

GREEN COLD CHAIN·PROTECTS FOOD SAFETY



Integrated Commercial Refrigeration Solution



MEDIUM/LOW TEMPERATURE PARALLEL SCREW RACK

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QH/CEN2016S002

Qingdao Haier-Carrier Refrigeration Equipment Co., Ltd.

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Qingdao Haier Carrier Refrigeration Equipment Co., Ltd. was established by Haier Group and Carrier in 2001. After more than ten years of development, it has become a world-class facility. Its products include supermarket display cabinets (more than 1,000 models), compressor rack and condensing units(scroll, reciprocating and screw), and heat exchangers (condenser and air cooler). It can provide customers with integrated refrigeration turnkey solutions. With the support of Carrier's R&D centers in Mainz, Germany and Shanghai China, the company now has many government certified labs, leading products and technologies in the world. The company is committed to provide advanced energy-saving solutions, e.g CO₂ systems, for customer.

In the past ten years, with abundant resources of two parent companies, Haier Carrier has become a world-class facility that owns the ISO9001, ISO14001 certification and the ACE certification of United Technologies (Carrier's parent company). With strong R&D strength, we are able to provide world-class system solutions like D2D hot gas defrosting (Refrigerating defrosting system - China patent), Supermarket cold chain and HVAC system, SPI (Semi Plug-in Integrated system), HybridCO₂OL (carbon dioxide cascade refrigeration technology), and CO₂OLtec (carbon dioxide trans-critical refrigeration technology).

Green Energy Saving and Lower-carbon Environmental Friendly

Carrier/UTC

The world's leader in heating, air-conditioning and refrigeration solutions. Carrier is a part of UTC Climate, Controls & Security, a unit of United Technologies Corp., a leading provider to the aerospace and building systems industries worldwide.

In 2015, UTC global revenue volume is \$56.1 billion.

Haier Group

Since its establishment in 1984, Haier Group has expanded its business from the single production of refrigerators to areas such as household appliance, communication, IT digital products, home furnishing, logistics, finance, real estate and bio-pharmaceutical, becoming a world leading life solution provider.

Committed to building a local brand popular among global consumers, Haier has long been practicing an overseas market strategy of localized research and development, production and marketing, and great results have been achieved. Up to now, Haier has 5 research and development centers, 21 industrial parks, 66 trading companies and users across 100 countries and regions.

In 2015, Haier achieved a global turnover of RMB188.7 billion.



When Dr. Willis Carrier invented the first modern air conditioning, he was on the list of 100 most influential people in the 20th century.





















In 1877, Mr. Carl von Linde patented the technology of cold storage, creating its application in scientific research, industry and commerce, and domestic use.



Certification: GCCA (General Product Certification of Credit Alliance), EEL (Energy Efficiency Label), SAA (Standards Association of Australian) /MEPS (Minimum Energy Performance Standards), UL (Underwriter Laboratories) / NSF (National Sanitation Foundation)

Innovation Roadmap

<p>1877</p>  <p>Mr Carl von Linde patented the first refrigerating machine, which was the first step toward modern refrigeration</p>	<p>1883</p>  <p>The first Linde refrigerating machine improved from the prototype in 1873 was assembled and put into practice at a brewery in Trieste (Italy) in 1877</p>	<p>1902</p>  <p>The refrigerating machine from Linde for Wiesbaden abattoir</p>	<p>1915</p>  <p>Mr Willis Carrier invented modern air conditioning</p>	<p>1920</p>  <p>Seven young engineers established Carrier company with investment of 32,600 dollars, which was the first independent company focusing on new arts and technology of air conditioning</p>	<p>1920</p>  <p>The Machinery Factory purchased by Linde in Cologne in 1920</p>
<p>1922</p>  <p>The unveiling ceremony of Rivoli Theatre equipped with the world's first Carrier units of 133 ton of refrigeration became the envy of others.</p>	<p>1945</p>  <p>The first trolley bus with Carrier's air conditioning in Atlanta</p>	<p>1950</p>  <p>The refrigerating showcase was assembled in Mainz factory</p>	<p>1950</p>  <p>Linde launched E1 deluxe refrigerating showcase</p>	<p>1952</p>  <p>Carrier company also helped cultivating new retail model-shopping mall, a sheltered courtyard centered building with energy saving and low operating cost</p>	<p>1994</p>  <p>In America, Carrier company stopped producing CFC chilling unit in this year which was 2 years earlier than the requirement stated by Clean Air Act</p>
<p>2002</p>  <p>E5 series was launched and new standard of frozen food display case and its temperature was established</p>	<p>2007</p>  <p>Carrier set up the global research center in Germany</p>	<p>2009</p>  <p>The 100th CO₂OLtec transcritical system was installed in a Aldi Sud store in Germany</p>	<p>2012</p>  <p>The first CO₂OLheat heating supply system was installed in a Edeka store in Germany.</p>	<p>2014</p>  <p>E6, the new generation of Remote cabinet product was launched.</p>	<p>2015</p>  <p>The first CO₂ rack offline in China factory</p>

