300	370	470	510	570	680	785
Total Power Input	kW	55	67	85	92	103	122	142
Max. Current	A	5.45	5.52	5.53	5.54	5.53	5.57	5.53
100% Full Loading EER		241	310	355	377	453	498	620
Control Range	25%~100%							
Number of cooling loops	1							
Compressor Qty	1							
Compressor Type	Semi-hermetic twice screw							
Noise	dB(A)	68	68	69	69	71	71	68
Power Supply	V/Ph/H z	380/3/50						
Refrigerant	R134a							
Refrigerant Charge	kg	70	95	130	145	190	220	260
Chiller Water In Temperature	°C	12						
Chiller Water Out Temperature	°C	7						
Water Flow	m <sup>3</sup> /h	52	64	81	88	98	117	135
Pressure Drop	kPa	40	43	44	44	44	44	44
Connection pipe Size		DN100	DN100	DN100	DN125	DN125	DN150	DN150
Cooling Water In Temperature	°C	30						
Cooling Water Out Temperature	°C	35						
Cooling Water Flow	m <sup>3</sup> /h	61	75	96	104	116	138	160
Pressure Drop	kPa	45	45	45	45	45	45	44
Connection Pipe Size		DN100	DN100	DN100	DN125	DN125	DN150	DN150
Heat Recovery Capacity	kW	60	74	94	102	114	136	157
Heat Recovery Water Flow	m <sup>3</sup> /h	10	13	16	18	20	23	27.004
Heat Recovery Pressure Drop	kPa	30	30	31	31	30	32	33
Length	mm	3500	3760	3950	4100	4200	4250	4300
Width	mm	1300	1400	1400	1580	1580	1580	1580
Height	mm	1600	1680	1700	1700	1750	1750	1780
Standard Weight	kg	3000	3450	4100	4300	4800	5000	5500

Note:  
 Heat Recovery Water In / Out Temperature: 40 / 45 ;  
 Evaporator, condenser water side pressure bear is 1.0MPa;  
 Volks reserves all the right to make whatever modifications if necessary to improve the product at any time without previous notice.

## Product Parameter Table

## Falling Film Type Water Cooled Screw Chiller / R134a

MODEL		960BP LSBLG	1020BP LSBLG	1120BP LSBLG	1320BP LSBLG	LSMBLG 1420BP	LSMBLG 1660BP
Cooling Capacity	kW	950	1000	1100	1300	1400	1580
Total Power Input	kW	170	180	198	235	252	285
Max. Current	A	5.59	5.56	5.56	5.53	5.56	5.54
100% Full Loading EER		710	754	786	906	1068	1240
Control Range	12.5%~100%						
Number of cooling loops	2						
Compressor Qty	2						
Compressor Type	Semi-hermetic twice screw						
Noise	dB(A)	68	69	69	71	71	71
Power Supply	V/Ph/H z	380/3/50					
Refrigerant	R134a						
Refrigerant Charge	kg	290	320	350	380	450	500
Chiller Water In Temperature	°C	12					
Chiller Water Out Temperature	°C	7					
Water Flow	m <sup>3</sup> /h	164	172	189	224	241	272
Pressure Drop	kPa	43	44	44	44	50	55
Connection pipe Size		DN150	DN150	DN150	DN200	DN200	DN200
Cooling Water In Temperature	°C	30					
Cooling Water Out Temperature	°C	35					
Cooling Water Flow	m <sup>3</sup> /h	193	203	224	264	285	321
Pressure Drop	kPa	43	44	44	44	50	55
Connection Pipe Size		DN150	DN150	DN150	DN200	DN200	DN200
Heat Recovery Capacity	kW	190	200	220	260	280	316
Heat Recovery Water Flow	m <sup>3</sup> /h	33	34	38	45	48	54
Heat Recovery Pressure Drop	kPa	30	31	32	30	32	33
Length	mm	4700	4700	4700	4780	4800	4800
Width	mm	1650	1700	1700	1800	1900	1900
Height	mm	1780	1800	1800	1800	2000	2000
Standard Weight	kg	5900	6200	6600	7000	8000	8600

Note:  
 Heat Recovery Water In / Out Temperature: 40 / 45 ;  
 Evaporator, condenser water side pressure bear is 1.0MPa;  
 Volks reserves all the right to make whatever modifications if necessary to improve the product at any time without previous notice.

## Air Cooled Water Chiller and Heat Pump Unit

————— Energy Saving and Environmental Protection, Stable Running



## Air Cooled Water Chiller and Heat Pump Unit

Energy Saving and Environmental Protection

High efficient, Energy Saving, Environmental Protection, Renewable Heat Source.

Run Quietly

Easy to transport and install, Run Quietly, Low Noise.

Free Combination

Modular design, it is convenient to increase or decrease the unit, and the unit can be freely combined according to the requirement.

Wide Range of Applications

Significant environmental and economic benefits, wide range of applications.

Application Area: 800m<sup>2</sup> above

Application Place: Hotels, office buildings, stations, factories, large supermarkets, hospitals, banks, farms and other medium and large places.



Product Parameter Table

Air Cooled Screw chiller and Heat pump unit

MODEL		LSBLGRF280	LSBLGRF320	LSBLGRF380	LSBLGRF430	LSBLGRF500
Cooling Capacity	kW	275	320	380	430	500
Power Input	kW	88	95	125	127	155
Heating Capacity	kW	320	350	450	480	550
Power Input	kW	85	93	122	125	150
Power Supply(V/PH/HZ)		380/3/50	380/3/50	380/3/50	380/3/50	380/3/50
Fan Motor Power Input	kW	10.8	10.8	14.4	14.4	18
Refrigerant	kg	R22/80	R22/90	R22/105	R22/120	R22/135
Evaporator Type		Shell in Tube Heat Exchange	Shell in Tube Heat Exchange	Shell in Tube Heat Exchange	Shell in Tube Heat Exchange	Shell in Tube Heat Exchange
Water Flow	m <sup>3</sup> /h	47.3	55.04	65.36	73.96	86
Water Pressure Drop	kPa	50	50	52	50	50
Connection Pipe Size	DN	100	100	100	125	125
Length	mm	3590	3590	4800	4800	6000
Width	mm	2260	2260	2260	2260	2260
Height	mm	2550	2550	2550	2550	2550
Net Weight	kg	3200	4000	4500	4880	5600
Running Weight	kg	3400	4200	4630	5000	5750

MODEL		LSBLGRF560	LSBLGRF640	LSBLGRF700	LSBLGRF760	LSBLGRF860
Cooling Capacity	kW	550	640	700	760	860
Power Input	kW	176	190	220	250	254
Heating Capacity	kW	640	700	800	900	960
Power Input	kW	170	186	215	245	250
Power Supply(V/PH/H)		380/3/50	380/3/50	380/3/50	380/3/50	380/3/50
Fan Motor Power Input	kW	21.6	21.6	25.2	28.8	28.8
Refrigerant	kg	R22/80+80	R22/90+90	R22/90+105	R22/105+105	R22/120+120
Evaporator Type		Shell in Tube Heat Exchange	Shell in Tube Heat Exchange	Shell in Tube Heat Exchange	Shell in Tube Heat Exchange	Shell in Tube Heat Exchange
Water Flow	m <sup>3</sup> /h	94.6	110.08	120.4	130.72	147.92
Water Pressure Drop	kPa	50	50	50	50	50
Connection Pipe Size	DN	125	125	150	150	150
Length	mm	7280	7280	8400	9800	9800
Width	mm	2260	2260	2260	2260	2260
Height	mm	2550	2550	2550	2550	2550
Net Weight	kg	6080	7300	7800	8500	10600
Running Weight	kg	6230	7500	7950	8700	10800

Note:  
When cooling: ambient temperature 35°C; Evaporator water in / out: 12/7°C;  
When heating: ambient temperature DB 7°C, WB 6°C, Condenser water in / out 40/45°C;



Product Parameter Table

Air Cooled Screw chiller and Heat pump unit

MODEL		LSBLGRF930	LSBLGRF1000	LSBLGRF1080	LSBLGRF1140
Cooling Capacity	kW	930	1000	1080	1140
Power Input	kW	282	310	345	375
Heating Capacity	kW	1030	1100	1250	1350
Power Input	kW	300	300	337	366
Power Supply(V/PH/Hz)		380/3/50	380/3/50	380/3/50	380/3/50
Fan Motor Power Input	kW	32.4	36	39.6	43.2
Refrigerant	kg	R22/120+135	R22/135+135	R22/105+105+90	R22/105+105+105
Evaporator Type		Shell in Tube Heat Exchange	Shell in Tube Heat Exchange	Shell in Tube Heat Exchange	Shell in Tube Heat Exchange
Water Flow	m <sup>3</sup> /h	159.96	172	185.76	196.08
Water Pressure Drop	kPa	50	50	52	52
Connection Pipe Size	DN	150	150	200	200
Length	mm	9800	122000	13500	14550
Width	mm	2260	2260	2260	2260
Height	mm	2550	2550	2550	2550
Net Weight	kg	10700	10800	11480	12240
Running Weight	kg	10900	11000	11730	12480

MODEL		LSBLGRF1290	LSBLGRF1360	LSBLGRF1430	LSBLGRF1500
Cooling Capacity	kW	1290	1360	1430	1500
Power Input	kW	382	409	437	465
Heating Capacity	kW	1440	1510	1580	1650
Power Input	kW	375	400	425	450
Power Supply(V/PH/Hz)		380/3/50	380/3/50	380/3/50	380/3/50
Fan Motor Power Input	kW	43.2	46.8	50.4	54
Refrigerant	kg	R22/120+120+120	R22/120+120+135	R22/135+135+135	R22/135+135+135
Evaporator Type		Shell in Tube Heat Exchange	Shell in Tube Heat Exchange	Shell in Tube Heat Exchange	Shell in Tube Heat Exchange
Water Flow	m <sup>3</sup> /h	221.88	233.92	245.96	258
Water Pressure Drop	kPa	50	50	55	50
Connection Pipe Size	DN	200	200	200	200
Length	mm	14700	15900	17100	18300
Width	mm	2260	2260	2260	2260
Height	mm	2550	2550	2550	2550
Net Weight	kg	13250	14260	14980	15700
Running Weight	kg	13600	14660	15380	16100

Note:  
When cooling: ambient temperature 35°C; Evaporator water in / out: 12/7°C;  
When heating: ambient temperature DB 7°C, WB 6°C, Condenser water in / out 40/45°C;

## Air Cooled Scroll Chiller and Heat Pump unit

### Quick and automatic defrost

Intelligent and flexible defrosting, advanced defrosting method, complete defrosting, and independent refrigerant cycle of each compressor to defrost alternately to maximize heating requirements.

### Modular design

The structure is integrated, the installation is convenient, the capacity of the unit can be increased arbitrarily, it is simple and easy to implement, and the configuration is flexible, fully meeting different requirements, and a maximum of 16 units can be connected in parallel.

### High efficiency and more stable

Adopt high-efficiency heat exchanger, high heat exchange efficiency; adopt fin-shaped threaded copper tube, effectively increase the heat exchange area; high stamping convection design, small water resistance, more stable operation.

### Multiple protection functions

Advanced intelligent control, with multiple protection devices such as product operation control and safety protection, when a fault occurs, real-time alarm, worry-free operation.





Product Parameter Table

Air Cooled Scroll Chiller and Heat Pump Units

Table with columns for MODEL, Ambient Temperature, Water Out, Capacity, Unit, and various models (LSQWRF35MTA to LSQWRF68MGA-2U) with rows for Cooling Capacity, Power Input, COP, Heating Capacity, Compressor, Fan, Water Side Heat Exchange, etc.

Table with columns for MODEL, Ambient Temperature, Water Out, Capacity, Unit, and various models (LSQWRF100MGA to LSQWRF300MGA) with rows for Cooling Capacity, Power Input, COP, Heating Capacity, Compressor, Fan, Water Side Heat Exchange, etc.

