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Snowman reserves the right to change its products without notice in advance. The technical parameters shall be subject to order contract or technical appendix of the contract.

RefComp

Piston & Screw Compressors

RefComp Products Catalogue



Global Service Hotline
400-109-6660

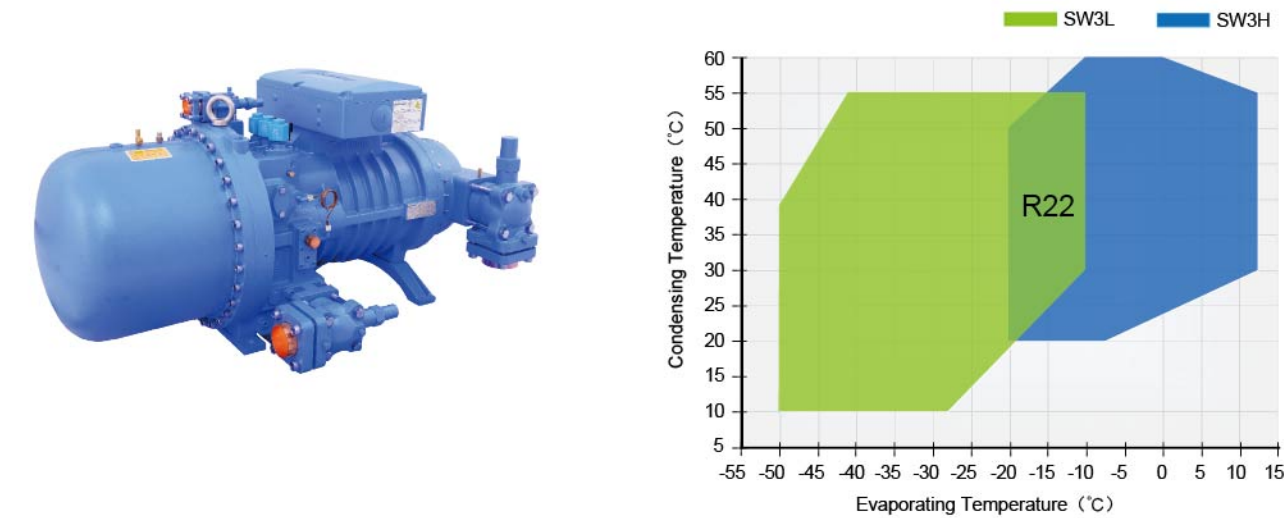


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RefComp SW Series Semi-hermetic Screw Compressors

Refcomp SW Semi- hermetic Screw Refrigeration Compressors include SW3H Series and SW3L Series with 28 models. Displacement: 118- 700 m³/h (@ 50Hz), Nominal Power: 30- 240HP.Both SW3H and SW3L are for medium- high and low temperature refrigeration respectively, it is suitable for low temperature condition of -50 degrees. Applicable freon refrigerants including R22, R134A, R507A, R404A, R407C.



- Asymmetric screw rotor designed by RefComp, lobe ratio profile 5:6, excellent lubrication, perfect meshing between teeth, smooth and quiet operation.
- Small size, filter, shut-off valve, and temperature sensor are integrated into the compressor body. Optimized design , less space required.
- Motor protection module provides reliable protection against motor overheating, phase reversal and phase loss.
- Real- time tracking provides the operation status of the motor and system.
- Multiple duplex bearings are able to avoid rotor axial / radial wear, resulting in high load and low noise.
- Embedded suction filter.
- Solenoid valve conducts capacity control, with step or stepless control, in line with full or partial load.
- Unique structure and space design, using subcooled refrigerant gas between suction shut- off valve and the inlet side of the screw to cool down the motor effectively .
- Suction/discharge shut- off valves are able to reverse, which is easily installed with flexibility.

Technical Parameters

Model		SW3H							
		4000	5000	6000	7500	9000	10500	11500	12500
Nominal Power	Hp/kW	40/30	50/37	60/45	75/55	90/67	105/78	115/78	125/89
Displacement 50/60 (Hz)	m³/h	118/142	150/180	175/210	205/246	237/284	286/343	318/382	341/409
Weight	kg	245	255	265	410	420	535	540	545
Standard Motor		400V/3/50Hz-460/3/60Hz							
(Y/ Δ) Starting current	A	131/398	134/406	182/547	139/459	193/580	338/1015	318/953	318/953
Max Running Current	A	75	90	105	124	140	168	182	196

RefComp SW Semi-hermetic Screw Compressors

Model		SW3H					
		14000	16000	19000	21000	24000	25000
Nominal Power	Hp/kW	150/112	170/127	200/149	220/164	240/179	240/179
Displacement 50/60 (Hz)	m³/h	402/482	445/534	510/612	562/674	600/720	700/840
Weight	kg	665	675	710	1030	1050	980
Standard Motor		400V/3/50Hz - 460/3/60Hz					
(Y/ Δ) Starting current	A	354/1155	374/1155	453/1333	543/1645	595/1802	595/1802
Max Running Current	A	249	270	305	335	360	410

Model		SW3L							
		3000	4000	5000	6000	7000	8000	9500	10500
Nominal Power	Hp/kW	30/22	40/30	50/37	60/45	70/52	80/60	95/71	105/78
Displacement 50/60 (Hz)	m³/h	118/142	150/180	175/210	205/246	237/284	286/343	318/382	341/409
Weight	kg	245	255	265	410	420	520	525	530
Standard Motor		400V/3/50Hz - 460V/3/60Hz							
(Y/ Δ) Starting current	A	110/331	131/398	134/406	139/422	139/459	223/670	318/953	318/953
Max Running Current	A	65	80	88	103	117	139	154	163

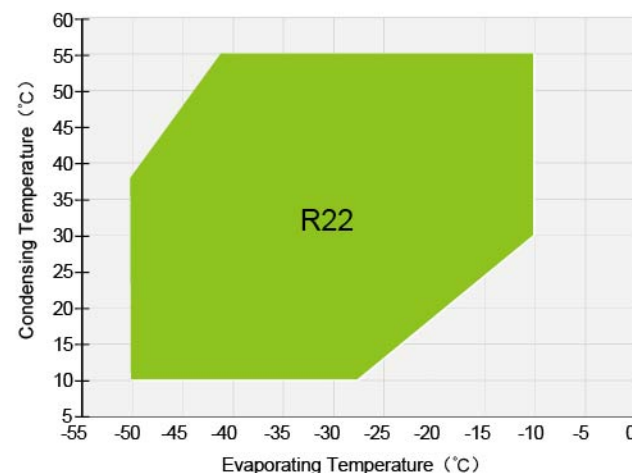
Model		SW3L					
		11500	13000	16000	18000	20000	22000
Nominal Power	Hp/kW	115/89	130/98	170/127	180/135	200/149	220/164
Displacement 50/60 (Hz)	m³/h	380/456	445/534	510/612	562/674	600/720	700/840
Weight	kg	665	675	710	1030	1050	980
Standard Motor		400V/3/50Hz - 460V/3/60Hz					
(Y/ Δ) Starting current	A	276/876	354/1155	374/1155	453/1333	543/1645	543/1645
Max Running Current	A	196	210	236	250	270	300

Note: The above-listed are only some of the models. Please contact us directly for more information.

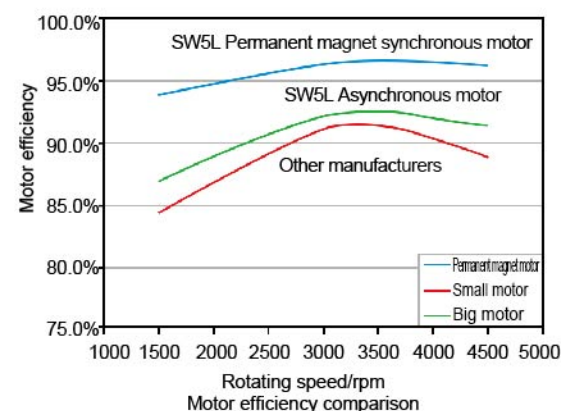
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RefComp SW5L Semi-hermetic Screw Compressors

RefComp SW5L is the newly designed semi-hermetic screw compressor with high efficiency and variable frequency, exclusively for the medium-low temperature application. This series include 14 models, with displacement range : 85- 500m³/h, nominal power range: 20HP- 250HP, various applicable freon refrigerants including R507A, R404A, R134a, R22. This series can be widely applied to ice storage projects, food quick freezing, marine refrigeration, low temperature storage, etc..