Haier-Carrier

Integrated Commercial Refrigeration Solution



Product Overview



Product Features

- Unit horse power range: 150~500HP
- Parallel compressor designing, unit cooling capacity regulate range: 7.5%~100%
- PHX economizer designing, high efficiency
- Integrated framework designing, compact structure
- Fully automatic control system, remote control
- Optimum quality supplier for quality assurance

Customer Value

- Wide cooling capacity range for -40°C to 10°C
- High reliability to keep cold room temperature steady
- High efficiency, up to 20% power consumption saving benchmark with no economizer designing.
- User-friendly control, unattended operation, reducing costs for operation staff
- High quality accessories

Wide Application



Medium temperature screw rack

Refrigerant: R22/R404a
Cooling capacity: 213~1342kW
Evaporating temperature: -20°C~+10°C



Low temperature screw rack

Refrigerant: R22/R404a
Refrigerant: 84~815kW(R22) 96~925kW(R404a)
Evaporating temperature: -50°C~+10°C



High temperature cold storage

Room temperature: 0°C~10°C
Capacity: 1000~3500 ton
Stored goods: fruits, vegetables, etc



Medium temperature cold storage

Room temperature: -20°C~0°C
Capacity: 2000~8000 ton
Stored goods: meat, fish, etc



Low temperature cold storage

Room temperature: -40°C~-20°C
Capacity: 2000~8000 ton
Stored goods: seafood, meat, ice cream, etc