Note: Volks reserves all the right to make whatever modifications if necessary to improve the product at any time without previous notice.



Product Parameter Table

Low Temperature Air cooled Scroll Chiller and Heat Pump Unit

Table with columns for MODEL, Ambient Temperature, Water Out, Capacity, Unit, and various models (LSQWRF35MTALH to LSQWRF300MGALH) with rows for Cooling Capacity, Power Input, COP, Heating Capacity, Compressor, Fan, Water Side Heat Exchange, etc.

Note: Volks reserves all the right to make whatever modifications if necessary to improve the product at any time without previous notice.

# Water to Water Water(Ground) Source Heat Pump

Because of focus, so professional

## Water to Water Water(Ground) Source Heat Pump

Save energy and Environmental friendly

The water source side adopts large temperature difference and small flow, saving water, environmental protection and energy saving.

Living comfortably

Different rooms can be heated and cooled at the same time, greatly improving living comfort.

Running Stable

Microcomputer control, complete protection devices, stable and reliable operation.

Remote Control

Easy to operate, and the unit can be centrally monitored and remotely controlled.

Application Area: 50 m2 above

Application Places: Homes, supermarkets, schools, shopping malls, hotels, hospitals, office buildings, entertainment place and other spaces.



Product Parameter Table

Water to water water(Ground) Source Heat Pump

MODEL	GSHP10	GSHP13	GSHP15	GSHP20	GSHP25	GSHP25 (Two Compressor)	
Cooling Capacity (kW)	10	13	15	20	25	25	
Heating Capacity (kW) 45°C water	11.5	15	17	24	30	30	
Power Input	Cooling (kW)	2.2	2.6	3	4	5	2.5*2
	Heating (kW) 45°C water	2.8	3.5	4	5.7	6.7	3.4*2
Refrigerant	type						R22
Power Supply	V/Ph/Hz						380/3/50
Compressor Type		Entire seal vortex type					
Evaporator	type	Tube in Tube					
	Pressure Drop (kPa)	30	30	33	33	35	35
Condenser	type	Tube in Tube					
	Pressure Drop (kPa)	30	35	35	38	38	38
	Pipe Size	DN40	DN40	DN40	DN40	DN40	DN40
Using Side	Water Flow (m3/h)	1.98	2.58	2.92	4.13	5.16	5.16
Source Side	Water Flow (m3/h)	1.07	1.41	1.6	2.25	2.86	2.86
Dimension	Length (mm)	1350	1350	1350	1350	1450	1450
	Width (mm)	700	700	700	700	700	700
	Height (mm)	1000	1000	1000	1000	1150	1150
Net Weight	kg	120	150	180	220	260	260
Noise	dB (A)	54	56	58	60	60	60

MODEL	GSHP30	GSHP30 (Two Compressor)	GSHP40	GSHP40 (Two Compressor)	GSHP50	GSHP60	GSHP80	
Cooling Capacity (kW)	30	30	40	40	50	60	80	
Heating Capacity (kW) 45°C water	38	38	48	48	58	68	90	
Power Input	Cooling (kW)	6	3*2	7.5	4*2	10	11.5	15
	Heating (kW) 45°C water	8.5	4*2	10.8	5.7*2	13.4	16.8	21.6
Refrigerant	type						R22	
Power Supply	V/Ph/Hz						380/3/50	
Compressor Type		Entire seal vortex type						
Evaporator	type	Tube in Tube						
	Pressure Drop (kPa)	40	40	40	40	45	45	52
Condenser	type	Tube in Tube						
	Pressure Drop (kPa)	40	40	40	40	42	42	50
	Pipe Size	DN40	DN40	DN40	DN40	DN50	DN50	DN50
Using Side	Water Flow (m3/h)	6.53	6.53	8.25	8.25	9.63	11.7	13.76
Source Side	Water Flow (m3/h)	3.62	3.62	4.57	4.57	5.23	6.29	8.24
Dimension	Length (mm)	1450	1450	1450	1450	1600	1750	1750
	Width (mm)	700	700	700	700	900	900	900
	Height (mm)	1150	1150	1150	1150	1330	1330	1330
Net Weight	kg	300	300	320	320	380	400	550
Noise	dB (A)	60	60	60	60	60	60	65

Note:  
When ground water cooling conditioning: Loading side water in / out: 12/7, Source water in/out: 18 /29  
When ground water heating conditioning: Source water in / out: 15 / 7  
Volks reserves all the right to make whatever modifications if necessary to improve the product at any time without previous notice.



## Modular water to water water(Ground) Source Heat Pump

Save energy and Environmental friendly

High efficient, Save energy, Environmental friendly, Renewable energy source

Running Quietly

Easy to transport and install, Run Quietly, Low Noise

Free Combination

Modular design, it is convenient to increase or decrease the unit, and the unit can be freely combined according to the requirement

Wide Range of Applications

Significant environmental and economic benefits, wide range of applications

Application Area: 800m2 above

Application Place: Hotels, office buildings, stations, factories, large supermarkets, hospitals, banks, farms and other medium and large places



Products Parameter Table

Modular Water to Water Water(Ground) Source Heat Pump

MODEL	GSHP90K	GSHP130K	GSHP160K	GSHP200K	GSHP240K	GSHP90K-C	
Cooling Capacity (kW)	90	130	160	200	240	90	
Heating Capacity(KW)(45 Water Out Temperature)	95	139	172	215	255	95	
Compressor	Type	Fully enclosed scroll compressor					
	Qty	2	3	4	5	6	2
	Cooling Power Input (kW)	16.7	24.1	29.6	37	45	16.7
	Heating Power Input (kW) (45 °C)	19.6	28.5	35.2	44	53	19.6
Power Supply	380V /3/ 50Hz						
Control Range	2 级	3 级	4 级	5 级	6 级	2 级	
Max.Current	2×26	3×26	4×26	5×6	6×26	2×26	
Refrigerant	Type	R22					
	Charge (kg)	2*7	3*7	4*7	5*7	6*7	2*7
Evaporator	Type	Shell in Tube					
	Pressure Drop (kPa)	50	56	58	60	60	50
	Pipe Size	DN50	DN65	DN65	DN80	DN80	DN50
	Water Flow when Cooling (m3 /h)	15.5	22.4	27.5	34.4	41.3	15.5
	Water Flow when Heating (m3 /h)	8.3	12.0	14.8	18.5	22.3	8.3
	Condenser	Type	Shell in Tube				
Pressure Drop (kPa)		40	45	50	50	50	40
Pipe Size		DN50	DN65	DN65	DN80	2-DN65	DN50
Water Flow when Cooling (m3 /h)		8.3	12.0	14.8	18.5	22.3	8.3
Dimension	Length (mm)	1750	2500	2500	3200	3400	1750
	Width (mm)	800	850	900	950	1050	800
	Height (mm)	1400	1450	1450	1450	1600	1400
Weight (kg)	680	830	1080	1250	1500	680	
Noise (dB)	≤ 76	≤ 76	≤ 76	≤ 76	≤ 76	≤ 76	

Note:

When ground water cooling conditioning: Loading side water in / out: 12/7, Source water In/out: 18 /29

When ground water heating conditioning: Loading side water in / out: 40/45, Source water In/out: 15/7

Volks reserves all the right to make whatever modifications if necessary to improve the product at any time without previous notice.



Products Parameter Table

Modular Water to Water Water(Ground) Source Heat Pump

MODEL	130K-C GSHP	160K-C GSHP	200K-C GSHP	240K-C GSHP	180KA GSHP	280KA GSHP	360KA GSHP	
Cooling Capacity (kW)	130	160	200	240	175	270	360	
Heating Capacity(KW)(45 Water Out Temperature)	139	172	215	255	200	285	380	
Compressor	Type	Fully enclosed scroll compressor						
	Qty	3	4	5	6	2	3	4
	Cooling Power Input (kW)	24.1	29.6	37	45	33	49.5	66
	Heating Power Input (kW) (45°C)	28.5	35.2	44	53	43	64.5	86
Power Supply	380V / 3/50Hz							
Control Range	3 级	4 级	5 级	6 级	2 级	3 级	4 级	
Max.Current	3x26	4x26	5x26	6x26	2x62	3x62	4x62	
Refrigerant	Type	R22			R410A			
	Charge (kg)	3*7	4*7	5*7	6*7	2*14	3*14	4*14
Evaporator	Type	Shell in Tube						
	Pressure Drop (kPa)	56	58	60	60	60	60	60
	Pipe Size	DN65	DN65	DN80	DN80	DN80	DN80	DN100
	Water Flow when Cooling (m <sup>3</sup> /h)	22.4	27.5	34.4	41.3	30.1	46.4	61.9
	Water Flow when Heating (m <sup>3</sup> /h)	12.0	14.8	18.5	22.3	13.4	25.0	33.3
Condenser	Type	Shell in Tube						
	Pressure Drop (kPa)	45	50	50	50	52	55	55
	Pipe Size	DN65	DN65	DN80	2-DN65	DN80	DN80	DN100
	Water Flow when Cooling (m <sup>3</sup> /h)	12.0	14.8	18.5	22.3	16.3	25.0	33.3
Dimension	Length (mm)	2500	2500	3200	3400	2300	2750	3200
	Width (mm)	850	900	950	1050	900	900	1000
	Height (mm)	1450	1450	1450	1600	1550	1600	1800
Weight (kg)	830	1080	1250	1500	1150	1600	2000	
Noise (dB)	≤ 76	≤ 76	≤ 76	≤ 76	≤ 76	≤ 76	≤ 76	

Note:  
When ground water cooling conditioning: Loading side water in / out: 12/7, Source water In/out: 18 /29  
When ground water heating conditioning: Loading side water in / out: 40/45, Source water In/out:15/7  
Volks reserves all the right to make whatever modifications if necessary to improve the product at any time without previous notice.