Comparison of Efficiency between Permanent Magnet Synchronous Motors and Asynchronous Motors



- "I" type patented profile, lobe ratio: 5:7, high efficiency, smooth operation.
- Rotor is made of high-quality forged steel, with high strength and high wear-resistance.
- More compact design: 10% shorter and 23% lower than SW3 Series.
- Easily assembled or dismantled: suction/discharge shut-off valves can be installed on either side flexibly.
- Adjustable internal volume ratio: the V_i can be adjusted to the ideal state in accordance to the operating condition changes, so that the compressor can achieve its max. operating efficiency.
- Compressor includes multiple safety and protection devices, ensuring its long-term, safe, high-efficiency operation.
- High-efficient variable frequency motor available upon request: the speed can be adjusted according to the load changes, and the motor's operating efficiency is improved accordingly.

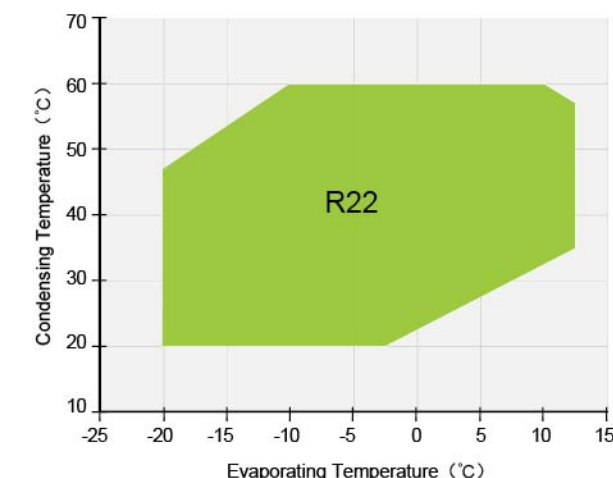
Technical Data Sheet

Model	Suction Line Size (mm)	Discharge Line size (mm)	Dimensions (mm)			Displacement (m³/h)		Rated power (kW)
			L	W	H	50Hz	60Hz	
SW5L020	54	42	803	465	411	85	100	15.00
SW5L025	54	42	803	465	411	100	120	18.75
SW5L030	54	42	803	465	411	120	144	22.50
SW5L040	54	42	890	490	390	140	168	30.00
SW5L050	54	42	890	490	390	168	201	37.50
SW5L060	80	54	1044	586	486	210	252	45.00
SW5L070	80	54	1044	586	486	230	276	52.00
SW5L075	80	54	1044	586	486	250	300	55.00
SW5L090	92	67	1280	600	501	310	372	67.00
SW5L100	92	67	1280	600	501	340	408	74.50
SW5L110	92	67	1280	600	501	370	444	89.00
SW5L125	105	80	1348	798	627	420	504	89.00
SW5L140	105	80	1348	798	627	450	540	112.00
SW5L150	105	80	1348	798	627	500	600	112.00

Note: The above-listed are only some of the models. Please contact us directly for more information.

RefComp SRC-S Semi-hermetic Screw Compressors

RefComp SRC-S Series include 18 models, applied in the refrigeration conditions of medium and high evaporating temperatures. SRC-S compressors have the features of built-in oil separator, compact structure, easy installation, low noise, high efficiency etc..They can be best configured in line with various applications and conditions, e.g.full-flooded normal- temperature/high-temperature heat pump and water chiller.



- Asymmetric screw rotor designed by RefComp, lobe ratio 5:6, excellent lubrication, perfect meshing between teeth, smooth and quiet operation of the compressor.
- Small size, filter, stop valve, and temperature sensor are integrated into the compressor body. Optimized design, less space required.
- Motor protection module provides reliable protection against motor overheating, phase reversal and phase loss.
- Real-time tracking provides the operation status of the motor and system.
- Multiple duplex bearings is able to avoid rotor axial / radial wear, resulting in high load and low noise.

- Built-in oil separator.
- Multi- step separation, oil efficiency as high as 99.85%.
- Embedded 100µm high-density suction filter, easy to replace.
- Unique structure and space design, using the subcooled refrigerant gas between suction shut- off valve and the inlet side of the screw to cool down the motor effectively.
- Suction/discharge shut- off valves are able to reverse 360°, which are easily installed with flexibility.
- Embedded with safety valve: high specification design, safe and reliable.

Technical Parameters

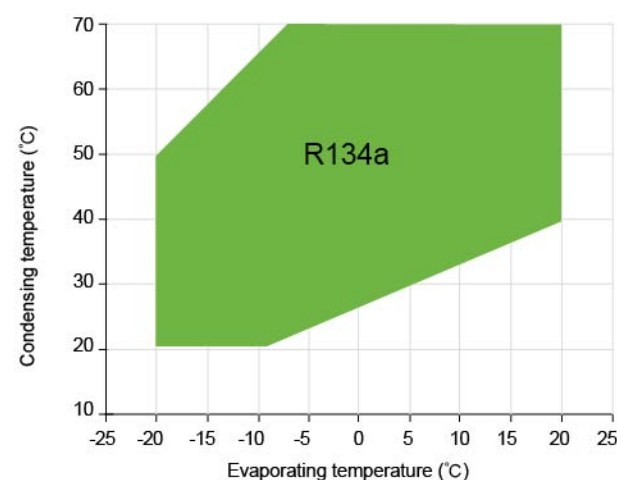
Model SRC-S (W)		113	133	163	183	213	255	285	305	353
Displacement 50/60 (Hz)	m³/h	118/142	150/180	175/210	205/246	237/284	286/343	318/382	341/409	402/482
Weight	kg	325	330	335	510	515	615	590	625	730
Oil Charge	dm³	6	6	6	7	7	10	10	10	14
Capacity Control		Steps: Fully loaded, 75%, 50%, minimum. (Stepless: full load...minimum, or 100%...50% per request)								
Standard Motor		400/3/50 (Hz) - 460/3/60 (Hz)								

Model SRC-S (W)		413	463	503	553	603	755	785	885	985
Displacement 50/60 (Hz)	m³/h	445/534	510/612	562/674	600/720	700/840	860/1032	910/1092	1000/1200	1100/1320
Weight	kg	740	775	1010	1030	1020	980	1400	1400	1400
Oil Charge	dm³	14	16	19	19	20	23	25	25	25
Capacity Control		Steps: Fully loaded, 75%, 50%, minimum. (Stepless: full load...minimum, or 100%...50% per request)								
Standard Motor		400/3/50 (Hz) - 460/3/60 (Hz)								

Note: Please contact us directly for more information.

RefComp 134-S Semi-hermetic Screw Compressors

RefComp 134-S series are the refrigeration compressors exclusively for R134a, including 14 models, displacement of 270- 1100m³/h, nominal power 70- 300HP, compact design, low noise, high efficiency, various models and easy installation. They can meet various requirements of the OEM manufacturers to make their own high- efficiency, advanced refrigeration or heat pump systems.



