合作·共赢·创新·发展

Cooperation, Win-Win, Innovation, and Development

บริษัท ซีทีเอ็ม เมเนจ อินเตอร์เทรด จำกัด
CTM MANAGE INTERTRADE CO., LTD.



产品手册
Product Catalog

บริษัท ซีทีเอ็ม เมเนจ อินเตอร์เทรด จำกัด
CTM MANAGE INTERTRADE CO., LTD.

096-989-7535 (คุณมิ้นท์) | 062-586-8978 (ฝ่ายบริการ)

LINE: @ctmmanageinter **WeChat:** Ctmmanage89

E-mail: contact@ctmmanageinter.com

https://ctmmanageinter.com/

免责声明
技术数据在印刷前已经校对过，印刷之后有再更新的可能。如有对某一参数确认的需求，请联系 CTM MANAGE INTERTRADE CO., LTD.。本公司对参数中可能存在的差错概不承担任何责任，并保留自行改变其产品而不预先通知的权利。

Disclaimer
Our technical data have been checked before printing, but it is possible for data to be updated after printing. If you need to confirm a certain parameter, please contact CTM MANAGE INTERTRADE CO., LTD. CTM MANAGE INTERTRADE CO., LTD. will not take any responsibilities for any possible errors in the parameters and reserve the right to change its products without prior notice.

科技创新 引领未来

Technological innovation, leads the future










Technology is the foundation of the company.We constantly attract high, precise and top talents to research refrigeration systems.And establish technical service discussion platform with domestic and foreign refrigeration industry technicians

We have the courage to innovate and make unprecedented efforts to continuously improve our professionalism.

บริษัท ซีทีเอ็ม เมเนจ อินเตอร์เทรด จำกัด
CTM MANAGE INTERTRADE CO., LTD.

Enterprise Introduction

CTM MANAGE INTERTRADE CO., LTD. 是一家集生产、制造、销售为一体、专业生产制冷压缩机、冷凝机组、制冷机、恒温机、干燥机等产品的企业。拥有15年制冷行业经验，品种齐全，交货及时，质量上乘，价格有竞争力。
我们已出口到欧盟、大洋洲、东南亚、中东、非洲、北美等98个国家和地区。我们始终坚持“质量第一”的宗旨，在海外客户里拥有良好的口碑。

CTM MANAGE INTERTRADE CO., LTD. is a professional enterprise that integrates production, manufacturing, and sales of refrigeration compressors, condensing units, refrigerators, thermostats, dryers, and other products. With 15 years of experience in the refrigeration industry, we have a complete range of products, timely delivery, superior quality, and competitive price.
We have exported to 98 countries and regions including the European Union, Oceania, Southeast Asia, the Middle East, Africa, and North America. We always adhere to the principle of "quality first" and have a good reputation among overseas customers.

Collaborative brands

EMERSON Climate Technologies
Danfoss
AIR 布里斯托 BESTCOPCO
GMCC
MITSUBISHI MOTORS
LG
HITACHI
Tecumseh
DAIKIN
Panasonic
Bitzer
TOSHIBA
SIKELAN
cubigel
embraco
Carrier
SANYO
INVOTECH
SECOP
SAMSUNG



压缩机制作工艺流程


Shell welding
Terminal welding
Iron-cover welding
Suction pipe welding
Attach small labels
Rotor pressing
Upper balance block
Lower balance block
Crankshaft
Rotor
Oil fork configuration
Bottom bearing assembly
Bottom bearing
Bearing plate
Wear plate
Circlip
Main bearing assembly
Main bearing
DU bearing pressing
Top cover/silencing cover assembly
Top cover
Escape -pipe
Cliver
Silencing cover
Umbrella valve
Clean
Feeding
Stator compression
Overturn
Main bearing pressing
Bottom bearing welding
Overturn
Vortex configuration
Start test
Silencing cover/top cover pressing
Girth welding
Leak test
Laser cleaning
Dusting
Refuel
Running test
Vacuum pumping and nitrogen filling
Label /Packing

目录 DIRECTORY

Copeland Series 04-08

Danfoss Series 09-14

Panasonic Series 15-17

Daikin Series 18

Hitachi Series 18

Bristol Series 19

Panasonic Series 20

LG Series 20

GMCC Series 21

Tecumseh Series 22

Secop Series 23

Bitzer Series 24

Embraco Series 25-26

EMERSON
Climate Technologies

ZR-Series



380-420V; 50Hz, 3 Phase

MODEL	Nominal power HP	Capacity of refrigeration		Input power (W)	Current (A)	COP (W/W)	EER (Btu/Wh)	Displacement (cc | Rev.)	Oil Quantity (L)	N.W. (kg)	Locked rotor current (A)	Sound pressure (dBA)
		(W)	(Btu/h)									
ZR24K3 TFD	2.0	5,900	20,200	1,920	3.5	3.08	10.5	34.0	1.12	25.0	26.0	65.0
ZR26K3 TFD	2.2	6,350	21,700	2,010	3.8	3.17	10.8	36.1	1.12	26.8	26.0	65.0
ZR28K3 TFD	2.3	6,900	23,600	2,150	4.0	3.22	11.0	39.3	1.12	25.4	32.0	65.0
ZR32K3 TFD	2.7	7,750	26,500	2,430	4.4	3.19	10.9	43.4	1.24	26.3	35.0	68.0
ZR34KH TFD	2.8	8,200	28,000	2,480	4.7	3.31	11.3	46.2	1.04	36.3	40.0	68.0
ZR36KH TFD	3.0	8,880	30,300	2,680	4.7	3.31	11.3	49.5	1.12	30.0	40.0	68.0
ZR42KE TFD	3.5	10,250	35,000	3,100	5.5	3.31	11.3	57.2	1.24	28.2	46.0	68.0
ZR48KE TFD	4.0	11,850	40,500	3,520	6.2	3.28	11.5	65.5	1.24	30.0	50.0	68.0
ZR54KC TFD	4.5	13,200	44,880	3,980	7.3	3.31	11.3	73.2	1.95	35.8	61.8	71.0
ZR57KC TFD	4.8	13,900	47,260	4,170	7.8	3.34	11.4	77.2	1.95	36.3	61.8	71.0
ZR61KC TFD	5.1	14,550	49,470	4,430	8.2	3.28	11.2	82.6	1.95	36.1	65.5	71.0
ZR68KC TFD	5.7	16,900	57,500	4,960	8.6	3.40	11.6	93.0	1.77	39.0	74.0	72.0
ZR72KC TFD	6.0	17,700	60,500	5,200	8.9	3.43	11.7	98.1	1.77	38.6	74.0	72.0
ZR81KC TFD	6.8	19,900	68,000	5,810	10.5	3.43	11.7	107.8	1.77	39.0	101.0	72.0
ZR84KC TFD	7.0	20,800	71,000	6,000	11.4	3.46	11.8	113.6	2.51	57.2	100.0	73.0
ZR94KC TFD	7.8	23,300	79,500	6,750	12.5	3.46	11.8	127.2	2.51	57.2	95.0	73.0
ZR108KC TFD	9.0	26,400	90,000	7,550	13.7	3.52	12.0	142.9	3.25	59.9	111.0	74.0
ZR125KC TFD	10.4	31,000	106,000	9,000	15.8	3.46	11.8	167.2	3.25	61.2	118.0	75.0
ZR144KC TFD	12.0	35,000	120,000	10,100	17.6	3.49	11.9	190.9	3.25	61.2	118.0	76.0
ZR160KC TFD	13.3	38,000	130,000	11,300	20.3	3.37	11.5	209.1	3.25	64.9	140.0	79.0
ZR190KC TFD	15.8	45,500	155,000	13,600	25.6	3.34	11.4	249.2	3.25	66.2	174.0	82.0
ZR250KC TWD	20.8	60,000	204,000	17,700	29.6	3.37	11.5	325.2	4.67	139.3	225.0	83.0
ZR310KC TWD	25.8	74,000	253,000	22,000	37.9	3.37	11.5	410.6	6.80	160.1	272.0	85.0
ZR380KC TWD	31.7	92,500	315,000	26,500	45.1	3.49	11.9	502.7	6.30	176.9	310.0	88.0

ZR-Series

220-240V; 50Hz, 1 Phase

MODEL	Nominal power HP	Capacity of refrigeration		Input power (W)	Current (A)	COP (W/W)	EER (Btu/Wh)	Displacement (cc | Rev.)	Oil Quantity (L)	N.W. (kg)	Locked rotor current (A)	Sound pressure (dBA)
		(W)	(Btu/h)									
ZR26KM PFZ	2.2	6,250	21,400	1,970	9.9	3.19	10.9	34.6	0.77	19.6	53.0	63.0
ZR28KM PFZ	2.3	6,750	23,000	2,020	9.2	3.34	11.4	37.2	0.77	19.4	52.9	63.0
ZR30KM PFZ	2.5	7,350	25,000	2,190	10.1	3.34	11.4	40.5	0.77	19.3	52.9	63.0
ZR32KS PFZ	2.7	7,900	27,000	2,410	10.9	3.28	11.2	44.3	0.74	22.1	66.0	68.0
ZR34KH PFJ	2.8	8,200	28,000	2,520	13.6	3.25	11.1	46.2	1.04	30.4	100.0	66.0
ZR36KH PFJ	3.0	8,900	30,300	2,730	13.6	3.25	11.1	49.5	1.24	30.4	100.0	68.0
ZR39KH PFJ	3.3	9,850	33,600	3,000	14.6	3.28	11.2	54.2	1.24	30.4	114.0	68.0
ZR42K3 PFJ	3.5	10,250	35,000	3,150	15.2	3.25	11.1	57.2	1.24	30.4	97.0	68.0
ZR45K3 PFJ	3.8	11,200	38,200	3,380	16.4	3.31	11.3	61.1	1.24	32.2	114.0	68.0
ZR47K3 PFJ	3.9	11,550	39,400	3,460	16.8	3.34	11.4	63.3	1.24	31.3	114.0	68.0
ZR48K3 PFJ	4.0	11,850	40,500	3,630	17.6	3.28	11.2	65.5	1.24	31.3	114.0	68.0
ZR61KC PFZ	5.1	14,950	51,000	4,550	21.7	3.28	11.2	82.6	1.66	42.6	150.0	71.0
ZR68KC PFJ	5.7	16,700	57,000	5,130	24.5	3.25	11.1	93.0	1.83	40.4	150.0	72.0

Remarks: Test standard AHRI: evaporation temperature 7.2℃ , condensation temperature 54.4℃ , subcooling degree 8.3K, superheat 11.1K, ambient temperature 35℃ .