## Screw Type water to water water(Ground) Source Heat Pump

Energy efficient

Energy efficient, Cooling COP more than 5.0

Economical and Environmentally Friendly

Economical and environmentally friendly, using renewable resources, no pollution

Safe and reliable

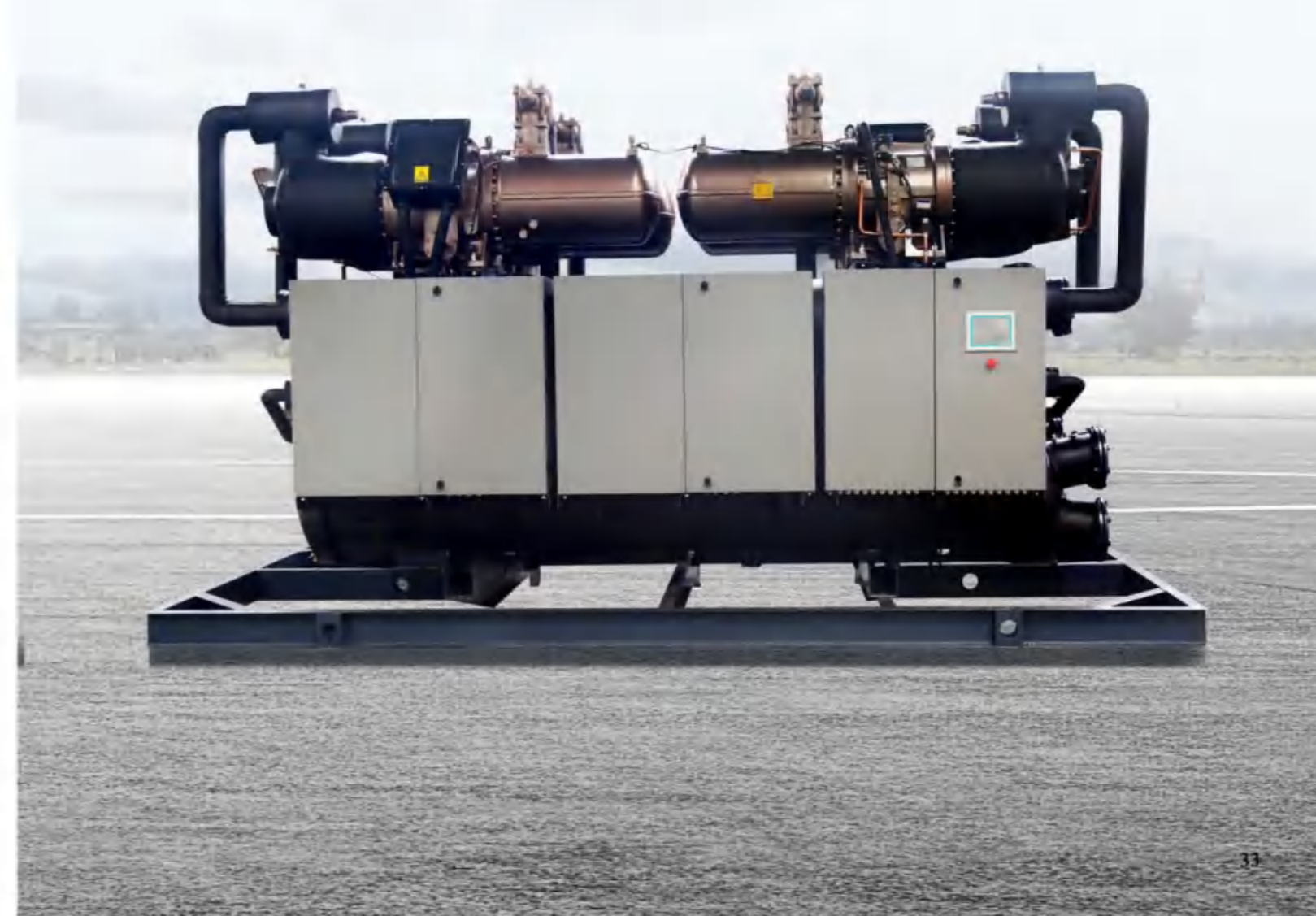
Safe and reliable, multiple protections for the unit, high degree of automation

Wide range of applications

Wide range of applications, can be used for cooling, heating, and providing domestic hot water

Application area: 1000m<sup>2</sup> above

Application Place: Hotels, communities, apartments, factories, shopping malls, office buildings, schools and other buildings





Product Parameter Table

Dry Evaporator Type Water to Water Water(Ground) Source Screw Heat Pump / R22

MODEL	GSHP180	GSHP220	GSHP280	GSHP350	GSHP430	GSHP540	GSHP600	GSHP660	GSHP750		
Cooling Capacity	kW		180	215	270	350	430	540	600	650	730
Power Input	kW		35	41	52	68	83	105	118	125	142
100% Full Loading EER			5.14	5.24	5.19	5.15	5.18	5.14	5.08	5.20	5.14
Heating Capacity	kW		202	248	295	392	475	582	640	700	780
Power Input	kW		44	55	65	85	105	128	140	155	172
100% Full loading COP			4.59	4.51	4.54	4.61	4.52	4.55	4.57	4.52	4.53
Max. Current	A		121	124	171	220	268	298	315	355	393
Control Range	25%~100%										
Circle Qty	1										
Compressor Qty	1										
Compressor Type	Semi-hermetic twice screw										
Power Supply	V/Ph/Hz		380/3/50								
Refrigerant	Type		R22								
Refrigerant Charge	kg		35	42	50	60	73	82	95	110	125
Evaporator Pipe Size			DN80	DN80	DN100	DN100	DN100	DN125	DN125	DN125	DN150
Cooling Water Flow	m /h3		31	37	47	60	74	93	103	112	126
Heating Water Flow	m /h3		17	20	25	33	40	51	56	61	68
Pressure Drop	kPa		53	53	54	54	55	55	56	56	60
Condenser Pipe Size			DN80	DN100	DN100	DN100	DN100	DN125	DN125	DN125	DN150
Cooling Water Flow	m /h3		17	20	25	33	40	51	56	61	68
Heating Water Flow	m /h3		31	37	47	60	74	93	103	112	126
Pressure Drop	kPa		34	34	34	34	35	35	36	36	38
Heat Recovery	kW		36	43	54	70	86	108	120	130	146
Heat Recovery	m /h3		6	7	9	12	15	19	21	22	25
Pressure Drop	kPa		26	26	26	26	28	27	27	27	28
Length	mm		2800	2800	3000	3300	3300	3300	3500	3500	3600
Width	mm		1300	1300	1350	1350	1400	1400	1400	1450	1550
Height	mm		1440	1440	1470	1650	1650	1650	1700	1700	1700
Running Weight	kg		2000	2200	2310	2400	2480	2650	3000	3400	3800
Noise	dB(A)		69	69	69	70	70	70	73	73	73

Note:  
Cooling: Evaporator water In/Out 12/7, Condenser water in/out 18/29;  
Heating: Evaporator water In 15, Condenser water 40;  
Heat Recovery Water In/Out 40/45 ;  
Evaporator and Condenser Pressure Bear Ability are all 1.0MPa;  
Volks reserves all the right to make whatever modifications if necessary to improve the product at any time without previous notice.

Product Parameter Table

Dry Evaporator Type Water to Water Water(Ground) Source Screw Heat Pump / R22

MODEL	GSHP860	GSHP920	GSHP1020	GSHP1120	GSHP1200	GSHP1300	GSHP1400	GSHP1560	GSHP1720		
Cooling Capacity	kW		850	920	1000	1100	1200	1300	1400	1560	1700
Power Input	kW		162	178	194	212	234	255	268	298	329
100% Full Loading EER			5.25	5.17	5.15	5.19	5.13	5.10	5.22	5.23	5.17
Heating Capacity	kW		900	950	1080	1150	1250	1350	1480	1600	1780
Power Input	kW		195	210	238	252	272	295	325	342	382
100% Full loading COP			4.62	4.52	4.54	4.56	4.60	4.58	4.55	4.68	4.66
Max. Current	A		453	498	534	620	630	710	754	784	906
Control Range	25%~100%					12.5%~100%					
Circle Qty	1					2					
Compressor Qty	1					2					
Compressor Type	Semi-hermetic twice screw										
Power Supply	V/Ph/Hz		380/3/50								
Refrigerant	Type		R22								
Refrigerant Charge	kg		155	170	180	196	208	225	240	256	274
Evaporator Pipe Size			DN150	DN150	DN150	DN150	DN150	DN200	DN200	DN200	DN200
Cooling Water Flow	m /h3		146	158	172	189	207	224	241	269	293
Heating Water Flow	m /h3		79	86	93	103	112	122	131	145	159
Pressure Drop	kPa		62	62	62	63	65	65	66	66	66
Condenser Pipe Size			DN150	DN150	DN150	DN150	DN150	DN200	DN200	DN200	DN200
Cooling Water Flow	m /h3		79	86	93	103	112	122	131	145	159
Heating Water Flow	m /h3		146	158	172	189	207	224	241	269	293
Pressure Drop	kPa		40	40	42	42	43	43	45	45	45
Heat Recovery	kW		255	276	300	330	360	390	420	468	510
Heat Recovery	m /h3		44	47	52	57	62	67	72	80	88
Pressure Drop	kPa		30	30	32	32	32	33	34	34	34
Length	mm		3700	3700	3800	3900	4350	4350	4580	4700	5000
Width	mm		1550	1600	1600	1600	1650	1650	1700	1700	1750
Height	mm		1780	1780	1800	1850	1600	1650	1800	1800	1850
Running Weight	kg		3900	4150	4360	4600	5100	5600	6200	7000	7230
Noise	dB(A)		69	69	69	70	70	70	73	73	75

Note:  
Cooling: Evaporator water In/Out 12/7, Condenser water in/out 18/29;  
Heating: Evaporator water In 15, Condenser water 40;  
Heat Recovery Water In/Out 40/45 ;  
Evaporator and Condenser Pressure Bear Ability are all 1.0MPa;  
Volks reserves all the right to make whatever modifications if necessary to improve the product at any time without previous notice.



Product Parameter Table

Dry Evaporator Type Water to Water Water(Ground) Source Screw Heat Pump / R22

MODEL		GSHP1840	GSHP2040	GSHP2300	GSHP2400	GSHP2600	GSHP2800	GSHP3000	GSHP3440	GSHP3600
Cooling Capacity	kW	1800	2000	2250	2400	2550	2800	2950	3400	3500
Power Input	kW	348	385	432	458	488	535	568	647	663
100% Full Loading EER		5.17	5.19	5.21	5.24	5.23	5.23	5.19	5.26	5.28
Heating Capacity	kW	1900	2100	2320	2500	2680	2900	3050	3500	3680
Power Input	kW	408	445	498	535	582	630	665	755	805
100% Full loading COP		4.66	4.72	4.66	4.67	4.60	4.60	4.59	4.64	4.57
Max.Curren	A	996	1068	1240	1344	1420	1508	1572	1812	1992
Control Range		12.5%~100%				6.25%~100%				
Circle Qty		2				4				
Compressor Qty		2				4				
Compressor Type		Semi-hermetic twice screw								
Power Supply	V/Ph/Hz	380/3/50								
Refrigerant	Type	R22								
Refrigerant Charge	kg	300	330	365	400	448	490	520	550	578
Evaporator Pipe Size		DN200	DN200	DN200	2-DN150	2-DN150	2-DN150	2-DN200	2-DN200	2-DN200
Cooling Water Flow	m /h3	310	344	388	413	439	482	508	586	603
Heating Water Flow	m /h3	168	187	210	224	238	261	275	317	326
Pressure Drop	kPa	68	68	69	69	70	70	71	72	72
Condenser Pipe Size		DN200	DN200	DN200	2-DN150	2-DN150	2-DN150	2-DN200	2-DN200	2-DN200
Cooling Water Flow	m /h3	168	187	210	224	238	261	275	317	326
Heating Water Flow	m /h3	310	344	388	413	439	482	508	586	603
Pressure Drop	kPa	45	46	50	65	65	65	67	67	67
Heat Recovery	kW	360	400	450	480	510	560	590	680	700
Heat Recovery	m /h3	62	69	77	83	88	96	101	117	120
Pressure Drop	kPa	35	35	35	38	38	38	40	40	40
Length	mm	4900	5200	5200	5000	5000	5000	5200	5200	5200
Width	mm	1750	1800	1800	2200	2350	2350	2500	2500	2500
Height	mm	1900	2000	2000	2300	2350	2350	2400	2480	2480
Running Weight	kg	7480	8000	8500	10400	13000	13500	13800	14000	14800
Noise	dB(A)	73	73	73	73	75	75	75	75	75

Note:  
Cooling: Evaporator water In/Out 12/7, Condenser water in/out 18/29;  
Heating: Evaporator water In 15, Condenser water 40;  
Heat Recovery Water In/Out 40/45 ;  
Evaporator and Condenser Pressure Bear Ability are all 1.0MPa;  
Volks reserves all the right to make whatever modifications if necessary to improve the product at any time without previous notice.