- Screw compressors exclusively for R134a. Asymmetrical screw rotor designed by RefComp, teeth ratio 5:6, excellent lubrication, perfect meshing between teeth, smooth and quiet operation of the compressor.
- small size, filter, cut-off valve, and temperature sensor are integrated into the compressor body. Optimized design, less space required.
- Motor protection module provides reliable protection against motor overheating, phase reversal and phase loss.
- Real-time tracking provides the operation status of the motor and system.
- Multiple duplex bearings are able to avoid rotor axial / radial wear, resulting in high load and low noise.
- Built-in oil separator.
- Multi-step separation, oil efficiency as high as 99.85%.
- Embedded with 100µm high-density suction filter, easy to replace.
- Unique structure and space design, using subcooled refrigerant gas between suction cut-off valve and the inlet side of the screw to effectively cool down the motor.
- Suction/discharge shut-off valves are able to reverse, which is easily installed with flexibility.
- Capacity control can be step or stepless control.

Technical Parameters

Model 134-S		071	081	091	101	110	120	140
Displacement 50/60 (Hz)	m³/h	270/324	307/368	344/413	380/456	413/496	480/576	560/672
Weight	kg	510	518	532	538	660	670	680
Oil Charge	dm³	11	11	11	11	17	17	17
Capacity Control		Steps: Fully loaded, 75%, 50%, minimum. (Stepless: full load...minimum, or 100%...50% per request)						
Standard Motor		400/3/50 (Hz) ~ 460/3/60 (Hz)						

Model 134-S		160	180	210	220	240	270	300
Displacement 50/60 (Hz)	m³/h	640/768	720/864	805/966	850/1020	910/1092	1000/1200	1100/1320
Weight	kg	930	940	950	980	1330	1350	1390
Oil Charge	dm³	23	23	23	23	25	25	25
Capacity Control		Steps: Fully loaded, 75%, 50%, minimum. (Stepless: full load...minimum, or 100%...50% per request)						
Standard Motor		400/3/50 (Hz) ~ 460/3/60 (Hz)						

Note: For detailed information, please contact our company directly.

RefComp SP Series Semi-hermetic Piston Compressors

Snowman RefComp SP series semi-hermetic piston compressors are widely used, not only in commercial refrigeration and industrial refrigeration, but also in some special air-conditioning refrigeration applications. RefComp SP series compressors have a wide range of adaptability and can be well used in various refrigeration applications. RefComp SP series piston compressors are available in 34 models, with 2-, 4-, 6- and 8-cylinder models, with ratings ranging from 3 to 70Hp. Although the piston compressor is a mature product with high reliability, RefComp is still tireless in researching and innovation, in order to further improve the performance such as the quality and reliability of the piston compressor.



- Operating pressure can reach as high as 30bar.
- Filter, shut-off valve, temperature sensor are integrated into one body, and the overall size of the compressor is small.
- With the crankshaft (including balancing weight) designed by RefComp, the operation is smooth and with low-vibration.
- High efficiency, high strength, low vibration, low gas pulsation and low noise, which is achieved through new technology, overall performance has reached the world top level of the same types of compressors.
- Cooling capacity can be controlled according to different loads.
- Motor protection module.
- The embedded safety valve joins the high pressure side and low pressure side to prevent the internal pressure from exceeding the safety threshold.
- Unique structure design and spacing layout: motor is effectively cooled down by using subcooled refrigerant gas between the suction shut-off valve and the inlet of the piston.

Technical Data Sheet

Model SP		H (High temperature compressor)																
		SP2H				SP4HF/SPHN				SP4H				SP6H			SP8H	
		0500	0600	0800	0900	1000	1200	1500	2000	2200	2500	3000	3500	3700	4000	5000	6000	7000
		050E	060E	080E	090E	100E	120E	150E	200E	220E	250E	300E	350E	370E	400E	500E	600E	700E
Rated Power	Hp	5	6	8	9	10	12	15	20	22	25	30	35	37	40	50	60	70
Displacement 50Hz	m³/h	17.5	21.0	24.5	28.0	35.0	42.0	49.0	56.0	64.7	75.0	86.1	102.9	112.5	129.1	154.4	186	222
Number of Cylinders		2	2	2	2	4	4	4	4	4	4	4	4	6	6	6	8	8
Weight	kg	86	87	87	91	143	146	152	155	193	206	209	238	241	246	250	345	350
Oil Charge	dm³	1.8	1.8	1.8	1.8	2.6	2.6	2.6	2.6	3.7	3.7	3.7	3.7	4.2	4.2	4.2	5.0	5.0
Standard Motor		△ 230V/3/50Hz Y 400V/3/50Hz				400V/3/50Hz 460V/3/60Hz PW												
Maximum Operating Current	A	12	14	16	20	24	27	33	40	37	43	52	56	60	75	93	115	140

Model SP		L (Low Temperature Compressor)																
		SP2L				SP4LF/SP4LN				SP4L				SP6L			SP8L	
		0300	0400	0500	0600	0600	0800	1000	1200	1500	1800	2200	2500	2700	3000	4000	5000	6000
		030E	040E	050E	060E	060E	080E	100E	120E	150E	180E	220E	250E	270E	300E	400E	500E	600E
Rated Power	Hp	3	4	5	6	6	8	10	12	15	18	22	25	27	30	40	50	60
Displacement 50Hz	m³/h	17.5	21.0	24.5	28.0	35.0	42.0	49.0	56.0	64.7	75.0	86.1	102.9	112.5	129.1	154.4	186.0	222.0
Number of Cylinders		2	2	2	2	4	4	4	4	4	4	4	4	6	6	6	8	8
Weight	kg	84	85	85	86	134	139	144	146	182	186	195	220	230	236	247	340	345
Oil Charge	dm³	1.8	1.8	1.8	1.8	2.6	2.6	2.6	2.6	3.7	3.7	3.7	3.7	4.2	4.2	4.2	5.0	5.0
Standard Motor		△ 230V/3/50Hz Y 400V/3/50Hz				400V/3/50Hz 460V/3/60Hz PW												
Maximum Operating Current	A	9	10	12	34	16	19	24	27	29	33	39	43	48	54	75	97	115

Note: Please contact us directly for more information.

RefComp SPC Series Semi-hermetic Piston Compressors

RefComp SPC series semi-hermetic piston compressors are widely used in commercial refrigeration and industrial refrigeration. RefComp SPC series semi-hermetic piston compressors have 8 models in total, with rated power ranging from 5 to 10Hp, and the corresponding displacement ranges from 19.3 to 33.1m³/h (when the power frequency is 50Hz).



- SPC series compressors are not only suitable for R22 refrigerant, but also can be used for chlorine-free refrigerants such as R407C, R134a, R404A and R507A without any need to replace any mechanical parts.
- The SPC series compressors are specially developed and designed for air conditioning and medium and low evaporative temperature refrigeration applications. For R134a refrigerant, the working condensing temperature can reach up to 80°C; for R22, R404A, R507A, the working evaporating temperature can reach to -40°C;
- Two sizes of compressors are available: high temperature compressor (H) (for air conditioning systems) and low temperature compressors (L) (for refrigeration systems).
- The size of the whole compressor is small, and the filter, globe valve and temperature sensor are integrated into one body, and the structure is compact.
- High efficiency, low vibration, low noise and advanced technology make RefComp as top brand compare with similar brands.

