RefComp

Semi-hermetic

Compressor/Condensing Unit (Screw & Piston Type)

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RefComp Italy

Wholly-owned subsidiary of Snowman

The World Famous Brand for Screw Compressor and Piston Compressor

Specialized in Commercial Refrigeration Compressor

25 Years of Exploration in Screw Technology for Energy-saving and Environment-protection

The First R134a Screw Compressor in the World

The First Frequency-conversion-integrated Screw Compressor in the World

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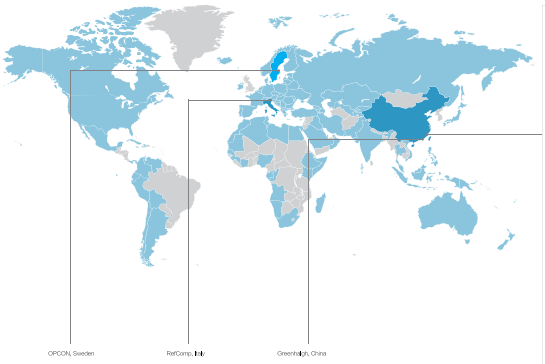


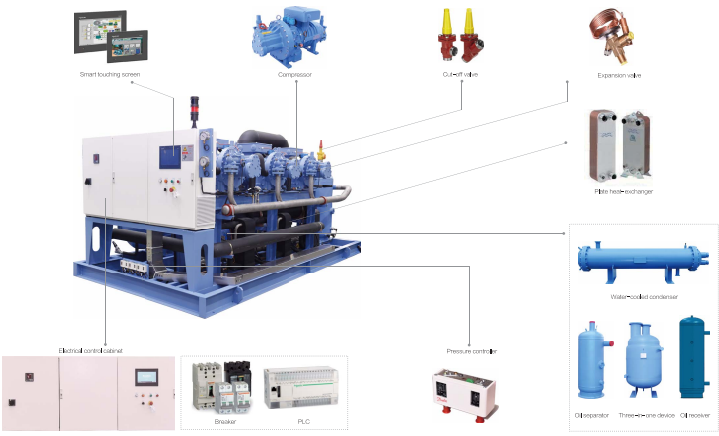
Fujian Snowman Co., Ltd, was established in March, 2000 and published at Shenzhen Stock Exchange in Dec, 2011 (Stock code:002639). Snowman, a high-tech enterprise with compressor technology as a core, is specialized in development, designing, manufacturing, sales, installation and after-sales service of industrial & commercial refrigeration and cold storage units as well as complete packages of refrigeration systems and ice making systems.

Snowman ranks first in the comprehensive market shares of ice machines globally. Snowman also actively carry out domestic and international mergers and acquisitions, obtaining the core technology of designing and manufacturing high-level compressors. Through 100% acquisition of the founder of screw compressor SRM from Sweden and famous compressor manufacturer RefComp from Italy, Snowman owns two famous brands for open-type semi-hermetic screw compressor and piston compressor, one is SRM and another is RefComp, which makes it become the world famous compressor manufacturing enterprise. Snowman also set up a joint venture with Swedish OPCON (the world-leading brand for screw expansion powerbox), to develop the technology for utilization of waste heat and low grade energy as well as power generation.

Snowman always pays much attention on technological innovations, with 6 R&D centers. And Snowman also set up 2 manufacturing centers in both China and Italy. With more than 300 patents and more than 500 key process technologies, Snowman has gained the ISO9001, ISO14001, OHSAS18001 and CE Certifications, obtained the Pressure Vessel 「A」, 「B」 Designing and Manufacturing License, PED & ASME Designing and Manufacturing License, Pressure Pipeline Grade GC2/GC1 Designing and Manufacturing License, Pressure Pipeline Grade GC2 Installation and Maintenance License, Fishing Vessel Survey Certificate, Explosion-proof Certificate as well as the 2nd Grade Qualification License for Mechanical and Electrical General Engineering Contracting.

Since the establishment of Snowman Co, Ltd, it has been developing and growing constantly, Snowman now has become a manufacturing enterprise of refrigeration equipment, with a complete industrial chain, advanced and core technology, first-class equipment and world famous brands. In the future, Snowman will keep focusing on compressors, directing for industrial refrigeration, commercial refrigeration and sub-chain products and systems applications, utilization of low grade energy and power generation, to create a world famous enterprise for refrigeration equipment.

Keeping faith of the advanced technology of RefComp compressor, Snowman has launched high-level RefComp compressor units and compressor condensing units.
Snowman also held strict attitude to develop products and professional attitude to serve every customer.



Compressor

The world famous compressor manufacturer RefComp is a wholly-owned subsidiary of Snowman, with products of reliable quality and excellent performance, and has become a leader in air-conditioning and refrigeration compressor industry globally.

SP series piston compressors are of wide adaptability, high efficiency, low energy consumption and easy for parallel running.

SW series screw compressors are suitable for cold storage applications and capable of multi-parallel running, with continuous control valve for energy adjustment.

SRC-S series compact semi-hermetic screw compressors are suitable for refrigeration applications with high and medium evaporative temperature, with built-in high-efficient oil separator, 4-step or stepless energy adjustment.

Cut-off valve

Cut-off valves in the refrigeration system are always having leakage problem. Paying attention to this, Snowman requires cut-off valves with excellent flow conditions and accurate linear characteristics, as well as meeting the directives and requirements of pressure vessels for every country. Danfoss valves has gained PED and CE certifications, which accord with Snowman's standards.

Expansion valve

Danfoss thermal expansion valve, with stainless steel actuator, interchangeable flow components, accurate temperature tuning, wide cooling capacity range, and low gap overlap.

Plate heat-exchanger

Alfa Laval and Danfoss are the globally-renowned brands for plate heat-exchangers which are compact in structure, light in weight, easy to install, with excellent distributed flow, stable thermal performance and less charge of refrigerant.

Water-cooled condenser

The shell-and-tube type condenser, to condense the high temperature and high pressure gas refrigerant into high pressure liquid refrigerant, are widely used in various kinds of condensing heat-exchanging processes. Based on the heat transfer features of refrigerant and cooling medium, the heat-exchanging pipes adopt unique design, which enlarges the heat-exchanging surface and increases the heat-exchanging efficiency. In the meantime, optimizes the pipes design as well as improves the heat-exchange and cooling efficiency.

Oil separator

In the cooling systems, there is always some lubricating oil exhausted along with gas refrigerant, and the oil separator separates the oil from the refrigerant to avoid the oil flowing into the internal system, which improves the heat-exchanger's efficiency, and in the meantime makes sure that lubricating oil back to compressor, to prolong the using life of the compressor and make the cooling system more efficient.

Three-in-one device

Three-in-one device is a machine which is combined with liquid receiver, suction accumulator and heat-exchanger, with three functions in one device. Hence, it greatly improves the efficiency of cooling system and avoids the liquid running into compressor.

Liquid receiver

Liquid receiver is for storing high pressure liquid refrigerant in the cooling system, to adjust and stable the circulation of refrigerant. In the meantime, it can also prevent high pressure liquid refrigerant from flowing into low pressure system, to stable the system functions. It has been widely used in the fields of air-conditioning and commercial cooling. There are two types of liquid receivers for option: horizontal (WZF) and vertical (LZF), with varieties of models.

Pressure controller

As an important protection device, pressure controller raises a security barrier for compressor. Snowman has strict requirements on the quality of pressure controller. Danfoss pressure controller obtained CCC, CE, GL, GNV certifications with its excellent performance, and also gained Snowman's recognition with its extremely low breakdown rate.

Electrical control cabinet

The electrical control cabinet of Snowman refrigeration units are with main components from SIEMENS, Schneider, ABB, OMRON and other world famous brands; PLCs from SIEMENS, Schneider, MITSUBISHI, OMRON, DANFOSS and other world famous brands; and frequency converter from SIEMENS, Schneider, MITSUBISHI, OMRON, DANFOSS and other world famous brands.

Breaker

Circuit breakers are from the international top brand Schneider, easy to install in modular, with full range of certifications such as CCC, CE, UL, TUV, CCS, and in line with the EU RoHS directives.

PLC

Control system adopts Schneider M218 series PLC.

Smart touching screen

Through the Schneider 5.6K true color touching screen, to control the whole operation process of refrigeration equipment.

Snowman commercial compressor unit adopts RefComp semi-hermetic piston or semi-hermetic screw compressor as the core component. Through optimization design, Snowman produce series of standard compressor units and compressor condensing units, which are applicable to a wide range of application fields such as pharmaceutical, chemical fiber, household electrical appliances, food, packaging, plastics, daily necessities, water conservancy and hydro power, construction (central air-conditioning) and others. The units can provide high, medium and low temperature of various ranges of cooling capacity, and offer every customer with the most economical, most efficient and safest solutions.

Product Features

- mechatronic integration structure, with small footprint, easy to operate and maintain;
- well-renowned compressor, with high cooling capacity;
- special economizer, with higher operation efficiency and lower operating costs;
- adaptable for a wide range of temperatures;
- unique design of gas and liquid separation, greatly reducing the damage caused by liquid shocks due to strong fluctuation of loads.

Humanized—beautiful appearance, easy maintenance

Sturdy—robust bed components, for quality assurance and stable and reliable operation;

Compact modular design, to save space and investment costs;

Beautiful appearance, reasonable layout, detailed consideration and constant improvement;

Humanization design, with components easy to replace, low cost for maintenance;

Flexible pipe fixation, less vibration and noise.

Smart—one-touch operation, remote communication

Intelligent control, energy adjustable according to the real time loads;

On-line remote control, to reduce labor costs;

Multi-step energy adjustment, more accurate in load matching.

Safe—multiple safety protection and alarm devices

Monitoring compressor motor and displacement temperature;

Monitoring motor rotating direction;

Monitoring default phase;

Monitoring oil flow, oil level and oil temperature;

Monitoring high and low pressure;

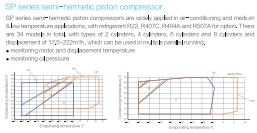
Automatic alarm and avoid-off, recording contents and time for the appearing disturbances;

Hierarchical password protection, to prevent improper operation of non-professional persons.

SP series semi-hermetic piston compressor

SP series semi-hermetic piston compressors are widely applied in air-conditioning and medium & low temperature applications, with refrigerant R22, R407C, R404A and R507A for option. There are 34 models in total, with types of 2 cylinders, 4 cylinders, 6 cylinders and 8 cylinders and displacement of 17.2~222m³/h, which can be used in multi-parallel running.

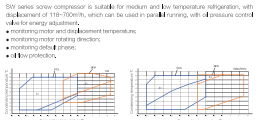
- monitoring motor and displacement temperature
- monitoring oil pressure



SW series screw compressor

SW series screw compressor is suitable for medium and low temperature refrigeration, with displacement of 118~700m³/h, which can be used in parallel running, with oil pressure control valve for energy adjustment.

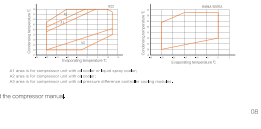
- monitoring motor and displacement temperature;
- monitoring motor rotating direction;
- monitoring default phase;
- oil flow protection.



SRC series compact semi-hermetic screw compressor

SRC series of compact semi-hermetic screw compressor is suitable for medium and high evaporating temperature, with built-in efficient oil separator, 4-step or stepless sliding valve for energy regulation, with displacement of 118~1100m³/h.

- monitoring motor and displacement temperature;
- monitoring default phase and reversed phase;
- electrical oil flow protection



For more information, please read the compressor manual.