Product Parameter Table

Dry Evaporator Type Water to Water Water(Ground) Source Screw Heat Pump / R134a

MODEL		GSHP180B	GSHP220B	GSHP280B	GSHP350B	GSHP430B	GSHP480B	GSHP540B	GSHP660B	GSHP780B
Cooling Capacity	kW	180	220	280	350	430	480	540	650	760
Power Input	kW	35	42	53	67	80	91	103	125	145
100% Full Loading EER		5.22	5.24	5.28	5.22	5.38	5.27	5.24	5.20	5.24
Heating Capacity	kW	200	245	310	390	475	545	588	710	825
Power Input	kW	43	53	67	84	102	117	125	152	178
100% Full loading COP		4.65	4.62	4.63	4.64	4.66	4.66	4.70	4.67	4.63
Max.Current	A	171	203	241	336	377	393	453	534	620
Control Range		25%~100%								
Circle Qty		1								
Compressor Qty		1								
Compressor Type		Semi-hermetic twice screw								
Power Supply	V/Ph/Hz	380/3/50								
Refrigerant	Type	R134a								
Refrigerant Charge	kg	60	75	90	120	145	160	185	205	230
Evaporator Pipe Size		DN80	DN80	DN100	DN100	DN125	DN125	DN125	DN125	DN150
Cooling Water Flow	m /h3	31	38	48	60	74	83	93	112	131
Heating Water Flow	m /h3	17	21	26	33	40	45	50	61	71
Pressure Drop	kPa	53	53	54	54	55	55	56	56	60
Condenser Pipe Size		DN80	DN80	DN100	DN100	DN125	DN125	DN125	DN125	DN150
Cooling Water Flow	m /h3	17	21	26	33	40	45	50	61	71
Heating Water Flow	m /h3	31	38	48	60	74	83	93	112	131
Pressure Drop	kPa	34	34	34	34	35	35	36	36	
Heat Recovery	kW	36	44	56	70	86	96	108	130	152
Heat Recovery	m /h3	6	8	10	12	15	17	19	22	26
Pressure Drop	kPa	26	26	26	26	28	27	27	27	28
Length	mm	2800	2800	3300	3300	3450	3550	3550	3700	3700
Width	mm	1200	1200	1300	1400	1550	1550	1600	1600	1600
Height	mm	1440	1440	1480	1600	1700	1780	1780	1800	1850
Running Weight	kg	1800	1900	2400	3000	3800	3900	4150	4360	4600
Noise	dB(A)	60	60	65	65	65	68	68	68	70

Note:  
Cooling: Evaporator water In/Out 12/7, Condenser water in/out 18/29;  
Heating: Evaporator water In 15, Condenser water 40;  
Heat Recovery Water In/Out 40/45 ;  
Evaporator and Condenser Pressure Bear Ability are all 1.0MPa;  
Volks reserves all the right to make whatever modifications if necessary to improve the product at any time without previous notice.

**Product Parameter Table**
**Dry Evaporator Type Water to Water Water(Ground) Source Screw Heat Pump / R134a**

MODEL	GSHP860B	GSHP960B	GSHP1080B	GSHP1200B	GSHP1320B	GSHP1520B	GSHP1720B	GSHP1920B	GSHP2200B	
Cooling Capacity	kW	850	950	1050	1150	1300	1500	1700	1900	2160
Power Input	kW	163	180	201	220	248	285	323	362	412
100% Full Loading EER		5.21	5.28	5.22	5.23	5.24	5.26	5.26	5.25	5.24
Heating Capacity	kW	900	1000	1130	1250	1380	1580	1800	2050	2280
Power Input	kW	190	215	245	268	295	340	385	442	482
100% Full loading COP		4.74	4.65	4.61	4.66	4.68	4.65	4.68	4.64	4.73
Max.Curren	A	710	786	906	996	1068	1240	1420	1572	1812
Control Range	25%~100%									
Circle Qty	2					4				
Compressor Qty	2					4				
Compressor Type	Semi-hermetic twice screw									
Power Supply	V/Ph/Hz	380/3/50								
Refrigerant	Type	R134a								
Refrigerant Charge	kg	270	300	330	370	400	435	470	500	540
Evaporator Pipe Size		DN150	DN150	DN150	DN150	DN200	DN200	2-DN125	2-DN150	2-DN150
Cooling Water Flow	m /h3	146	164	181	198	224	258	293	327	372
Heating Water Flow	m /h3	79	88	98	107	121	140	158	177	201
Pressure Drop	kPa	53	53	54	54	55	55	56	56	60
Condenser Pipe Size		DN150	DN1150	DN150	DN150	DN200	DN200	2-DN125	2-DN150	2-DN150
Cooling Water Flow	m /h3	79	88	98	107	121	140	158	177	201
Heating Water Flow	m /h3	146	164	181	198	224	258	293	327	372
Pressure Drop	kPa	34	34	34	34	35	35	36	36	
Heat Recovery	kW	170	190	210	230	260	300	340	380	432
Heat Recovery	m /h3	29	33	36	40	45	52	59	65	74
Pressure Drop	kPa	26	26	26	26	28	27	27	27	28
Length	mm	4600	4700	4750	4900	4900	4900	5000	5000	5100
Width	mm	1780	1800	1800	1750	1750	1800	2200	2300	2300
Height	mm	1650	1800	1850	1900	2000	2000	2300	2350	2350
Running Weight	kg	5600	7000	7230	7480	8000	8500	10000	10800	12000
Noise	dB(A)	70	70	70	70	73	73	73	73	73

Note:  
 Cooling: Evaporator water In/Out 12/7, Condenser water in/out 18/29;  
 Heating: Evaporator water In 15, Condenser water 40;  
 Heat Recovery Water In/Out 40/45 ;  
 Evaporator and Condenser Pressure Bear Ability are all 1.0MPa;  
 Volks reserves all the right to make whatever modifications if necessary to improve the product at any time without previous notice.

**Product Parameter Table**
**Dry Evaporator Type Water to Water Water(Ground) Source Screw Heat Pump / R134a**

MODEL	GSHP2400B	GSHP2650B	GSHP3000B	
Cooling Capacity	kW	2350	2600	2980
Power Input	kW	445	495	569
100% Full Loading EER		5.28	5.25	5.24
Heating Capacity	kW	2460	2730	3100
Power Input	kW	525	578	655
100% Full loading COP		4.69	4.72	4.73
Max.Current	A	1992	2136	2480
Control Range	6.25%~100%			
Circle Qty	4			
Compressor Qty	4			
Compressor Type	Semi-hermetic twice screw			
Power Supply	V/Ph/Hz	380/3/50		
Refrigerant	Type	R134a		
Refrigerant Charge	kg	570	600	640
Evaporator Pipe Size		2-DN150	2-DN200	2-DN200
Cooling Water Flow	m /h3	405	448	513
Heating Water Flow	m /h3	219	242	278
Pressure Drop	kPa	53	53	54
Condenser Pipe Size		2-DN150	2-DN200	2-DN200
Cooling Water Flow	m /h3	219	242	278
Heating Water Flow	m /h3	405	448	513
Pressure Drop	kPa	34	34	34
Heat Recovery Capacity	kW	470	520	596
Heat Recovery Water Flow	m /h3	81	90	103
Pressure Drop	kPa	26	26	26
Length	mm	5100	5200	5200
Width	mm	2400	2500	2500
Height	mm	2350	2400	2480
Running Weight	kg	13000	14000	15000
Noise	dB(A)	75	75	75

Note:  
 Cooling: Evaporator water In/Out 12/7, Condenser water in/out 18/29;  
 Heating: Evaporator water In 15, Condenser water 40;  
 Heat Recovery Water In/Out 40/45 ;  
 Evaporator and Condenser Pressure Bear Ability are all 1.0MPa;  
 Volks reserves all the right to make whatever modifications if necessary to improve the product at any time without previous notice.



Product Parameter Table

Flooded Type Water to Water Water(Ground) Source Screw Heat Pump / R22

MODEL		GSHP220M	GSHP280M	GSHP350M	GSHP410M	GSHP430M	GSHP540M
Cooling Capacity	kW	220	278	350	408	430	540
Power Input	kW	40	50	63	74	78	98
100% Full Loading EER		5.50	5.56	5.56	5.51	5.51	5.51
Heating Capacity	kW	248	300	385	452	475	595
Power Input	kW	50	61	78	91	96	120
100% Full loading COP		4.96	4.92	4.94	4.97	4.95	4.96
Max Current	A	121	124	171	220	241	268
Control Range		25%~100%					
Circle Qty		1					
Compressor Qty		1					
Compressor Type		Semi-hermetic twice screw					
Power Supply	V/Ph/Hz	380/3/50					
Refrigerant	Type	R22					
Refrigerant Charge	kg	50	70	100	125	140	160
Evaporator Pipe Size		DN80	DN80	DN100	DN125	DN125	DN125
Cooling Water Flow	m /h3	38	48	60	70	74	93
Heating Water Flow	m /h3	21	26	33	39	41	51
Pressure Drop	kPa	53	53	54	54	54	55
Condenser Pipe Size		DN80	DN100	DN100	DN125	DN125	DN125
Cooling Water Flow	m /h3	20	26	32	38	40	50
Heating Water Flow	m /h3	38	48	60	70	74	93
Pressure Drop	kPa	34	34	34	34	34	35
Heat Recovery Capacity	kW	44	56	70	82	86	108
Heat Recovery Water Flow	m /h3	8	10	12	14	15	19
Pressure Drop	kPa	26	26	26	26	26	28
Length	mm	3400	3400	3400	3500	3700	3700
Width	mm	1400	1400	1400	1400	1450	1500
Height	mm	1600	1600	1600	1650	1650	1780
Running Weight	kg	2300	2800	3100	3500	4000	4500
Noise	dB(A)	55	60	60	60	63	63

Note:  
Cooling: Evaporator water In/Out 12/7, Condenser water in/out 18/29;  
Heating: Evaporator water In 15, Condenser water 40;  
Heat Recovery Water In/Out 40/45 ;  
Evaporator and Condenser Pressure Bear Ability are all 1.0MPa;  
Volks reserves all the right to make whatever modifications if necessary to improve the product at any time without previous notice.

Product Parameter Table

Flooded Type Water to Water Water(Ground) Source Screw Heat Pump / R22

MODEL		GSHP620M	GSHP680M	GSHP720M	GSHP860M	GSHP960M
Cooling Capacity	kW	600	675	720	850	950
Power Input	kW	109	122	130	154	172
100% Full Loading EER		5.50	5.53	5.54	5.52	5.52
Heating Capacity	kW	678	720	800	900	1000
Power Input	kW	138	145	162	182	203
100% Full loading COP		4.91	4.97	4.94	4.95	4.93
Max Current	A	298	315	355	393	453
Control Range		25%~100%				
Circle Qty		1				
Compressor Qty		1				
Compressor Type		Semi-hermetic twice screw				
Power Supply	V/Ph/Hz	380/3/50				
Refrigerant	Type	R22				
Refrigerant Charge	kg	195	220	260	290	310
Evaporator Pipe Size		DN125	DN125	DN150	DN150	DN150
Cooling Water Flow	m /h3	103	116	124	146	164
Heating Water Flow	m /h3	58	62	69	77	86
Pressure Drop	kPa	55	56	56	60	62
Condenser Pipe Size		DN125	DN125	DN150	DN150	DN150
Cooling Water Flow	m /h3	56	62	67	79	88
Heating Water Flow	m /h3	103	116	124	146	164
Pressure Drop	kPa	35	36	36	38	40
Heat Recovery Capacity	kW	120	135	144	170	285
Heat Recovery Water Flow	m /h3	21	23	25	29	49
Pressure Drop	kPa	27	27	27	28	30
Length	mm	3750	3800	3800	4000	4250
Width	mm	1500	1500	1500	1500	1650
Height	mm	1780	1780	1780	1780	1900
Running Weight	kg	4800	5100	5500	5800	6280
Noise	dB(A)	63	65	65	65	69

Note:  
Cooling: Evaporator water In/Out 12/7, Condenser water in/out 18/29;  
Heating: Evaporator water In 15, Condenser water 40;  
Heat Recovery Water In/Out 40/45 ;  
Evaporator and Condenser Pressure Bear Ability are all 1.0MPa;  
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## Product Parameter Table