Technical Parameters

Model		SPC4							
		19L	19H	23L	23H	27L	27H	33L	33H
Nominal power of compressor	Hp/kW	5/3.7	6/4.4	5/3.7	6/4.4	6/4.4	8/5.9	8/5.9	10/7.4
Displacement 50/60Hz	m³/h	19.3/23.2	19.3/23.2	23.1/27.7	23.1/27.7	27.3/32.8	27.3/32.8	33.1/39.7	33.1/39.7
Number of compressor cylinders		4	4	4	4	4	4	4	4
Weight	Kg	78	79	78	79	79	85	84	87
Oil charge	dm³	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Crankcase heater electrical parameters		230V-120W-PTC-50/60Hz							
Discharge port	mm/inches	19-3/4"	19-3/4"	22-7/8"	22-7/8"	22-7/8"	22-7/8"	28-1 1/8"	28-1 1/8"
Suction port	mm/inches	28-1 1/8"	28-1 1/8"	28-1 1/8"	28-1 1/8"	28-1 1/8"	28-1 1/8"	35-1 3/8"	35-1 3/8"
Capacity regulation stage		100,50%							
Standard Motor Electrical Parameters		400V/3/50Hz-Y(230V/3/50Hz-D)							
Starting current Y/D	A	54/94	60/104	54/94	60/104	60/104	85/148	85/148	108/188
Maximum operating current	A	12/21	14/24	12/21	14/24	14/24	16/28	16/28	24/42

RefComp SBC Two-Stage Piston Compressor

RefComp SBC Series includes 6 models. High-pressure displacement: 27.6-51.5m³/h, Power: 12-30HP, Applicability: R22, R404A and R507, Features: high efficiency, long durability, compact size and low vibration, etc.. The two-stage displacement is achieved through two consecutive compressions. In Stage I, the refrigerant gas from the evaporator is sucked from the inlet into the intermediate cavity, in Stage II, the refrigerant gas is sucked in from the intermediate cavity and is compressed to the displacement pressure. Compared to the single- stage compressor, the compression ratio of each stage of the two-stage compressor is always lower, as a result, the displacement temperature is lowered and efficiency is improved.



- Working pressure: up to 25bar.
- Reliable valve plate design: impact resistant spring steel is used to make the valve plate.
- Minimum space requirement, compact design, Easy maintenance.
- Low vibration and noise. Cylinder combination of "4+6", optimized mass balance design renders quiet running.
- High cooling capacity and low energy consumption.
- High reliability actuator:
 - a. the hardened surface of the eccentric shaft and crankshaft.
 - b. large capacity oil pump.
 - c. low friction bearing bush and aluminum piston.
 - d. hard chrome plated piston ring.
- Installed subcooler (optional) can further improve the compression efficiency.

Technical Parameters

Model SBC		SB4C1200	SB4C1400	SB6C1600	SB6C2000	SB6C2500	SB6C3000
		SB4C120E	SB4C140E	SB6C160E	SB6C200E	SB6C250E	SB6C300E
Rated power	Hp	12	14	16	20	25	30
Displacement at 50Hz Low / high	m³/h	43.0/27.6	51.5/32.4	64.7/32.4	75.0/37.5	86.1/43	102.9/51.5
No. of Cylinders		4	4	6	6	6	6
Oil Charge	dm³	3.7	3.7	4.2	4.2	4.2	4.2
Standard Motor (partial winding)		400V/3/50Hz-460V/3/60Hz PW					
Max Running Current	A	27	34	39	46	50	55

Note: Please contact us directly for more details.

RefComp SPS CO2 Series Semi-hermetic Subcritical Piston Compressor

RefComp SPS compressors are applicable for CO₂ subcritical cycle, including 19 models. Displacement: 1.5-48.5m³/h, power:1-40HP. The components are specifically designed for CO₂ application, ensuring the high efficiency and stable operation of the compressor. SPS piston machine has the characteristics of durability, compact structure and so on and so forth.



- Working pressure as high as 60bar, advanced design concept, high quality housing material selected to ensure the housing to meet the strength requirement.
- Environment-friendly refrigerant CO₂, advantageous in areas where the requirement for safety is high, with evident environmental benefit.
- Safety valve installed to prevent the pressure inside the housing from exceeding the safety threshold.
- Built-in high density suction filter to remove the impurities of the refrigerant gas and protect the motor.
- Valve plate with reliable and efficient features, made from impact-resistant spring steel. Rapid and reliable gas exchange and long durability.
- The sliding bearings are made of composite materials, providing reliable support for the moving components.
- Motor protection module, to ensure safe operation of the compressor.

Technical Parameters

Model SPS		21-1.5	21-2	21-2.5	21-3	21-3.5	21-4.5	21-5.5	21-6.5	22-8	22-9
Displacement at 50Hz	m ³ /h	1.5	1.8	2.3	2.8	3.6	4.5	5.5	6.7	7.8	9.2
No. of Cylinders		2	2	2	2	2	2	2	2	2	2
Power Supply		△ /Y △: 220-240V-3-50Hz, 265-290V-3-60Hz Y: 380-420V-3-50Hz, 440-480V-3-60Hz									
Max Running Current	A	4.2/2.4	4.8/2.8	6.0/3.4	6.8/3.9	8.5/4.9	9.9/5.7	13.3/7.6	16.1/9.3	17.5/10.1	20.1/11.5
Maximum power	kW	1.1	1.2	1.5	1.9	2.5	3.1	4.0	4.8	5.5	6.4
Starting current	A	16.4/9.4	16.4/9.4	26.4/15.2	26.4/15.2	43.5/25.0	43.5/25.0	66.6/38.2	66.6/38.2	79.2/45.8	96.1/55.5
Weight	kg	47	47	48	48	50	50	52	52	78	80

Model SPS		22-11	41-13	41-15	41-18	41-22	42-29	42-35	42-41	42-48
Displacement at 50Hz	m ³ /h	11.2	13.0	15.6	18.4	22.3	28.7	34.7	41.3	48.5
No. of Cylinders		2	4	4	4	4	4	4	4	4
Power Supply		△ /Y △: 220-240V-3-50Hz, 265-290V-3-60Hz Y: 380-420V-3-50Hz, 440-480V-3-60Hz					PW(Y/Y) 380-420V-3-50Hz 440-480V-3-60Hz			
Max Running Current	A	24.7/14.2	29.6/17.0	33.7/19.4	39.3/22.6	47.6/27.4	33.3	40.4	49.4	57.4
Maximum power	kW	7.8	8.8	10.7	12.7	15.5	19.5	23.7	28.4	33.6
Starting current	A	123.7/71.5	161.7/93.5	203.8/117.8	235.2/136	235.2/136	121/198	162/265	185/303	215/352
Weight	kg	84	97	98	103	103	158	162	172	175

Note: Please contact us directly for more details.

RefComp SPT CO2 Series Semi-hermetic Transcritical Piston Compressor

RefComp SPT compressors are applicable for CO₂ transcritical and subcritical cycles, including 26 models. Displacement: 4.4-38.2m³/h, power: 6-50HP. The components are specifically designed for CO₂ application, to ensure the high efficiency and stable operation of the compressor. SPT piston machine has the characteristics of durability, compact structure and so on and so forth.



- Working pressure as high as 160bar, advanced design concept, high quality housing material selected to ensure the housing to meet the strength requirement.
- Environment-friendly refrigerant CO₂, advantageous in areas where the requirement for safety is high.
- Evident environmental benefit.
- Safety valve installed to prevent the pressure inside the housing from exceeding the safety threshold.
- Built-in high density suction filter to remove the impurities of the refrigerant gas and protect the motor.
- Reliable and efficient valve plate group design with valve plate made from impact resistant sliding steel. Rapid and reliable gas exchange and long durability.
- The sliding bearings are made of composite materials, providing reliable support for the moving components.
- Motor protection module, to ensure the safe operation of the compressor.