Condenser	Compressor number	Compressor type	Motor type	Oil type

Oil phase, 1 letter
E ester oil
M mineral oil (or omitted)
A alkylbenzene synthetic oil

Single compressor
Motor HP number, 3 letters

Compressor type, 3 letters
P2L, P2H, P4L, P4H,
P6L, P6H, SB4, SN6,
134, SRC, SWH, SWL

Compressor number, 1 letter
Single compressor, with number omitted
2 parallel running with 2 compressors
3 parallel running with 3 compressors
4 parallel running with 4 compressors
5 parallel running with 5 compressors
6 parallel running with 6 compressors

Condenser, 1 letter
N no condenser
W water-cooled
A air-cooled
E evaporative condenser

Examples:

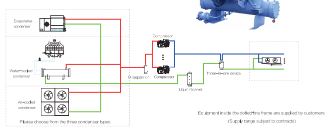
1、WP4L006, means the compressor condensing unit adopts single RefComp SP4LF0600 piston compressor for medium and low temperature applications, with water-cooled condenser and with mineral oil as refrigeration oil;
2、AP4H030, means the compressor condensing unit adopts single RefComp SP4H3000 piston compressor for high and medium temperature applications, with air-cooled condenser and with mineral oil as refrigeration oil;
3、NP4L006 means the compressor unit adopts single RefComp SP4LF0600 piston compressor for medium and low temperature applications, with mineral oil as refrigeration oil;
4、W2P4L006, means the compressor condensing unit adopts two parallel running RefComp SP4LF0600 piston compressors for medium and low temperature applications, with water-cooled condenser and with mineral oil as refrigeration oil.

Series of Low Temperature Piston Compressor Unit

Low temperature piston compressor unit adopts RefComp SP series piston compressor, with power ranges from 6 to 160HP, and can reach to 240HP upon request from the customer. The configurations of the units are flexible, based on customer's requirements. There are three options: water-cooled condenser, air-cooled condenser and without condenser. Low temperature piston compressor unit is the consummation of Snowman's long experience in designing the units. With 15 years of application experience, the compressor units adopt many humanized designs, with evacuation port, drainage port and filling port, which is convenient for maintenance.

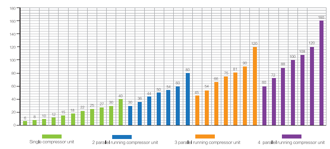
Refrigerant*	R22/R404A/R507A
Refrigeration capacity**	9.9 – 157.6kW
Power supply	380V 3P 50Hz
Compressor quantity***	1~6set

*Please inform us if you choose other types of refrigerant;
**Based on standard working condition -23/40℃, with refrigerant R22;
***Please inform us if choose multiple parallel running.



Equipment inside the dotted-line frame are supplied by customers
(Supply range subject to contracts)

Power of compressor unit



SP (L) Series Single Compressor Unit Performance Parameters and Graphs R22

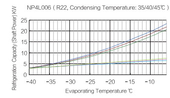
Evaporating Temperature℃	NP4L006						NP4L008					
	35		40		45		35		40		45	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-40	3	3	3	2.8	2.8	2.8	3.6	3.6	3.6	3.4	3.3	3.3
-35	4.7	3.5	4.5	3.5	4.2	3.5	5.7	4.2	5.4	4.2	5	4.2
-30	6.8	4	6.4	4.1	6	4.2	8.2	4.8	7.7	4.9	7.2	5.1
-25	9.4	4.5	8.8	4.7	8.2	4.9	11.3	5.4	10.6	5.6	9.8	5.9
-20	12.4	5	11.6	5.3	10.8	5.6	14.9	6	14	6.4	13	6.7
-15	15.9	5.6	14.9	5.9	13.9	6.3	19	6.7	17.9	7.1	16.7	7.6
-10	19.8	6.1	18.6	6.5	17.4	7	23.7	7.3	22.3	7.8	20.9	8.4

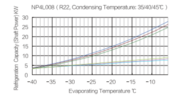
Evaporating Temperature℃	NP4L010						NP4L012					
	35		40		45		35		40		45	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-40	4.2	4.2	4.1	4	3.9	3.9	4.8	4.8	4.7	4.6	4.4	4.5
-35	6.6	4.9	6.3	4.8	5.8	4.9	7.5	5.6	7.2	5.5	6.7	5.6
-30	9.6	5.6	9	5.7	8.3	5.9	10.9	6.4	10.3	6.5	9.5	6.7
-25	13.2	6.3	12.3	6.6	11.4	6.9	15	7.2	14.1	7.5	13.1	7.9
-20	17.4	7.1	16.3	7.4	15.1	7.9	19.8	8.1	18.6	8.5	17.3	9
-15	22.2	7.8	20.8	8.3	19.4	8.8	25.4	8.9	23.8	9.5	22.2	10.1
-10	27.7	8.5	26	9.1	24.4	9.8	31.6	9.7	29.7	10.4	27.9	11.2

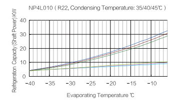
Evaporating Temperature℃	NP4L015						NP4L018					
	35		40		45		35		40		45	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-40	6.2	4.8	5.6	4.9	5.1	4.9	7.2	5.6	6.6	5.6	6	5.7
-35	8.8	5.8	8	6	7.4	6.2	10.2	6.8	9.3	7	8.5	7.2
-30	11.9	6.9	11	7.3	10.1	7.6	13.9	8	12.8	8.4	11.8	8.8
-25	15.9	8.1	14.7	8.5	13.7	9	18.4	9.3	17.1	9.9	15.8	10.4
-20	20.8	9.2	19.4	9.8	18.1	10.4	24.1	10.7	22.5	11.3	20.9	12
-15	26.8	10.3	25.1	11	23.5	11.8	31	12	29.1	12.8	27.3	13.6
-10	34	11.4	32	12.2	30.1	13.1	39.4	13.2	37.1	14.2	34.9	15.2

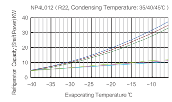
Evaporating Temperature℃	NP4L022						NP4L025					
	35		40		45		35		40		45	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-40	8.2	6.4	7.5	6.5	6.8	6.5	9.9	7.6	9	7.7	8.2	7.8
-35	11.7	7.8	10.7	8	9.8	8.3	13.9	9.3	12.8	9.6	11.7	9.9
-30	15.9	9.2	14.6	9.7	13.5	10.1	19	11	17.5	11.6	16.1	12.1
-25	21.1	10.7	19.6	11.3	18.2	11.9	25.3	12.8	23.4	13.5	21.7	14.3
-20	27.7	12.2	25.8	13	24	13.8	33.1	14.6	30.8	15.5	28.7	16.5
-15	35.6	13.7	33.3	14.7	31.3	15.6	42.6	16.4	39.9	17.5	37.4	18.7
-10	45.2	15.2	42.5	16.3	40.1	17.5	54.1	18.1	50.9	19.5	47.9	20.9

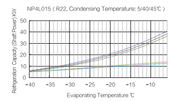
Notes: 1. Q for refrigeration capacity (kW), and P for shaft power(kW);
2. Snowman shall not be responsible for the errors in printing materials, and reserves all rights to change products without advance notification;
3. Should the changes do not result in any changes of the ordered products, the right of changes will be also applied to the ordered products.

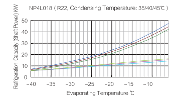


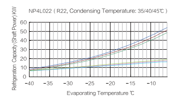


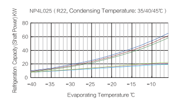












35℃Refrigeration Capacity — 40℃Refrigeration Capacity — 45℃Refrigeration Capacity
35℃Shaft Power — 40℃Shaft Power — 45℃Shaft Power

SP (L) Series Single Compressor Unit Performance Parameters and Graphs (Continued) R22

Evaporating Temperature℃	NP6L027						NP6L030					
	35		40		45		35		40		45	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-40	10.8	8.3	9.8	8.5	9	8.6	12.4	9.6	11.3	9.7	10.3	9.8
-35	15.2	10.2	14	10.5	12.8	10.8	17.5	11.7	16	12.1	14.7	12.5
-30	20.8	12.1	19.1	12.6	17.6	13.2	23.9	13.9	22	14.5	20.3	15.2
-25	27.7	14	25.6	14.8	23.8	15.6	31.8	16.1	29.5	17	27.3	18
-20	36.2	16	33.7	17	31.4	18.1	41.6	18.4	38.7	19.6	36.1	20.8
-15	46.6	17.9	43.6	19.2	40.9	20.5	53.5	20.6	50.1	22.1	47	23.5
-10	59.2	19.8	55.7	21.3	52.4	22.8	68	22.8	64	24.5	60.3	26.3

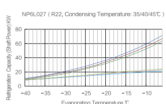
Evaporating Temperature℃	NP6L040					
	35		40		45	
	Q	P	Q	P	Q	P
-40	14.8	11.5	13.5	11.6	12.3	11.8
-35	20.9	14	19.2	14.4	17.6	14.9
-30	28.5	16.6	26.3	17.4	24.2	18.1
-25	38	19.3	35.2	20.4	32.6	21.5
-20	49.7	22	46.3	23.4	43.2	24.8
-15	64	24.6	59.9	26.4	56.2	28.1
-10	81.2	27.2	76.4	29.3	72	31.4

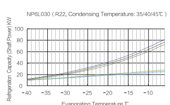
SP (L) Series Single Compressor Unit Performance Parameters and Graphs (Continued) R507A

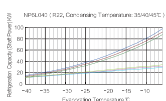
Evaporating Temperature℃	NP4L006E						NP4L008E					
	35		40		45		35		40		45	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-40	4.3	3.4	3.7	3.4	3.1	3.3	5.2	4	4.5	4	3.7	4
-35	5.8	4.1	5	4.1	4.2	4.2	7	4.9	6	4.9	5.1	5
-30	7.8	4.8	6.8	4.9	5.8	5	9.3	5.7	8.2	5.8	7	6
-25	10.2	5.4	9	5.6	7.9	5.8	12.2	6.5	10.9	6.7	9.5	6.9
-20	13.1	6.1	11.8	6.3	10.4	6.6	15.7	7.3	14.1	7.6	12.5	7.9
-15	16.5	6.7	15	7	13.4	7.3	19.8	8	17.9	8.4	16.1	8.8
-10	20.3	7.3	18.6	7.7	16.9	8.1	24.4	8.8	22.3	9.2	20.3	9.7
-6	23.8	7.8	21.9	8.2	20	8.7	28.5	9.3	26.3	9.9	24	10.4

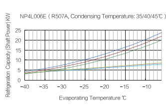
Evaporating Temperature℃	NP4L010E						NP4L012E					
	35		40		45		35		40		45	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-40	6	4.7	5.2	4.7	4.3	4.7	6.9	5.4	5.9	5.4	5	5.3
-35	8.1	5.7	7	5.8	5.9	5.8	9.3	6.5	8	6.6	6.8	6.7
-30	10.9	6.7	9.5	6.8	8.2	7	12.4	7.6	10.9	7.8	9.3	8
-25	14.2	7.6	12.7	7.8	11.1	8.1	16.3	8.7	14.5	9	12.6	9.3
-20	18.3	8.5	16.5	8.8	14.6	9.2	20.9	9.7	18.8	10.1	16.7	10.5
-15	23.1	9.4	20.9	9.8	18.8	10.3	26.3	10.7	23.9	11.2	21.5	11.7
-10	28.5	10.2	26.1	10.8	23.6	11.3	32.5	11.7	29.8	12.3	27	12.9
-6	33.3	10.9	30.7	11.5	28	12.2	38	12.4	35	13.2	32	13.9

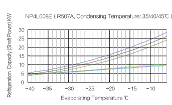
Notes: 1. Q for refrigeration capacity (kW), and P for shaft power(kW);
2. R404A is similar to R507A in values, so please refer to that of R507A for parameters of the products;
3. Snowman shall not be responsible for the errors in printing materials, and reserves all rights to change products without advance notification;
4. Should the changes do not result in any changes of the ordered products, the right of changes will be also applied to the ordered products.