## Flooded Type Water to Water Water(Ground) Source Screw Heat Pump / R22

MODEL		GSHP1080M	GSHP1120M	GSHP1300M	GSHP1240M	GSHP1300M	GSHP1560M
Cooling Capacity	kW	1050	1100	1280	1200	1280	1530
Power Input	kW	190	200	232	218	228	278
100% Full Loading EER		5.53	5.50	5.52	5.50	5.61	5.50
Heating Capacity	kW	1135	1195	1360	1300	1360	1625
Power Input	kW	230	242	275	262	275	330
100% Full loading COP		4.93	4.94	4.95	4.96	4.95	4.92
Max.Current	A	498	534	620	596	630	710
Control Range		25%~100%			12.5%-100%		
Circle Qty		1			2		
Compressor Qty		1			2		
Compressor Type		Semi-hermetic twice screw					
Power Supply	V/Ph/Hz	380/3/50					
Refrigerant	Type	R22					
Refrigerant Charge	kg	335	358	390	378	420	486
Evaporator Pipe Size		DN150	DN150	DN150	DN150	DN200	DN200
Cooling Water Flow	m /h3	181	189	220	207	220	264
Heating Water Flow	m /h3	97	102	118	111	118	142
Pressure Drop	kPa	62	62	65	65	65	66
Condenser Pipe Size		DN150	DN150	DN150	DN150	DN200	DN200
Cooling Water Flow	m /h3	97	102	118	111	118	142
Heating Water Flow	m /h3	181	189	220	207	220	264
Pressure Drop	kPa	40	42	42	43	43	45
Heat Recovery Capacity	kW	315	330	384	360	384	459
Heat Recovery Water Flow	m /h3	54	57	66	62	66	79
Pressure Drop	kPa	30	32	32	32	33	34
Length	mm	4250	4300	4300	4600	4750	4750
Width	mm	1500	1500	1500	1700	1700	1750
Height	mm	1800	1800	1800	1900	1900	1900
Running Weight	kg	6400	6580	6900	7000	7300	7500
Noise	dB(A)	69	69	69	70	70	73

Note:  
 Cooling: Evaporator water In/Out 12/7, Condenser water in/out 18/29;  
 Heating: Evaporator water In 15, Condenser water 40;  
 Heat Recovery Water In/Out 40/45 ;  
 Evaporator and Condenser Pressure Bear Ability are all 1.0MPa;  
 Volks reserves all the right to make whatever modifications if necessary to improve the product at any time without previous notice.

## Product Parameter Table

## Flooded Type Water to Water Water(Ground) Source Screw Heat Pump / R22

MODEL		GSHP1720M	GSHP1920M	GSHP2080M	GSHP2240M	GSHP2480M
Cooling Capacity	kW	1680	1900	2050	2200	2400
Power Input	kW	305	345	370	398	435
100% Full Loading EER		5.51	5.51	5.54	5.53	5.52
Heating Capacity	kW	1810	2050	2160	2350	2620
Power Input	kW	368	415	440	475	532
100% Full loading COP		4.92	4.94	4.91	4.95	4.92
Max.Current	A	786	906	996	1068	1240
Control Range		12.5%-100%				
Circle Qty		2				
Compressor Qty		2				
Compressor Type		Semi-hermetic twice screw				
Power Supply	V/Ph/Hz	380/3/50				
Refrigerant	Type	R22				
Refrigerant Charge	kg	550	590	660	700	780
Evaporator Pipe Size		DN200	DN200	DN200	DN250	DN250
Cooling Water Flow	m /h3	289	327	353	379	413
Heating Water Flow	m /h3	155	176	189	203	222
Pressure Drop	kPa	66	66	68	69	69
Condenser Pipe Size		DN200	DN200	DN200	DN250	DN250
Cooling Water Flow	m /h3	155	176	189	203	222
Heating Water Flow	m /h3	289	327	353	379	413
Pressure Drop	kPa	45	45	45	50	50
Heat Recovery Capacity	kW	504	570	410	440	480
Heat Recovery Water Flow	m /h3	87	98	71	76	83
Pressure Drop	kPa	34	34	35	35	35
Length	mm	4750	4750	4800	4800	4800
Width	mm	1750	1800	1850	1900	1900
Height	mm	1900	1950	1950	2000	2000
Running Weight	kg	7800	8200	8500	9000	9500
Noise	dB(A)	73	75	75	75	77

Note:  
 Cooling: Evaporator water In/Out 12/7, Condenser water in/out 18/29;  
 Heating: Evaporator water In 15, Condenser water 40;  
 Heat Recovery Water In/Out 40/45 ;  
 Evaporator and Condenser Pressure Bear Ability are all 1.0MPa;  
 Volks reserves all the right to make whatever modifications if necessary to improve the product at any time without previous notice.



Product Parameter Table

Flooded Type Water to Water Water(Ground) Source Screw Heat Pump / R134a

MODEL		GSHP300BM	GSHP330M	GSHP370BM	GSHP400BM	GSHP430BM
Cooling Capacity	kW	300	330	370	400	430
Power Input	kW	54	59	67	72	78
100% Full Loading EER		5.56	5.59	5.52	5.56	5.51
Heating Capacity	kW	330	365	405	452	472
Power Input	kW	65	72	80	90	94
100% Full loading COP		5.08	5.07	5.06	5.02	5.02
Max.Current	A	241	268	310	336	355
Control Range		25%-100%				
Circle Qty		1				
Compressor Qty		1				
Compressor Type		Semi-closed twin-screw compressor				
Power Supply	V/Ph/Hz	380V/3PH/50HZ				
Refrigerant	Type	R134a				
Refrigerant Charge	kg	95	102	110	125	145
Evaporator Pipe Size		DN100	DN100	DN100	DN100	DN100
Cooling Water Flow	m /h3	52	57	64	69	74
Heating Water Flow	m /h3	28	30	34	37	40
Pressure Drop	kPa	53	53	54	54	54
Condenser Pipe Size		DN100	DN100	DN100	DN100	DN100
Cooling Water Flow	m /h3	28	30	34	37	40
Heating Water Flow	m /h3	52	57	64	69	74
Pressure Drop	kPa	34	34	34	34	34
Heat Recovery Capacity	kW	60	66	74	80	86
Heat Recovery Water Flow	m /h3	10	11	13	14	15
Pressure Drop	kPa	26	26	26	26	26
Length	mm	3700	3700	3800	3820	4000
Width	mm	1300	1300	1400	1400	1450
Height	mm	1600	1600	1700	1700	1700
Running Weight	kg	3000	3200	3450	3700	4000
Noise	dB(A)	69	69	69	69	70

Note:  
Cooling: Evaporator water In/Out 12/7, Condenser water in/out 18/29;  
Heating: Evaporator water In 15, Condenser water 40;  
Heat Recovery Water In/Out 40/45 ;  
Evaporator and Condenser Pressure Bear Ability are all 1.0MPa;  
Volks reserves all the right to make whatever modifications if necessary to improve the product at any time without previous notice.

Product Parameter Table

Flooded Type Water to Water Water(Ground) Source Screw Heat Pump / R134a

MODEL		GSHP540BM	GSHP620BM	GSHP670BM	GSHP700BM	GSHP860BM
Cooling Capacity	kW	520	600	650	700	850
Power Input	kW	94	108	118	126	154
100% Full Loading EER		5.53	5.56	5.51	5.56	5.52
Heating Capacity	kW	580	655	720	760	915
Power Input	kW	115	130	142	150	182
100% Full loading COP		5.04	5.04	5.07	5.07	5.03
Max.Current	A	377	453	498	534	620
Control Range		25%-100%				
Circle Qty		1				
Compressor Qty		1				
Compressor Type		Semi-closed twin-screw compressor				
Power Supply	V/Ph/Hz	380V/3PH/50HZ				
Refrigerant	Type	R134a				
Refrigerant Charge	kg	160	200	220	255	270
Evaporator Pipe Size		DN125	DN125	DN125	DN125	DN150
Cooling Water Flow	m /h3	90	103	112	121	146
Heating Water Flow	m /h3	48	55	60	65	79
Pressure Drop	kPa	55	55	56	56	60
Condenser Pipe Size		DN125	DN125	DN125	DN125	DN150
Cooling Water Flow	m /h3	48	55	60	65	79
Heating Water Flow	m /h3	90	103	112	121	146
Pressure Drop	kPa	35	35	36	36	38
Heat Recovery Capacity	kW	104	120	130	140	170
Heat Recovery Water Flow	m /h3	18	21	22	24	29
Pressure Drop	kPa	26	27	27	27	28
Length	mm	4050	4200	4200	4250	4300
Width	mm	1500	1500	1500	1560	1560
Height	mm	1780	1800	1800	1800	1800
Running Weight	kg	4250	4600	4850	5000	5300
Noise	dB(A)	70	70	73	73	73

Note:  
Cooling: Evaporator water In/Out 12/7, Condenser water in/out 18/29;  
Heating: Evaporator water In 15, Condenser water 40;  
Heat Recovery Water In/Out 40/45 ;  
Evaporator and Condenser Pressure Bear Ability are all 1.0MPa;  
Volks reserves all the right to make whatever modifications if necessary to improve the product at any time without previous notice.





Product Parameter Table

Flooded Type Water to Water Water(Ground) Source Screw Heat Pump / R134a

MODEL		920BM GSHP	1080BM GSHP	1200BM GSHP	1340BM GSHP	1450BM GSHP	1720BM GSHP
Cooling Capacity	kW	900	1050	1150	1300	1400	1700
Power Input	kW	162	190	208	235	252	305
100% Full Loading EER		5.56	5.53	5.53	5.53	5.56	5.57
Heating Capacity	kW	965	1130	1260	1410	1515	1800
Power Input	kW	192	223	249	280	300	355
100% Full loading COP		5.03	5.07	5.06	5.04	5.05	5.07
Max.Current	A	710	754	906	996	1068	1240
Control Range		12.5%-100%					
Circle Qty		2					
Compressor Qty		2					
Compressor Type		Semi-closed twin-screw compressor					
Power Supply	V/Ph/Hz	380V/3PH/50HZ					
Refrigerant	Type	R134a					
Refrigerant Charge	kg	320	350	400	440	510	540
Evaporator Pipe Size		DN150	DN150	DN150	DN200	DN200	DN200
Cooling Water Flow	m /h3	155	181	198	224	241	293
Heating Water Flow	m /h3	83	97	106	120	129	157
Pressure Drop	kPa	65	65	65	65	66	66
Condenser Pipe Size		DN150	DN150	DN150	DN200	DN200	DN200
Cooling Water Flow	m /h3	83	97	106	120	129	157
Heating Water Flow	m /h3	155	181	198	224	241	293
Pressure Drop	kPa	42	42	43	43	45	45
Heat Recovery Capacity	kW	270	315	345	345	390	420
Heat Recovery Water Flow	m /h3	46	54	59	59	67	72
Pressure Drop	kPa	32	32	32	33	34	34
Length	mm	4730	4750	4780	4800	4800	4880
Width	mm	1650	1650	1700	1700	1750	1800
Height	mm	1850	1900	1900	1900	1900	2000
Running Weight	kg	6400	6850	7000	7300	7700	8500
Noise	dB(A)	75	75	75	75	75	75

Note:  
Cooling: Evaporator water In/Out 12/7, Condenser water in/out 18/29;  
Heating: Evaporator water In 15, Condenser water 40;  
Heat Recovery Water In/Out 40/45 ;  
Evaporator and Condenser Pressure Bear Ability are all 1.0MPa;  
Volks reserves all the right to make whatever modifications if necessary to improve the product at any time without previous notice.

