WATER SOURCE HEAT PUMP UNIT

SGHP(A) 260~2200



WATER SOURCE HEAT PUMP UNIT

Indoor installation
Cooling capacity from 218 to 1833 kW
Heating capacity from 255 to 2258 kW

Characteristics

Screw compressor
High efficient condenser with large heat exchange area
Big foaling factor design

Available configurations

SGHP(A) 260 R(xx)% ST A 2
(1) (2) (3) (4)

(1) Heat Recovery:
XX Percentage of recovery
(2) Version:
ST Standard
EN Low noise type

(3) Refrigerants:
A R22
B R407C
C R134a
E Other refrigerants

(4) Power Supply:
2 380/3/50
4 460/3/60
6 Other power supply

Applications

arts and crafts industry commerce workshop agriculture

Functions and features

Heating+Cooling Water cooled Indoor inst. Refrig. R-407C Refrig. R-134a Refrig. R-22 Twin-screw semi. Thermodynamic Heat Recovery

Optional

Total and partial heat recovery
Copper/nickel or titanium heat exchanger
Low temperature operation
Inserting compressor into a soundproofed compartment

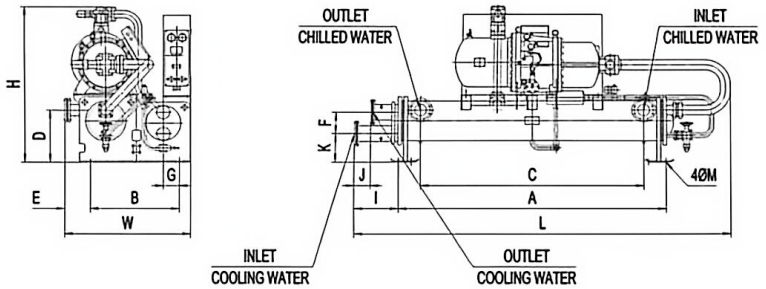
Technical data

Model	SGHP(A)	Size	260	300	350	450	500	550	600	680	780	880	980	1000	1080	1200	1380	1500	1600	1700	1900	2000	2200
Cooling	Cooling capacity	KW	218	267	278	367	428	479	517	563	675	716	837	865	880	1059	1156	1262	1391	1460	1680	1731	1833
	Power input	KW	46	56	62	80	87	98	102	121	134	148	173	176	188	207	248	248	278	302	347	356	389
Evaporator	Temperature of inlet/outlet water	°C	12/7																				
	Chilled water flow	m³/h	37	46	48	63	74	82	89	97	116	123	144	149	151	182	199	217	239	251	289	298	315
	Resistance	KPa	<=100																				
Condenser	Temperature of inlet/outlet water	°C	18/29																				
	Cooling water flow	m³/h	21	25	27	35	40	45	48	53	63	68	79	81	83	99	110	118	130	138	158	163	174
	Resistance	KPa	<=100																				
Heating	heating capacity	KW	255	318	337	447	495	556	598	681	783	850	977	1010	1075	1228	1399	1460	1618	1738	1970	2029	2258
	Power input	KW	62	80	82	109	120	134	141	164	186	201	240	244	258	290	336	345	385	408	483	496	538
Evaporator	Temperature of inlet/outlet water	°C	15/7																				
	Chilled water flow	m³/h	21	25	27	35	40	45	48	53	63	68	79	81	83	99	110	118	130	138	158	163	174
	Resistance	KPa	<=100																				
Condenser	Temperature of inlet/outlet water	°C	40/45.5																				
	Cooling water flow	m³/h	37	46	48	63	74	82	89	97	116	123	144	149	151	182	199	217	239	251	289	298	315
	Resistance	KPa	<=100																				
Compressor	Nr.		1	1	1	1	1	1	1	1	1	1	1	2	1	2	2	2	2	2	2	2	2
Power regulation stage		%	50, 75, 100								50, 75, 100		25+12.5 increase		50, 75, 100	25+12.5 increase	25+12.5 increase						
Refrigerant	Type		R407C																				
	Weight	kg	35	45	55	65	75	80	85	90	110	120	130	150	160	170	180	200	220	240	260	270	320
Electrical	Power supply		380V3P/50Hz																				
	Safety protection		High/low pressure/water lacking/anti-frozen/compressor over loading/oil heater/safety valve																				
Chilled inlet/outlet nozzle		DN	80	80	80	100	100	125	125	125	150	150	150	150	150	150	150	150	200	200	200	200	200
Cooling inlet/outlet nozzle		DN	80	80	80	100	100	125	125	125	125	150	150	150	150	150	150	150	150	200	200	200	200
Fouling factor		m^2-k/kW	0.086																				
Noise		dB(A)	77	77	78	78	79	80	80	81	81	82	82	79	80	80	81	81	82	82	82	83	83
Weight		kg	1500	1700	1650	1750	2100	1950	2400	2320	2400	2600	3600	4000	3200	4140	3800	4650	4670	4300	6350	6350	4800