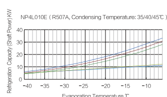


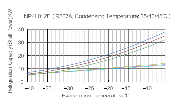












35℃Refrigeration Capacity — 40℃Refrigeration Capacity — 45℃Refrigeration Capacity
35℃Shaft Power — 40℃Shaft Power — 45℃Shaft Power

SP (L) Series Single Compressor Unit Performance Parameters and Graphs (Continued) R507A

Evaporating Temperature℃	NP4L015E						NP4L018E					
	35		40		45		35		40		45	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-40	8	6.2	6.9	6.2	5.7	6.2	9.3	7.2	8	7.2	6.6	7.1
-35	10.7	7.5	9.3	7.6	7.8	7.7	12.4	8.7	10.8	8.8	9.1	8.9
-30	14.3	8.8	12.6	9	10.8	9.2	16.6	10.2	14.6	10.4	12.5	10.7
-25	18.8	10	16.7	10.4	14.6	10.7	21.8	11.6	19.4	12	16.9	12.4
-20	24.2	11.2	21.7	11.7	19.3	12.2	28	13	25.2	13.5	22.4	14.1
-15	30.4	12.4	27.6	13	24.8	13.6	35.3	14.3	32.1	15	28.8	15.7
-10	37.6	13.5	34.4	14.2	31.2	15	43.6	15.7	39.9	16.5	36.2	17.3
-6	43.9	14.4	40.5	15.2	36.9	16	51	16.7	46.9	17.6	42.9	18.6

Evaporating Temperature℃	NP4L022E						NP4L025E					
	35		40		45		35		40		45	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-40	10.6	8.3	9.1	8.2	7.6	8.2	12.8	10	11	9.9	9.2	9.9
-35	14.3	10	12.4	10.1	10.4	10.2	17.2	12	14.9	12.2	12.5	12.3
-30	19.1	11.7	16.7	12	14.4	12.3	22.9	14.1	20.1	14.4	17.3	14.8
-25	25	13.3	22.2	13.8	19.4	14.2	30.1	16	26.8	16.6	23.4	17.1
-20	32.2	14.9	28.9	15.5	25.6	16.2	38.7	17.9	34.8	18.7	30.8	19.4
-15	40.5	16.5	36.8	17.2	33	18.1	48.7	19.8	44.2	20.7	39.7	21.7
-10	50	17.9	45.8	18.9	41.5	19.9	60.1	21.6	55.1	22.8	49.9	23.9
-6	58.4	19.1	53.8	20.2	49.1	21.3	70.3	23	64.8	24.3	59.1	25.7

Evaporating Temperature℃	NP6L027E						NP6L030E					
	35		40		45		35		40		45	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-40	13.9	10.8	11.9	10.8	10	10.7	16	12.5	13.7	12.4	11.4	12.3
-35	18.7	13.1	16.2	13.3	13.6	13.4	21.4	15.1	18.6	15.2	15.7	15.4
-30	24.9	15.3	21.9	15.7	18.8	16	28.7	17.6	25.1	18	21.6	18.4
-25	32.7	17.4	29.1	18	25.4	18.6	37.6	20	33.5	20.7	29.2	21.4
-20	42.1	19.5	37.8	20.3	33.5	21.1	48.4	22.4	43.5	23.4	38.6	24.3
-15	53	21.5	48.1	22.6	43.2	23.6	60.9	24.7	55.3	25.9	49.6	27.1
-10	65.4	23.5	59.9	24.7	54.3	26	75.2	27	68.8	28.4	62.4	29.9
-6	76.5	25	70.4	26.4	64.3	27.9	87.9	28.7	80.9	30.4	73.9	32.1

Evaporating Temperature℃	NP6L040E					
	35		40		45	
	Q	P	Q	P	Q	P
-40	19.2	14.9	16.5	14.9	13.7	14.8
-35	25.7	18.1	22.3	18.3	18.8	18.5
-30	34.4	21.1	30.2	21.6	25.9	22.1
-25	45.2	24	40.1	24.9	35.1	25.7
-20	58	26.9	52.2	28	46.3	29.2
-15	73	29.7	66.3	31.1	59.5	32.6
-10	90.2	32.4	82.6	34.1	74.9	35.9
-6	105.5	34.5	97.1	36.5	88.7	38.5

Notes: 1. Q for refrigeration capacity (kW), and P for shaft power(kW);
2. R404A is similar to R507A in values, so please refer to that of R507A for parameters of the products;
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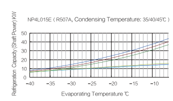
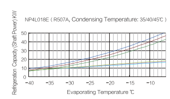
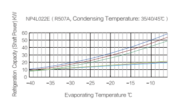
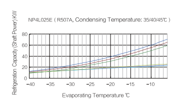
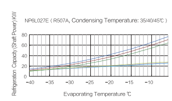
4. Should the changes do not result in any changes of the ordered products, the right of changes will be also applied to the ordered products.

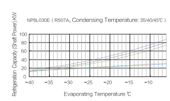


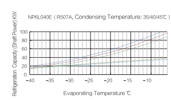












35℃Refrigeration Capacity — 40℃Refrigeration Capacity — 45℃Refrigeration Capacity
35℃Shaft Power — 40℃Shaft Power — 45℃Shaft Power

SP (L) Series Compressor Unit Performance Parameters R22

Unit Model		N2P4L015		N2P4L018		N2P4L022		N2P4L025		N2P6L027		N2P6L030		N2P6L040	
Compressor Model		SP4L1500		SP4L1800		SP4L2200		SP4L2500		SP6L2700		SP6L3000		SP6L4000	
Quantity		2													
Power		30		36		44		50		54		60		80	
Evaporating Temperature	Condensing Temperature	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-10	35	68	22.8	78.8	26.4	90.4	30.4	108.2	36.2	118.4	39.6	136	45.6	162.4	54.4
	40	64	24.4	74.2	28.4	85	32.6	101.8	39	111.4	42.6	128	49	152.8	58.6
	45	60.2	26.2	69.8	30.4	80.2	35	95.8	41.8	104.8	45.6	120.6	52.6	144	62.8
-15	35	53.6	20.6	62	24	71.2	27.4	85.2	32.8	93.2	35.8	107	41.2	128	49.2
	40	50.2	22	58.2	25.6	66.6	29.4	79.8	35	87.2	38.4	100.2	44.2	119.8	52.8
	45	47	23.6	54.6	27.2	62.6	31.2	74.8	37.4	81.8	41	94	47	112.4	56.2
-20	35	41.6	18.4	48.2	21.4	55.4	24.4	66.2	29.2	72.4	32	83.2	36.8	99.4	44
	40	38.8	19.6	45	22.6	51.6	26	61.6	31	67.4	34	77.4	39.2	92.6	46.8
	45	36.2	20.8	41.8	24	48	27.6	57.4	33	62.8	36.2	72.2	41.6	86.4	49.6
-25	35	31.8	16.2	36.8	18.6	42.2	21.4	50.6	25.6	55.4	28	63.6	32.2	76	38.6
	40	29.4	17	34.2	19.8	39.2	22.6	46.8	27	51.2	29.6	59	34	70.4	40.8
	45	27.4	18	31.6	20.8	36.4	23.8	43.4	28.6	47.6	31.2	54.6	36	65.2	43
-30	35	23.8	13.8	27.8	16	31.8	18.4	38	22	41.6	24.2	47.8	27.8	57	33.2
	40	22	14.6	25.6	16.8	29.2	19.4	35	23.2	38.2	25.2	44	29	52.6	34.8
	45	20.2	15.2	23.6	17.6	27	20.2	32.2	24.2	35.2	26.4	40.6	30.4	48.4	36.2
-35	35	17.6	11.6	20.4	13.6	23.4	15.6	27.8	18.6	30.4	20.4	35	23.4	41.8	28
	40	16	12	18.6	14	21.4	16	25.6	19.2	28	21	32	24.2	38.4	28.8
	45	14.8	12.4	17	14.4	19.6	16.6	23.4	19.8	25.6	21.6	29.4	25	35.2	29.8
-40	35	12.4	9.6	14.4	11.2	16.4	12.8	19.8	15.2	21.6	16.6	24.8	19.2	29.6	23
	40	11.2	9.8	13.2	11.2	15	13	18	15.4	19.6	17	22.6	19.4	27	23.2
	45	10.2	9.8	12	11.4	13.6	13	16.4	15.6	18	17.2	20.6	19.6	24.6	23.6

Notes: 1. Q for refrigeration capacity (kW), and P for shaft power(kW);
2. The above is for some of the compressor units' performance parameters. For more information, please contact us;
3. For compressor condensing units, please refer to "Compressor Unit Performance Parameters And Graphs";
4. Snowman shall not be responsible for the errors in printing materials, and reserves all rights to change products without advance notification;
5. Should the changes do not result in any changes of the ordered products, the right of changes will be also applied to the ordered products.

SP (L) Series Compressor Unit Performance Parameters (Continued) R22

Unit Model		N4P4L015		N4P4L018		N4P4L022		N4P4L025		N4P6L027		N4P6L030		N4P6L040	
Compressor Model		SP4L1500		SP4L1800		SP4L2200		SP4L2500		SP6L2700		SP6L3000		SP6L4000	
Quantity		4													
Power		60		72		88		100		108		120		160	
Evaporating Temperature	Condensing Temperature	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-10	35	136	45.6	157.6	52.8	180.8	60.8	216.4	72.4	236.8	79.2	272	91.2	324.8	108.8
	40	128	48.8	148.4	56.8	170	65.2	203.6	78	222.8	85.2	256	98	305.6	117.2
	45	120.4	52.4	139.6	60.8	160.4	70	191.6	83.6	209.6	91.2	241.2	105.2	288	125.6
-15	35	107.2	41.2	124	48	142.4	54.8	170.4	65.6	186.4	71.6	214	82.4	256	98.4
	40	100.4	44	116.4	51.2	133.2	58.8	159.6	70	174.4	76.8	200.4	88.4	239.6	105.6
	45	94	47.2	109.2	54.4	125.2	62.4	149.6	74.8	163.6	82	188	94	224.8	112.4
-20	35	83.2	36.8	96.4	42.8	110.8	48.8	132.4	58.4	144.8	64	166.4	73.6	198.8	88
	40	77.6	39.2	90	45.2	103.2	52	123.2	62	134.8	68	154.8	78.4	185.2	93.6
	45	72.4	41.6	83.6	48	96	55.2	114.8	66	125.6	72.4	144.4	83.2	172.8	99.2
-25	35	63.6	32.4	73.6	37.2	84.4	42.8	101.2	51.2	110.8	56	127.2	64.4	152	77.2
	40	58.8	34	68.4	39.6	78.4	45.2	93.6	54	102.4	59.2	118	68	140.8	81.6
	45	54.8	36	63.2	41.6	72.8	47.6	86.8	57.2	95.2	62.4	109.2	72	130.4	86
-30	35	47.6	27.6	55.6	32	63.6	36.8	76	44	83.2	48.4	95.6	55.6	114	66.4
	40	44	29.2	51.2	33.6	58.4	38.8	70	46.4	76.4	50.4	88	58	105.2	69.6
	45	40.4	30.4	47.2	35.2	54	40.4	64.4	48.4	70.4	52.8	81.2	60.8	96.8	72.4
-35	35	35.2	23.2	40.8	27.2	46.8	31.2	55.6	37.2	60.8	40.8	70	46.8	83.6	56
	40	32	24	37.2	28	42.8	32	51.2	38.4	56	42	64	48.4	76.8	57.6
	45	29.6	24.8	34	28.8	39.2	33.2	46.8	39.6	51.2	43.2	58.8	50	70.4	59.6
-40	35	24.8	19.2	28.8	22.4	32.8	25.6	39.6	30.4	43.2	33.2	49.6	38.4	59.2	46
	40	22.4	19.6	26.4	22.4	30	26	36	30.8	39.2	34	45.2	38.8	54	46.4
	45	20.4	19.6	24	22.8	27.2	26	32.8	31.2	36	34.4	41.2	39.2	49.2	47.2