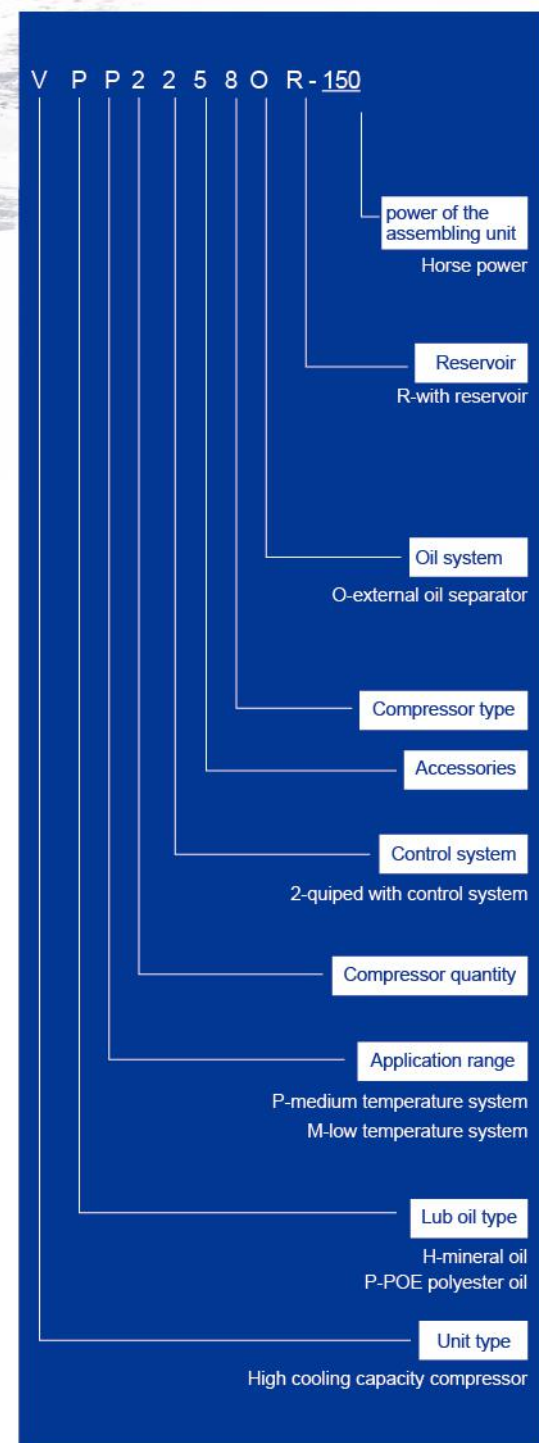


Quick Freeze

Temperature: -28°C~-32°C
Capacity: 0.5 ton per hour~2 ton per hour
Stored goods: seafood, quick freeze food, etc

* The main comparison data in this catalog comes from the contrast with Carrier's last-generation products.

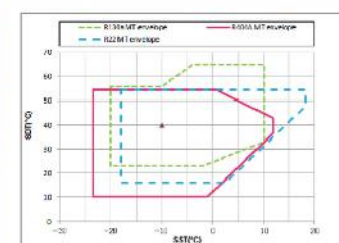
Screw Rack Nomenclature Medium temperature screw rack configuration table



MT Screw Rack Models

No.	Refrigerant	MT Screw Rack Model	HP
1	R404A	VPP2258OR-150	150
2		VPP2258OR-200	200
3		VPP2258OR-250	250
4		VPP3258OR-325	325
5		VPP3258OR-375	375
6		VPP4258OR-450	450
7		VPP4258OR-500	500

MT Screw Rack Operating Envelop

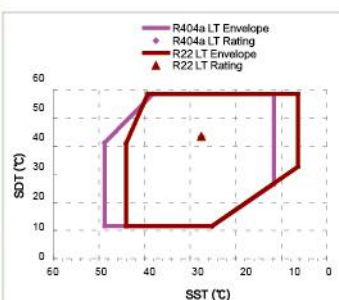


Low temperature screw rack configuration table

LT Screw Rack Models

No.	Refrigerant	LT Screw Rack Model	HP
1	R22	VHM2258OR-150	150
2		VHM2258OR-200	200
3		VHM3258OR-225	225
4		VHM2258OR-250	250
5		VHM4258OR-300	300
6		VHM3258OR-325	325
7		VHM3258OR-375	375
8		VHM4258OR-450	450
9		VHM4258OR-500	500
1	R404a	VPM2258OR-150	150
2		VPM2258OR-200	200
3		VPM3258OR-225	225
4		VPM2258OR-250	250
5		VPM4258OR-300	300
6		VPM3258OR-325	325
7		VPM3258OR-375	375
8		VPM4258OR-450	450
9		VPM4258OR-500	500

LT Screw Rack Operating Envelop



Medium temperature screw rack specifications (R22, 404a)

Refrigerant: R22, SDT: 15°C, SH: 10K, SBC: 0K, unit of capacity and power: KW

serial number	HP	Evaporating temperature: -20°C			Evaporating temperature: -15°C			Evaporating temperature: -10°C			Evaporating temperature: -5°C			Evaporating temperature: 0°C			Evaporating temperature: 5°C		
		Refrigerating capacity	Power	Cop	Refrigerating capacity	Power	Cop	Refrigerating capacity	Power	Cop	Refrigerating capacity	Power	Cop	Refrigerating capacity	Power	Cop	Refrigerating capacity	Power	Cop
1	150	234.84	82.05	3.78	298.30	62.76	4.75	---	---	---	---	---	---	---	---	---	---	---	---
2	225	377.68	89.61	4.24	474.32	91.65	5.19	---	---	---	---	---	---	---	---	---	---	---	---
3	300	520.53	117.16	4.44	650.34	120.54	5.40	---	---	---	---	---	---	---	---	---	---	---	---
4	375	637.94	148.19	4.32	799.49	151.92	5.28	---	---	---	---	---	---	---	---	---	---	---	---
5	450	780.79	175.74	4.44	975.50	180.81	5.40	---	---	---	---	---	---	---	---	---	---	---	---
6	525	898.21	206.77	4.36	1124.65	212.19	5.31	---	---	---	---	---	---	---	---	---	---	---	---
7	600	1041.05	234.32	4.44	1300.67	241.08	5.40	---	---	---	---	---	---	---	---	---	---	---	---