Technical Parameters

Model SPT		41-4L	41-4H	41-5L	41-5H	41-6L	41-6H	41-8L	41-8H	41-9L
Displacement at 50Hz	m ³ /h	4.4	4.4	5.4	5.4	6.6	6.6	8.0	8.0	9.6
No. of Cylinders		4	4	4	4	4	4	4	4	4
Power Supply		△ /Y △: 220-240V-3-50Hz, 265-290V-3-60Hz Y: 380-420V-3-50Hz, 440-480V-3-60Hz								
Max Running Current	A	18.3/10.5	25.1/14.5	20.9/12.0	29.9/17.2	26.3/15.1	38.6/22.2	31.1/17.9	45.8/26.3	38.6/22.2
Maximum power	kW	6.1	8.4	7.0	10.0	8.8	12.9	10.4	15.3	12.9
Starting current	A	96/55	157/90	124/71	157/90	157/90	198/114	198/114	229/132	198/114
Weight	kg	98	102	100	102	103	109	110	114	112

Model SPT		42-9L	42-9H	42-11L	42-11H	42-14L	42-14H	42-18L	42-18H	42-22L	42-22H	42-26L	42-26H
Displacement at 50Hz	m ³ /h	9.2	9.2	11.9	11.9	14.4	14.4	17.8	17.8	21.9	21.9	25.5	25.5
No. of Cylinders		4	4	4	4	4	4	4	4	4	4	4	4
Power Supply		PW(Y/Y) 380-420V-3-50Hz 440-480V-3-60Hz											
Max Running Current	A	21.2	30.5	26.8	39.6	34.1	47.3	42.3	59.0	54.0	71.4	63.0	83.4
Maximum power	kW	12.3	17.7	15.6	23.0	19.8	27.5	24.6	34.3	31.4	41.5	36.6	48.5
Starting current	A	77/127	89/147	89/147	121/198	121/198	162/265	162/265	185/303	185/303	215/352	215/352	226/371
Weight	kg	154	158	158	165	165	170	170	182	182	188	188	195

Model SPT		61-27L	61-27H	61-32L	61-32H	61-38L
Displacement at 50Hz	m ³ /h	27.2	27.2	31.7	31.7	38.2
No. of Cylinders		6	6	6	6	6
Power Supply		PW(Y/Y) 380-420V-3-50Hz 440-480V-3-60Hz				
Max Running Current	A	62.0	76.0	73.0	84.0	84.0
Maximum power	kW	37.0	52.0	44.0	57.0	57.0
Starting current	A	240/352	242/356	240/352	242/356	242/356
Weight	kg	240	245	240	240	245

Note: Please contact us directly for more details.

RefComp SPM Series Marine Piston Compressors

RefComp SPM Series are particularly developed for marine use, satisfying the application requirement on the marine vessels. The oil storage and supply structure of the compressor are specially designed to ensure the reliability of the lubricant oil supply system and the smooth oil suction of the oil pump when the compressor tilts and sways with the vessel. There are 14 models of compressors, Two types of compressors are available: high temperature compressor (H) for air conditioning and low temperature compressor (L) for refrigeration.



- Exclusively developed for marine use: special structure design guaranteed.
- Working pressure: up to 25bar. compact size: filter, shut-off valve, and temperature sensor are integrated in one body.
- The crankshaft has balancing weight: smooth operation, low-vibration and excellent lubrication.
- The deepened oil groove ensures compressor with stable and reliable oil supply when in swing and sway ambient condition.
- The capacity is controlled with the full load or partial load, via the solenoid valve.
- Applicable for R22, R407C, R134a, R404A, etc..
- Easy installation and maintenance.
- Motor protection module ensures the safe operation of the compressor.

Technical Parameters

Model		SPM4H				SPM6H		
		2200	2500	3000	3500	3700	4000	5000
Nominal Power	Hp/kW	22/16.4	25/18.7	30/22.4	35/26.1	37/27.6	40/29.9	50/37.3
Displacement at 50/60Hz	m³/h	64.7/77.6	75.0/90.0	86.1/103.3	102.9/123.5	112.5/135.0	129.1/154.9	154.4/185.3
No. of Cylinders		4	4	4	4	6	6	6
Weight	kg	206	219	222	251	254	259	263
Oil Charge	dm³	6.0	6.0	6.0	6.0	6.5	6.5	6.5
Power Supply		400V/3/50Hz - 460V/3/60Hz PW						
Starting Current	A	102/170	123/201	150/243	178/290	178/290	201/330	233/394

Model		SPM4L				SPM6L		
		1500	1800	2200	2500	2700	3000	4000
Nominal Power	Hp/kW	15/11.2	18/13.3	22/16.4	25/18.7	27/20.2	30/22.4	40/29.9
Displacement at 50/60Hz	m³/h	64.7/77.6	75.0/90.0	86.1/103.3	102.9/123.5	112.5/135.0	129.1/154.9	154.4/185.3
No. of Cylinders		4	4	4	4	6	6	6
Weight	kg	195	199	208	233	243	249	260
Oil Charge	dm³	6.0	6.0	6.0	6.0	6.5	6.5	6.5
Power Supply		400V/3/50Hz - 460V/3/60Hz PW						
Starting Current	A	88/146	102/170	102/170	123/201	123/201	150/243	201/330

Note: Please contact us directly for more details.

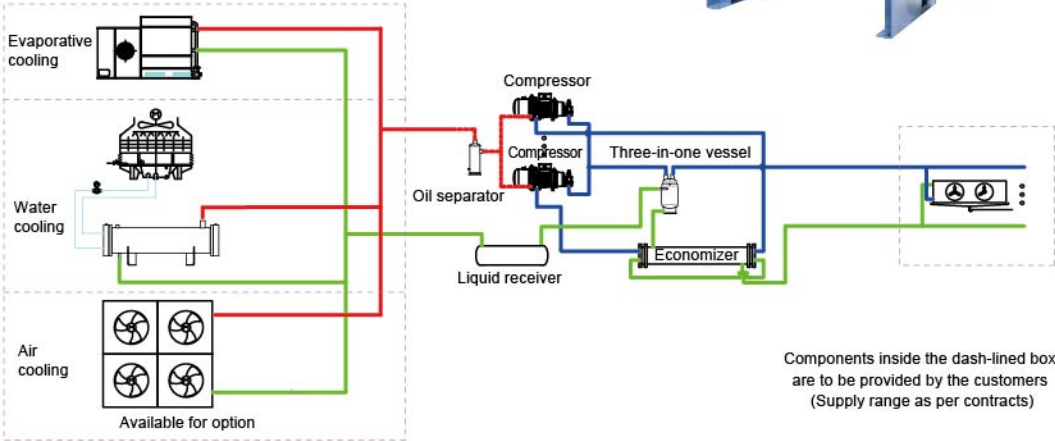
SW3 Low Temp Series Semi-hermetic Compressor (Condensing) Units

With the inheritance of compression technology from RefComp, Snowman introduces advanced RefComp compressor (condensing) units SW3L Series with power range of 60- 880HP. Per the request of the customers, the HP of the unit can be as high as 1320HP, including two options: water- cooled compressor units and compressor condensing units. The design and production of the units fully meet the actual requirement of industrial refrigeration. The design and layout of all the components maximize the reliability and maintainability for on-site operation. Components of the units: RefComp compressor, oil separator, (condenser), suction accumulator, economizer, liquid receiver, control center, etc..



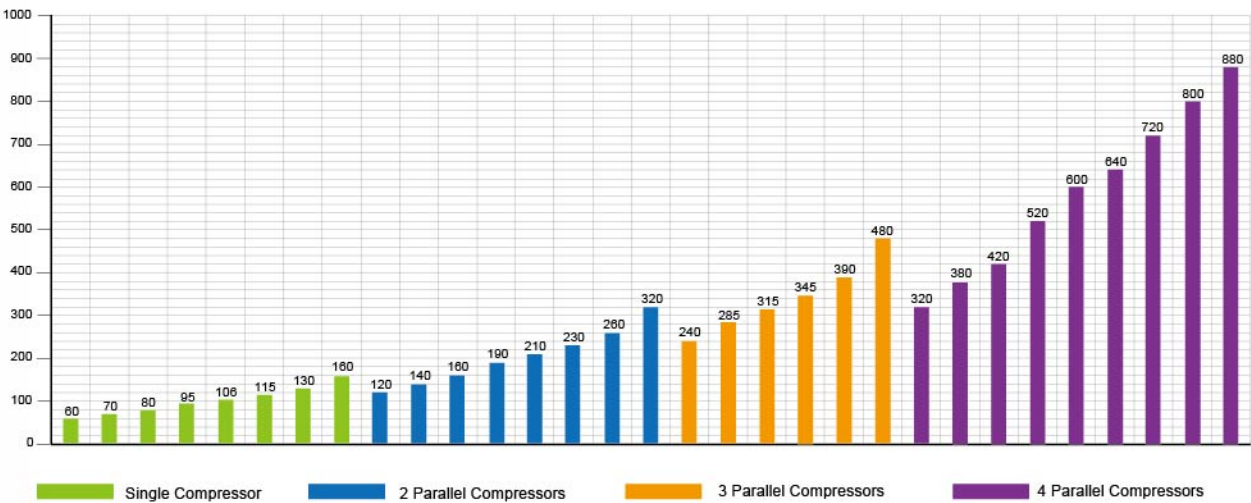
Refrigerant*	R22/R404A/R507A
Cooling capacity**	67 ~ 854.4kW
Power Supply	380V/3P/50Hz
No. of Compressors ***	1 ~ 4 Pc

- * If the units are for other refrigerants, please contact us.
- ** Standard working condition, - 30/40°C for R22.
- *** For more compressor-consist parallel rack, please contact us.