Notes: 1. Q for refrigeration capacity (kW), and P for shaft power(kW);
2. The above is for some of the compressor units' performance parameters. For more information, please contact us;
3. For compressor condensing units, please refer to "Compressor Unit Performance Parameters And Graphs";
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SP (L) Series Compressor Unit Performance Parameters (Continued) R22

Unit Model		N4P4L015		N4P4L018		N4P4L022		N4P4L025		N4P6L027		N4P6L030		N4P6L040	
Compressor Model		SP4L1500		SP4L1800		SP4L2200		SP4L2500		SP6L2700		SP6L3000		SP6L4000	
Quantity		4													
Power		60		72		88		100		108		120		160	
Evaporating Temperature	Condensing Temperature	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-10	35	136	45.6	157.6	52.8	180.8	60.8	216.4	72.4	236.8	79.2	272	91.2	324.8	108.8
	40	128	48.8	148.4	56.8	170	65.2	203.6	78	222.8	85.2	256	98	305.6	117.2
	45	120.4	52.4	139.6	60.8	160.4	70	191.6	83.6	209.6	91.2	241.2	105.2	288	125.6
-15	35	107.2	41.2	124	48	142.4	54.8	170.4	65.6	186.4	71.6	214	82.4	256	98.4
	40	100.4	44	116.4	51.2	133.2	58.8	159.6	70	174.4	76.8	200.4	88.4	239.6	105.6
	45	94	47.2	109.2	54.4	125.2	62.4	149.6	74.8	163.6	82	188	94	224.8	112.4
-20	35	83.2	36.8	96.4	42.8	110.8	48.8	132.4	58.4	144.8	64	166.4	73.6	198.8	88
	40	77.6	39.2	90	45.2	103.2	52	123.2	62	134.8	68	154.8	78.4	185.2	93.6
	45	72.4	41.6	83.6	48	96	55.2	114.8	66	125.6	72.4	144.4	83.2	172.8	99.2
-25	35	63.6	32.4	73.6	37.2	84.4	42.8	101.2	51.2	110.8	56	127.2	64.4	152	77.2
	40	58.8	34	68.4	39.6	78.4	45.2	93.6	54	102.4	59.2	118	68	140.8	81.6
	45	54.8	36	63.2	41.6	72.8	47.6	86.8	57.2	95.2	62.4	109.2	72	130.4	86
-30	35	47.6	27.6	55.6	32	63.6	36.8	76	44	83.2	48.4	95.6	55.6	114	66.4
	40	44	29.2	51.2	33.6	58.4	38.8	70	46.4	76.4	50.4	88	58	105.2	69.6
	45	40.4	30.4	47.2	35.2	54	40.4	64.4	48.4	70.4	52.8	81.2	60.8	96.8	72.4
-35	35	35.2	23.2	40.8	27.2	46.8	31.2	55.6	37.2	60.8	40.8	70	46.8	83.6	56
	40	32	24	37.2	28	42.8	32	51.2	38.4	56	42	64	48.4	76.8	57.6
	45	29.6	24.8	34	28.8	39.2	33.2	46.8	39.6	51.2	43.2	58.8	50	70.4	59.6
-40	35	24.8	19.2	28.8	22.4	32.8	25.6	39.6	30.4	43.2	33.2	49.6	38.4	59.2	46
	40	22.4	19.6	26.4	22.4	30	26	36	30.8	39.2	34	45.2	38.8	54	46.4
	45	20.4	19.6	24	22.8	27.2	26	32.8	31.2	36	34.4	41.2	39.2	49.2	47.2

Notes: 1. Q for refrigeration capacity (kW), and P for shaft power(kW);
2. The above is for some of the compressor units' performance parameters. For more information, please contact us;
3. For compressor condensing units, please refer to "Compressor Unit Performance Parameters And Graphs";
4. Snowman shall not be responsible for the errors in printing materials, and reserves all rights to change products without advance notification;
5. Should the changes do not result in any changes of the ordered products, the right of changes will be also applied to the ordered products.

SP (L) Series Compressor Unit Performance Parameters (Continued) R507A

Unit Model		N2P4L015E		N2P4L018E		N2P4L022E		N2P4L025E		N2P6L027E		N2P6L030E		N2P6L040E	
Compressor Model		SP4L150E		SP4L180E		SP4L220E		SP4L250E		SP6L270E		SP6L300E		SP6L400E	
Quantity		2													
Power		30		36		44		50		54		60		80	
Evaporating Temperature	Condensing Temperature	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-10	35	75.2	27	87.2	31.4	100	35.8	120.2	43.2	130.8	47	150.4	54	180.4	64.8
	40	68.8	28.4	79.8	33	91.6	37.8	110.2	45.6	119.8	49.4	137.6	56.8	165.2	68.2
	45	62.4	30	72.4	34.6	83	39.8	99.8	47.8	108.6	52	124.8	59.8	149.8	71.8
-15	35	60.8	24.8	70.6	28.6	81	33	97.4	39.6	106	43	121.8	49.4	146	59.4
	40	55.2	26	64.2	30	73.6	34.4	88.4	41.4	96.2	45.2	110.6	51.8	132.6	62.2
	45	49.6	27.2	57.6	31.4	66	36.2	79.4	43.4	86.4	47.2	99.2	54.2	119	65.2
-20	35	48.4	22.4	56	26	64.4	29.8	77.4	35.8	84.2	39	96.8	44.8	116	53.8
	40	43.4	23.4	50.4	27	57.8	31	69.6	37.4	75.6	40.6	87	46.8	104.4	56
	45	38.6	24.4	44.8	28.2	51.2	32.4	61.6	38.8	67	42.2	77.2	48.6	92.6	58.4
-25	35	37.6	20	43.6	23.2	50	26.6	60.2	32	65.4	34.8	75.2	40	90.4	48
	40	33.4	20.8	38.8	24	44.4	27.6	53.6	33.2	58.2	36	67	41.4	80.2	49.8
	45	29.2	21.4	33.8	24.8	38.8	28.4	46.8	34.2	50.8	37.2	58.4	42.8	70.2	51.4
-30	35	28.6	17.6	33.2	20.4	38.2	23.4	45.8	28.2	49.8	30.6	57.4	35.2	68.8	42.2
	40	25.2	18	29.2	20.8	33.4	24	40.2	28.8	43.8	31.4	50.2	36	60.4	43.2
	45	21.6	18.4	25	21.4	28.8	24.6	34.6	29.6	37.6	32	43.2	36.8	51.8	44.2
-35	35	21.4	15	24.8	17.4	28.6	20	34.4	24	37.4	26.2	42.8	30.2	51.4	36.2
	40	18.6	15.2	21.6	17.6	24.8	20.2	29.8	24.4	32.4	26.6	37.2	30.4	44.6	36.6
	45	15.6	15.4	18.2	17.8	20.8	20.4	25	24.6	27.2	26.8	31.4	30.8	37.6	37
-40	35	16	12.4	18.6	14.4	21.2	16.6	25.6	20	27.8	21.6	32	25	38.4	29.8
	40	13.8	12.4	16	14.4	18.2	16.4	22	19.8	23.8	21.6	27.4	24.8	33	29.8
	45	11.4	12.4	13.2	14.2	15.2	16.4	18.4	19.8	20	21.4	22.8	24.6	27.4	29.6

Notes: 1. Q for refrigeration capacity (kW), and P for shaft power(kW);
2. R404A is similar to R507A in values, so please refer to that of R507A for parameters of the products;
3. The above is for some of the compressor units' performance parameters. For more information, please contact us;
4. For compressor condensing units, please refer to "Compressor Unit Performance Parameters And Graphs";
5. Snowman shall not be responsible for the errors in printing materials, and reserves all rights to change products without advance notification;
6. Should the changes do not result in any changes of the ordered products, the right of changes will be also applied to the ordered products.

SP (L) Series Compressor Unit Performance Parameters (Continued) R507A

Unit Model		N3P4L015E		N3P4L018E		N3P4L022E		N3P4L025E		N3P6L027E		N3P6L030E		N3P6L040E	
Compressor Model		SP4L150E		SP4L180E		SP4L220E		SP4L250E		SP6L270E		SP6L300E		SP6L400E	
Quantity		3													
Power		45		54		66		75		81		90		120	
Evaporating Temperature	Condensing Temperature	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
−10	35	112.8	40.5	130.8	47.1	150	53.7	180.3	64.8	196.2	70.5	225.6	81	270.6	97.2
	40	103.2	42.6	119.7	49.5	137.4	56.7	165.3	68.4	179.7	74.1	206.4	85.2	247.8	102.3
	45	93.6	45	108.6	51.9	124.5	59.7	149.7	71.7	162.9	78	187.2	89.7	224.7	107.7
−15	35	91.2	37.2	105.9	42.9	121.5	49.5	146.1	59.4	159	64.5	182.7	74.1	219	89.1
	40	82.8	39	96.3	45	110.4	51.6	132.6	62.1	144.3	67.8	165.9	77.7	198.9	93.3
	45	74.4	40.8	86.4	47.1	99	54.3	119.1	65.1	129.6	70.8	148.8	81.3	178.5	97.8
−20	35	72.6	33.6	84	39	96.6	44.7	116.1	53.7	126.3	58.5	145.2	67.2	174	80.7
	40	65.1	35.1	75.6	40.5	86.7	46.5	104.4	56.1	113.4	60.9	130.5	70.2	156.6	84
	45	57.9	36.6	67.2	42.3	76.8	48.6	92.4	58.2	100.5	63.3	115.8	72.9	138.9	87.6
−25	35	56.4	30	65.4	34.8	75	39.9	90.3	48	98.1	52.2	112.8	60	135.6	72
	40	50.1	31.2	58.2	36	66.6	41.4	80.4	49.8	87.3	54	100.5	62.1	120.3	74.7
	45	43.8	32.1	50.7	37.2	58.2	42.6	70.2	51.3	76.2	55.8	87.6	64.2	105.3	77.1
−30	35	42.9	26.4	49.8	30.6	57.3	35.1	68.7	42.3	74.7	45.9	86.1	52.8	103.2	63.3
	40	37.8	27	43.8	31.2	50.1	36	60.3	43.2	65.7	47.1	75.3	54	90.6	64.8
	45	32.4	27.6	37.5	32.1	43.2	36.9	51.9	44.4	56.4	48	64.8	55.2	77.7	66.3
−35	35	32.1	22.5	37.2	26.1	42.9	30	51.6	36	56.1	39.3	64.2	45.3	77.1	54.3
	40	27.9	22.8	32.4	26.4	37.2	30.3	44.7	36.6	48.6	39.9	55.8	45.6	66.9	54.9
	45	23.4	23.1	27.3	26.7	31.2	30.6	37.5	36.9	40.8	40.2	47.1	46.2	56.4	55.5
−40	35	24	18.6	27.9	21.6	31.8	24.9	38.4	30	41.7	32.4	48	37.5	57.6	44.7
	40	20.7	18.6	24	21.6	27.3	24.6	33	29.7	35.7	32.4	41.1	37.2	49.5	44.7
	45	17.1	18.6	19.8	21.3	22.8	24.6	27.6	29.7	30	32.1	34.2	36.9	41.1	44.4

Notes: 1. Q for refrigeration capacity (kW), and P for shaft power(kW);
2. R404A is similar to R507A in values, so please refer to that of R507A for parameters of the products;
3. The above is for some of the compressor units' performance parameters. For more information, please contact us;
4. For compressor condensing units, please refer to "Compressor Unit Performance Parameters And Graphs";
5. Snowman shall not be responsible for the errors in printing materials, and reserves all rights to change products without advance notification;
6. Should the changes do not result in any changes of the ordered products, the right of changes will be also applied to the ordered products.