Refrigerant: R22, SDT: 20°C, SH: 10K, SBC: 0K, unit of capacity and power: KW

serial number	HP	Evaporating temperature: -20°C			Evaporating temperature: -15°C			Evaporating temperature: -10°C			Evaporating temperature: -5°C			Evaporating temperature: 0°C			Evaporating temperature: 5°C		
		Refrigerating capacity	Power	Cop	Refrigerating capacity	Power	Cop	Refrigerating capacity	Power	Cop	Refrigerating capacity	Power	Cop	Refrigerating capacity	Power	Cop	Refrigerating capacity	Power	Cop
1	150	227.43	67.36	3.38	285.53	69.09	4.13	350.06	70.14	4.99	---	---	---	---	---	---	---	---	---
2	225	366.97	96.84	3.82	455.71	99.95	4.58	554.54	101.94	5.46	---	---	---	---	---	---	---	---	---
3	300	506.50	125.93	4.02	625.89	130.81	4.78	759.03	133.74	5.68	---	---	---	---	---	---	---	---	---
4	375	620.22	159.61	3.90	768.65	165.36	4.66	934.06	168.81	5.55	---	---	---	---	---	---	---	---	---
5	450	759.76	188.89	4.02	938.83	196.22	4.78	1138.54	200.61	5.68	---	---	---	---	---	---	---	---	---
6	525	873.47	222.57	3.94	1081.60	230.76	4.70	1313.57	235.68	5.58	---	---	---	---	---	---	---	---	---
7	600	994.29	270.01	3.65	1202.16	282.66	4.25	1447.44	293.19	4.94	---	---	---	---	---	---	---	---	---

Refrigerant: R22, SDT: 25°C, SH: 10K, SBC: 0K, unit of capacity and power: KW

serial number	HP	Evaporating temperature: -20°C			Evaporating temperature: -15°C			Evaporating temperature: -10°C			Evaporating temperature: -5°C			Evaporating temperature: 0°C			Evaporating temperature: 5°C		
		Refrigerating capacity	Power	Cop	Refrigerating capacity	Power	Cop	Refrigerating capacity	Power	Cop	Refrigerating capacity	Power	Cop	Refrigerating capacity	Power	Cop	Refrigerating capacity	Power	Cop
1	150	220.11	72.54	3.03	272.80	75.14	3.63	331.95	77.38	4.29	397.49	78.72	5.05	467.78	77.67	6.02	---	---	---
2	225	356.12	103.77	3.46	436.94	108.23	4.06	527.83	111.99	4.73	628.55	113.84	5.54	733.57	110.85	6.65	---	---	---
3	300	492.14	135.01	3.65	601.08	141.33	4.25	723.72	146.59	4.94	859.62	148.95	5.77	999.37	144.03	6.94	---	---	---
4	375	602.20	171.28	3.53	737.48	178.90	4.14	889.69	185.28	4.82	1058.37	188.31	5.64	1233.26	182.86	6.76	---	---	---
5	450	738.21	202.51	3.65	901.62	211.99	4.25	1085.58	219.89	4.94	1289.43	223.43	5.77	1493.05	216.05	6.94	---	---	---
6	525	848.27	238.78	3.57	1038.02	249.56	4.17	1251.55	258.58	4.85	1488.18	262.79	5.67	1732.94	254.88	6.81	---	---	---
7	600	984.29	270.01	3.65	1202.16	282.66	4.25	1447.44	293.19	4.94	1719.24	297.90	5.77	1993.73	288.06	6.94	---	---	---