Components inside the dash-lined box are to be provided by the customers (Supply range as per contracts)

Compressor HP



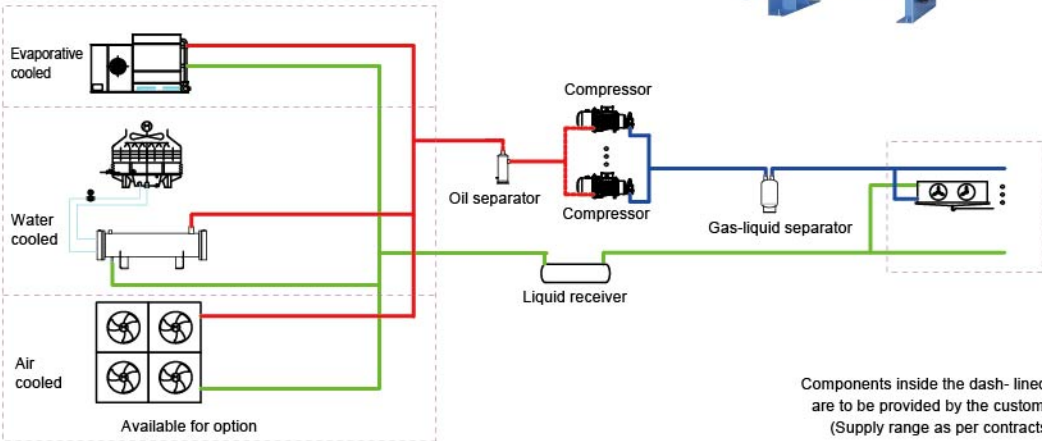
SW3 Medium/High Temp Semi-hermetic Compressor (Condensing) Units

With the inheritance of compression technology from RefComp, Snowman introduces high-end RefComp compressor (condensing) units SW3H Series with power range of 75-1000HP, including two options: water-cooled compressor (condensing) units and compressor units. SW Series high temp screw compressors are packaged with high-efficiency oil separator, and have wide application scenarios. The design and layout of all the components maximize the reliability and maintainability for on-site operation. Components of the units: RefComp compressor, oil separator, (condenser), economizer, liquid receiver, control center, etc..



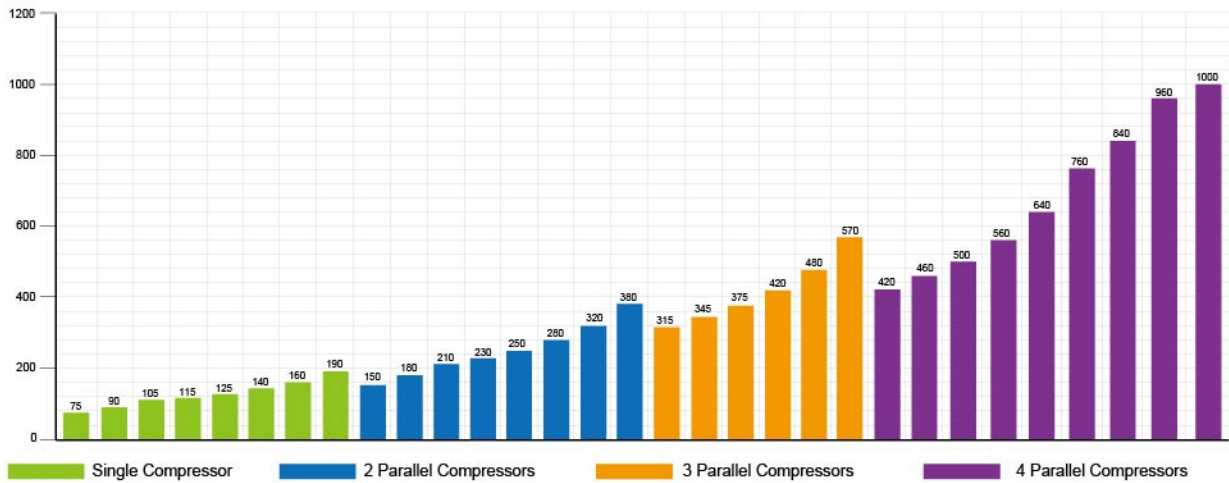
Refrigerant *	R22/R404A/R507A
Cooling Capacity**	145.5 ~ 1822kW
Power Supply	380V 3P 50Hz
No. of Compressors ***	1 ~ 4 Pc

- * If the units are for other refrigerants, please contact us.
- ** Standard working condition, -5/40°C and for R22.
- *** For more compressor-consist parallel rack, please contact us.



Components inside the dash-lined box are to be provided by the customers (Supply range as per contracts)

Compressor HP



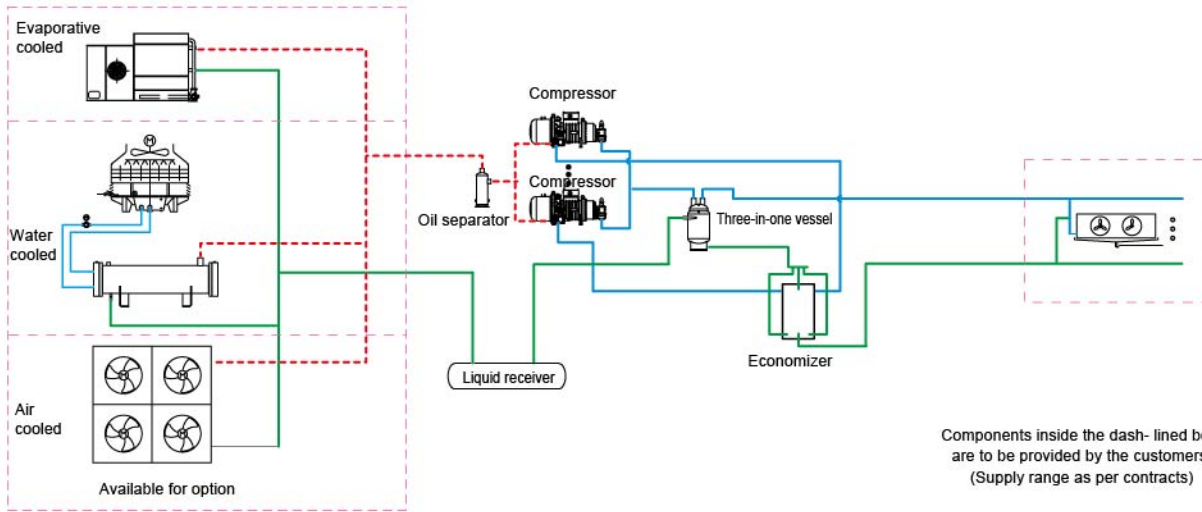
SW5L Semi-hermetic Compressor (Condensing) Units

With the inheritance of compression technology from RefComp, Snowman introduces high-end RefComp compressor (condensing) units SW5L Series with power range of 20-600HP. Per the request of the customers, the HP of the unit can be as high as 900HP. The design and production of the units satisfy fully the actual requirement of industrial refrigeration. The design and layout of all the components maximize the reliability and maintainability for on-site operation. Components of the units: RefComp compressor, oil separator, (condenser), suction accumulator, economizer, liquid receiver, control center, etc..