SP (L) Series Compressor Unit Performance Parameters (Continued) R507A

Unit Model		N4P4L015E		N4P4L018E		N4P4L022E		N4P4L025E		N4P6L027E		N4P6L030E		N4P6L040E	
Compressor Model		SP4L150E		SP4L180E		SP4L220E		SP4L250E		SP6L270E		SP6L300E		SP6L400E	
Quantity		4													
Power		60		72		88		100		108		120		160	
Evaporating Temperature	Condensing Temperature	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
−10	35	150.4	54	174.4	62.8	200	71.6	240.4	86.4	261.6	94	300.8	108	360.8	129.6
	40	137.6	56.8	159.6	66	183.2	75.6	220.4	91.2	239.6	98.8	275.2	113.6	330.4	136.4
	45	124.8	60	144.8	69.2	166	79.6	199.6	95.6	217.2	104	249.6	119.6	299.6	143.6
−15	35	121.6	49.6	141.2	57.2	162	66	194.8	79.2	212	86	243.6	98.8	292	118.8
	40	110.4	52	128.4	60	147.2	68.8	176.8	82.8	192.4	90.4	221.2	103.6	265.2	124.4
	45	99.2	54.4	115.2	62.8	132	72.4	158.8	86.8	172.8	94.4	198.4	108.4	238	130.4
−20	35	96.8	44.8	112	52	128.8	59.6	154.8	71.6	168.4	78	193.6	89.6	232	107.6
	40	86.8	46.8	100.8	54	115.6	62	139.2	74.8	151.2	81.2	174	93.6	208.8	112
	45	77.2	48.8	89.6	56.4	102.4	64.8	123.2	77.6	134	84.4	154.4	97.2	185.2	116.8
−25	35	75.2	40	87.2	46.4	100	53.2	120.4	64	130.8	69.6	150.4	80	180.8	96
	40	66.8	41.6	77.6	48	88.8	55.2	107.2	66.4	116.4	72	134	82.8	160.4	99.6
	45	58.4	42.8	67.6	49.6	77.6	56.8	93.6	68.4	101.6	74.4	116.8	85.6	140.4	102.8
−30	35	57.2	35.2	66.4	40.8	76.4	46.8	91.6	56.4	99.6	61.2	114.8	70.4	137.6	84.4
	40	50.4	36	58.4	41.6	66.8	48	80.4	57.6	87.6	62.8	100.4	72	120.8	86.4
	45	43.2	36.8	50	42.8	57.6	49.2	69.2	59.2	75.2	64	86.4	73.6	103.6	88.4
−35	35	42.8	30	49.6	34.8	57.2	40	68.8	48	74.8	52.4	85.6	60.4	102.8	72.4
	40	37.2	30.4	43.2	35.2	49.6	40.4	59.6	48.8	64.8	53.2	74.4	60.8	89.2	73.2
	45	31.2	30.8	36.4	35.6	41.6	40.8	50	49.2	54.4	53.6	62.8	61.6	75.2	74
−40	35	32	24.8	37.2	28.8	42.4	33.2	51.2	40	55.6	43.2	64	50	76.8	59.6
	40	27.6	24.8	32	28.8	36.4	32.8	44	39.6	47.6	43.2	54.8	49.6	66	59.6
	45	22.8	24.8	26.4	28.4	30.4	32.8	36.8	39.6	40	42.8	45.6	49.2	54.8	59.2

Notes: 1. Q for refrigeration capacity (kW), and P for shaft power(kW);
2. R404A is similar to R507A in values, so please refer to that of R507A for parameters of the products;
3. The above is for some of the compressor units' performance parameters. For more information, please contact us;
4. For compressor condensing units, please refer to "Compressor Unit Performance Parameters And Graphs";
5. Snowman shall not be responsible for the errors in printing materials, and reserves all rights to change products without advance notification;
6. Should the changes do not result in any changes of the ordered products, the right of changes will be also applied to the ordered products.

SP(L) Series Piston Compressor Unit Technical Parameters

Unit Model	Compressor Model	Compressor Quantity	Power (HP)	Unit Piping (mm) Discharge Pipe	Suction Pipe	Liquid Pipe	Refrigeration Oil Model	Preliminary Charge Volume (L)	Reservoir Gross Volume (L)	Max Current (A)	Starting Mode	Single Compressor Start Current (A)	Unit Dimensions (mm) L	W	H	Unit Weight (kg)
NP4L006	SP4LF0600	1	6	7/8"	1-1/8"	5/8"	A030	4	40	16	Part-winding	70	1450	750	1200	387
NP4L008	SP4LF0800		8	1-1/8"	1-3/8"					19		88				393
NP4L010	SP4LF1000		10							24		110				398
NP4L012	SP4LF1200		12							27		125				400
NP4L015	SP4L1500		15		1-5/8"	7/8"		5	75	29		146	1450	800	1300	483
NP4L018	SP4L1800		18							33		70				488
NP4L022	SP4L2200		22							39						498
NP4L025	SP4L2500		25		DN50					43		201				525
NP6L027	SP6L2700		27	1-3/8"		1-1/8"		6	90	48			1550	900	1400	542
NP6L030	SP6L3000		30							54		243				548
NP6L040	SP6L4000		40	1-5/8"						75		330				560

Unit Model	Compressor Model	Compressor Quantity	Power (HP)	Unit Piping (mm) Discharge Pipe	Suction Pipe	Liquid Pipe	Refrigeration Oil Model	Preliminary Charge Volume (L)	Reservoir Gross Volume (L)	Max Current (A)	Starting Mode	Single Compressor Start Current (A)	Unit Dimensions (mm) L	W	H	Unit Weight (kg)
N2P4L015	SP4L1500	2	30	DN25	DN65	DN25	A030	16	50	58	Part-winding	146	1900	1300	1800	1266
N2P4L018	SP4L1800		36							66		170				1235
N2P4L022	SP4L2200		44							78						1255
N2P4L025	SP4L2500		50						67	86		201				1310
N2P6L027	SP6L2700		54	ND32	DN80	DN32		18	115	96			2400	1500	2000	1478
N2P6L030	SP6L3000		60							108		243				1491
N2P6L040	SP6L4000		80							150		330				1515

Unit Model	Compressor Model	Compressor Quantity	Power (HP)	Unit Piping (mm) Discharge Pipe	Suction Pipe	Liquid Pipe	Refrigeration Oil Model	Preliminary Charge Volume (L)	Reservoir Gross Volume (L)	Max Current (A)	Starting Mode	Single Compressor Start Current (A)	Unit Dimensions (mm) L	W	H	Unit Weight (kg)
N3P4L015	SP4L1500	3	45	DN32	DN80	1-1/8"	A030	20	115	87	Part-winding	146	2100	1900	1800	1398
N3P4L018	SP4L1800		54							99		170				1411
N3P4L022	SP4L2200		66							117						1526
N3P4L025	SP4L2500		75							129		201				1608
N3P6L027	SP6L2700		81	DN40	DN100	1-3/8"		22	150	144			2100	2000	1800	1648
N3P6L030	SP6L3000		90							162		243				1668
N3P6L040	SP6L4000		120							225		330				1739

Unit Model	Compressor Model	Compressor Quantity	Power (HP)	Unit Piping (mm) Discharge Pipe	Suction Pipe	Liquid Pipe	Refrigeration Oil Model	Preliminary Charge Volume (l)	Reservoir Gross Volume (L)	Max Current (A)	Starting Mode	Single Compressor Start Current (A)	Unit Dimensions (mm) L	W	H	Unit Weight (kg)
N4P4L015	SP4L1500	4	60	DN40	DN100	DN32	A030	30	115	116	Part-winding	146	3000	1600	2000	2127
N4P4L018	SP4L1800		72							132		170				2144
N4P4L022	SP4L2200		88							156						2184
N4P4L025	SP4L2500		100							172		201				2294
N4P6L027	SP6L2700		108	ND50	DN125	DN50		33	150	192			3500	1800	2200	2469
N4P6L030	SP6L3000		120							216		243				2495
N4P6L040	SP6L4000		160							300		330				2544

Notes: 1. The above technical parameters are based on nominal working condition of SP (L) series compressor units: E.T. −23℃, C.T. 40℃, refrigerant R22. If beyond above ranges, please contact us;
2. Power supply 380V/3P/50Hz;
3. Snowman shall not be responsible for the errors in printing materials, and reserves all rights to change products without advance notification;
4. Should the changes do not result in any changes of the ordered products, the right of changes will be also applied to the ordered products.

SP (L) Series Water-cooled Piston Compressor Condensing Unit Technical Parameters

Unit Model	Compressor Model	Compressor Quantity	Power (HP)	Unit Piping (mm) Suction Pipe	Liquid Pipe	Cooling Water Pipe	Refrigeration Oil Model	Preliminary Charge Volume (L)	Reservoir Gross Volume (L)	Max Current (A)	Starting Mode	Single Compressor Start Current (A)	Unit Dimensions (mm) L	W	H	Unit Weight (kg)
WP4L006	SP4LF0600	1	6	1-1/8"	1-5/8"	5/8"	A030	4	6	16	Part-winding	70	1450	750	1200	462
WP4L008	SP4LF0800		8	1-3/8"						19		88				468
WP4L010	SP4LF1000		10							24		110				473
WP4L012	SP4LF1200		12							27		125				475
WP4L015	SP4L1500		15	1-5/8"	1-7/8"	7/8"		5	10	29		146	1450	800	1300	591
WP4L018	SP4L1800		18							33		170				595
WP4L022	SP4L2200		22	DN50						39						605
WP4L025	SP4L2500		25							43		201				633
WP6L027	SP6L2700		27		1-1/8"	DN50		6	12	48			1550	900	1400	655
WP6L030	SP6L3000		30							54		243				661
WP6L040	SP6L4000		40							75		330				673

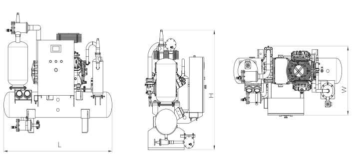
Unit Model	Compressor Model	Compressor Quantity	Power (HP)	Unit Piping (mm) Suction Pipe	Liquid Pipe	Cooling Water Pipe	Refrigeration Oil Model	Preliminary Charge Volume (L)	Reservoir Gross Volume (L)	Max Current (A)	Starting Mode	Single Compressor Start Current (A)	Unit Dimensions (mm) L	W	H	Unit Weight (kg)
W2P4L015	SP4L1500	2	30	DN65	DN25	DN50	A030	16	50	58	Part-winding	146	1900	1300	1800	1511
W2P4L018	SP4L1800		36							66		170				1520
W2P4L022	SP4L2200		44							78						1540
W2P4L025	SP4L2500		50						67	86		201				1595
W2P6L027	SP6L2700		54	ND80	DN32	DN65		18	115	96			2400	1500	2000	1903
W2P6L030	SP6L3000		60							108		243				1916
W2P6L040	SP6L4000		80							150		330				1940