Product Parameter Table

Falling Film Type Water to Water Water(Ground) Source Screw Heat Pump / R22

MODEL		GSHP350P	GSHP430P	GSHP540P	GSHP660P	GSHP750P
Cooling Capacity	kW	350	430	540	680	730
Power Input	kW	62	75	95	118	129
100% Full Loading EER		5.65	5.73	5.68	5.76	5.66
Heating Capacity	kW	385	485	590	720	810
Power Input	kW	74	94	115	140	157
100% Full loading COP		5.20	5.16	5.13	5.14	5.16
Max.Current	A	171	241	268	315	355
Control Range		25%-100%				
Circle Qty		1				
Compressor Qty		1				
Compressor Type		Semi-closed twin screw				
Power Supply	V/Ph/Hz	380/3/50				
Refrigerant		R22				
Refrigerant Charge	kg	90	125	150	210	245
Evaporator Pipe Size		DN100	DN125	DN125	DN125	DN150
Cooling Water Flow	m3/h	60	74	93	117	126
Heating Water Flow	m /h3	33	42	51	62	70
Pressure Drop	kPa	54	54	55	56	56
Condenser Pipe Size		DN100	DN125	DN125	DN125	DN150
Cooling Water Flow	m /h3	32	40	50	62	67
Heating Water Flow	m /h3	60	74	93	117	126
Pressure Drop	kPa	34	34	35	36	36
Heat Recovery Capacity	kW	70	86	108	136	146
Heat Recovery Water Flow	m /h3	12	15	19	23	25
Pressure Drop	kPa	26	26	28	27	27
Length	mm	3400	3700	3700	3800	3800
Width	mm	1400	1450	1500	1500	1500
Height	mm	1600	1650	1780	1780	1780
Running Weight	kg	3100	4000	4500	5100	5500
Noise	dB(A)	60	63	63	65	65

Note:  
Cooling: Evaporator water In/Out 12/7, Condenser water in/out 18/29;  
Heating: Evaporator water In 15, Condenser water 40;  
Heat Recovery Water In/Out 40/45 ;  
Evaporator and Condenser Pressure Bear Ability are all 1.0MPa;  
Volks reserves all the right to make whatever modifications if necessary to improve the product at any time without previous notice.

## Product Parameter Table

## Falling Film Type Water to Water Water(Ground) Source Screw Heat Pump / R22

MODEL		GSHP850P	GSHP960P	GSHP1080P	GSHP1120P
Cooling Capacity	kW	850	950	1050	1100
Power Input	kW	150	168	185	193
100% Full Loading EER		5.67	5.65	5.68	5.70
Heating Capacity	kW	910	1050	1120	1200
Power Input	kW	178	205	217	235
100% Full loading COP		5.11	5.12	5.16	5.11
Max.Current	A	393	453	498	534
Control Range		25%-100%			
Circle Qty		1			
Compressor Qty		1			
Compressor Type		Semi-closed twin screw			
Power Supply	V/Ph/Hz	380/3/50			
Refrigerant		R22			
Refrigerant Charge	kg	260	290	315	320
Evaporator Pipe Size		DN150	DN150	DN150	DN150
Cooling Water Flow	m <sup>3</sup> /h	146	164	181	189
Heating Water Flow	m <sup>3</sup> /h	79	91	97	101
Pressure Drop	kPa	60	62	62	62
Condenser Pipe Size		DN150	DN150	DN150	DN150
Cooling Water Flow	m <sup>3</sup> /h	78	88	97	101
Heating Water Flow	m <sup>3</sup> /h	146	164	181	189
Pressure Drop	kPa	38	40	40	42
Heat Recovery Capacity	kW	170	285	315	330
Heat Recovery Water Flow	m <sup>3</sup> /h	29	49	54	57
Pressure Drop	kPa	28	30	30	32
Length	mm	4000	4250	4250	4300
Width	mm	1500	1650	1500	1500
Height	mm	1780	1900	1800	1800
Running Weight	kg	5800	6280	6400	6580
Noise	dB(A)	65	69	69	69

Note:  
 Cooling: Evaporator water In/Out 12/7, Condenser water in/out 18/29;  
 Heating: Evaporator water In 15, Condenser water 40;  
 Heat Recovery Water In/Out 40/45 ;  
 Evaporator and Condenser Pressure Bear Ability are all 1.0MPa;  
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## Product Parameter Table

## Falling Film Type Water to Water Water(Ground) Source Screw Heat Pump / R22

MODEL		1300P GSHP	1320P GSHP	1560P GSHP	1660P GSHP	1920P GSHP	2040P GSHP	2200P GSHP	2520P GSHP
Cooling Capacity	kW	1280	1280	1550	1660	1900	2040	2200	2500
Power Input	kW	225	225	270	292	335	360	385	440
100% Full Loading EER		5.69	5.69	5.74	5.68	5.67	5.67	5.71	5.68
Heating Capacity	kW	1380	1400	1650	1780	2020	2200	2360	2600
Power Input	kW	270	274	322	348	392	430	462	510
100% Full loading COP		5.11	5.11	5.12	5.11	5.15	5.12	5.11	5.10
Max.Current	A	620	630	710	786	906	996	1068	1240
Control Range		25%~100%	12.5%~100%						
Circle Qty		1	2						
Compressor Qty		1	2						
Compressor Type		Semi-closed twin screw							
Power Supply	V/Ph/Hz	380/3/50							
Refrigerant	Type	R22							
Refrigerant Charge	kg	350	420	486	520	570	590	640	700
Evaporator Pipe Size		DN150	DN200	DN200	DN200	DN200	DN200	DN200	DN200
Cooling Water Flow	m <sup>3</sup> /h	220	220	267	286	327	351	379	431
Heating Water Flow	m <sup>3</sup> /h	118	118	142	153	175	188	202	230
Pressure Drop	kPa	65	65	66	66	66	68	69	69
Condenser Pipe Size		DN150	DN200	DN200	DN200	DN200	DN200	DN200	DN200
Cooling Water Flow	m <sup>3</sup> /h	118	118	142	153	175	188	202	230
Heating Water Flow	m <sup>3</sup> /h	220	220	267	286	327	351	379	431
Pressure Drop	kPa	42	43	45	45	45	45	50	50
Heat Recovery Capacity	kW	384	384	465	498	570	408	440	500
Heat Recovery Water Flow	m <sup>3</sup> /h	66	66	80	86	98	70	76	86
Pressure Drop	kPa	32	33	34	34	34	35	35	35
Length	mm	4300	4750	4750	4750	4750	4800	4800	4800
Width	mm	1500	1700	1750	1750	1800	1850	1900	1900
Height	mm	1800	1900	1900	1900	1950	1950	2000	2000
Running Weight	kg	6900	7300	7500	7800	8200	8500	9000	9500
Noise	dB(A)	69	70	73	73	75	75	75	77

Note:  
 Cooling: Evaporator water In/Out 12/7, Condenser water in/out 18/29;  
 Heating: Evaporator water In 15, Condenser water 40;  
 Heat Recovery Water In/Out 40/45 ;  
 Evaporator and Condenser Pressure Bear Ability are all 1.0MPa;  
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## Product Parameter Table

## Falling Film Type Water to Water Water(Ground) Source Screw Heat Pump / R134a

MODEL		GSHP300BP	GSHP330BP	GSHP370BP	GSHP400BP	GSHP430BP
Cooling Capacity	kW	300	330	370	400	430
Power Input	kW	52	58	65	70	75
100% Full Loading EER		5.77	5.69	5.69	5.71	5.73
Heating Capacity	kW	330	365	408	440	475
Power Input	kW	63	70	78	85	90
100% Full loading COP		5.24	5.21	5.23	5.18	5.28
Max.Current	A	241	268	310	336	355
Control Range		25%-100%				
Circle Qty		1				
Compressor Qty		1				
Compressor Type		Semi-closed twin-screw compressor				
Power Supply	V/Ph/Hz	380/3/50				
Refrigerant	Type	R134a				
Refrigerant Charge	kg	95	102	110	125	145
Evaporator Pipe Size		DN100	DN100	DN100	DN100	DN100
Cooling Water Flow	m /h3	52	57	64	69	74
Heating Water Flow	m /h3	28	30	34	37	40
Pressure Drop	kPa	53	53	54	54	54
Condenser Pipe Size		DN100	DN100	DN100	DN100	DN100
Cooling Water Flow	m /h3	28	30	34	37	40
Heating Water Flow	m /h3	52	57	64	69	74
Pressure Drop	kPa	34	34	34	34	34
Heat Recovery Capacity	kW	60	66	74	80	86
Heat Recovery Water Flow	m /h3	10	11	13	14	15
Pressure Drop	kPa	26	26	26	26	26
Length	mm	3700	3700	3800	3820	4000
Width	mm	1300	1300	1400	1400	1450
Height	mm	1600	1600	1700	1700	1700
Running Weight	kg	3000	3200	3450	3700	4000
Noise	dB(A)	69	69	69	69	70

Note:  
 Cooling: Evaporator water In/Out 12/7, Condenser water in/out 18/29;  
 Heating: Evaporator water In 15, Condenser water 40;  
 Heat Recovery Water In/Out 40/45 ;  
 Evaporator and Condenser Pressure Bear Ability are all 1.0MPa;  
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## Product Parameter Table

## Falling Film Type Water to Water Water(Ground) Source Screw Heat Pump / R134a

MODEL		GSHP540BP	GSHP620BP	GSHP670BP	GSHP700BP	GSHP860BP
Cooling Capacity	kW	530	600	650	700	850
Power Input	kW	93	105	115	123	150
100% Full Loading EER		5.70	5.71	5.65	5.69	5.67
Heating Capacity	kW	595	658	724	750	950
Power Input	kW	113	125	138	143	180
100% Full loading COP		5.27	5.26	5.25	5.24	5.28
Max.Current	A	377	453	498	534	620
Control Range		25%-100%				
Circle Qty		1				
Compressor Qty		1				
Compressor Type		Semi-closed twin-screw compressor				
Power Supply	V/Ph/Hz	380/3/50				
Refrigerant	Type	R134a				
Refrigerant Charge	kg	160	200	220	255	270
Evaporator Pipe Size		DN125	DN125	DN125	DN125	DN150
Cooling Water Flow	m /h3	91	103	112	121	146
Heating Water Flow	m /h3	49	55	60	64	78
Pressure Drop	kPa	55	55	56	56	60
Condenser Pipe Size		DN125	DN125	DN125	DN125	DN150
Cooling Water Flow	m /h3	49	55	60	64	78
Heating Water Flow	m /h3	91	103	112	121	146
Pressure Drop	kPa	35	35	36	36	38
Heat Recovery Capacity	kW	106	120	130	140	170
Heat Recovery Water Flow	m /h3	18	21	22	24	29
Pressure Drop	kPa	26	27	27	27	28
Length	mm	4050	4200	4200	4250	4300
Width	mm	1500	1500	1500	1560	1560
Height	mm	1780	1800	1800	1800	1800
Running Weight	kg	4250	4600	4850	5000	5300
Noise	dB(A)	70	70	73	73	73

Note:  
 Cooling: Evaporator water In/Out 12/7, Condenser water in/out 18/29;  
 Heating: Evaporator water In 15, Condenser water 40;  
 Heat Recovery Water In/Out 40/45 ;  
 Evaporator and Condenser Pressure Bear Ability are all 1.0MPa;  
 Volks reserves all the right to make whatever modifications if necessary to improve the product at any time without previous notice.