EMERSON
Climate Technologies

ZR-Series



200-230V / 380 / 460V; 60Hz, 3 Phase

MODEL	Nominal power HP	Capacity of refrigeration (W)	Capacity of refrigeration (Btu/h)	Input power (W)	Current (A)	COP (W/W)	EER (Btu/Wh)	Displacement (cc | Rev.)	Oil Quantity (L)	N.W. (kg)	Locked rotor current (A)	Sound pressure (dBA)
ZR34K3 TF5	2.8	9,950	34.000	2,970	9.1	3.34	11.4	46.2	1.24	26.9	77.0	71.0
ZR34K3 TF7				3,200	5.4	3.11	10.6			31.3	39.0	
ZR36K3 TF5	3.0	10,800	36,900	3,250	9.7	3.31	11.3	49.5	1.24	27.3	77.0	71.0
ZR42KE TFD	3.5	12,540	42.800	3,760	5.5	3.34	11.4	57.2	1.24	28.2	53.0	71.0
ZR45KC TF5	3.8	13,500	46.000	4,000	12.1	3.37	11.5	61.1	1.36	28.1	91.0	71.0
ZR47KC TF5	3.9	13,900	47,500	4,130	12.2	3.37	11.5	64.2	1.36	28.1	91.0	71.0
ZR47KC TF7					7.4						54.0	
ZR48KE TFD	4.0	14,400	48.900	4,260	6.3	3.37	11.5	65.5	1.24	30.0	53.0	71.0
ZR48KC TF5	4.0	14,400	49,100	4,270	12.6	3.37	11.5	65.5	1.36	28.1	91.0	71.0
ZR48KC TF7					7.6						54.0	
ZR54KC TFD	4.5	16,100	54.740	4,780	7.4	3.37	11.5	73.2	1.95	35.8	59.6	74.0
ZR54KC TF5					14.8					36.3	124.0	
ZR54KC TF7					8.4					37.2	65.8	
ZR57KE TF5	4.8	17,200	57,500	4,960	15.3	3.41	11.6	77.2	1.36	28.6	137.0	72.0
ZR57KE TF7			57,600	5,000	8.6	3.37	11.5				68.0	
ZR54KC TFD	4.8	16,900	57,460	5,000	7.7	3.37	11.5	77.2	1.95	36.3	59.6	74.0
ZR54KC TF5					15.4					36.3	124.0	
ZR54KC TF7					9.3					35.8	75.0	
ZR61KE TF7	5.1	18,225	62,200	5,420	9.5	3.37	11.5	82.6	1.36	30.0	68.0	72.0
ZR61KS TF5	5.1	18,200	62.000	5,350	15.8	3.40	11.6	82.6	1.24	29.9	125.0	72.0
ZR61KS TF7					9.2						65.0	
ZR61KC TFD	5.1	18,200	61,880	5,400	8.4	3.37	11.5	82.6	1.95	36.1	63.0	74.0
ZR61KC TF5					16.7					35.4	128.0	
ZR61KC TF7					9.3					36.3	64.0	
ZR68KC TFD	5.7	20,500	70,000	5,950	8.8	3.46	11.8	93.0	1.77	39.0	75.0	75.0
ZR68KC TF5					17,5						156.0	
ZR68KC TF7					10.1						70.0	
ZR72KC TFD	6.0	21,500	73,500	6,250	9.1	3.43	11.7	98.1	1.77	38.6	75.0	75.0
ZR72KC TF5					18.2						156.0	
ZR72KC TF7					10.5						70.0	
ZR81KC TFD	6.8	24,000	82.000	6,950	11.0	3.46	11.8	107.8	1.77	39.0	100.0	75.0
ZR81KC TF5					20.8						164.0	
ZR81KC TF7					11.8						100.0	
ZR84KC TFD	7.0	25,100	85.500	7,300	11.4	3.46	11.8	113.6	2.51	57.2	100.0	78.0
ZR84KC TF5					22.8						196.0	
ZR84KC TF7					13.8						135.0	
ZR94KC TFD	7.8	28,300	96,500	8,200	12.8	3.46	11.8	127.2	2.51	57.2	95.0	78.0
ZR94KC TF5					24.9						195.0	
ZR94KC TF7					15.1						123.0	
ZR108KC TFD	9.0	32,000	109.000	9,200	14.1	3.49	11.9	142.9	3.25	59.9	114.0	80.0
ZR108KC TF5					28.2					59.9	225.0	
ZR108KC TF7					17.1					60.3	140.0	
ZR108KF TFD	9.0	31.900	109.000	9,320	14.3	3.43	11.7	142.9	3.25	60.3	126.0	80.0
ZR125KC TFD	10.4	37,500	128.000	10,900	16.3	3.43	11.7	167.2	3.25	61.2	125.0	80.0
ZR125KC TF5					32.6						239.0	
ZR125KC TF7					19.7						145.0	
ZR125KF TFD	104	37,500	128.000	11,150	17.1	3.37	11.5	167.2	3.25	61.2	150.0	80.0
ZR144KC TFD	12.0	43,000	146,000	12,300	18.2	3.46	11.8	190.9	3.25	61.2	125.0	80.0
ZR144KC TF5					38.3						245.0	
ZR144KC TF7					22.5						145.0	
ZR144KF TFD	12.0	42,800	146,000	12,600	19.2	3.40	11.6	190.9	3.25	61.2	150.0	80.0
ZR160KC TFD	13.3	47,000	160,000	13,900	20.8	3.37	11.5	209.1	3.25	64.9	138.0	83.0
ZR160KC TF7		45,500	155,000		24.2	3.28	11.2			64.9	138.0	
ZR160KC TW5		47,000	160,000		43.2	3.37	11.5			66.2	300.0	
ZR190KC TFD	15.8	55,500	190,000	16,800	26.5	3.34	11.4	249.2	3.25	66.2	173.0	83.0
ZR190KC TW5					53.2						196.0	
ZR190KC TW7					32.0						196.0	
ZR250KC TWD	20.8	73,500	249,900	21,700	30.5	3.37	11.5	325.2	4.67	139.3	225.0	88.0
ZR250KC TW5					66.6					138.8	505.0	
ZR250KC TW7					36.9					139.3	280.0	
ZR250KC TWC					66.6					138.8	505.0	
ZR310KC TWD	25.8	89,500	306,000	27,100	38.8	3.31	11.3	410.6	6.80	160.1	272.0	90.0
ZR310KC TW5					81.6						605.0	
ZR310KC TW7					47.0						353.0	
ZR380KC TWD	31.7	111,000	379,000	32,700	47.1	3.40	11.6	502.7	6.30	176.9	310.0	92.0
ZR380KC TW5					94.2						599.0	
ZR380KC TW7					57.0						358.0	
ZR380KC TWC					94.2						599.0	

Remarks: Test standard AHRI: evaporation temperature 7.2℃ , condensation temperature 54.4℃ , subcooling degree 8.3K, superheat 11.1K, ambient temperature 35℃ .

EMERSON
Climate Technologies

ZP-Series



380-420V; 50Hz, 3 Phase

MODEL	Nominal power HP	Capacity of refrigeration (W)	Capacity of refrigeration (Btu/h)	Input power (W)	Current (A)	COP (W/W)	EER (Btu/Wh)	Displacement (cc | Rev.)	Oil Quantity (L)	N.W. (kg)	Locked rotor current (A)	Sound pressure (dBA)
ZP31KSE TFD	2.6	7,350	25,000	2,580	4.6	2.84	9.7	29.5	0.74	22.3	38.0	66.0
ZP34K5E TFD	2.8	8,200	28,000	2,830	5.2	2.90	9.9	32.8	1.24	28.9	46.0	68.0
ZP36K5E TFD	3.0	8,600	29,300	2,940	5.5	2.93	10.0	34.4	1.24	29.2	46.0	68.0
ZP36KSE TFM	3.0	8,900	30,400	2,920	5.4	3.05	10.4	34.4	1.24	29.4	46.0	68.0
ZP39KSE TFM	3.3	9,250	31,600	3,150	5.3	2.93	10.0	36.9	1.24	30.9	43.0	68.0
ZP42KSE TFM	3.5	10,050	34,300	3,310	5.6	3.03	10.4	39.8	1.24	30.9	43.0	68.0
ZP44KSE TFD	3.7	10,700	36,500	3,540	6.1	3.02	10.3	42.0	1.24	30.9	52.0	68.0
ZP49KSE TFD	4.1	11,950	40,700	3,870	6.5	3.09	10.5	46.4	1.24	33.0	51.5	68.0
ZP49KSE TFM	4.1	11,950	40,700	3,870	6.5	3.09	10.5	46.4	1.24	33.0	51.5	68.0
ZP50K3E TFD	4.2	12,400	42,300	4,100	7.3	3.02	10.3	48.2	1.95	39.5	64.0	69.0
ZP51K5E TFD	4.3	12,050	41,200	4,000	6.9	3.02	10.3	48.2	1.24	32.4	51.5	68.0
ZP51KSE TFM	4.3	12,150	41,500	4,040	6.8	3.02	10.3	48.2	1.24	33.0	51.5	68.0
ZP54K3E TFD	4.5	13,200	44,880	4,460	7.7	2.96	10.1	51.3	1.95	38.1	64.0	69.0
ZP54K5E TFD	4.5	12,900	44,000	4,280	7.0	3.02	10.3	51.1	1.24	32.4	51.5	68.0
ZP54KSE TFM	4.5	12,900	44,100	4,210	7.1	3.08	10.5	51.1	1.24	33.0	51.5	70.0
ZP57K3E TFD	4.8	13,900	47,500	4,610	8.1	3.02	10.3	543	1.66	41.7	74.0	71.0
ZP61KSE TFD	5.1	14,650	50,000	4,750	8.3	3.11	10.5	58.1	1.66	40.3	64.0	71.0
ZP61KCE TFD	5.1	14,650	50,000	4,750	8.3	3.11	10.6	58.1	1.66	40.3	64.0	71.0
ZP67KCE TFD	5.6	16,100	55,000	5,200	9.1	3.11	10.6	63.0	1.77	39.9	74.0	72.0
ZP72KCE TFD	6.0	17,100	58,500	5,700	9.8	3.02	10.3	67.1	1.77	39.9	75.0	72.0
ZP76KCE TFD	6.3	18,400	62,700	5,850	11.0	3 14	10.7	70.8	1.77	39.5	100.0	72.0
ZP83KCE TFD	6.9	19,900	68,000	6,400	11.7	3.11	10.6	77.2	1.77	39.5	101.0	72.0
ZP83KFE TFD	6.9	19,900	68,000	6,600	12.1	3.02	10.3	77.2	1.77	39.5	101.0	72.0
ZP90KCE TFD	7.5	21,800	74,500	6,950	12.3	3.14	10.7	84.2	2.51	57.6	95.0	72.0
ZP91KCE TFD	7.6	21,700	74,000	6,790	12.4	3.19	10.9	84.6	1.77	40.8	101.0	72.0
ZP103KCE TFD	8.6	25,200	86,000	7,800	14.4	3.22	11.0	96.4	3.25	61.2	111.0	74.0
ZP104KCE TFD	8.7	25,400	86,800	7,790	14.3	3.27	11.2	96.4	2.51	48.0	128.0	74.0
ZP104KFE TFD	8.7	25,400	86,800	7,990	14.7	3.18	10.9	96.4	2.51	48.0	128.0	74.0
ZP120KCE TFD	10	29,300	100,000	9,110	16.6	3.22	11.0	113.6	3.25	61.2	118.0	74.0
ZP122KCE TFD	10.2	29,900	102,000	9,060	16.6	3.27	11.2	112.3	2.51	48.8	139.0	74.0
ZP122KFE TFD	10.2	29,900	102,000	9,389	17.2	3.18	10.9	112.3	2.51	48.8	139.0	74.0
ZP137KCE TFD	11.4	32,500	111,000	10,200	18.3	3.19	10.9	127.2	3.25	62.1	118.0	77.0
ZP143KCE TFD	12.0	35,300	120,500	10,800	19.1	3.3	11.2	132.7	2.5	48.8	145.0	75.0
ZP144KCE TFD	12.0	35,000	120,700	10,800	18.7	3.28	11.2	134.6	3.25	60.8	144.0	75.0
ZP144KFE TFD	12.0	35,500	121,000	11,100	19.8	3.19	10.9	134.6	3.25	60.8	153.0	75.0
ZP154KCE TFD	12.8	37,000	127,000	11,600	20.8	3.22	11.0	142.9	3.25	64.9	140.0	76.0
ZP154KFE TFD	12.8	37,000	127,000	11,981	20.8	3.11	10.6	142.9	3.25	64.9	140.0	76.0
ZP182KCE TFD	15.2	44,000	150,000	13,500	26.3	3.25	11.1	167.2	3.25	66.2	174.0	77.0
ZP235KCE TWD	19.6	57,000	195,000	17,600	30.0	3.25	11.1	217.2	4.67	140.6	225.0	82.0
ZP295KCE TWD	24.6	71,500	244,000	22,000	37.2	3.25	11.1	268.5	6.80	160.1	272.0	85.0
ZP385KCE TWD	32.1	92,500	316,000	28,500	48.1	3.25	11.1	349.4	6.30	176.9	310.0	85.0
ZP485KCE TWD	40.4	118,400	404,000	35,700	60.3	3.31	11.3	444.5	6.30	200.0	408.0	89.0
AZP725KCE FED	60.0	180,000	615,000	54,800	93.5	3.29	11.2	663,7	6.30	250.0	666.0	90.0