Unit Model	Compressor Model	Compressor Quantity	Power (HP)	Unit Piping (mm) Suction Pipe	Liquid Pipe	Cooling Water Pipe	Refrigeration Oil Model	Preliminary Charge Volume (L)	Reservoir Gross Volume (L)	Max Current (A)	Starting Mode	Single Compressor Start Current (A)	Unit Dimensions (mm) L	W	H	Unit Weight (kg)
W3P4L015	SP4L1500	3	45	DN80	DN32	DN65	A030	23	115	87	Part-winding	146	2400	1600	2000	1757
W3P4L018	SP4L1800		54							99		170				1770
W3P4L022	SP4L2200		66							117						1976
W3P4L025	SP4L2500		75							129		201				2058
W3P6L027	SP6L2700		81	ND100	DN40	DN80		25	150	144			2900	1800	2200	2168
W3P6L030	SP6L3000		90							162		243				2188
W3P6L040	SP6L4000		120							225		330				2319

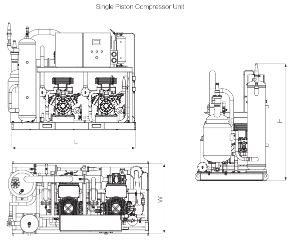
Unit Model	Compressor Model	Compressor Quantity	Power (HP)	Unit Piping (mm) Suction Pipe	Liquid Pipe	Cooling Water Pipe	Refrigerant Oil Model	Preliminary Charge Volume (L)	Reservoir Gross Volume (L)	Max Current (A)	Starting Mode	Single Compressor Start Current (A)	Unit Dimensions (mm) L	W	H	Unit Weight (kg)
W4P4L015	SP4L1500	4	60	DN100	DN32	DN80	A030	30	115	116	Part-winding	146	3000	1600	2000	2627
W4P4L018	SP4L1800		72							132		170				2644
W4P4L022	SP4L2200		88							156						2684
W4P4L025	SP4L2500		100							172		201				2794
W4P6L027	SP6L2700		108	ND125	DN50	DN100		33	150	192			3500	1800	2200	3069
W4P6L030	SP6L3000		120							216		243				3095
W4P6L040	SP6L4000		160							300		330				3144

Notes: 1. The above technical parameters are based on nominal working condition of SP (L) series compressor units: E.T. −23℃, C.T. 40℃, Cooling water inlet/outlet temperature 30/35℃, refrigerant R22. If beyond above ranges, please contact us;
2. Power supply 380V/3P/50Hz;
3. Water pressure drop not higher than 70kPa;
4. Snowman shall not be responsible for the errors in printing materials, and reserves all rights to change products without advance notification;
5. Should the changes do not result in any changes of the ordered products, the right of changes will be also applied to the ordered products.

SP (L) Series Piston Compressor Unit Outline Drawings

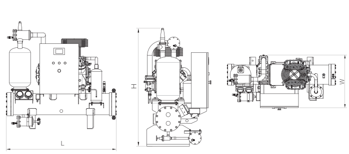


Single Piston Compressor Unit

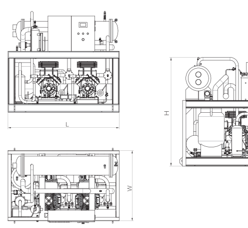


Parallel Piston Compressor Unit

SP (L) Series Water-cooled Piston Compressor Condensing Unit Outline Drawings



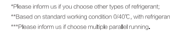
Water-cooled Single Compressor Condensing Unit



Water-cooled Parallel Compressor Condensing Unit

Medium and High Temperature Piston Compressor Unit

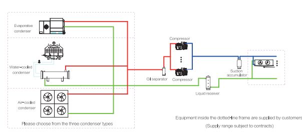
Medium and high temperature piston compressor units adopt RefComp SP series piston compressors, with power ranges from 10 to 200HP, and can reach to 300HP upon request from customers. There are water-cooled condenser, air-cooled condenser and without condenser for option. Same as low temperature compressor unit, medium and high temperature piston compressor unit is the consummation of Snowman's long experience in designing the units. With 15 years of application experience, the compressor units adopt many humanized designs, with evacuation port, drainage port and filling port, which is convenient for maintenance.



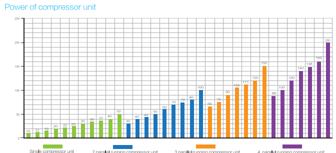
Refrigerant*	R22/R404A/R507A
Refrigeration capacity**	28.3 ~ 483.6kW
Power supply	380V 3P 50Hz
Compressor quantity***	1~6 set

*Please inform us if you choose other types of refrigerant;
**Based on standard working condition 0/40℃, with refrigerant R22;
***Please inform us if choose multiple parallel running.

*Different compressor parts for option.



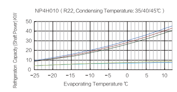
Power of compressor unit

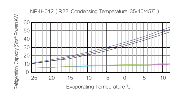


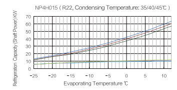
SP (H) Series Single Compressor Unit Performance Parameters and Graphs R22

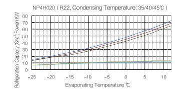
Evaporating Temperature℃	NP4H010 35		40		45		NP4H012 35		40		45	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
−25	9.3	4.2	8.6	4.2	7.8	4.3	11.1	5	10.3	5.1	9.4	5.1
−20	12.4	4.8	11.4	5	10.5	5.1	14.8	5.8	13.7	6	12.6	6.1
−15	16	5.4	14.8	5.7	13.6	5.8	19.1	6.5	17.8	6.8	16.4	7
−10	20.1	6	18.7	6.3	17.3	6.5	24.1	7.2	22.5	7.5	20.8	7.8
−5	24.8	6.4	23.2	6.8	21.6	7.1	29.8	7.7	27.8	8.1	25.9	8.5
0	30.1	6.7	28.3	7.2	26.5	7.7	36.1	8.1	33.9	8.6	31.7	9.2
5	36	7	34	7.6	31.9	8.1	43.2	8.4	40.8	9.1	38.3	9.7
10	42.6	7.2	40.3	7.8	38.1	8.5	51.1	8.6	48.4	9.4	45.7	10.2
12	45.4	7.2	43.1	7.9	40.7	8.6	54.5	8.7	51.7	9.5	48.8	10.3

Evaporating Temperature℃	NP4H015 35		40		45		NP4H020 35		40		45	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
−25	13	5.8	12	5.9	11	6	14.9	6.7	13.7	6.8	12.6	6.8
−20	17.3	6.8	16	7	14.7	7	19.8	7.7	18.3	8	16.8	8.1
−15	22.3	7.6	20.7	7.9	19.1	8.2	25.5	8.7	23.7	9	21.8	9.3
−10	28.1	8.3	26.2	8.8	24.3	9.1	32.1	9.5	29.9	10	27.7	10.4
−5	34.7	9	32.5	9.5	30.2	10	39.7	10.2	37.1	10.8	34.6	11.4
0	42.1	9.4	39.6	10.1	37	10.7	48.2	10.8	45.3	11.5	42.3	12.2
5	50.4	9.8	47.6	10.6	44.7	11.4	57.6	11.2	54.4	12.1	51.1	13
10	59.6	10.1	56.5	11	53.3	11.9	68.1	11.5	64.5	12.5	60.9	13.6
12	63.6	10.1	60.3	11.1	57	12.1	72.7	11.6	68.9	12.7	65.1	13.8









35℃ Refrigeration Capacity — 40℃ Refrigeration Capacity — 45℃ Refrigeration Capacity
35℃ Shaft Power — 40℃ Shaft Power — 45℃ Shaft Power

Notes: 1. Q for refrigeration capacity (kW), and P for shaft power(kW);
2. Snowman shall not be responsible for the errors in printing materials, and reserves all rights to change products without advance notification;
3. Should the changes do not result in any changes of the ordered products, the right of changes will be also applied to the ordered products.

SP (H) Series Single Compressor Unit Performance Parameters and Graphs(Continued) R22

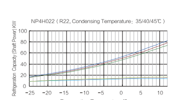
Evaporating Temperature℃	NP4H022 35		40		45		NP4H025 35		40		45	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
−25	17.2	8.4	16	8.8	14.9	9.3	19.9	9.7	18.6	10.3	17.3	10.7
−20	22	9.5	20.5	10.1	19.1	10.6	25.5	11	23.8	11.7	22.2	12.3
−15	28	10.5	26.2	11.2	24.5	11.8	32.4	12.2	30.4	13	28.4	13.7
−10	35.2	11.4	33.1	12.2	31	12.9	40.9	13.2	38.4	14.1	36	15
−5	43.7	12.2	41.2	13	38.8	13.9	50.7	14.1	47.8	15.1	45	16.2
0	53.5	12.8	50.6	13.8	47.7	14.9	62.1	14.9	58.7	16	55.3	17.2
5	64.6	13.4	61.2	14.5	57.9	15.7	74.9	15.5	71	16.8	67.1	18.2
10	77	13.8	73.1	15	69.2	16.4	89.3	16	84.7	17.4	80.3	19
12	82.3	13.9	78.2	15.2	74.1	16.6	95.4	16.2	90.7	17.7	86	19.3

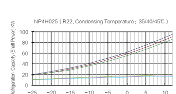
Evaporating Temperature℃	NP4H030 35		40		45		NP4H035 35		40		45	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
−25	22.9	11.1	21.3	11.8	19.8	12.3	27.3	13.3	25.5	14.1	23.7	14.7
−20	29.2	12.6	27.3	13.4	25.4	14.1	34.9	15.1	32.6	16	30.4	16.9
−15	37.2	14	34.9	14.9	32.6	15.7	44.5	16.7	41.7	17.8	38.9	18.8
−10	46.8	15.2	44	16.2	41.3	17.2	56	18.1	52.7	19.3	49.4	20.6
−5	58.2	16.2	54.8	17.3	51.6	18.6	69.5	19.3	65.6	20.7	61.7	22.2
0	71.2	17	67.3	18.4	63.5	19.8	85.1	20.4	80.4	22	75.9	23.6
5	85.9	17.8	81.4	19.2	77	20.8	102.7	21.2	97.3	23	92	24.9
10	102.4	18.3	97.2	20	92.1	21.8	122.4	21.9	116.2	23.9	110.1	26
12	109.5	18.5	104	20.3	98.6	22.1	130.8	22.2	124.3	24.2	117.8	26.5

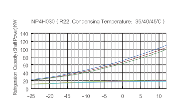
Evaporating Temperature℃	NP6H037 35		40		45		NP6H040 35		40		45	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
−25	29.9	14.5	27.9	15.4	25.9	16.1	34.4	16.7	32	17.7	29.8	18.5
−20	38.2	16.5	35.7	17.5	33.2	18.4	43.9	19	41	20.2	38.2	21.2
−15	48.7	18.3	45.6	19.5	42.6	20.6	55.9	21	52.4	22.4	49	23.7
−10	61.3	19.8	57.6	21.2	54	22.5	70.4	22.8	66.2	24.3	62.1	25.9
−5	76.1	21.2	71.8	22.7	67.5	24.3	87.5	24.3	82.5	26.1	77.6	27.9
0	93.1	22.3	88	24	83	25.8	107.1	25.6	101.2	27.6	95.4	29.7
5	112.4	23.2	106.5	25.2	100.7	27.3	129.2	26.7	122.4	28.9	115.7	31.3
10	133.9	24	127.1	26.2	120.5	28.5	154	27.6	146.1	30.1	138.4	32.8
12	143.2	24.3	136	26.5	129	29	164.6	27.9	156.4	30.5	148.2	33.3

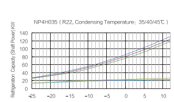
Evaporating Temperature℃	NP6H050 35		40		45	
	Q	P	Q	P	Q	P
−25	41.1	20	38.3	21.1	35.6	22.1
−20	52.5	22.7	49	24.1	45.7	25.3
−15	66.8	25.1	62.6	26.7	58.5	28.3
−10	84.2	27.2	79.1	29.1	74.2	30.9
−5	104.5	29.1	98.6	31.2	92.7	33.3
0	127.9	30.6	120.9	33	114	35.5
5	154.4	31.9	146.3	34.6	138.3	37.4
10	184	33	174.6	35.9	165.4	39.1
12	196.7	33.3	186.8	36.4	177.1	39.8

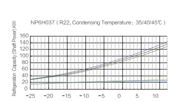
Notes: 1. Q for refrigeration capacity (kW), and P for shaft power(kW);
2. Snowman shall not be responsible for the errors in printing materials, and reserves all rights to change products without advance notification;
3. Should the changes do not result in any changes of the ordered products, the right of changes will be also applied to the ordered products.