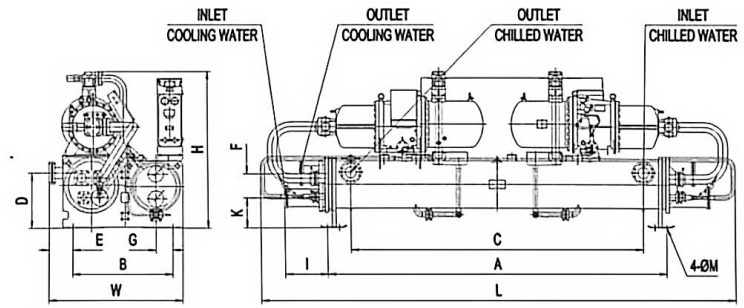
Note:
Underground water cooling: chilled water inlet temperature 12°C, chilled water outlet temperature 7°C, cooling water inlet temperature 18°C, cooling water outlet temperature 29°C.
Underground water heating: chilled water inlet temperature 15°C, chilled water outlet temperature 7°C, cooling water inlet temperature 40°C, cooling water outlet temperature 45.5°C.
Noise measured at 1m in open field.

扫描全能王
3亿人都在用的扫描App

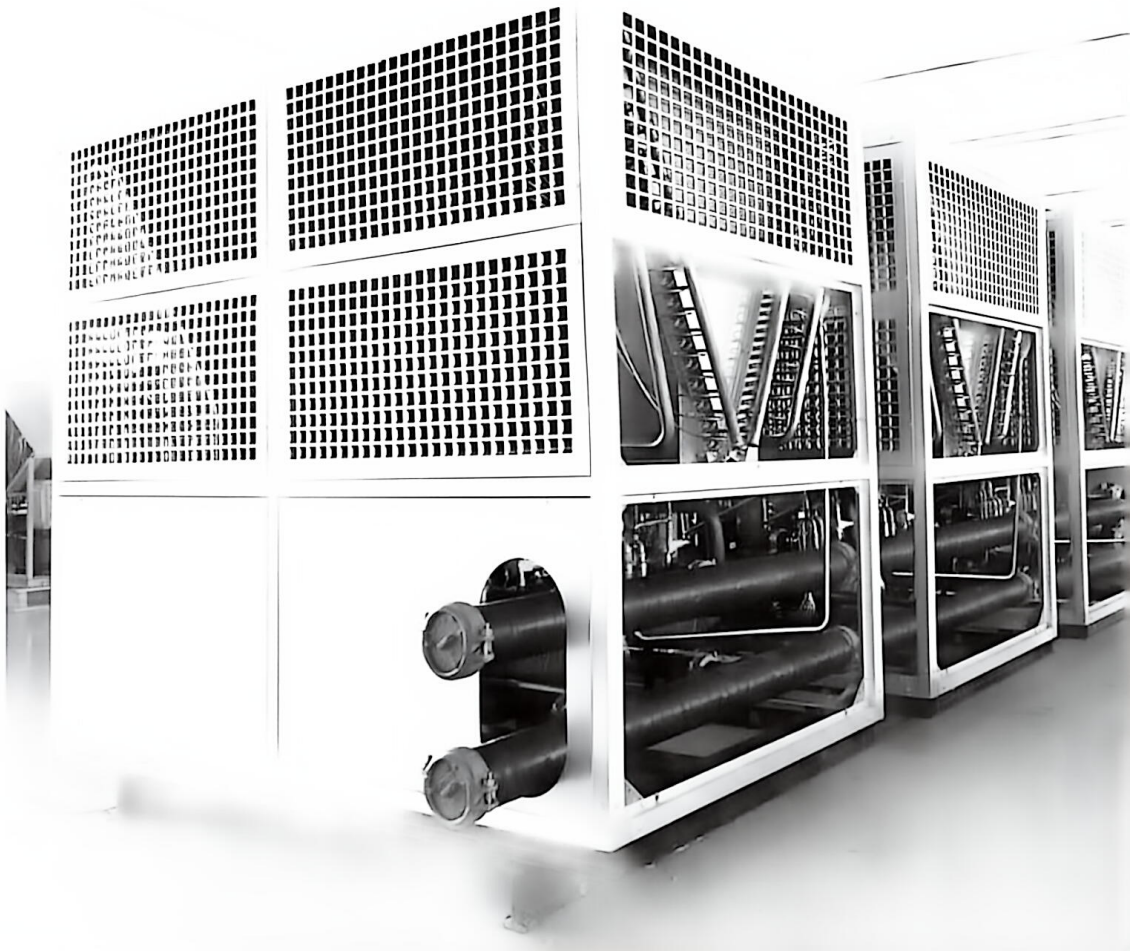
Dimensions



Size	L	W	H	A	B	C	D	E	F	G	I	J	K	M
260A	3050	1175	1400	2170	750	1790	455	235	160	150	410	150	255	20
300A	3100	1250	1360	2170	750	1790	455	235	160	150	410	150	255	20
350A	2950	1150	1280	2170	750	1790	455	235	160	150	410	150	255	20
450A	3160	1220	1630	2270	830	1860	485	235	200	150	415	150	265	20
500A	3440	1260	1480	2470	830	2060	485	235	200	150	410	150	265	20
550A	3240	1225	1525	2370	910	1900	530	235	200	150	425	150	285	20