Remarks: Test standard AHRI: evaporation temperature 7.2℃ , condensation temperature 54.4℃ , subcooling degree 8.3K, superheat 11.1K, ambient temperature 35℃ .

EMERSON
Climate Technologies

ZP-Series



200-230V / 380 / 420V; 60Hz, 3 Phase

MODEL	Nominal power HP	Capacity of refrigeration (W)	Capacity of refrigeration (Btu/h)	Input power (W)	Current (A)	COP (W/W)	EER (Btu/Wh)	Displacement (cc | Rev.)	Oil Quantity (L)	N.W. (kg)	Locked rotor current (A)	Sound pressure (dBA)
ZP31K5E TF5	2.6	9,150	31,200	3,060	9.1	3.0	10.2	29.5	0.74	22.0	73.0	69.0
ZP36K5E TF5	3.0	10,550	36,000	3,490	10.8	3.0	10.3	34.4	1.24	28.9	88.0	71.0
ZP39K5E TF7	3.3	11,450	39,000	3,750	6.4	3.0	10.4	36.9	1.24	30.4	51.8	71.0
ZP42K5E TF5	3.5	12,350	42,200	4,020	11.3	3.08	10.5	39.8	1.24	30.4	83.1	71.0
ZP44KUE TF5 TF7	3.7	13,050 13,150	44,500 44,900	4,220 4,250	12.2 7.6	3.09	10.6	42.0	1.24	30.9 30.6	98.0 64.0	71.0
ZP49KSE TF5 TF7	4.1	14,550	49,700 49,600	4,650 4,630	13.4 7.9	3.14	10.7	46.4	1.24	33.0 32.8	110.0 66.0	71.0
ZP51K5E TF5 TF7	4.3	15,100	51,500	4,810	13.8 8.2	3.14 3.15	10.7 10.8	48.2	1.24	32.5 32.9	110.0 66.0	71.0
ZP54K3E TFD TF5 TF7	4.5	16,000 15,900	54,400 54,060	5,250 5,230	7.7 16.0 9.4	3.05	10.4	51.3	1.95	38.1 39.0	62.0 137.0 78.0	72.0
ZP54KUE TF5 TF7	4.5	15,900 15,600	54,300 53,400	5,070 5,100	14.4 8.8	3.14 3.08	10.7 10.5	51.1	1.24	32.5 33.0	110.0 65.6	71.0
ZP57K3E TFD TF5 TF7	4.8	17,000	57,800	5,500	8.2 16.6 9.9	3.11	10.6	54.3	1.66	41.7 40.4	75.0 155.0 94.0	74.0
ZP61K5E TF5	5.1	18,000	61,500	5,700	9.7	3.17	10.8	57.2	1.24	35.0	83.0	71.0
ZP61KCE TFD TF5 TF7	5.1	18,000	61,500	5,700	8.3 16.8 10.5	3.17	10.8	58.1	1.66	40.3	62.0 123.0 78.0	74.0
ZP67KCE TFD TF5 TF7	5.6	19,600 19,800	66,640 67,500	6,220 6,250 6,260	9.1 18.2 11.0	3.17	10.8	63.0	1.77 1.66	39.9 44.0	75.0 149.0 88.0	75.0 75.0
ZP72KCE TFD TF5 TF7	6.0	21,100 20,800	72,000 71,000	6,750 6,850	9.7 20.1 11.5	3.14 3.05	10.7 10.4	67.1	1.77	39.9 40.9	75.0 164.0 73.0	75.0 74.0
ZP76KCE TFD TF5 TF7	6.3	22,600	77,000	7,060	11.1 20.8 12.4	3.19	10.9	70.8	1.77	39.5	100.0 164.0 94.3	75.0
ZP83KCE TFD TF5 TF7	6.9	24,300 24,200	83,000 82,500	7,650 7,600	11.8 22.0 13.0	3.17	10.8	77.2	1.77	39.5 39.9	100.0 164.0 94.3	75.0
ZP83KFE TFD	6.9	24,200	82,500	7,875	12.1	3.07	10.5	77.2	1.77	39.5	100.0	75.0
ZP91KCE TFD TF5 TF7	7.5	26,500	90,500	8,230	12.6 24.8 15.2	3.22	11.0	84.6	1.77	40.8	100.0 191.0 123.0	75.0
ZP90KCE TFD TF5 TF7	7.6	26,500	90,500	8,370 8,350	13.0 26.3 15.4	3.17	10.8	84.2	2.51	57.6 58.1	95.0 195.0 123.0	77.0
ZP103KCE TFD TF5 TF7	8.6	31,000 30,500	10,500 10,400	9,550	14.3 28.6 17.8	3.22 3.19	11.0 10.9	96.4	3.25	61.2 60.8 59.9	114.0 225.0 140.0	77.0
ZP104KCE TFD TF5 TF7	8.7	31,000	106,000	9,380	14.4 27.2 16.0	3.31	11.3	96.4	2.51	48.0	130.0 239.0 135.0	77.0
ZP104KFE TFD	8.7	31,000	106,000	9,671	14.8	3.21	11.0	96.4	2.51	48.0	130.0	77.0
ZP120KCE TFD TF5 TF7	10.0	36,000	123,000	11,100	16.4 32.8 20.4	3.25	11.1	113.6	3.25	61.2 59.9	125.0 239.0 145.0	79.0
ZP122KCE TFD TF5 TF7	10.2	36,500	124,000	11,100 11,000 11,100	16.9 30.9 18.7	3.31	11.3	112.3	2.51	48.8	140.0 240.0 151.6	79.0
ZP137KCE TFD TF5 TF7	11.4	39,500 40,000	135,000 137,000	12,300 12,400 12,700	18.0 38.0 22.6	3.22 3.17	11.0 10.8	127.2	3.25	62.1 62.6	125.0 245.0 145.0	80.0
ZP143KCE TFD	12.0	42,500	145,000	12,950	22.9	3.28	11.2	132.7	2.51	48.8	152.0	80.0
ZP144KCE TFD	12.0	43,000	146,200	13,000	18.9	3.31	11.3	134.6	3.25	60.8	137.0	80.0
ZP144KFE TFD	12.0	43,000	147,000	13,400	19.9	3.22	11.0	134.6	3.25	60.8	150.0	80.0
ZP154KCE TFD TF7 TW5	12.8	45,500	155,000	14,000	21.0 24.4 42.8	3.25	11.1	142.9	3.25	64.9 66.2	150.0 138.0 300.0	80.0
ZP154KFE TFD	12.8	45,500	155,000	14,396	21.6	3.15	10.8	142.9	3.3	64.9	150.0	80.0
ZP181KCE TWD	15.1	52,000	176,800	16,550	22.8	3.15	10.7	167.2	3.25	66.2	110.0	82.0
ZP182KCE TFD TW5 TW7	15.2	53,500	183,000	16,300	26.3 52.0 31.7	3.28	11.2	167.2	3.25	66.2	179.0 340.0 196.0	82.0

Remarks: Test standard AHRI: evaporation temperature 7.2℃ , condensation temperature 54.4℃ , subcooling degree 8.3K, superheat 11.1K, ambient temperature 35℃ .

EMERSON
Climate Technologies

ZB-Series



380-420V; 50Hz / 460V; 60z, 3 Phase

MODEL			ZB15KQ ZB15KQE	ZB19KQ ZB19KQE	ZB21KQ ZB21KQE	ZB26KQ ZB26KQE	ZB29KQ ZB29KQE	ZB38KQ ZB38KQE	ZB45KQ ZB45KQE	ZB48KQ
Motor type			TFD							
			PFJ	PFJ	PFJ	PFJ	PFJ			
Nominal power		Horsepower	2	2.5	3	3.5	4	5	6	7
Exhaust volume		M^3/h	5.9	6.8	836	9.9	11.4	14.4	17.2	18.8
Start-up current	TFD	Ampere	26	32	40	46	50	65.5	74	101
	PFJ		58	61	82	97	114			
Rated load current	TFD	Ampere	4.30	4.30	5.70	7.10	7.90	10.00	11.50	12.10
	PFJ		11.4	12.9	16.4	17.1	19.3			
Maximum continuous current	TFD	Ampere	6.0	6.0	8.0	10.0	11.0	13.50	16.1	17.0
	PEJ		16	18	23	24	27			
Operating capacitance (single-phases election)			40μF/440V	45μF/370V	60μF/370V	60μF/370V	60μF/370V			
Crankcase heater power		Watts	70							
Pipe outside diameter size	Exhaust pipe	Inches	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3/4
	Air suction tube		3/4	3/4	3/4	3/4	7/8	7/8	7/8	7/8
Overall dimensions	L	Millimeter	242	242	243	243	242	242	242	242
	W		242	242	244	244	242	242	242	242
	H		383	389	412	425	430	457	457	457
Footing installation size (hole diameter)			190×190(8.5)							
Oil charge	PFL / PFV	Litre	1.24	1.30	1.45	1.45/1.48	1.36			
	TFD / TF5 / TF7		1.24	1.36	1.45	1.48	1.36	2.07	1.89	1.80
Weight	Net weight	kg	23	25	27	28	33	38	40	40
	Gross weight		26	29	30	31	37	41	44	44

MODEL		ZB58KQ ZB58KQE	ZB66KQ ZB66KQE	ZB76KQ ZB76KQE	ZB88KQ	ZB95KQ ZB95KQE	ZB114KQ ZB114KQE
Motor type		TFD					
Nominal power	Horsepower	8	9	10	12	13	15
Exhaust volume	M^3/h	22.1	25.7	28.8	33.2	36.4	43.3
Starting current (LRA)	Ampere	95	111	118	118	140	174
Motor type (RLA)	Ampere	16.4	17.3	20	22.1	25	27.9
Maximum continuous current (Mcc)	Ampere	23	24.2	26.9	31	31	38
Maximum continuous current (Mcc)	Ampere	90					
Pipe outside diameter size	Exhaust pipe	7/8	7/8	7/8	7/8	7/8	7/8
	Air suction tube	11/8	13/8	13/8	13/8	13/8	13/8
Overall dimensions	L	242	264				
	W	242	284	284	284	285	285
	H	477	546	546	546	552	553
Footing installation size (hole diameter)		190×190(8.5)					
Foot mounting Oil charge	TFD / TF5 / TF7	2.51	3.25	3.25	3.25	3.30	3.30
Weight	Net weight	57	59	62	62	62	63
	Gross weight	60	62	65	65	65	66

Remarks: Test standard AHRI: evaporation temperature 7.2℃ , condensation temperature 54.4℃ , subcooling degree 8.3K, superheat 11.1K, ambient temperature 35℃ .