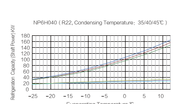


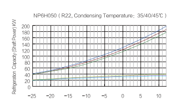












35℃ Refrigeration Capacity — 40℃ Refrigeration Capacity — 45℃ Refrigeration Capacity
35℃ Shaft Power — 40℃ Shaft Power — 45℃ Shaft Power

SP (H) Series Single Compressor Unit Performance Parameters and Graphs(Continued) R507A

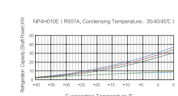
Evaporating Temperature℃	NP4H010E 35		40		45		NP4H012E 35		40		45	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
−25	9.4	5.1	8.3	5	7.2	5	11.2	6.1	9.9	6	8.6	6
−20	12.5	5.8	11.2	5.9	9.7	5.9	15	7	13.4	7.1	11.7	7.1
−15	16.2	6.5	14.6	6.7	12.8	6.8	19.5	7.8	17.5	8	15.4	8.2
−10	20.5	7.1	18.5	7.4	16.4	7.6	24.6	8.5	22.2	8.8	19.7	9.1
−5	25.3	7.6	23	8	20.6	8.3	30.4	9.2	27.7	9.6	24.7	10
0	30.8	8.1	28.2	8.6	25.4	9	37	9.7	33.8	10.3	30.5	10.8
5	36.9	8.4	33.9	9	30.8	9.6	44.3	10.1	40.7	10.8	37	11.5

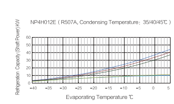
Evaporating Temperature℃	NP4H015E 35		40		45		NP4H020E 35		40		45	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
−25	13.1	7.1	11.6	7	10.1	7	15	8.1	13.2	8	11.5	8
−20	17.6	8.2	15.6	8.2	13.6	8.3	20.1	9.3	17.8	9.4	15.6	9.5
−15	22.7	9.1	20.4	9.3	17.9	9.5	26	10.4	23.3	10.7	20.5	10.9
−10	28.7	10	25.9	10.3	23	10.7	32.8	11.4	29.6	11.8	26.3	12.2
−5	35.5	10.7	32.3	11.2	28.9	11.7	40.6	12.2	36.9	12.8	33	13.4
0	43.1	11.3	39.5	12	35.6	12.6	49.3	12.9	45.1	13.7	40.6	14.4
5	51.7	11.8	47.5	12.7	43.1	13.4	59.1	13.5	54.3	14.5	49.3	15.3

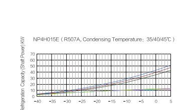
Evaporating Temperature℃	NP4H022E 35		40		45		NP4H025E 35		40		45	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
−25	17.7	9.6	15.8	10	13.9	10.3	20.6	11.2	18.3	11.6	16.1	12
−20	22.8	10.9	20.5	11.3	18.1	11.8	26.4	12.6	23.8	13.1	21	13.6
−15	29.2	12	26.4	12.5	23.6	13.1	33.8	13.9	30.6	14.5	27.4	15.2
−10	36.9	13	33.6	13.7	30.2	14.4	42.8	15	39	15.8	35.1	16.7
−5	45.9	13.8	42.1	14.7	38.1	15.5	53.3	16.1	48.8	17	44.1	18
0	56.3	14.6	51.8	15.6	47.1	16.6	65.3	17	60.1	18.1	54.6	19.3
5	68.1	15.3	62.8	16.5	57.3	17.6	78.9	17.8	72.9	19.1	66.5	20.4

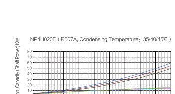
Evaporating Temperature℃	NP4H030E 35		40		45		NP4H035E 35		40		45	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
−25	23.6	12.8	21	13.3	18.5	13.7	28.2	15.3	25.1	15.8	22.1	16.4
−20	30.3	14.4	27.2	15	24.1	15.6	36.2	17.3	32.6	18	28.9	18.7
−15	38.8	15.9	35.1	16.7	31.4	17.4	46.4	19	42	19.9	37.5	20.8
−10	49.1	17.2	44.7	18.2	40.2	19.1	58.6	20.6	53.5	21.7	48.1	22.8
−5	61.1	18.4	56	19.5	50.6	20.7	73	22	66.9	23.4	60.5	24.7
0	74.9	19.5	68.9	20.8	62.6	22.1	89.6	23.3	82.4	24.8	74.9	26.4
5	90.5	20.4	83.6	21.9	76.3	23.4	108.2	24.3	99.9	26.2	91.2	28

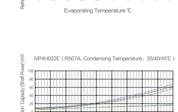
Notes: 1. Q for refrigeration capacity (kW), and P for shaft power(kW);
2. R404A is similar to R507A in values, so please refer to that of R507A for parameters of the products;
3. Snowman shall not be responsible for the errors in printing materials, and reserves all rights to change products without advance notification;
4. Should the changes do not result in any changes of the ordered products, the right of changes will be also applied to the ordered products.

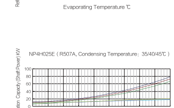


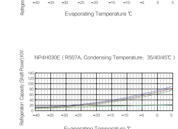


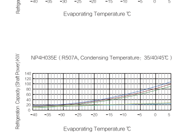












35℃ Refrigeration Capacity — 40℃ Refrigeration Capacity — 45℃ Refrigeration Capacity
35℃ Shaft Power — 40℃ Shaft Power — 45℃ Shaft Power

SP (H) Series Single Compressor Unit Performance Parameters and Graphs(Continued) R507A

Evaporation Temperature/℃	NPB4537E				NPB4540E			
	35		40		35		40	
	Q	P	Q	P	Q	P	Q	P
-35	30.2	16.8	27.5	17.3	34.1	17.2	35.5	19.3
-30	39.7	18.2	35.8	19.7	31.6	20.4	45.8	21.7
-15	57.8	21.8	46	21.8	41.1	22.8	54.3	23.9
-10	64.2	22.5	58.2	23.8	52.5	25	73.8	25.9
-5	79.2	24.1	73.2	25.5	65.2	27	91.9	27.7
0	98	25.5	90.2	27.2	81.9	28.9	112.8	29.3
5	119.4	26.6	109.4	28.4	99.8	30.2	136.1	30.5

Evaporation Temperature/℃	NPB4550E			
	35		40	
	Q	P	Q	P
-35	42.4	23	37.7	23.8
-30	54.8	25.8	48.9	27
-15	69.7	28.8	65.1	29.8
-10	88.7	31	80.4	32.8
-5	109.8	33.1	100.6	35.7
0	134.5	35	123.9	37.3
5	162.7	36.8	150.2	39.3

35℃ Refrigeration Capacity
35℃ Shaft Power
40℃ Refrigeration Capacity
40℃ Shaft Power
45℃ Refrigeration Capacity
45℃ Shaft Power

Notes: 1. Q for refrigeration capacity (kW), and P for shaft power(kW);
2. R404A is similar to R507A in data, so please refer to that of R507A for parameters of the products;
3. Bitzer has shall not be responsible for the errors in printing material, and reserves the rights to change products without advance notification;
4. Should the changes do not meet any changes of the ordered products, the right of changes shall be accepted to the ordered products.

SP (H) Series Compressor Unit Performance Parameters (Continued) R22

Unit Model		NPH4515	NPH4520	NPH4522	NPH4525	NPH4530	NPH4535	NPH4537	NPH4540	NPH4550
Compressor Model		SPH-F1500	SPH-F2000	SPH-G2200	SPH-G2500	SPH-G3000	SPH-G3500	SPH-G3700	SPH-H4000	SPH-H5000
Quantity		2								
Power		30	40	44	50	60	70	74	80	100
Evaporating Temperature	Condensing Temperature	Q P	Q P	Q P	Q P	Q P	Q P	Q P	Q P	Q P
12	35	127,2 20,2	149,4 23,2	164,0 27,8	190,8 32,4	219 37	261,2 44,4	286,9 49,6	309,2 55,8	383,0 66,8
	40	120,6 22,4	137,8 25,4	156,4 30,4	181,4 35,4	208 41,6	248,8 48,4	272 53	312,4 61	373,2 72,8
	45	114 24,2	130,2 27,6	148,2 33,2	172 39,8	197,2 44,2	235,2 53	258 58	296,4 66,6	354,2 79,8
10	35	119,2 20,2	136,2 23	154 27,8	178,6 32	204,2 39,6	244,2 43,8	267,2 48	308 55,2	368 66
	40	113 22	129 25	146,2 30	169,4 34,8	194,4 40	232,4 47,6	254,2 53,4	292,2 61,2	349,2 71,8
	45	106,6 23,8	121,8 27,2	138,4 32,8	160,8 38	184,2 43,6	220,2 52	241 57	276,8 65,8	330,8 78,2
5	35	100,8 19,8	115,2 22,4	129,2 26,8	149,8 31	171,8 38,6	205,4 42,4	224,8 46,4	259,4 53,4	309,8 63,8
	40	95,2 21,2	108,8 24,2	122,4 29	142 33,6	162,8 38,4	194,8 46	213 50,4	244,8 57,8	292,8 69,2
	45	89,4 22,8	102,2 26	115,6 31,4	134,2 36,4	153 41,8	184 49,8	201,4 54,8	231,4 62,8	276,6 74,8
0	35	84,2 18,8	95,4 21,6	107 25,6	124,2 29,8	142,4 34	170,2 40,8	186,2 44,8	214,4 51,2	256,8 61,2
	40	79,2 20,2	90,6 23	101,2 27,6	117,4 32	134,6 38,6	160,8 44	176 48	202,6 55,2	241,8 66
	45	74 21,4	84,6 24,4	95,4 29,8	110,6 34,4	127 39,6	151,2 47,2	166 51,6	190,8 59,4	228 71
-5	35	69,4 18	79,4 20,4	87,4 24,4	101,4 28,2	116,4 33,4	139 39,6	152,2 43,4	175 48,6	209 58,2
	40	65 19	74,2 21,6	82,4 26	95,6 30,2	109,8 34,8	131,2 41,4	143,4 45,4	165 52,2	197,2 62,4
	45	60,4 20	69,2 22,8	77,4 27,6	90 32,4	103,2 37,2	123,4 44,4	135 48,6	155,2 55,8	185,4 66,8
-10	35	56,2 16,2	64,2 19	70,4 22,8	81,8 26,4	93,6 30,4	112 38,2	122,8 39,6	140,8 45,6	168,4 54,4
	40	52,4 17,6	59,8 20	66,2 24,4	76,6 28,2	88 32,4	105,4 39,6	115,2 42,4	132,4 49,6	158,2 58,2
	45	48,6 18,2	55,4 20,8	62 25,8	72 30	82,8 34,4	98,8 41,2	108 45	124,2 51,8	148,4 61,8
-15	35	44,6 15,2	51 17,4	56 21	64,8 24,4	74,4 28	89 33,4	97,4 36,6	111,8 42	133,8 50,2
	40	41,4 15,8	47,4 18	52,4 22,4	60,8 26	69,8 29,8	83,4 35,6	91,2 39	104,8 44,8	125,2 53,4
	45	38,2 16,4	43,6 18,6	49 23,6	56,8 27,4	65,2 31,4	77,8 37,6	85,2 41,2	98 47,4	117 56,8
-20	35	34,6 13,8	39,6 15,4	44 19	51 22	58,4 25,2	69,6 30,2	76,4 33	87,8 38	105 45,4
	40	32 14	36,6 16	41 20,2	47,6 23,4	54,8 26,8	65,2 32	71,4 35	82 40,4	98 48,2
	45	29,6 14,2	33,6 16,2	38,2 21,2	44,4 24,6	50,8 28,2	60,8 33,8	66,4 36,8	76,4 42,4	91,4 50,8
-25	35	26 11,2	29,8 13,4	34,4 16,8	38,8 19,4	45,8 23,2	54,6 28,6	59,8 29	68,8 33,4	82,2 40
	40	24 11,8	27,4 13,6	32 17,2	37,2 20,6	42,8 23,6	51 28,2	55,8 30,8	64 35,4	76,6 42,2
	45	22 12	25,2 13,6	29,8 18,6	34,8 21,4	39,6 24,6	47,4 29,5	51,8 32,2	59,6 37	71,2 44,2