600A	3500	1280	1530	2470	910	2000	530	235	200	150	410	150	285	20
680A	3340	1225	1595	2470	910	2000	530	235	200	150	425	150	285	20
780A	3590	1405	1690	2570	950	2100	590	290	200	150	410	150	285	20
880A	3400	1375	1620	2470	1000	2000	545	290	240	150	425	150	310	20
980A	3590	1495	1740	2570	1040	2100	590	290	240	150	410	150	310	20



Size	L	W	H	A	B	C	D	E	F	G	I	K	M
1000A	4250	1440	1590	3070	1000	2700	545	290	240	150	428	290	20
1200A	4290	1400	1560	3170	1000	2700	545	290	240	150	428	290	20
1380A	4450	1480	1810	3370	1080	2700	570	290	260	150	450	315	20
1500A	4405	1490	1680	3370	1080	2900	570	290	260	150	428	290	20
1600A	4405	1490	1700	3570	1080	2800	570	290	260	150	428	290	20
1700A	4635	1445	1685	3770	1120	3000	570	290	260	150	455	300	20
1900A	5170	1650	1820	3770	1180	3200	620	340	300	150	430	300	20
2000A	5040	1600	1820	3770	1180	3200	620	340	300	150	470	300	20
2200A	4635	1520	1710	3570	1180	3000	620	340	300	150	455	300	20



扫描全能王
3亿人都在用的扫描App