SM/SY/SZ -Series



50Hz, 3 Phase

	MODEL	Nominal cooling capacity	Nominal cooling capacity		Power input	COP	E.E.R.	Air discharge volume	Displacement	Oil	Net weight
		TR	W	Btu/h	kW	W/W	Btu/h /W	cm^3/rev	m^3/h	dm^3	kg
R22 Only	SM084	7	20 400	69 600	6.12	3.33	11.4	114.5	19.9	3.25	64
	SM090	7.5	21 800	74 400	6.54	3.33	11.4	120.5	21.0	3.25	65
	SM100	8	23 100	78 800	6.96	3.33	11.4	127.2	22.1	3.25	65
	SM110	9	25 900	88 400	7.82	3.32	11.3	144.2	25.1	3.25	73
	SM112	9.5	27 600	94 200	7.92	3.49	11.9	151.5	26.4	3.30	64
	SM120	10	30 100	102 700	8.96	3.36	11.5	166.6	29.0	3.25	73
	SM124	10	31 200	106 500	8.75	3.56	12.2	169.5	29.5	3.30	64
	SM147	12	36 000	122 900	10.08	3.57	12.2	193.5	33.7	3.30	67
	SM148	12	36 100	123 200	10.8	3.34	11.4	199.0	34.6	3.60	88
	SM161	13	39 000	133 100	11.59	3.37	11.5	216.6	37.7	3.60	88
	SM175	14	42 000	143 300	12.47	3.37	11.5	233.0	40.5	6.20	100
	SM/SY185	15	45 500	155 300	13.62	3.34	11.4	249.9	43.5	6.20	100
	SY240	20	61 200	208 900	18.2	3.36	11.5	347.8	60.5	8.00	150
	SY300	25	78 200	266 900	22.83	3.43	11.7	437.5	76.1	8.00	157
	SY380	30	94 500	322 500	27.33	3.46	11.8	531.2	92.4	8.40	158
R407C Only	SZ084	7	19 300	65 900	6.13	3.15	10.8	114.5	19.9	3.25	64
	SZ090	7.5	20 400	69 600	6.45	3.16	10.8	120.5	21.0	3.25	65
	SZ100	8	21 600	73 700	6.84	3.15	10.8	127.2	22.1	3.25	65
	SZ110	9	24 600	84 000	7.76	3.17	10.8	144.2	25.1	3.25	73
	SZ120	10	28 600	97 600	8.99	3.17	10.8	166.6	29.0	3.25	73
	SZ147	12	34 900	119 079	9.92	3.52	12.0	193.5	33.7	3.30	67
	SZ148	12	35 100	119 800	10.99	3.19	10.9	199.0	34.6	3.60	88
	SZ161	13	38 000	129 700	11.84	3.21	11.0	216.6	37.7	3.60	88
	SZ175	14	40 100	136 900	12.67	3.17	10.8	233.0	40.5	6.20	100
	SZ185	15	43 100	147 100	13.62	3.16	10.8	249.9	43.5	6.20	100
	SY240	20	59 100	201 700	18.55	3.19	10.9	347.8	60.5	8.00	150
	SY300	25	72 700	248 100	22.73	3.20	10.9	437.5	76.1	8.00	157
	SY380	30	89 600	305 800	27.59	3.25	11.1	531.2	92.4	8.40	158
R134A Only	SZ084	7	12100	41100	3.83	3.15	10.75	114.5	19.9	3.25	64
	SZ090	7.5	12900	43900	4.08	3.15	10.77	120.5	21.0	3.25	65
	SZ100	8	13800	47000	4.36	3.16	10.78	127.2	22.1	3.25	65
	SZ110	9	15600	53100	4.90	3.17	10.83	144.2	25.1	3.25	73
	SZ120	10	17900	61200	5.62	3.19	10.89	166.6	29.0	3.25	73
	SZ147	12	20800	71000	6.13	3.40	11.59	193.5	33.7	3.25	67
	SZ148	12	21500	73400	6.96	3.09	10.55	199.0	34.6	3.60	88
	SZ161	13	23000	78400	7.30	3.15	10.74	216.6	37.7	3.60	88
	SZ175	14	25300	86200	7.90	3.20	10.91	233.0	40.5	6.20	100
	SZ185	15	26900	91700	8.41	3.20	10.91	249.9	43.5	6.20	100
	SY240	20	35600	121600	11.60	3.07	10.48	347.8	60.5	8.00	150
	SY300	25	44400	151700	14.43	3.08	10.51	437.5	76.1	8.00	157
	SY380	30	55800	190500	17.26	3.23	11.04	531.2	92.4	8.40	158
R513A Only	SZ148	12	20665	70512	6.96	2.97	10.13	199.0	34.6	3.60	88
	SZ161	13	23634	80642	7.54	3.14	10.70	216.6	37.7	3.60	88
	SZ175	14	24413	83299	8.07	3.03	10.32	233.0	40.5	6.20	100
	SZ185	15	27438	93621	8.64	3.18	10.84	249.9	43.5	6.20	100
	SY240	20	37450	127783	12.1	3.10	10.59	347.8	60.5	8.00	150
	SY300	25	47497	162065	14.7	3.22	10.99	437.5	76.1	8.00	157
	SY380	30	58537	199734	18.1	3.23	11.03	531.2	92.4	8.40	158

TR = Ton of Refrigeration
Exhaust at rated speed: 2900rpm, 50Hz; 3500rpm, 60Hz

COP = Coefficient of performance
Net weight of lubricating oil

EER = Energy efficiency ratio

Rated operating condition			
Refrigerant	R22	R134a / R513A	R407C
Frequency	50 Hz	50 Hz	50 Hz
Standard rated condition	ARI	EN12900	-
Temperature of evaporation	7.2 °C	5 °C	7.2°C (Dew point)
Temperature of condensation	54.4 °C	50 °C	54.4°C (Dew point)
Subcooled	8.3 K	10 K	8.3 K
Overheating	11.1 K	0 K	11.1 K
Data changes are not notified in advance			

Remarks: Test standard AHRI: evaporation temperature 7.2℃ , condensation temperature 54.4℃ , subcooling degree 8.3K, superheat 11.1K, ambient temperature 35℃ .

SM/SY/SZ -Series



60Hz, 3 Phase

	MODEL	Nominal cooling capacity	Nominal cooling capacity		Power input	COP	E.E.R.	Air discharge volume	Displacement	Oil	Net weight
		TR	W	Btu/h	kW	W/W	Btu/h /W	cm^3/rev	m^3/h	dm^3	kg
R22 ONLY	SM084	7	24600	84000	7.40	3.34	11.4	114.5	24.1	3.25	64
	SM090	7.5	26400	90100	7.80	3.37	11.5	120.5	25.3	3.25	65
	SM100	8	27500	93900	8.10	3.38	11.5	127.2	26.7	3.25	65
	SM110	9	31600	107800	9.30	3.38	11.5	144.2	30.3	3.25	73
	SM112	9.5	34000	116000	9.60	3.53	12.1	151.5	31.8	3.30	64
	SM120	10	36700	125300	10.80	3.40	11.6	166.6	35.0	3.25	73
	SM124	10.5	37700	128700	10.60	3.56	12.2	169.5	35.6	3.30	64
	SM147	12	43600	148800	12.20	3.58	12.2	193.5	40.6	3.30	67
	SM148	12	43800	149500	13.00	3.37	11.5	199.0	41.8	3.60	88
	SM161	13	47600	162500	14.10	3.39	11.6	216.6	45.5	3.60	88
	SM175	14	51100	174400	15.30	3.34	11.4	233.0	48.9	6.20	100
	SM/SY185	15	55300	188700	16.30	3.39	11.6	249.9	52.5	6.20	100
	SY240	20	74100	252900	22.10	3.35	11.4	347.8	73.0	8.00	150
	SY300	25	94500	322500	27.50	3.43	11.7	437.5	91.9	8.00	157
	SY380	30	115300	393500	33.40	3.46	11.8	531.2	111.6	8.40	158
R407 Only	SZ084	7	22500	76800	7.10	3.19	10.9	114.5	24.1	3.25	64
	SZ090	7.5	24400	83300	7.60	3.20	10.9	120.5	25.3	3.25	65
	SZ100	8	26500	90400	8.20	3.24	11.1	127.2	26.7	3.25	65
	SZ110	9	30100	102700	9.30	3.24	11.1	144.2	30.3	3.25	73
	SZ120	10	34800	118800	10.70	3.24	11.1	166.6	35.0	3.25	73
	SZ147	12	42300	144328	12.03	3.52	12.0	193.5	40.6	3.30	67
	SZ148	12	42600	145400	13.30	3.19	10.9	199.0	41.8	3.60	88
	SZ161	13	46000	157000	14.30	3.21	11.0	216.6	45.5	3.60	88
	SZ175	14	48700	166200	15.30	3.19	10.9	233.0	48.9	6.20	100
	SZ185	15	51800	176800	16.40	3.15	10.8	249.9	52.5	6.20	100
	SY240	20	71100	242700	22.70	3.14	10.7	347.8	73.0	8.00	150
	SY300	25	87900	300000	27.50	3.20	10.9	437.5	91.9	8.00	157
	SY380	30	107300	366200	33.50	3.20	10.9	531.2	111.6	8.40	158
R134A Only	SZ084	7	16700	57100	5.06	3.31	11.29	114.5	24.1	3.25	64
	SZ090	7.5	17700	60300	5.33	3.31	11.31	120.5	25.3	3.25	65
	SZ100	8	18700	63800	5.64	3.32	11.32	127.2	26.7	3.25	65
	SZ110	9	21300	72800	6.41	3.33	11.36	144.2	30.3	3.25	73
	SZ120	10	24800	84700	7.43	3.34	11.40	166.6	35.0	3.25	73
	SZ147	12	28300	96600	8.04	3.52	12.02	193.5	40.6	3.25	67
	SZ148	12	29000	99100	9.37	3.10	10.57	199.0	41.8	3.60	88
	SZ161	13	31500	107500	9.68	3.25	11.10	216.6	45.5	3.60	88
	SZ175	14	34400	117300	10.39	3.31	11.29	233	48.9	6.20	100
	SZ185	15	36600	124800	11.10	3.30	11.25	249.9	52.5	6.20	100
	SY240	20	49400	168600	15.37	3.21	10.97	347.8	73.0	8.00	150
	SY300	25	60600	206900	19.61	3.09	10.55	437.5	91.9	8.00	157
	SY380	30	75800	258600	23.22	3.26	11.14	531.2	111.6	8.40	158
R513A Only	SZ148	12	28861	98477	9.32	3.10	10.57	199.0	41.8	3.60	88
	SZ161	13	32617	111292	10.01	3.26	11.12	216.6	45.5	3.60	88
	SZ175	14	33952	115847	10.58	3.21	10.94	233.0	48.9	6.20	100
	SZ185	15	38009	129690	11.33	3.35	11.45	249.9	52.5	6.20	100
	SY240	20	51208	174727	15.9	3.22	10.99	347.8	73.0	8.00	150
	SY300	25	64441	219879	19.5	3.30	11.25	437.5	91.9	8.00	157
	SY380	30	69586	79439	24.7	3.22	10.99	531.2	111.6	8.40	158