Notes: 1. Q for refrigeration capacity (kW), and P for shaft power(kW);
2. The above is for some of the compressor units' performance parameters, For more information, please contact us;
3. For compressor condensing units, please refer to "Compressor Unit Performance Parameters And Graphs";
4. Bitzer has shall not be responsible for the errors in printing material, and reserves the rights to change products without advance notification;
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SP (H) Series Compressor Unit Performance Parameters (Continued) R22

Unit Model		NPH4522	NPH4525	NPH4530	NPH4535	NPH4537	NPH4540	NPH4550
Compressor Model		SPH-G2200	SPH-G2500	SPH-G3000	SPH-G3500	SPH-G3700	SPH-H4000	SPH-H5000
Quantity		3						
Power		66	75	90	105	111	120	150
Evaporating Temperature	Condensing Temperature	Q P	Q P	Q P	Q P	Q P	Q P	Q P
12	35	246,9 41,7	289,2 48,9	329,5 59,5	369,4 69,9	405,9 72,9	469,8 83,7	599,1 99,9
	40	234,8 45,9	272,1 53,1	312 64,9	372,2 73,6	408 79,5	469,2 91,5	597,4 109,2
	45	223,3 49,8	258 57,9	295,8 68,3	353,4 79,5	387 87	444,6 99,9	531,2 119,4
10	35	231 41,4	267,9 48	307,2 54,9	367,2 65,7	401,7 72	482 82,8	552 99
	40	219,3 45	254,1 52,2	291,2 60	348,6 71,7	381,3 78,6	438,3 94,3	527,8 107,7
	45	207,8 46,2	240,9 57	276,3 65,4	330,3 78	361,2 85,5	411,2 99,4	496,2 117,3
5	35	199,8 46,2	234,7 46,5	269,7 53,4	306,1 63,6	330,2 69,6	387,6 80,1	463,2 96,7
	40	189,6 43,5	213 50,4	244,2 57,6	291,2 69	310,1 75,6	367,2 89,7	439,2 103,8
	45	179,7 47,1	201,3 54,6	231 62,4	275 74,7	300,3 81,9	347,1 93,9	414,8 113,2
0	35	169,5 39,4	196,3 44,7	213,9 51	255,3 61,2	279,3 66,9	321,3 76,8	383,7 91,8
	40	161,8 41,4	179,1 48	201,2 55,2	241,2 66	264 72	303,6 82,8	362,7 99
	45	145,1 44,7	165,9 51,6	189,6 59,4	227,7 70,8	249 77,4	286,2 89,1	342 106,5
-5	35	131,1 36,5	152,1 42,3	174,6 48,6	208,6 57,9	228,3 63,6	262,8 73,3	313,5 87,3
	40	123,6 39	143,4 45,3	164,4 51,9	196,8 63,1	215,4 68,1	247,8 78,3	295,8 93,6
	45	116,4 41,7	135 48,6	154,8 55,8	185,1 66,8	203,2 72,9	233,8 83,7	279,1 99,9
-10	35	109,6 34,2	127,7 39,6	146,4 46,8	168 54,3	183,9 59,4	211,2 68,4	252,6 81,6
	40	90,3 36,6	119,2 42,3	132 48,6	196,1 57,9	172,8 63,6	198,6 73,5	237,3 87,3
	45	93 38,7	108 45	123,9 51,6	148,2 61,8	162 67,5	186,3 77,7	222,5 93,7
-15	35	84 31,5	97,2 36,6	111,8 42	133,5 50,1	146,1 54,9	167,7 63	200,4 75,3
	40	79,9 33,6	91,2 39	104,7 44,7	125,1 53,4	138,6 58,5	159,2 67,2	187,8 69,1
	45	75,9 35,4	85,2 41,1	97,8 47,1	116,7 56,4	127,8 61,8	147 71,1	175,2 84,9
-20	35	68 28,5	78,3 33	87,6 37,8	104,7 45,3	114,9 49,5	131,7 57	157,2 68,1
	40	61,9 30,3	71,4 35,1	81,9 40,2	97,8 48	107,1 52,5	123 69,5	147 72,3
	45	57,3 31,8	66,9 36,9	76,2 42,3	91,2 50,7	99,8 55,2	114,9 63,5	137,1 75,9
-25	35	51,6 25,2	59,7 29,1	68,7 33,3	81,9 39,9	89,7 43,9	103,2 50,1	123,3 60
	40	48 26,4	55,8 30,9	63,9 35,4	76,5 42,3	83,7 46,2	96 53,1	114,9 63,3
	45	44,7 27,9	51,9 32,1	59,4 36,9	71,1 44,1	77,7 48,3	89,4 55,5	106,8 66,3

Notes: 1. Q for refrigeration capacity (kW), and P for shaft power(kW);
2. The above is for some of the compressor units' performance parameters, For more information, please contact us;
3. For compressor condensing units, please refer to "Compressor Unit Performance Parameters And Graphs";
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SP (H) Series Compressor Unit Performance Parameters (Continued) R22

Unit Model		NAPH4522	NAPH4525	NAPH4530	NAPH4535	NAPH4537	NAPH4540	NAPH4550
Compressor Model		SPH-G2200	SPH-G2500	SPH-G3000	SPH-G3500	SPH-G3700	SPH-H4000	SPH-H5000
Quantity		4						
Power		88	100	120	140	148	160	200
Evaporating Temperature	Condensing Temperature	Q P	Q P	Q P	Q P	Q P	Q P	Q P
12	35	329,2 55,6	381,6 64,8	438 74	523,2 86,6	572,8 97,2	626,4 111,6	798,8 133,2
	40	312,8 60,8	369,2 70,8	416 81,2	497,2 96,8	544 106	625,6 122	747,2 145,6
	45	296,4 66,4	344 77,2	394,4 88,4	471,2 106	516 116	592,8 133,2	708,4 159,2
10	35	308 55,2	357,2 64	409,6 73,2	489,6 87,6	535,6 96	616 110,4	736 132
	40	292,4 60	338,8 69,6	388,4 80	464,8 95,6	508,4 104,8	584,4 120,4	698,4 143,6
	45	277,0 66,0	321,2 76	369,4 87,2	440,4 104	482 114	553,6 131,2	661,2 159,4
5	35	266,4 63,0	308,8 62	343,6 71,2	411,6 84,8	445,6 93,6	519,6 109,8	617,6 127,8
	40	244,8 58	284 67,2	325,6 75,8	389,2 92	426 100,8	489,6 115,6	585,2 136,4
	45	231,0 62,8	268,4 72,8	306 83,2	368 99,6	402,8 109,2	462,8 125,2	553,2 149,0
0	35	214 51,2	248,4 59,6	284,8 68	340,4 81,6	372,4 89,2	428,4 102,4	512,2 120,4
	40	203,4 55,2	234,8 64	269,2 73,2	321,6 88	352 96	404,8 110,4	483,6 132
	45	190,8 59,2	221,2 68,8	254 79,2	303,6 94,4	332 103,2	381,6 119,6	456 142
-5	35	174,8 48,8	202,0 56,4	232,8 64,8	278 77,2	304,4 84,8	350 97,2	418 116,4
	40	164,8 52	191,2 60,4	219,2 69,2	262,4 82,8	287,2 90,8	330 104,4	394,4 124,8
	45	155,2 55,6	180 64,8	206,4 74,4	246,8 88,8	270 97,2	310,4 111,6	370,8 133,2
-10	35	144,8 45,6	169,2 52,8	197,2 60,8	234 72,4	249,2 79,2	291,6 91,2	339,8 108,8
	40	133,2 48,8	159,0 56,4	176 64,8	210,8 77,2	229,4 84,8	264,8 97,2	315,4 116,4
	45	124 51,8	144 60	165,2 69,2	197,6 82,4	216 90	248,4 103,6	296,8 129,8
-15	35	112 42	129,6 48,8	148,8 56	178 68,8	190,8 73,2	223,6 84	267,2 100,4
	40	106,8 44,8	121,6 52	139,6 59,6	166,8 71,2	182,4 78	209,6 89,6	250,4 106,8
	45	98 47,2	113,6 54,8	130,4 62,8	155,6 75,2	170,4 80,4	196 94,8	234 113,2
-20	35	88 38	102 44	118,8 50,4	139,6 60,4	152,8 65	176,8 76	210 90,8
	40	82 40,4	95,2 46,8	109,2 53,6	130,4 64	142,8 70	164 80,8	196 96,4
	45	76,4 42,4	88,8 49,2	101,6 56,4	121,6 67,2	132,8 73,6	152,8 84,8	182,8 101,2
-25	35	68,8 33,6	79,6 38,8	91,2 44,8	108,2 53,2	118,6 58	137,2 68,2	163,4 80
	40	64 35,2	74,4 41,2	85,2 47,2	102 56,4	111,2 61,6	128 70,8	153,2 84,4
	45	59,6 37,2	69,2 43,6	79,2 49,2	94,8 59,6	103,6 64,4	119,2 74	142,4 88,4

Notes: 1. Q for refrigeration capacity (kW), and P for shaft power(kW);
2. The above is for some of the compressor units' performance parameters, For more information, please contact us;
3. For compressor condensing units, please refer to "Compressor Unit Performance Parameters And Graphs";
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