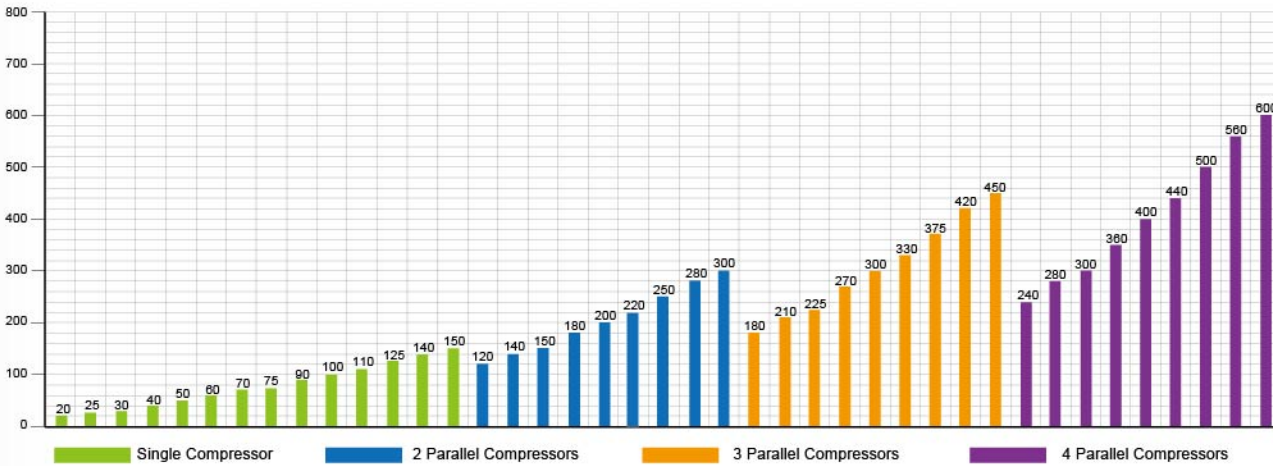
Refrigerant *	R22/R404A/R507A
Cooling Capacity**	22.5kW ~ 622.8kW
Power Supply	380V 3P 50Hz

- * If the units are for other refrigerants, please contact us.
- ** Standard working condition, -30/40°C for R22.
- For more compressor-consist parallel rack, please contact us.



Components inside the dash-lined box are to be provided by the customers (Supply range as per contracts)

Compressor HP



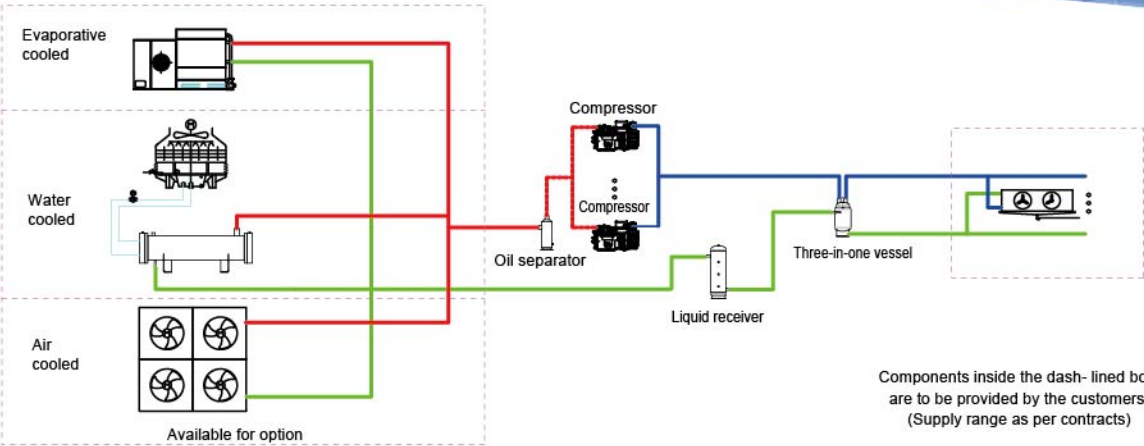
SP(L) Low Temp Piston Compressor (Condensing) Units

Snowman use RefComp SP compressors for this serie units. The power range is 6-160HP. Per the request of the customers, the HP of the unit can be as high as 240HP. Units configuration is flexible: units can packaged with water-cooled condenser, air-cooled condenser or without condenser. With many years of experience, the units are user- friendly: suction port, drainage port and oil charge port are all included, rendering easy maintenance and replacement. Components of the units: RefComp compressor, oil separator, (condenser), suction accumulator, economizer, liquid receiver, control center, etc..

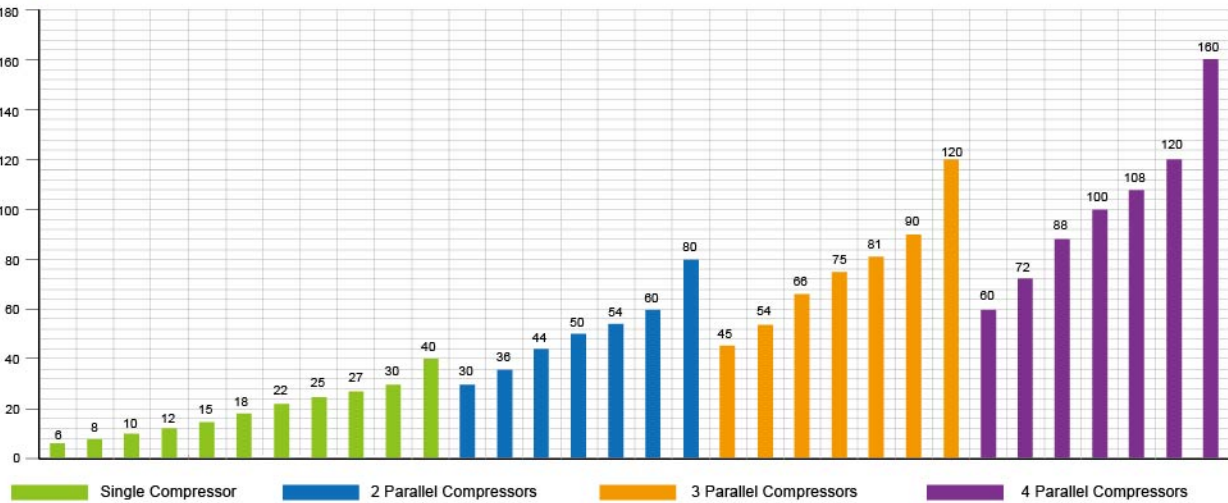


Refrigerant *	R22/R404A/R507A
Cooling Capacity**	9.9 ~ 157.6kW
Power Supply	380V 3P 50Hz
No. of Compressors ***	1 ~ 4 Pc

- * If the units are for other refrigerants, please contact us.
- ** Standard working condition, -23/40°C for R22.
- *** For more compressor- consist parallel rack, please contact us.