Refrigerant: R22, SDT: 30°C, SH: 10K, SBC: 0K, unit of capacity and power: KW

serial number	HP	Evaporating temperature: -20°C			Evaporating temperature: -15°C			Evaporating temperature: -10°C			Evaporating temperature: -5°C			Evaporating temperature: 0°C			Evaporating temperature: 5°C		
		Refrigerating capacity	Power	Cop	Refrigerating capacity	Power	Cop	Refrigerating capacity	Power	Cop	Refrigerating capacity	Power	Cop	Refrigerating capacity	Power	Cop	Refrigerating capacity	Power	Cop
1	150	212.78	78.07	2.73	260.20	81.30	3.20	314.02	84.30	3.72	373.99	86.92	4.30	439.99	88.70	4.96	508.23	88.54	5.74
2	225	345.05	111.46	3.12	418.08	116.74	3.60	501.00	121.68	4.14	593.57	125.83	4.74	695.54	127.61	5.47	796.53	119.99	6.71
3	300	477.33	144.85	3.30	575.95	152.17	3.78	687.97	159.07	4.33	813.15	164.75	4.94	951.09	166.52	5.71	1084.84	151.45	6.76
4	375	583.71	183.88	3.19	706.05	192.82	3.68	844.98	201.22	4.21	1000.14	208.21	4.82	1171.09	210.87	5.57	1338.95	195.71	6.89
5	450	715.99	217.27	3.30	863.93	228.26	3.78	1031.96	238.60	4.33	1219.72	247.13	4.94	1426.64	249.78	5.71	1627.26	227.17	7.16
6	525	822.38	256.30	3.22	994.03	268.91	3.71	1188.97	280.75	4.25	1408.72	290.59	4.85	1648.62	294.13	5.61	1881.37	271.44	6.97
7	600	954.65	289.69	3.30	1151.90	304.35	3.78	1375.95	318.14	4.33	1626.30	329.50	4.94	1902.19	333.03	5.71	2169.68	302.89	7.16

Refrigerant: R404A, SDT: 15°C, SH: 10K, SBC: 0K, unit of capacity and power: KW

serial number	HP	Evaporating temperature: -20°C			Evaporating temperature: -15°C			Evaporating temperature: -10°C			Evaporating temperature: -5°C			Evaporating temperature: 0°C			Evaporating temperature: 5°C		
		Refrigerating capacity	Power	Cop	Refrigerating capacity	Power	Cop	Refrigerating capacity	Power	Cop	Refrigerating capacity	Power	Cop	Refrigerating capacity	Power	Cop	Refrigerating capacity	Power	Cop
1	150	245.18	65.66	3.70	301.82	70.86	4.20	---	---	---	---	---	---	---	---	---	---	---	---
2	225	387.32	99.21	3.91	473.51	108.02	4.34	---	---	---	---	---	---	---	---	---	---	---	---
3	300	529.46	132.76	4.00	645.20	145.18	4.40	---	---	---	---	---	---	---	---	---	---	---	---
4	375	652.05	165.59	3.94	796.11	180.61	4.36	---	---	---	---	---	---	---	---	---	---	---	---
5	450	794.19	199.14	4.00	967.80	217.77	4.40	---	---	---	---	---	---	---	---	---	---	---	---
6	525	916.78	231.97	3.96	1118.71	253.20	4.37	---	---	---	---	---	---	---	---	---	---	---	---
7	600	1058.92	265.52	4.00	1290.40	290.36	4.40	---	---	---	---	---	---	---	---	---	---	---	---

Refrigerant: R404A, SDT: 20°C, SH: 10K, SBC: 0K, unit of capacity and power: KW

serial number	HP	Evaporating temperature: -20°C			Evaporating temperature: -15°C			Evaporating temperature: -10°C			Evaporating temperature: -5°C			Evaporating temperature: 0°C			Evaporating temperature: 5°C		
		Refrigerating capacity	Power	Cop	Refrigerating capacity	Power	Cop	Refrigerating capacity	Power	Cop	Refrigerating capacity	Power	Cop	Refrigerating capacity	Power	Cop	Refrigerating capacity	Power	Cop
1	150	231.98	68.72	3.30	285.60	73.80	3.80	348.56	79.50	4.30	---	---	---	---	---	---	---	---	---
2	225	367.71	102.96	3.57	449.70	111.47	4.00	545.77	121.13	4.50	---	---	---	---	---	---	---	---	---
3	300	503.44	137.24	3.70	613.80	149.14	4.10	742.98	162.76	4.60	---	---	---	---	---	---	---	---	---
4	375	619.43	171.60	3.63	756.60	186.04	4.04	917.26	202.51	4.54	---	---	---	---	---	---	---	---	---
5	450	755.16	205.86	3.70	920.70	223.71	4.10	1114.47	244.14	4.60	---	---	---	---	---	---	---	---	---
6	525	871.15	240.22	3.65	1063.50	260.61	4.06	1288.75	283.89										