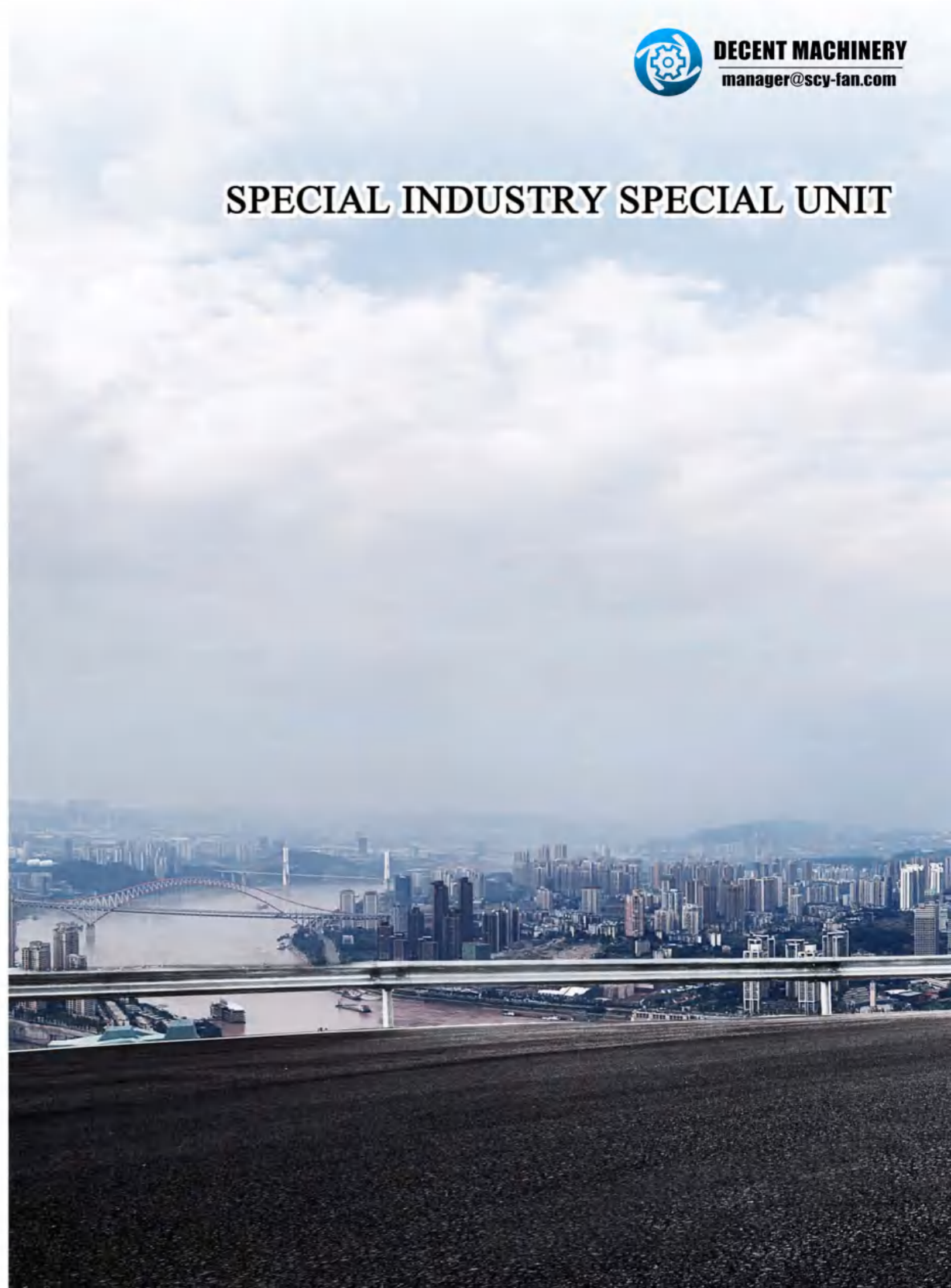
Product Parameter Table

Falling Film Type Water to Water Water(Ground) Source Screw Heat Pump / R134a

MODEL		GSHP920BP	GSHP1080BP	GSHP1200BP	GSHP1340BP	GSHP1450BP	GSHP1720BP
Cooling Capacity	kW	900	1050	1180	1300	1400	1700
Power Input	kW	158	185	208	225	245	295
100% Full Loading EER		5.70	5.68	5.67	5.78	5.71	5.76
Heating Capacity	kW	950	1150	1250	1400	1500	1800
Power Input	kW	182	221	240	268	285	342
100% Full loading COP		5.22	5.20	5.21	5.22	5.26	5.26
Max.Current	A	710	754	906	996	1068	1240
Control Range		12.5%-100%					
Circle Qty		2					
Compressor Qty		2					
Compressor Type		Semi-closed twin-screw compressor					
Power Supply	V/Ph/Hz	380V/3PH/50HZ					
Refrigerant	Type	R134a					
Refrigerant Charge	kg	320	350	370	390	430	500
Evaporator Pipe Size		DN150	DN150	DN150	DN200	DN200	DN200
Cooling Water Flow	m /h3	155	181	203	224	241	293
Heating Water Flow	m /h3	83	97	109	119	129	156
Pressure Drop	kPa	65	65	65	65	66	66
Condenser Pipe Size		DN150	DN150	DN150	DN200	DN200	DN200
Cooling Water Flow	m /h3	83	97	109	119	129	156
Heating Water Flow	m /h3	155	181	203	224	241	293
Pressure Drop	kPa	42	42	43	43	45	45
Heat Recovery Capacity	kW	270	315	354	354	390	420
Heat Recovery Water Flow	m /h3	46	54	61	61	67	72
Pressure Drop	kPa	32	32	32	33	34	34
Length	mm	4730	4750	4780	4800	4800	4880
Width	mm	1650	1650	1700	1700	1750	1800
Height	mm	1850	1900	1900	1900	1900	2000
Running Weight	kg	6400	6850	7000	7300	7700	8500
Noise	dB(A)	75	75	75	75	75	75

Note:  
Cooling: Evaporator water In/Out 12/7, Condenser water in/out 18/29;  
Heating: Evaporator water In 15, Condenser water 40;  
Heat Recovery Water In/Out 40/45 ;  
Evaporator and Condenser Pressure Bear Ability are all 1.0MPa;  
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# SPECIAL INDUSTRY SPECIAL UNIT



## Industry Chiller

### Save Energy and High efficient

Built-in stainless steel water pump, environmentally friendly refrigerant, energy saving and high efficiency.

### Better corrosion resistance

Adopt stainless steel water tank coil heat exchange, anti-corrosion, no rust.

### Running Stable

Use the hermetic scroll compressor, stable operation, high reliability and low noise.

### High operating efficiency

Microcomputer control, automatic loading or unloading according to user needs and actual load, high operating efficiency.

### Precise Control

Use the electronic expansion valve, precise control, can maintain high energy efficiency ratio under different working conditions.

### Easy to Install

Compact structure, beautiful appearance, small size, light weight, quick and easy installation.



### Product Parameter Table

#### Industry Chiller

		MODEL		AC-10AD-S51	AC-15AD-S51	AC-20AD-S51	AC-30AD-S51
Ambient Temperature	Water In / Out Temperature	Capacity	Unit				
35°C /-	12°C /7°C	Cooling Capacity	kW	26	39.8	52	64
		Power Input	kW	10.85	14.9	19.8	25.9
		COP	kW/kW	2.80	2.73	2.78	2.70
Start Current			A	134.4	180.6	255.6	304.8
Rate Current			A	22.4	30.1	42.6	50.8
Max.Current			A	26.88	36.12	51.12	60.96
Compressor		Type		Entire seal vortex type	Entire seal vortex type	Entire seal vortex type	Entire seal vortex type
		Qty		1	2	2	2
Fan Motor		Type		low noise axial fan	low noise axial fan	low noise axial fan	low noise axial fan
		Qty		2	2	2	2
		Power Input (KW)		0.25 (KW) *2	0.25 (KW) *2	0.75 (KW) *2	0.75 (KW) *2
		Air Flow (m <sup>3</sup> /h)		6000 (m <sup>3</sup> /h) *2	6000 (m <sup>3</sup> /h) *2	13000 (m <sup>3</sup> /h) *2	13000 (m <sup>3</sup> /h) *2
Water Side Heat Exchange		Type		stainless steel water tank coil heat exchange	stainless steel water tank coil heat exchange	stainless steel water tank coil heat exchange	stainless steel water tank coil heat exchange
		Volume/L		150	200	300	300
Connection Pipe Size			DN	50	50	50	50
Water Flow			m <sup>3</sup> /h	5	7	9	11
Water Pump Head			m	29.5	28	33	36
Pressure Drop			kPa	46	50	52	55
Refrigerant		Type		R410A	R410A	R410A	R410A
		Charge	kg	5 (kg)	4 (kg) *2	4.5 (kg) *2	5.5 (kg) *2
Power Supply				3PH-380V-50Hz	3PH-380V-50Hz	3PH-380V-50Hz	3PH-380V-50Hz
Dimension	Length	mm	1500	1600	2055	2055	
	Width	mm	750	800	1105	1105	
	Height	mm	1800	1950	2150	2150	
Noise			dB(A)	≤ 59	≤ 63	≤ 65	≤ 68
Net Weight			kg	680	720	850	880

Note:  
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## Commercial Duct Split Unit

Smart quiet

New silent design, high-efficiency and low-noise fan, using intelligent computer processor, easy to operate

Transport Air Over Long Distances

Ultra-thin indoor unit, high static pressure design, Transport Air Over Long Distances

Efficient and Excellent

Fully optimized system design, high unit efficiency, excellent performance, and complete varieties

Free to Choose the Option

Free to choose the option, like fresh air, hot water coils and electrical heater option

Application Area: 200m<sup>2</sup> above

Application Place: Factories, cities, restaurants, chain hotels, entertainment venues, etc.



Product Parameter Table

Commercial Duct Split Unit

MODEL	Outdoor unit	F-12.5W FG(R)	FG(R)F-20W	FG(R)F-25W	FG(R)F-32W	FG(R)F-36W	FG(R)F-42W
	Indoor Unit	FG(R)F-12.5N	FG(R)F-20N	FG(R)F-25N	FG(R)F-32N	FG(R)F-36N	FG(R)F-42N
Cooling Capacity	kW	12.5	19.5	24.8	31.2	35.6	41.3
	Kcal/h	10750	16747	21364	26796	30598	35498
Heating Capacity	kW	14.6	22.6	28.9	35.8	40.8	46.9
	Kcal/h	12542	19463	24895	30779	35124	40375
Power Supply	Outdoor unit	380V/3PH/50Hz					
	Indoor Unit	220V/1PH/50Hz					380V/3PH/50Hz
Compressor starting current	A	65.8	2×46.2	2×65.8	2×65.8	155	105+65.8
Power Input	Cooling kW	4.63	7.2	9.3	11.8	12.8	15.1
	Heating kW	4.5	7.13	9.21	11.68	12.67	14.95
Rate Current	Cooling A	8.24	12.87	16.62	21.09	22.88	26.99
	Heating A	8.02	12.74	16.46	20.88	22.65	26.72
Dimension	Outdoor unit mm	1100×590×1180	1120×830×1030	1120×830×1030	1180×960×1130	1180×960×1130	1640×880×1130
	Indoor Unit mm	1180×880×540	1660×915×480	1660×915×480	1660×915×580	1790×915×580	1840×1045×680
Noise	Outdoor unit dB(A)	≤ 62	≤ 67	≤ 67	≤ 68	≤ 70	≤ 71
	Indoor Unit dB(A)	≤ 60	≤ 64	≤ 64	≤ 66	≤ 66	≤ 68
Air volume of indoor machine	Air Flow m <sup>3</sup> /h	2000	3500	4500	5650	6450	7400
	ESP Pa	80	120	100	150	130	180
Connection Type	Threaded Connection					Welding	
Connection Size	Liquidφ mm	12.7	9.52×2	12.7×2	12.7×2	15.88	15.88/12.7
	Gasφ mm	19.05	15.88×2	19.05×2	19.05×2	28	28/19.05
Indoor Unit Condenser Water Pipe Size	mm	DN25	DN25	DN25	DN25	DN25	DN25
Refrigerant R410A	Charge kg	4.2	3.0×2	4×2	4.5×2	10.5	9+4.5
Weight	Outdoor unit kg	170	170	180	220	230	260
	Indoor Unit kg	110	90	100	150	160	180
Auxiliary electric heating	option kW	1×4	2×3	2×4	2×5	2×6	2×6

Note:  
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Product Parameter Table