TR = Ton of Refrigeration
Exhaust at rated speed: 2900rpm, 50Hz; 3500rpm, 60Hz

COP = Coefficient of performance
Net weight of lubricating oil

EER = Energy efficiency ratio

Rated operating condition		
Refrigerant	R22 / R134a / R513A	R407C
Frequency	60 Hz	60 Hz
Standard rated condition	ARI Standard operating condition	-
Temperature of evaporation	7.2 °C	7.2°C (Dew point)
Temperature of condensation	54.4 °C	54.4°C (Dew point)
Subcooled	8.3 K	8.3 K
Overheating	11.1 K	11.1 K
Data changes are not notified in advance		

Remarks: Test standard AHRI: evaporation temperature 7.2℃ , condensation temperature 54.4℃ , subcooling degree 8.3K, superheat 11.1K, ambient temperature 35℃ .

HRM -Series



50Hz, 3 Phase

	MODEL	Nominal cooling capacity	Nominal cooling capacity		Input power	Maximum rated current	COP/EER		Displacement	Displacement	Oil	Net weight
		TR	W	Btu/h	kW	MCC	COP W/W	EER Btu/h /W	cm^3/rev	m^3/h	dm^3	kg
R22 Only	HRM032U4	2.7	7850	26790	2.55	9.5	3.08	10.5	43.8	7.60	1.06	31
	HRM034U4	2.8	8350	28490	2.66	9.5	3.14	10.5	46.2	8.03	1.06	31
	HRM038U4	3.2	9240	31520	2.94	10.0	3.14	10.7	46.2	8.03	1.06	31
	HRM040U4	3.3	9710	33120	2.98	10.0	3.26	111	54.4	9.47	1.06	31
	HRM042U4	3.5	10190	34770	3.13	11.0	3.26	11.1	57.2	9.95	1.06	31
	HRM045U4	3.8	70940	37310	3.45	12.0	3.17	10.8	61.5	10.69	1.33	31
	HRM047U4	3.9	71500	39250	3.57	12.0	3.23	11.0	64.1	11.15	1.33	31
	HRMO48U4	4.0	71570	39270	3.57	12.5	3.23	11.0	64.4	11.21	1.57	37
	HRMO51T4	4.3	12390	44280	3.67	13.0	3.37	11.5	68.8	11.98	1.57	37
	HRM051U4	4.3	12800	43690	3.83	13.0	3.34	11.4	68.8	11.98	1.57	37
	HRM054U4	4.5	73390	45680	3.97	13,1	3.37	11.5	72.9	12.69	1.57	37
	HRM058U4	4.8	14340	48930	4.25	15.0	3.37	115	78.2	13.6	1.57	37
	HRMO60T4	5.0	14570	49720	4.28	15.0	3.40	11.6	81.0	14.09	1.57	37
	HRMO60U4	5.0	14820	50580	4.40	15.0	3.37	11.5	81.0	14.09	1.57	37
	HLM068T4	5.7	16880	57580	5.00	15.0	3.37	11.5	93.1	16.20	1.57	37
	HLMO72T4	6.0	17840	60870	5.29	15.0	3.37	11.5	98.7	17.20	1.57	37
	HLM075T4	6.3	18430	62880	5.37	16.0	3.43	11.7	102.8	17.88	1.57	37
	HLM081T4	6.8	19890	67880	5.80	17.0	3.43	11.7	110.9	19.30	1.57	37
	HCM094T4	7.8	23060	78670	6.80	21.0	3.39	11.6	126.0	21.93	2.66	44
	HCM109T4	9.1	26690	91070	7.77	24.0	3.43	11.7	148.8	25.89	2.66	44
	HCM120T4	10.0	29130	99390	8.51	25.0	3.42	11.7	162.4	28.26	2.66	44
R407C Only	HRP034T4	2.8	7940	27080	2.68	9.5	2.96	10.1	46.2	8.00	1.06	31
	HRP038T4	3.2	8840	30150	2.82	11.0	3.14	10.7	51.6	8.98	1.06	31
	HRPO40T4	3.3	9110	31080	3.14	11.5	2.90	9.9	54.4	9.47	1.06	31
	HRP042T4	3.5	9580	32680	3.30	10.0	2.90	9.9	57.2	9.95	1.06	31
	HRP045T4	3.8	10810	36890	3.58	12.0	3.02	10.3	61.5	10.69	1.33	31
	HRPO47T4	3.9	11130	37980	3.69	12.0	3.02	10.3	64.1	11.15	1.33	31
	HRP048T4	4.0	71100	37880	3.35	12.0.0	3.31	713	64.4	11.21	1.57	37
	HRP051T4	4.3	12120	41370	3.83	13	3.17	70.8	68.8	11.98	1.57	37
	HRP054T4	4.5	12570	42880	3.97	12.5	3.17	10.8	72.8	12.66	1.57	37
	HRP058T4	4.8	13470	45970	4.25	14.0	3.17	10.8	78.2	13.60	1.57	37
	HRPO60T4	5.0	13860	47280	4.26	15.0	3 25	11.1	81.0	14.09	1.57	37
	HLP068T4	5.7	15700	53560	5.10	15.0	3.08	10.5	93.1	16.20	1.57	37
	HLP072T4	6.0	76810	57350	5.16	15.0	3.26	11.1	98.7	17.17	1.57	37
	HLP075T4	6.3	78040	61550	5.54	16.0	3.26	11.1	102.8	17.88	1.57	37
	HLP081T4	6.8	18600	63470	5.66	17.0	3.28	11.2	110.9	19.30	1.57	37
	HCP094T4	7.8	21590	73660	6.63	21.0	3.26	11.1	126.0	21.93	2.66	44
	HCF109T4	9.1	25070	85550	7.77	24.0	3.23	11.0	148.8	25.89	2.66	44
	HCP120T4	10.0	27370	93400	8.47	25.0	3.23	11.0	162.4	28.26	2.66	44
R410A Only	HR029U4	2.4	7120	24310	2.43	10.0	2.93	10	27.8	4.84	1.06	31
	HRH031U4	2.6	7530	25710	2.67	10.0	2.82	9.62	29.8	5.19	1.06	31
	HRH032U4	2.7	7670	26170	2.75	10.0	2.79	9.51	30.6	5.33	1.06	31
	HRH034U4	2.8	8500	29000	2.90	10.0	2.93	10.0	33.3	5.75	1.06	31
	HRH036U4	3.0	8820	30110	3.13	10.0	2.82	9.62	34.7	6.04	1.06	31
	HRH038U4	3.2	9250	31560	3.35	12.0	2.76	9.41	36.5	6.36	1.06	32
	HRH040U4	3.3	10200	34870	3.58	12.0	2.85	9.72	39.6	6.90	1.33	32
	HRH041U4	3.3	10050	34300	3.43	12.5	2.93	10.0	39.3	6.80	1.57	157
	HRH044U4	3.7	70830	36940	3.92	13.5	2.76	9.41	42.6	7.41	1.57	158
	HRH049U4	4.1	12110	41320	4.04	13.5	2.99	10.22	47.4	8.24	1.57	37
	HRH051U4	4.3	12860	43890	4.21	13.0	3.05	10.42	49.3	5.58	1.57	37
	HRH054U4	4.5	13340	45510	4.47	15.0	3.02	10.32	52.1	9.07	1.57	37
	HRH056U4	4.7	13830	47200	4.58	15.0	3.02	10.31	54.1	9.42	1.57	37
	HLH061T4	5.1	15210	51880	4.89	15.0	3.11	10.61	57.8	10.10	1.57	37
	HLH068T4	5.7	16880	57610	5.26	19.0	3.21	10.96	64.4	11.21	1.57	37
	HLJ072T4	6.0	17840	60900	5.56	19.0	3.21	11.0	68.0	17.82	1.57	37
	HLJ075T4	6.3	18600	63490	5.77	18.0	3.22	11.0	70.8	12.32	1.57	37
	HLJ083T4	6.9	20420	69690	6.28	19.0	3.25	11.1	78.1	13.59	1.57	37
	HCJ090T4	7.5	22320	76190	7.19	19.0	3.11	10.6	86.9	15.11	2.66	44
	HCJ105T4	8.8	26100	89090	8.25	25.0	3.16	10.8	101.6	17.68	2.66	44
	HCJ120T4	10.0	29610	101080	9.53	27.0	3.11	10.6	116.4	20.24	2.66	44

TR = Ton of Refrigeration COP = Coefficient of performance EER = Energy efficiency ratio ARI Standard test condition
Data subject to change without prior notice.

MLM -Series



50Hz, 3 Phase

Compressor model	HP	Voltage
MLM019T5LP9	2.5	220-240V-1-50HZ
MLM021T5LP9	3	220-240V-1-50Hz
MLM026T5LP9	3.5	220-240V-1-50Hz
MLM015T4LP9	2	380-415V-3-50Hz&460V-3-60Hz
MLM019T4LP9	2.5	380-415V-3-50Hz&460V-3-60Hz
MLM021T4LP9	3	380-415V-3-50Hz&460V-3-60Hz
MLM026T4LP9	3.5	380-415V-3-50Hz&460V-3-60Hz
MLM030T4LC9	4	380-415V-3-50Hz&460V-3-60Hz
MLM038T4LC9	5	380-415V-3-50Hz&460V-3-60Hz
MLM045T4LC9	6	380-415V-3-50Hz&460V-3-60Hz
MLM048T4LC9	7	380-415V-3-50Hz&460V-3-60Hz
MLM058T4LC9	7.5	380-415V-3-50Hz&460V-3-60Hz
MLM066T4LC9	9	380-415V-3-50Hz&460V-3-60Hz
MLM076T4LC9	10	380-415V-3-50Hz&460V-3-60Hz

*MLM series universal lubricating oil is AB alkyl benzene oil, refrigerant is R22, and packaging specification is industrial packaging (12 sets/tray) with installation accessories.