Low temperature screw rack specifications (R404a)

Refrigerant: R404a, condensing temperature: 30 °C, degree of superheat: 28K, degree of subcooling: 0K, refrigerating capacity and power unit: kW

serial number	HP	Evaporating temperature:-20 °C			Evaporating temperature:-25 °C			Evaporating temperature:-30 °C			Evaporating temperature:-35 °C			Evaporating temperature:-40 °C		
		Refrigerating capacity	Power	COP	Refrigerating capacity	Power	COP	Refrigerating capacity	Power	COP	Refrigerating capacity	Power	COP	Refrigerating capacity	Power	COP
1	150	251.68	95.04	2.65	212.80	90.04	2.36	177.08	85.10	2.08	144.92	80.34	1.80	117.14	75.90	1.54
2	200	357.11	127.75	2.80	299.98	121.60	2.47	249.37	115.86	2.15	202.96	110.08	1.84	162.61	104.58	1.55
3	225	377.52	142.56	2.65	319.20	135.06	2.36	265.62	127.65	2.08	217.38	120.51	1.80	175.71	113.85	1.54
4	250	462.54	160.46	2.88	387.16	153.16	2.53	321.66	146.62	2.19	261.00	139.82	1.87	208.08	133.26	1.56
5	300	503.36	190.08	2.65	425.60	180.08	2.36	354.16	170.20	2.08	289.84	160.68	1.80	234.28	151.80	1.54
6	325	588.38	207.98	2.83	493.56	198.18	2.49	410.20	189.17	2.17	333.46	179.99	1.85	266.65	171.21	1.56
7	375	693.81	240.69	2.88	580.74	229.74	2.53	482.49	219.93	2.19	391.50	209.73	1.87	312.12	199.89	1.56
8	450	819.65	288.21	2.84	687.14	274.76	2.50	571.03	262.48	2.18	463.96	249.90	1.86	370.69	237.84	1.56
9	500	925.08	320.92	2.88	774.32	306.32	2.53	643.32	293.24	2.19	522.00	279.64	1.87	416.16	266.52	1.56

Refrigerant: R404a, condensing temperature: 35 °C, degree of superheat: 28K, degree of subcooling: 0K, refrigerating capacity and power unit: kW

serial number	HP	Evaporating temperature:-20 °C			Evaporating temperature:-25 °C			Evaporating temperature:-30 °C			Evaporating temperature:-35 °C			Evaporating temperature:-40 °C		
		Refrigerating capacity	Power	COP	Refrigerating capacity	Power	COP	Refrigerating capacity	Power	COP	Refrigerating capacity	Power	COP	Refrigerating capacity	Power	COP
1	150	241.06	103.82	2.32	203.40	98.48	2.07	168.66	93.20	1.81	138.22	88.30	1.57	110.86	83.44	1.33
2	200	342.82	139.81	2.45	287.96	133.40	2.16	238.03	127.04	1.87	193.27	120.98	1.60	154.26	115.20	1.34
3	225	361.59	155.73	2.32	305.10	147.72	2.07	252.99	139.80	1.81	207.33	132.45	1.57	166.29	125.16	1.33
4	250	444.58	175.80	2.53	372.52	168.32	2.21	307.40	160.88	1.91	248.32	153.66	1.62	197.66	146.96	1.34
5	300	482.12	207.64	2.32	406.80	196.96	2.07	337.32	186.40	1.81	276.44	176.60	1.57	221.72	166.88	1.33
6	325	565.11	227.71	2.48	474.22	217.56	2.18	391.73	207.48	1.89	317.43	197.81	1.60	253.09	188.68	1.34
7	375	666.87	263.70	2.53	558.78	252.48	2.21	461.10	241.32	1.91	372.48	230.49	1.62	296.49	220.44	1.34
8	450	787.40	315.61	2.49	660.48	301.72	2.19	545.43	287.92	1.89	441.59	274.64	1.61	351.92	262.16	1.34
9	500	889.16	351.60	2.53	745.04	336.64	2.21	614.80	321.76	1.91	496.64	307.32	1.62	395.32	293.92	1.34