Commercial Duct Split Unit

MODEL	Outdoor unit	FG(R)F-48W	FG(R)F-52W	FG(R)F-62W	FG(R)F-72W	FGRF-88W	FGRF-104W
	Indoor Unit	FG(R)F-48N	FG(R)F-52N	FG(R)F-62N	FG(R)F-72N	FGRF-88N	FGRF-104N
Cooling Capacity	kW	47.4	51.3	63.3	71.3	87.9	103.7
	Kcal/h	40737	44086	54406	61286	75570	89144
Heating Capacity	kW	54.4	58.9	72.6	81.9	100	115.8
	Kcal/h	46802	50695	62463	70429	86000	99579
Power Supply	Outdoor unit	380V/3PH/50Hz					
	Indoor Unit	380V/3PH/50Hz					
Compressor starting current	A	127+65.8	155+65.8	2×127	2×155	2×135	2×175
Power Input	Cooling kW	17.9	18.4	23.1	26.6	28.1	39.3
	Heating kW	17.72	18.22	22.87	26.33	27.82	38.91
Rate Current	Cooling A	32	32.89	41.29	47.55	50.23	70.25
	Heating A	31.68	32.56	40.88	47.08	49.7	69.55
Dimension	Outdoor unit mm	1640×880×1130	1840×970×1130	1840×970×1130	2120×970×1130	2243×1250×1380	2243×1250×1580
	Indoor Unit mm	2065×1160×680	2165×1160×680	1870×1230×980	1870×1230×1080	2100×1270×1180	2100×1270×1280
Noise	Outdoor unit dB(A)	≤ 71	≤ 71	≤ 71	≤ 71	≤ 71	≤ 71
	Indoor Unit dB(A)	≤ 68	≤ 68	≤ 68	≤ 69	≤ 69	≤ 70
Air volume of indoor machine	Air Flow m <sup>3</sup> /h	8550	9250	11450	12900	14800	17100
	ESP Pa	200	200	300	300	280	500
Connection Type	Threaded Connection						
Connection Size	Liquid φ mm	15.88/12.7	15.88/12.7	15.88×2	15.88×2	15.88×2	19.05×2
	Gas φ mm	28/19.05	28/19.05	28×2	28×2	28×2	35×2
Indoor Unit Condenser Water Pipe Size	mm	DN25	DN25	DN25	DN25	DN25	DN25
Refrigerant R410A	Charge kg	9.5+4.5	10+4.5	9.5×2	10.5×2	12×2	15×2
Weight	Outdoor unit kg	280	330	340	460	600	650
	Indoor Unit kg	200	220	230	300	320	400
Auxiliary electric heating	option kW	2×8	2×8	2×10	2×10	2×12	2×14

Note:  
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## Rooftop air conditioning unit

### High Reliability

The unit uses the scroll compressor, with small moving parts and high reliability

### Easy to Use

Parallel design of dual compressors, partial load increase by 15~30%, microcomputer control, LED status display, simple operation and complete functions

### Easy Installation

Integral unit design, flexible and convenient installation position, no need for special machine room, saving installation space, multiple air supply and return methods

### Easy Maintenance

Side return, side supply; Under return, up feeding; straight supply and return, etc., can ensure convenient and simple selection, convenient and fast maintenance and management

Application Area: 50m<sup>2</sup> above

Application Places: Hotels, restaurants, theaters, gymnasiums, shopping malls, schools, entertainment venues and high-end residences



## Product Parameter Table

## Rooftop air conditioning unit

MODEL		WRF9ZA	WRF11ZA	WRF13ZA	WRF18ZA	WRF20ZA	WRF23ZA	WRF26ZA	
Cooling Capacity	kW	8.6	10.6	12.6	17.6	19.6	23.3	25.6	
Heating Capacity	kW	9.3	11.3	13.4	18.8	21.3	24.9	27.7	
Control Range	%	0, 100%			0, 50, 100%			54, 100% 0, 46.	
Power Supply		380V / 3Ph / 50HZ							
Cooling Power Input	kW	3.46	3.97	4.86	6.49	7.68	8.38	8.9	
Heating Power Input	kW	3.2	3.63	4.47	5.89	7.07	7.8	8.29	
Start Current	A	42	48	55	66	47.5	54.5	61.5	
Cooling Current	A	6.5	7.2	8.1	9.8	12.2	13.6	15.1	
Heating Current	A	6.1	6.7	7.5	9.1	11.5	12.5	14	
Throttling Method		Thermal Expansion Valve							
System Qty		1							
Refrigerant		R410A							
Compressor	Compressor Type	Fully sealed scroll compressor							
	Qty	1			2				
Condenser									
Fan Motor	Axial fan power supply	380V / 3Ph / 50HZ							
	Qty	1	1	1	1	1	1	1	
	Speed	r/min	695	695	965	965	710	710	920
	Driver Type		Direct drive						
	Power Input	kW	0.15	0.15	0.25	0.37	0.37	0.45	0.55
	Air Flow	m <sup>3</sup> /h	3960	3780	5500	7200	8640	8640	9400
Evaporator									
Fan Motor	Centrifugal fan power supply	220V / 1Ph / 50HZ			380V / 3Ph / 50HZ				
	Qty	1	1	1	1	1	1	1	
	(High/medium/low fan speed)	r/min	1440/1245/1390	1430/1400/1360		1380/1250/1150		1280	1320
	Power Input	kW	0.5	0.5	0.5	0.7	0.8	0.8	1.1
	m <sup>3</sup> /h Air Flow	High	1800	2120	2520	2920	3600	4250	4740
		Mid.	1440	1700	1980	1900			
		Low	1152	1330	1580	1510			
	Driver Type		Direct drive						Drive pulley
	ESP (Pa)		160	150	180	180	170	150	255
	Filter		Nylon filter						
Noise dB(A)		67	67	68	71.7	72.6	72.6	70	
refrigerant charge (kg)		2.3	3.1	3.1	5.3	6	6.5	6.5	
Dimension	Length	mm	1280	1280	1280	1660	1780	1780	1940
	Width	mm	1040	1040	1040	1040	1390	1390	1390
	Height	mm	875	875	875	1045	1045	1045	1045
Weight		kg	240	248	255	360	400	420	450

Note:  
 Cooling Capacity Running Conditioning: Indoor temperature 27/19, Outdoor temperature 35/24  
 Heating Capacity Running Conditioning: Indoor temperature 20/15, Outdoor temperature 7/6

## Product Parameter Table

## Rooftop air conditioning unit

MODEL		WRF28ZA	WRF30ZA	WRF32ZA	WRF36ZA	WRF42ZA	WRF48ZA	WRF55ZA	WRF64ZA	
Cooling Capacity	kW	28.8	29.9	32.4	35.6	41.6	47.2	53.2	63.3	
Heating Capacity	kW	31.1	32.3	34.6	38	44.6	50.2	56.4	67	
Control Range	%	0, 50, 100	54, 100 0, 46.	0, 50, 100	0, 50, 100	63, 100 0, 37.	68, 100 0, 32.	60, 100 0, 40.	0, 50, 100	
Power Supply		380V / 3Ph / 50Hz								
Cooling Power Input	kW	11.03	11.6	12.4	13.14	14.8	16.97	19	22.21	
Heating Power Input	kW	10.4	10.8	11.57	12.03	13.76	15.79	17.4	19.88	
Start Current	A	62.5	62.9	59.9	75.3	87.9	103.9	108	111.4	
Cooling Current	A	17	18.5	19.6	23.1	27.9	30.9	33.7	39	
Heating Current	A	15.6	17.2	17.8	21.6	26.1	28.7	31.3	36.5	
Throttling Method		Thermal Expansion Valve								
System Qty		1				2				
Refrigerant		R410A								
Condenser										
Fan Motor	Axial fan power supply	380V / 3Ph / 50HAZ								
	Qty	1	1	1	2	2	2	2	2	
	Speed	r/min	920	710	940	720	920	920	920	720
	Driver Type		Direct drive							
	Power Input	kW	0.55	0.55	0.55	2x0.37	2x0.45	2x0.55	2x0.55	2x0.75
	Air Flow	m <sup>3</sup> /h	12300	12300	12300	14200	18800	18800	21400	28400
Evaporator										
Fan Motor	Centrifugal fan power supply	380V / 3Ph / 50HAZ								
	Qty	1	1	1	1	1	1	1	1	
	(High/medium/low fan speed)	r/min	1320	1400	1120	940	940	1000	750	750
	Power Input	kW	1.1	1.5	1.5	2.2	2.2	3	3	4
	Air Flow	m <sup>3</sup> /h	4700	5400	6300	6800	7900	9500	10000	12500
	Driver Type		Drive pulley							
	ESP (Pa)		235	305	290	270	250	250	250	250
	Filter		Nylon filter							
	Noise dB(A)		70	72	72	72	72	75	73	73
	refrigerant charge (kg)		7	8.2	9	2x5.3	8+4.2	9+4.2	10.5+4.2	2x9
Dimension	Length	mm	1940	2240	2240	2540	2540	2540	2490	2490
	Width	mm	1390	1390	1390	1860	1860	1860	2050	2210
	Height	mm	1045	1045	1045	1045	1195	1195	1390	1490
Weight		kg	460	500	520	650	755	770	810	890

Note:  
 Cooling Capacity Running Conditioning: Indoor temperature 27/19, Outdoor temperature 35/24  
 Heating Capacity Running Conditioning: Indoor temperature 20/15, Outdoor temperature 7/6





Product Parameter Table

Rooftop air conditioning unit

MODEL		WRF72ZA	WRF88ZA	WRF104ZA	WRF120ZA	WRF140ZA	WRF170ZA	WRF190ZA	WRF220ZA	
Cooling Capacity	kW	71.4	87.2	103.1	118.8	140.7	169.8	188.5	226.8	
Heating Capacity	kW	75.6	93.3	109.5	126.8	152.9	179.9	203.6	242.7	
Control Range	%	0, 50, 100	0, 50, 100	0, 25, 50, 75, 100						
Power Supply		380V / 3Ph / 50HZ								
Cooling Power Input	kW	27.25	32.06	38.9	46.22	53.3	64	70.8	85.4	
Heating Power Input	kW	24.8	28.79	35.32	42.83	49.4	56.9	64.5	78.9	
Start Current	A	114.2	154.1	197.7	160.5	166.2	183.4	192.3	243.1	
Cooling Current	A	48.3	55.6	69.7	86.5	90.9	105.7	116	142.7	
Heating Current	A	44.9	52.7	66.6	82	86.2	100.5	111	136.1	
Throttling Method		Thermal Expansion Valve								
System Qty		2								
Refrigerant		R410A								
Compressor	Compressor Type	Fully sealed scroll compressor 380V / 3Ph / 50HZ								
	Qty	2				4				
Condenser										
Fan Motor	Axial fan power supply		Axi							
			I type 380-420V / 3Ph / 50HZ							
	Qty		2	2	2	4	4	4	4	4
	Speed	r/min	720	720	710	940	940	720	720	720
	Driver Type		Direct drive							
	Power Input	kW	2x0.85	2x1.5	2x1.5	4x0.75	4x0.75	4x1.5	4x1.5	4x1.5
Air Flow	m <sup>3</sup> /h	28400	42000	42000	56800	56800	84000	84000	84000	
Evaporator										
Fan Motor	Centrifugal fan power supply		380V / 3Ph / 50HZ							
	Qty		1	1	1	1	1	1	1	1
	fan speed	r/min	850	850	900	800	800	800	850	740
	Power Input	kW	4	4	5.5	7.5	7.5	7.5	11	15
	Air Flow	m <sup>3</sup> /h	14500	16500	19000	21000	25000	31000	35000	42000
	Driver Type		Drive pulley							
ESP (Pa)		350	350	350	400	400	400	400	400	
Filter		Nylon filter								
Noise dB(A)		75	75	75	80	80	80	82	82.5	
refrigerant charge (kg)		2x10	2x11.5	2x13.5	2x16	2x18	2x21.5	2x23	2x27	
Dimension	Length	mm	2840	2840	3410	4700	5200	5500	5800	5880
	Width	mm	2210	2210	2210	2230	2230	2230	2230	2230
	Height	mm	1510	1685	1810	1640	1640	1810	1810	2010
Weight	kg	980	1160	1450	1910	2010	2280	2460	2530	

Note:  
 Cooling Capacity Running Conditioning: Indoor temperature 27/19, Outdoor temperature 35/24  
 Heating Capacity Running Conditioning: Indoor temperature 20/15, Outdoor temperature 7/6