Compressor model	HP	Voltage
MLZ019T5LP9	2.5	220-240V-1-50HZ
MLZ021T5LP9	3	220-240V-1-50Hz
MLZ026T5LP9	3.5	220-240V-1-50Hz
MLZ015T4LP9	2	380-415V-3-50Hz&460V-3-60Hz
MLZ019T4LP9	2.5	380-415V-3-50Hz&460V-3-60Hz
MLZ021T4LP9	3	380-415V-3-50Hz&460V-3-60Hz
MLZ026T4LP9	3.5	380-415V-3-50Hz&460V-3-60Hz
MLZ030T4LC9	4	380-415V-3-50Hz&460V-3-60Hz
MLZ038T4LC9	5	380-415V-3-50Hz&460V-3-60Hz
MLZ045T4LC9	6	380-415V-3-50Hz&460V-3-60Hz
MLZ048T4LC9	7	380-415V-3-50Hz&460V-3-60Hz
MLZ058T4LC9	7.5	380-415V-3-50Hz&460V-3-60Hz
MLZ066T4LC9	9	380-415V-3-50Hz&460V-3-60Hz
MLZ076T4LC9	10	380-415V-3-50Hz&460V-3-60Hz

*MLM series universal lubricating oil is PVE ether oil, refrigerant is R404A/R134A/R507/R22, and packaging specification is industrial packaging (12 sets/carrier) with installation accessories.

R410A

50Hz, Parameter

COMPRESSOR IDENTIFICATION
(Indicated on the compressor nameplate)

Lubricant and refrigerant series	Nominal cooling capacity	Authentication	Voltage	Configure		Product update code
SH	485	A	4	A	B	A

SH: Scroll type, POE lubricant, Use R410A refrigerant.

Unit: 1000 Btu/h (60HZ, R410A, ARI standard condition)

UL Code

3: 200-230V/3~/60Hz
4: 380-400V/3~/50Hz-460V/3~/60Hz
SH295 and SH485:380-415V/3~/50Hz-460V/3~/60Hz
6: 230V/3~/50Hz
7: 500V/3~/50 Hz-575V/3~/60 Hz
9: 380V/3~/60Hz

Suction and exhaust are connected
A: Welding joint

Protection of motor
L: Built-in overload protector
A: Electron, 24V AC
B: Electron, 110-240V
C: Custom electrical box

Product update code A to Z



Model		Cooling ton	Capacity		Input power	COP	E.E.R.	Displacement		Oil capacity	N.W.
		TR	W	Btu/h	kW	W/W	Btu/h/W	cm^3/rev	m^3/h	dm^3	kg
50Hz	SH090	7.5	22,300	76,100	7.19	3.10	10.59	88.40	15.40	3.0	58
	SH105	9	26,850	91,600	8.47	3.17	10.80	103.50	18.00	3.3	64
	SH120	10	30,000	102,200	9.46	3.17	10.80	116.90	20.30	3.3	64
	SH140	12	34,700	118,400	10.86	3.19	10.90	133.00	23.10	3.3	67
	SH161	13	38,800	132,400	12.15	3.19	10.90	151.70	26.40	3.3	69
	SH184	15	44,650	152,500	13.73	3.25	11.10	170.30	29.60	3.6	71.5
	SH180	15	44,000	150,300	13.73	3.21	10.95	170.20	29.60	6.7	106
	SH240	20	60,400	206,300	18.77	3.22	11.00	227.60	39.60	6.7	108
	SH300	25	77,300	264,000	24.01	3.22	11.00	285.50	49.70	6.7	153
	SH380	30	90,400	308,700	28.19	3.21	10.95	345.00	60.00	7.2	164
60HZ	SH090	7.5	27,100	92,500	8.57	3.16	10.79	88.40	18.60	3.0	58
	SH105	9	32,100	109,500	9.96	3.22	11.00	103.50	21.80	3.3	64
	SH120	10	36,800	125,400	11.25	3.27	11.15	116.90	24.60	3.3	64
	SH140	12	42,300	144,300	12.94	3.27	11.15	133.00	27.90	3.3	67
	SH161	13	47,200	160,900	14.43	3.27	11.15	151.70	31.90	3.3	69
	SH184	15	54,000	184,400	16.45	3.28	11.20	170.30	35.80	3.6	71.5
	SH180	15	53,700	183,400	16.45	3.27	11.15	170.20	35.70	6.7	106
	SH240	20	73,500	251,000	22.48	3.27	11.15	227.60	47.80	6.7	108
	SH300	25	93,000	317,600	28.71	3.24	11.05	285.50	60.00	6.7	153
	SH380	30	109,600	374,300	34.02	3.22	11.00	345.00	72.30	7.2	164

COMPRESSOR IDENTIFICATION
(Indicated on the compressor nameplate)



MT	Z	64	HM	4	B	VE	-

Compressor Type

POE Oil

Motor Power
(Divide by 12 to HP)

Discharge Code

Motor Voltage Code
1: 208-230 V / 1 ph / 60 Hz
3: 200-230 V / 3 ph / 60 Hz
4: 400 V / 3 ph / 50 Hz
460 V / 3 ph / 60 Hz
5: 230 V / 1 ph / 50 Hz
6: 230 V / 3 ph / 50 Hz
7: 500 V / 3 ph / 50 Hz
575 V /3 ph / 60 Hz
9: 380 V / 3 ph / 60 Hz

Version Index

Oil Balance Port And Mirror

Optional Code

Compressor model	Displacement			Number of cylinders	Fuel volume dm3	Net weight kg	Motor voltage code						
	Code	cm^3/rev	m^3/hat 2900 rpm				1	3	4	5	6	7	9
MT/MTZ018	JA	30.23	5.26	1	0.95	21	●	●	●	●	—	—	—
MT/MTZ022	JC	38.12	6.63	1	0.95	21	●	●	●	●	●	—	●
MT/MTZ028	JE	48.06	8.36	1	0.95	23	●	●	●	●	●	—	●
MT/MTZ032	JF	53.86	9.37	1	0.95	24	●	●	●	●	●	○	●
MT/MTZ036	JG	60.47	10.52	1	0.95	25	●	●	●	●	●	○	●
MT/MTZ040	JH	67.89	11.81	1	0.95	26	●	●	●	—	●	—	—
MT/MTZ044	HJ	76.22	13.26	2	1.8	35	●	●	●	—	●	●	●
MT/MTZ045	HJ	76.22	13.26	2	1.8	37	—	●	●	—	—	—	—
MT/MTZ050	HK	85.64	14.9	2	1.8	35	●	●	●	●	●	●	●
MT/MTZ051	HK	85.64	14.9	2	1.8	37	—	●	●	—	—	—	—
MT/MTZ056	HL	96.13	16.73	2	1.8	37	●	●	●	—	●	●	●
MT/MTZ057	HL	96.13	16.73	2	1.8	39	—	●	●	—	—	—	—
MT/MTZ064	HM	107.71	18.74	2	1.8	37	●	●	●	—	●	—	●
MT/MTZ065	HM	107.71	18.74	2	1.8	39	—	●	●	—	—	—	—
MT/MTZ072	HN	120.94	21.04	2	1.8	40	—	●	●	—	●	—	●
MT/MTZ073	HN	120.94	21.04	2	1.8	41	—	●	●	—	—	—	—
MT/MTZ080	HP	135.78	23.63	2	1.8	40	—	●	●	—	●	—	●
MT/MTZ081	HP	135.78	23.63	2	1.8	41	—	●	●	—	—	—	—
MT/MTZ100	HS	171.26	29.8	4	3.9	60	—	●	●	—	●	●	●
MT/MTZ125	HU	215.44	37.49	4	3.9	64	—	●	●	—	●	●	●
MT/MTZ144	HV	241.87	42.09	4	3.9	67	—	●	●	—	●	●	●
MT/MTZ160	HW	271.55	47.25	4	3.9	69	—	●	●	—	●	●	●

● Both MT and MTZ are available. ○ Only MTZ provides.

Panasonic

R410A

C-SB Series

50Hz, 380-415V / 60Hz 440-460V



Phase	OutPut	Displacement	Compressor Model	Compressor Code	Starting Method	50Hz				60Hz				Outline Graph Code
						Capacity		COP		Capacity		COP		
	HP	cm³/rev				kW	kBTU/h	W/W	BTU/Wh	kW	kBTU/h	W/W	BTU/Wh	
3	3.5	39.9	C-SBP120H38A			10.0	34.1	2.86	9.8	12.2	41.7	2.94	10.0	A
			C-SBP120H38B			10.0	34.1	2.86	9.8	12.2	41.7	2.94	10.0	At
			C-SBN303H8D	80994388		9.80	33.5	2.68	9.2	12.2	41.7	2.87	9.8	A
			C-SBN303H8H	80994788		9.80	33.5	2.68	9.2	12.2	41.7	2.87	9.8	At
	3.7	42.4	C-SBP130H38A			10.9	37.2	2.91	9.9	13.3	45.4	3.02	10.3	A
			C-SBP130H38B			10.9	37.2	2.91	9.9	13.3	45.4	3.02	10.3	At
	4	46.4	C-SBP140H38A			11.7	39.9	2.93	10.0	14.3	48.8	3.01	10.3	A
			C-SBP140H38B			11.7	39.9	2.93	10.0	14.3	48.8	3.01	10.3	At
	4.6	51.6	C-SBP160H38C			13.2	45.0	3.07	10.5	16.0	54.6	3.08	10.5	A
		51.8	C-SBN353H8D	80994888		13.0	44.4	2.80	9.6	16.2	55.3	2.97	10.1	A
			C-SBN353H8H	80994988		13.0	44.4	2.80	9.6	16.2	55.3	2.97	10.1	At
		51.8	C-SBP160H38A			13.2	45.1	2.87	9.8	16.2	55.3	2.98	10.2	A
			C-SBP160H38B			13.2	45.1	2.87	9.8	16.2	55.3	2.98	10.2	At
	5	55.7	C-SBN373H8D	80995388		14.1	48.1	2.97	10.1	17.1	58.4	3.05	10.4	A
			C-SBN373H8H	80995788		14.1	48.1	2.97	10.1	17.1	58.4	3.05	10.4	At
			C-SBP170H38A			14.2	48.5	2.99	10.2	17.3	59.1	3.04	10.4	A
			C-SBP170H38B			14.2	48.5	2.99	10.2	17.3	59.1	3.04	10.4	At
	5.5	60.4	C-SBP185H38A			15.2	51.9	2.92	10.0	18.7	63.8	3.07	10.5	A
	6	66.8	C-SBN453H8D	80996388		16.4	56.0	2.85	9.7	20.3	69.3	3.01	10.3	A
			C-SBN453H8H	80996788		16.4	56.0	2.85	9.7	20.3	69.3	3.01	10.3	At
			C-SBP205H38A			16.8	57.4	3.00	10.2	20.6	70.3	3.10	10.6	A
			C-SBP205H38B			16.8	57.4	3.00	10.2	20.6	70.3	3.10	10.6	At
	6.8	76.0	C-SBP235H38A			19.9	67.9	3.04	10.4	24.2	82.6	3.12	10.6	A
			C-SBP235H38B			19.9	67.9	3.04	10.4	24.2	82.6	3.12	10.6	At
	7	77.4	C-SBN523H8D	80997388		19.2	65.6	2.84	9.7	23.4	80.0	2.98	10.2	A
			C-SBN523H8H	80997788		19.2	65.6	2.84	9.7	23.4	80.0	2.98	10.2	At

Panasonic

R410A

C-SB Series

50Hz, 220-240V



Phase	OutPut	Displacement	Compressor Model	Compressor Code	Starting Method	50Hz				Outline Graph Code
						Capacity		COP		
	HP	cm³/rev				kW	kBTU/h	W/W	BTU/Wh	
1	3.5	39.9	C-SBP120H15A		PSC	9.80	33.5	2.80	9.6	A
	4	46.4	C-SBP140H15A		PSC	11.6	39.6	2.85	9.7	A
	4.6	51.8	C-SBP160H15A		PSC	13.0	44.4	2.80	9.6	A
	5.5	60.4	C-SBP185H15A		PSC	15.1	51.6	2.82	9.6	A

Heating Condition: Condensing Temperature54.4℃ , Evaporating Temperature7.2℃ , Sub-Cooling 8.3K, Superheat11.1K.