Refrigerant: R404a, condensing temperature: 40 °C, degree of superheat: 28K, degree of subcooling: 0K, refrigerating capacity and power unit: kW

serial number	HP	Evaporating temperature:-20 °C			Evaporating temperature:-25 °C			Evaporating temperature:-30 °C			Evaporating temperature:-35 °C			Evaporating temperature:-40 °C		
		Refrigerating capacity	Power	COP	Refrigerating capacity	Power	COP	Refrigerating capacity	Power	COP	Refrigerating capacity	Power	COP	Refrigerating capacity	Power	COP
1	150	229.72	113.64	2.02	193.28	107.86	1.79	159.64	102.32	1.56	130.32	97.08	1.34	104.12	92.04	1.13
2	200	327.67	153.28	2.14	274.37	146.37	1.87	225.68	139.59	1.62	182.54	133.12	1.37	144.76	127.02	1.14
3	225	344.58	170.46	2.02	289.92	161.79	1.79	239.46	153.48	1.56	195.48	145.62	1.34	156.18	138.06	1.13
4	250	425.62	192.92	2.21	355.46	184.88	1.92	291.72	176.86	1.65	234.76	169.16	1.39	185.40	162.00	1.14
5	300	459.44	227.28	2.02	386.56	215.72	1.79	319.28	204.64	1.56	260.64	194.16	1.34	208.24	184.08	1.13
6	325	540.48	249.74	2.16	452.10	238.81	1.89	371.54	228.02	1.63	299.92	217.70	1.38	237.46	208.02	1.14
7	375	638.43	289.38	2.21	533.19	277.32	1.92	437.58	265.29	1.65	352.14	253.74	1.39	278.10	243.00	1.14
8	450	753.29	346.20	2.18	629.83	331.25	1.90	517.40	316.45	1.64	417.30	302.28	1.38	330.16	289.02	1.14
9	500	851.24	385.84	2.21	710.92	369.76	1.92	583.44	353.72	1.65	469.52	338.32	1.39	370.80	324.00	1.14

Refrigerant: R404a, condensing temperature:45 °C, degree of superheat: 28K, degree of subcooling: 0K, refrigerating capacity and power unit: kW

serial number	HP	Evaporating temperature:-20 °C			Evaporating temperature:-25 °C			Evaporating temperature:-30 °C			Evaporating temperature:-35 °C			Evaporating temperature:-40 °C		
		Refrigerating capacity	Power	COP	Refrigerating capacity	Power	COP	Refrigerating capacity	Power	COP	Refrigerating capacity	Power	COP	Refrigerating capacity	Power	COP
1	150	217.46	124.68	1.74	182.48	118.56	1.54	149.92	112.52	1.33	121.40	106.94	1.14	95.76	101.34	0.94
2	200	311.60	168.39	1.85	259.97	160.94	1.62	212.68	153.63	1.38	170.66	146.69	1.16	133.70	140.07	0.95
3	225	326.19	187.02	1.74	273.72	177.84	1.54	224.88	168.78	1.33	182.10	160.41	1.14	143.64	152.01	0.94
4	250	405.74	212.10	1.91	337.46	203.32	1.66	275.44	194.74	1.41	219.92	186.44	1.18	171.64	178.80	0.96
5	300	434.92	249.36	1.74	364.96	237.12	1.54	299.84	225.04	1.33	242.80	213.88	1.14	191.52	202.68	0.94
6	325	514.47	274.44	1.87	428.70	262.60	1.63	350.40	251.00	1.40	280.62	239.91	1.17	219.52	229.47	0.96
7	375	608.61	318.15	1.91	506.19	304.98	1.66	413.16	292.11	1.41	329.88	279.66	1.18	257.46	268.20	0.96
8	450	717.34	380.49	1.89	597.43	364.26	1.64	488.12	348.37	1.40	390.58	333.13	1.17	305.34	318.87	0.96
9	500	811.48	424.20	1.91	674.92	406.64	1.66	550.88	389.48	1.41	439.84	372.88	1.18	343.28	357.60	0.96

Low temperature screw rack specifications (R22)