Compressor HP



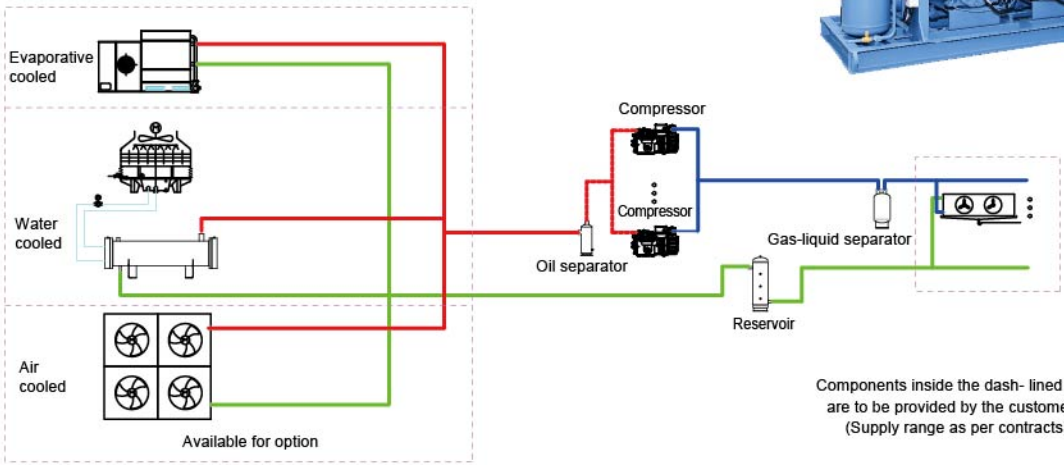
SP(H) Medium/High Temp Piston Compressor (Condensing) Units

Snowman use RefComp SP compressors for this series. The power range is 10-200HP. Per the request of the customers, the HP of the unit can be as high as 300HP. Units configuration is flexible: units can be paired with water-cooled condenser, air- cooled condenser or without condenser. With many years of experience, the units are user-friendly: suction port, drainage port and oil charge port are all included, rendering easy maintenance. Components of the units: RefComp compressor, oil separator, (condenser), vapor- liquid receiver, control center, etc..

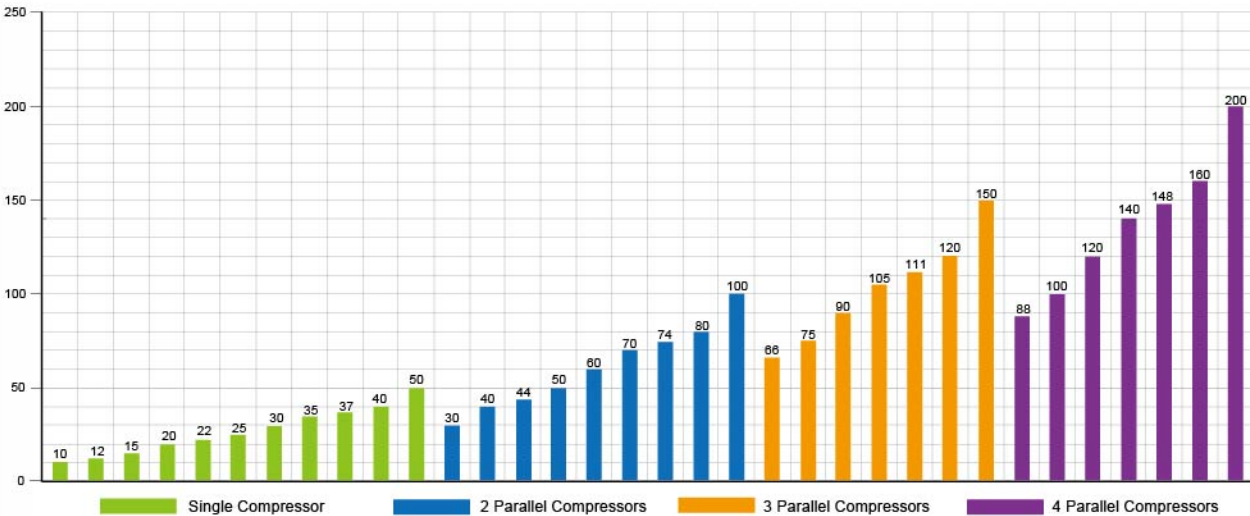


Refrigerant *	R22/R404A/R507A
Cooling Capacity**	21.3~361.6kW
Power Supply	380V 3P 50Hz
No. of Compressors ***	1~4 Pc

- * If the units are for other refrigerants, please contact us.
- ** Standard working condition, -7/40°C for R22.
- *** For more compressor-consist parallel rack, please contact us.



Compressor HP



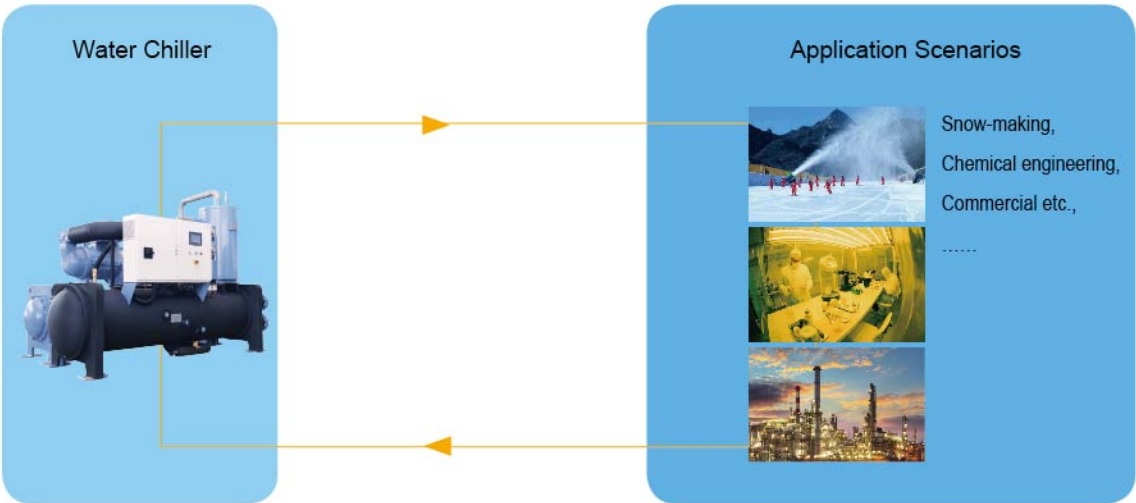
Semi-hermetic Screw Water Chillers

Based on the semi- hermetic screw compressors of RefComp, Snowman has optimized its design, introducing standard semi- hermetic screw water chiller, providing various refrigerating solutions for different working conditions. With its easy operation, safe and reliable running, the series can be applied in various scenarios such as industries in petroleum, chemical engineering, coal, medicine, fishery, commercial, food, scientific research, etc., where refrigeration is needed. We are committed to providing the customers with the most economic, energy-saving, safe and high efficiency water chiller. Components included: RefComp semi-hermetic screw compressor, oil separator, evaporator (dry/liquid flooded), water-cooled condenser, throttling device, dry filter, valves and pipings, etc..



High Temp.: -10℃ < Brine outlet temp ≤ 3℃
Med Temp.: -25℃ < Brine outlet temp ≤ -10℃
Low Temp.: -35℃ < Brine outlet temp ≤ -25℃

- Snowman's rich experiences in refrigeration system design and development.
- Single unit and multiple units design, meeting the actual needs of the customers.
- Optimized structure design, module design, high integration, compact size, easy installation and maintenance.
- Components and accessories are selected from famous brands, rendering the reliable quality.
- Applicable for various refrigerants.
- Steps or stepless capacity control, flexible and controllable load, applicable for great changes in various working conditions.
- Wide applications for high, medium, low temp working conditions.
- The evaporative cooled, water-cooled, and air-cooled condensers are available to meet the different requirements of regions.
- Intelligent control center, easy operation, which can automatically record the operation parameters of the system, preventive safety and protection system installed.
- Robust quality assurance system.



Cooling capacity

Unit	Cooling capacity (kW)	Unit	Cooling capacity (kW)
High Temp Water-cooled water chiller	96 ~ 1108	High Temp Flooded water chiller	459 ~ 1201
Mid Temp Water-cooled Dry water chiller	54 ~ 680	Low Temp Dry-type Dry water chiller	40 ~ 499

Note: 1. In case of deviations due to the technological improvement, please subject to the actual design.
2. Please contact us directly for more details.