Panasonic

R22

C-SB Series

50Hz, 380-415V / 60Hz 440-460V



Phase	OutPut	Displacement	Compressor Model	Compressor Code	Starting Method	50Hz				60Hz				Outline Graph Code
						Capacity		COP		Capacity		COP		
	HP	cm³/rev				kW	kBTU/h	W/W	BTU/Wh	kW	kBTU/h	W/W	BTU/Wh	
3	3.1	51.8	C-SB263H8B	80983188		9.15	31.2	3.10	10.6	11.2	38.2	3.20	10.9	B
			C-SB263H8C	80983288		9.15	31.2	3.10	10.6	11.2	38.2	3.20	10.9	A
	3.5	55.7	C-SB263H8A	80983088		9.60	32.8	3.10	10.6	11.8	40.3	3.19	10.9	B
			C-SBX120H38A			10.0	34.1	3.35	11.4	12.0	41.0	3.38	11.5	A
	4	66.8	C-SB303H8A	80984088		11.8	40.3	3.23	11.0	14.4	49.2	3.27	11.2	A
			C-SB303H8G	80984688		11.8	40.3	3.23	11.0	14.4	49.2	3.27	11.2	At
			C-SBX145H38A			12.0	41.0	3.40	11.6	14.6	49.8	3.42	11.7	A
	4.2	70.5	C-SBX150H38C			12.8	43.7	3.50	11.9	15.6	53.3	3.50	11.9	A
		70.9	C-SBX150H38A			12.8	43.7	3.40	11.6	15.5	52.9	3.42	11.7	A
	4.4	73.2	C-SBX160H38A			13.1	44.7	3.40	11.6	15.8	53.9	3.42	11.7	A
	4.5	76.0	C-SBX165H38A	80974588		13.5	46.1	3.33	11.4	16.3	55.7	3.33	11.4	A
			C-SBX165H38B	80974688		13.5	46.1	3.33	11.4	16.3	55.7	3.33	11.4	At
			C-SBX165H38C			13.6	46.4	3.32	11.3	16.5	56.3	3.33	11.4	A
	4.6	77.4	C-SB353H8A	80984288		13.5	46.1	3.18	10.9	16.7	57.0	3.28	11.2	A
			C-SB353H8G	80984788		13.5	46.1	3.18	10.9	16.7	57.0	3.28	11.2	At
	4.9	81.0	C-SBX180H38A	80975088		14.3	48.8	3.33	11.4	17.3	59.1	3.33	11.4	A
			C-SBX180H38B	80975188		14.3	48.8	3.33	11.4	17.3	59.1	3.33	11.4	At
	5	83.2	C-SB373H8A	80985088		14.5	49.5	3.19	10.9	17.9	61.1	3.23	11.0	A
			C-SB373H8G	80985688		14.5	49.5	3.19	10.9	17.9	61.1	3.23	11.0	At
		83.7	C-SBX180H38C	80975388		14.7	50.2	3.30	11.3	17.8	60.8	3.30	11.3	A
			C-SBX180H38D	80975488		14.7	50.2	3.30	11.3	17.8	60.8	3.30	11.3	At
	5.2	85.5	C-SB373H8F	80985588		15.0	51.2	3.19	10.9	18.4	62.8	3.20	10.9	A
	5.5	90.6	C-SBX195H38A			16.3	55.7	3.33	11.4	19.8	67.6	3.38	11.5	A
			C-SBR195H38A			16.0	54.6	3.20	10.9	19.4	66.2	3.23	11.0	A
	6	100.0	C-SBX215H38P			17.7	60.4	3.33	11.4	21.5	73.4	3.33	11.4	A
			C-SB453H8A	80986088		17.7	60.4	3.26	11.1	21.5	73.4	3.24	11.1	A
			C-SB453H8G	80986688		17.7	60.4	3.26	11.1	21.5	73.4	3.24	11.1	At
	7	110.2	C-SBR235H38A			19.2	65.6	3.20	10.9	23.2	79.2	3.27	11.2	A
			C-SBR235H38B			19.2	65.6	3.20	10.9	23.2	79.2	3.27	11.2	At

R22

C-SC Series

50Hz, 380-415V / 60Hz 440-460V

Phase	OutPut	Displacement	Compressor Model	Compressor Code	Starting Method	50Hz				60Hz				Outline Graph Code
						Capacity		COP		Capacity		COP		
	HP	cm³/rev				kW	kBTU/h	W/W	BTU/Wh	kW	kBTU/h	W/W	BTU/Wh	
3	7.7	131.9	C-SC583H8H	80928488		23.6	80.6	3.30	11.3	28.5	97.3	3.26	11.1	D
			C-SC583H8K	80928688		23.6	80.6	3.30	11.3	28.5	97.3	3.26	11.1	Dt
	8	137.0	C-SC603H8H	80928188		24.5	83.6	3.31	11.3	29.6	101.1	3.29	11.2	D
			C-SC603H8K	80928388		24.5	83.6	3.31	11.3	29.6	101.1	3.29	11.2	Dt
	9	148.8	C-SC673H8H	80929188		26.5	90.5	3.29	11.2	32.0	109.3	3.27	11.2	D
			C-SC673H8K	80929388		26.5	90.5	3.29	11.2	32.0	109.3	3.27	11.2	Dt
	10	171.2	C-SC753H8H	80920188		30.6	104.5	3.38	11.5	36.9	126.0	3.32	11.3	E
			C-SC753H8K	80920388		30.6	104.5	3.38	11.5	36.9	126.0	3.32	11.3	Et
			C-SC753H8T	80920588		30.6	104.5	3.38	11.5	36.9	126.0	3.32	11.3	Ht
	11.4	194.9	C-SCX435H38B			36.1	123.2	3.47	11.8	42.1	143.8	3.45	11.8	M
	11.6	199.1	C-SC863H8H	80922488		35.2	120.2	3.32	11.3					E
	12	205.4	C-SC903H8H	80922188		36.1	123.3	3.31	11.3					E
			C-SC903H8K	80922388		36.1	123.3	3.31	11.3					Et
			C-SC903H8T	80922588		36.1	123.3	3.31	11.3					Ht

Heating Condition: Condensing Temperature54.4℃ , Evaporating Temperature7.2℃ , Sub Cooling8.3K, Superheat11.1K.

Panasonic

R410A



C-SC Series

50Hz, 380-415V / 60Hz 440-460V

Phase	OutPut	Displacement	Compressor Model	Compressor Code	Starting Method	50Hz				60Hz				Outline Graph Code
						Capacity		COP		Capacity		COP		
	HP	cm^3/rev				kW	kBTU/h	W/W	BTU/Wh	kW	kBTU/h	W/W	BTU/Wh	
3	8	89.2	C-SCP270H38A			22.8	77.8	3.14	10.7	27.6	94.2	3.15	10.8	E
			C-SCP270H38B			22.8	77.8	3.14	10.7	27.6	94.2	3.15	10.8	Et
	10	104.1	C-SCP315H38A			26.4	90.1	3.16	10.8	31.9	108.8	3.16	10.8	E
			C-SCP315H38B			26.4	90.1	3.16	10.8	31.9	108.8	3.16	10.8	Et
			C-SCP315H38M			26.1	89.0	3.18	10.9					N
	11	120.2	C-SCP360H38A			30.3	103.4	3.14	10.7	36.6	124.9	3.16	10.8	E
			C-SCP360H38B			30.3	103.4	3.14	10.7	36.6	124.9	3.16	10.8	Et
		120.3	C-SCP360H38M			31.5	107.5	3.21	11.0					N
	12	127.8	C-SCP400H38M			32.6	111.2	3.20	10.9	39.4	134.4	3.20	10.9	M
		131.9	C-SCP400H38A			32.8	111.9	3.01	10.3					E
			C-SCP400H38B			33.0	111.9	3.01	10.3					Et
	13	148.8	C-SCP435H38B			37.2	127.0	3.15	10.8	44.6	152.3	3.16	10.8	Ft
	15	171.2	C-SCP510H38B			43.9	149.9	3.18	10.9	53.5	182.7	3.20	10.9	Lt

C-SC Series

60Hz, 208-230V

Phase	OutPut	Displacement	Compressor Model	Compressor Code	Starting Method	60Hz				Outline Graph Code
						Capacity		COP		
	HP	cm^3/rev				kW	kBTU/h	W/W	BTU/Wh	
3	8	89.2	C-SCP270H36A			27.5	93.8	3.10	10.6	P
			C-SCP270H36B			27.5	93.8	3.10	10.6	Pt
	10	104.1	C-SCP315H36A			32.2	109.9	3.13	10.7	N
			C-SCP315H36B			32.2	109.9	3.13	10.7	Nt
	11	120.2	C-SCP360H36A			36.6	124.9	3.13	10.7	N
			C-SCP360H36B			36.6	124.9	3.13	10.7	Nt
	12	131.9	C-SCP400H36A			40.3	137.5	3.12	10.6	N
			C-SCP400H36B			40.3	137.5	3.12	10.6	Nt
	13	148.8	C-SCP435H36B			43.5	148.4	3.10	10.6	Ft
	15	171.2	C-SCP510H36B			54.0	184.2	3.10	10.6	Lt

C-SC Series

60Hz, 208-230V

Phase	OutPut	Displacement	Compressor Model	Compressor Code	Starting Method	60Hz				Outline Graph Code
						Capacity		COP		
	HP	cm^3/rev				kW	kBTU/h	W/W	BTU/Wh	
3	8	89.2	C-SCP270H39A			27.6	94.2	3.14	10.7	P
			C-SCP270H39B			27.6	94.2	3.14	10.7	Pt
	10	104.1	C-SCP315H39A			32.3	110.2	3.17	10.8	N
			C-SCP315H39B			32.3	110.2	3.17	10.8	Nt
	11	120.2	C-SCP360H39A			36.8	125.6	3.15	10.7	N
			C-SCP360H39B			36.8	125.6	3.15	10.7	Nt
	12	131.9	C-SCP400H39A			40.4	137.8	3.16	10.8	N
			C-SCP400H39B			40.4	137.8	3.16	10.8	Nt
	13	148.8	C-SCP435H39B			43.5	148.4	3.13	10.7	Ft
	15	171.2	C-SCP510H39B			54.0	184.2	3.15	10.7	Lt

Heating Condition: Condensing Temperature54.4℃ , Evaporating Temperature7.2℃ , Sub Cooling8.3K, Superheat11.1K.