Refrigerant: R22, condensing temperature:30 °C, degree of superheat: 28K, degree of subcooling: 0K, refrigerating capacity and power unit: kW

serial number	HP	Evaporating temperature:-20 °C			Evaporating temperature:-25 °C			Evaporating temperature:-30 °C			Evaporating temperature:-35 °C			Evaporating temperature:-40 °C		
		Refrigerating capacity	Power	COP	Refrigerating capacity	Power	COP	Refrigerating capacity	Power	COP	Refrigerating capacity	Power	COP	Refrigerating capacity	Power	COP
1	150	221	79	2.78	186	75	2.48	155	71	2.18	127	67	1.89	102	63	1.62
2	200	314	107	2.95	264	101	2.60	219	97	2.27	178	92	1.94	143	87	1.64
3	225	331	119	2.78	280	113	2.48	233	107	2.18	190	101	1.89	154	95	1.62
4	250	407	134	3.04	341	128	2.67	283	122	2.32	230	116	1.97	183	111	1.65
5	300	442	159	2.78	373	151	2.48	310	142	2.18	254	134	1.89	205	127	1.62
6	325	518	173	2.98	434	165	2.63	361	158	2.29	293	150	1.95	235	143	1.64
7	375	611	201	3.04	511	191	2.67	425	183	2.32	345	175	1.97	275	167	1.65
8	450	721	240	3.00	604	229	2.64	502	219	2.30	408	208	1.96	326	199	1.64
9	500	815	268	3.04	682	255	2.67	566	244	2.32	459	233	1.97	367	223	1.65

Refrigerant: R22, condensing temperature:30 °C, degree of superheat: 28K, degree of subcooling: 0K, refrigerating capacity and power unit: kW

serial number	HP	Evaporating temperature:-20 °C			Evaporating temperature:-25 °C			Evaporating temperature:-30 °C			Evaporating temperature:-35 °C			Evaporating temperature:-40 °C		
		Refrigerating capacity	Power	COP	Refrigerating capacity	Power	COP	Refrigerating capacity	Power	COP	Refrigerating capacity	Power	COP	Refrigerating capacity	Power	COP
1	150	211	87	2.44	178	87	2.04	148	78	1.90	121	74	1.64	97	70	1.40
2	200	301	117	2.58	253	114	2.22	209	106	1.97	170	101	1.68	136	96	1.41
3	225	317	130	2.44	267	131	2.04	222	117	1.90	182	110	1.64	145	104	1.40
4	250	391	147	2.67	328	140	2.34	270	134	2.02	219	128	1.70	174	123	1.42
5	300	423	173	2.44	357	175	2.04	296	156	1.90	242	147	1.64	194	139	1.40
6	325	497	190	2.62	417	184	2.27	344	173	1.99	279	165	1.69	223	158	1.42
7	375	587	220	2.67	492	210	2.34	406	201	2.02	328	193	1.70	262	184	1.42
8	450	693	263	2.63	581	254	2.29	479	240	2.00	388	229	1.69	310	219	1.42
9	500	783	293	2.67	656	280	2.34	541	268	2.02	437	257	1.70	262	184	1.42

Refrigerant: R22, condensing temperature:30 °C, degree of superheat: 28K, degree of subcooling: 0K, refrigerating capacity and power unit: kW

serial number	HP	Evaporating temperature:-20 °C			Evaporating temperature:-25 °C			Evaporating temperature:-30 °C			Evaporating temperature:-35 °C			Evaporating temperature:-40 °C		
		Refrigerating capacity	Power	COP	Refrigerating capacity	Power	COP	Refrigerating capacity	Power	COP	Refrigerating capacity	Power	COP	Refrigerating capacity	Power	COP
1	150	201	95	2.12	169	89	1.90	139	85	1.63	114	82	1.40	90	76	1.18
2	200	288	128	2.24	241	122	1.98	198	117	1.70	160	112	1.43	126	106	1.19
3	225	302	142	2.12	253	133	1.90	209	128	1.63	171	122	1.40	136	115	1.18
4	250	375	162	2.32	313	154	2.03	257	148	1.74	206	142	1.45	161	135	1.20
5	300	402	189	2.12	337	178	1.90	278	171							