DAIKIN

R22



Scroll Series

50Hz, 380V / 50Hz, 220-240V

Refrigerant	Power Sourse	Model	Capacity		Input Power	COP	Running Capacitor
			W	Btu/H	W	W/W	μF/V
R22	380V / 50HZ 3PH	JT95GABY1L	9070	30900	2670	3.40	
		JT125BCBY1L	11900	40600	3800	3.13	
		JT160BCBY1L	15000	51200	4660	3.22	
		JT170GABY1L	15600	53200	4590	3.40	
		JT300D-Y1L	29600	102000	8940	3.31	
		JT335D-Y1L	33700	116000	10080	3.34	
R410A	220V / 50HZ 1PH	JT90G-P8V1N	8540	29100	2950	2.89	70 /420
		JT125G-P8V1	11800	40300	4080	2.89	70 /420
	380V / 50HZ 3PH	JT90G-P8Y1	8540	29100	2840	3.00	
		JT125G-P8Y1	11800	40300	3930	3.00	
		JT160G-P8Y1	14930	50900	4880	3.06	

HITACHI

R22



Scroll Series

50Hz, 346-380V / 60Hz 380-400V

Model	cm^3/rev	Cooling Capacity			Input power
		btu/h	kcal/h	watts	
303DH-47C1 (2)	47	29500	7440	8650	2790
303DH-50C1 (2)	50	32220	8130	9450	2900
353DH-56C1 (2)	56	35460	8940	10400	3200
403DH-64C1 (2)	64	40240	10150	11800	3600
453DH-72C1 (2)	72	46040	11610	13500	4000
503DH-80C1 (2)	80	50800	12810	14900	4400
503DH-83C1 (2)	83	52510	13240	15400	4550
603DH-90C1 (2)	90	57290	14450	16800	5000

* The above models are part of essential models, for more products, please contact salesperson.

PROFESSIONAL R&D, MANUFACTURE
AND SALES OF REFRIGERATION
MACHINEYR

布里斯托 BESTCOPCO

R22

Piston Series

220/240-1 Phase



Model	@45/130					@45/100			Electrical data			Displacement	
	Capacity	Motor input watts		EER/COP		Capacity	Motor input watts	EER					
	btu/h watts			btu/h	W/W	btu/h		btu/wh	RLA	LRA	MCC	INVREV	CMVREV
H24B15QABH	12500	3668	1500	8.3	2.4	17142	1269	13.5	7.5	43	12.3	1.84	30.14
H24B17QABH	13800	4049	1630	8.5	2.5	19297	1377	14.0	8.6	43	13.6	1.98	32.43
H24B19QABK	15300	4489	1800	8.5	2.5	20409	1483	13.8	9.2	47	14.0	2.12	34.73
H24B20QABK	16600	4871	1870	8.9	2.6	21765	1545	14.1	9.4	51	14.2	2.26	37.02
H24B22QABH	18200	5340	2065	8.8	2.6	23752	1704	13.9	10.6	52	17.3	2.53	41.44
H24B24QABH	19900	5839	2190	9.1	2.7	25625	1800	14.2	10.3	60	17.8	2.69	44.06
H24B26QABH	21600	6338	2380	9.1	2.7	27745	1990	13.9	12.4	66	17.3	2.97	48.65
H24B28QABH	23300	6837	2550	9.1	2.7	29997	2123	14.1	13.5	75	20.0	3.15	51.60
H24B29QABH	24250	7115	2700	9	2.6	31241	2216	14.1	13.3	75	22.0	3.29	53.89
H24B31QABH	25800	7570	2830	9.1	2.7	33161	2366	14.0	13.3	72	22.0	3.42	56.02

布里斯托 BESTCOPCO

R22

Piston Series

380/415-3 Phase



Model	@45/130					@45/100			Electrical data			Displacement	
	Capacity	Motor input watts		EER/COP		Capacity	Motor input watts	EER					
	btu/h watts			btu/h	W/W	btu/h		btu/wh	RLA	LRA	MCC	INVREV	CMVREV
H2NG184DPE	147200	43192	14250	10.3	3.0	203697	11861	17.2	26.0	125	40	20.44	334.81
H2NG204FRE	173680	50961	16770	10.4	3.0	233895	13773	17.0	30.0	150	49	23.26	381.00
H2NG244FRE	199850	58640	20220	9.9	2.9	261705	16843	15.5	36.5	190	56	29.80	438.98
H2NG294FRE	238000	69834	25300	9.4	2.8	312204	20968	14.9	44.0	215	69	31.02	508.11

* Data subject to revision.

Panasonic

R22

Rotary Series

50Hz, 220V / 50Hz, 380V / 60Hz, 220V / 60Hz, 208-230V



Refrigerant	Power sourse	Model	Capacity		Input power	COP	Running capacitor
			W	Btu/h	W	W/W	μF/V
R22	220V/50HZ	2P17S225ANQ	2770	9451	885	3.13	30/370
		2K22S225BUA	3838	13095	1230	3.12	35/370
		2V32S225AUA	5375	18340	1700	3.16	60/370
		2V47W225AUA	8355	28507	2680	3.12	60/400
	380V/50HZ	2P17S385AUA	2800	9555	905	3.094	
		2K22S385AUA	3845	13120	1275	3.016	
		2V47W385AUA	8235	28098	2555	3.22	
	220V/60HZ (T3)	2K28C226AUC	6055	20660	2000	3.03	50/370
	220V/60HZ (T3)	2V36S226AUD	7450	25419	2395	3.11	50/40030/370
R410A	220V/50HZ	5PS102EAA22	2410	8222	835	2.886	30/370
		5KS146EAA21	3480	11874	1235	2.818	35/370
		5VS295EAA21	7160	24429	2440	2.934	60/400
	115V/60HZ	5RS080UAA21	2250	7677	790	2.848	35/250
		5PS118UBA21	3450	11771	1190	2.899	50/250
	208-230V/60HZ	5RS080FBA21	2265	7728	790	2.867	15/370
		5PS118FBA21	3430	11703	1180	2.907	30/330
		5KS170FBB21	5120	17468	1710	2.994	40/370
	220V/60HZ	5VS245HAA21	7600	25931	2550	2.98	50/370
R134A	220V/50HZ	6TS035DAA	372	1270	165	2.255	5/400
		6TD075EAA41	785	2678	306	2.57	10/400
		6PS174EAA21	1965	6687	645	3.05	30/370
		6KS250EAA21	2865	9775	890	3.22	30/370
		6VS355EAA21	4300	146715	1350	3.185	65/370
DC INVERTER							
R134A	T	6TD075XAA41	995	3395	365	2.73	
R140A	R	5RS102ZAA01	2630	8973	980	2.68	
	K	5KD240ZFA21-CA	7140	24362	2420	2.95	
	Horizontal vehicle type	5VL420ZAA21	12500	42652	4200	2.976	
		C650U5VZAAC2	19800	67560	6500	3.046	
	V	5VD420ZAA21-CG	13200	45038	4217	3.13	
	EVI	H420D5VZAAJ2	13630	46506	4490	3.036	
		H550D5VZAAJ2	17965	61297	5620	3.197	
		H650D5VZAAJ2	21410	73051	6660	3.215	
R32	R	9RS102XB	2915	9946	981	2.97	
C02	C	8CS044ZAB64	3180	10850	1318	2.412	

LG

Rotary Series

60Hz, 208-230V / 50Hz, 220-240V / 50Hz, 380-420V



Refrigerant	Power sourse	Model	Capacity		Input power	COP	Running capacitor
			W	Btu/h	W	W/W	μF/V
R22	208-230V/60HZ	QK134K	2740	9350	874	3.14	25/370
		QVS308K	6624	22600	2020	3.28	55/400
	220-240V/50HZ	QA075P	1205	4110	410	2.94	15/370
		QA114PCE	1896	6468	625	3.03	30/370
		QA125PAF	2081	7100	670	3.11	30/370
		QKS164PMB	2696	9200	844	3.19	35/370
		QK222PFA	3883	13250	1275	3.05	35/400
		QV380PMA	5334	18200	1800	2.96	50/400
		QP407PAA	7063	24100	2317	3.05	60/400
	220V 50HZ(EVI)	HSBA052P	16650	56800	4080	4.08	80/440
	3Ph 380-420v 50HZ	SBA052Y	12447	42500	3820	3.26	
		SBA061Y	14418	50700	4392	3.28	
R410A	208-230V/60HZ	GKS094K	2667	9100	919	2.90	35/370
		GVS240K	6960	23750	2318	3.00	55/400

GMCC

R22

Rotary Series



50Hz, 220/240V-1 Phase

Typical model	Displacement	Cooling capacity		Power	COP	Capacitor	Compressor height	Discharge pipe Diam	Suction pipe Diam
	CC	W	Btu/h	W	W/W	μFN	mm	mm	mm
HSM165V1UFZ	16.4	2845	9707	870	3.27	30/370	292	8.1	12.9
HSM165V3UDZ	16.4	2855	9741	915	3.12	30/370	292	8.1	9.8
HSM215V4UFTA	21.4	3700	2624	1140	3.25	40/370	300	8.1	12.9
PH225M2A-4FT	22.4	3915	13358	1265	3.09	35/400	314	8.2	12.9
PH300G2C-4KU1	29.8	5340	18220	1645	3.25	55/400	297	9.8	12.9
PH310G2C-4KUA	30.8	5440	1856	1635	3.33	55/400	310	9.8	12.9
PH330G2C-4KU	32.8	5845	19943	1745	3.35	60/400	324	9.8	12.9
PH340G2C-4KU	33.7	6050	20643	1805	3.35	60/400	324	9.8	12.9
PH360G2C-4MU1	36.0	6475	22093	2005	3.23	50/400	324	9.8	16.2
PH370G2CS-4MU1	37.0	6650	22690	2065	3.22	50/400	324	9.8	16.2
PH400G2CS-4MU1	39.8	7100	24225	2255	3.15	50/400	354	9.8	16.2
PH420G2CS-4KU1	42.3	7420	25317	2390	3.10	50/400	354	9.8	12.9
PH440G2CS-4MU	43.5	7810	26648	2390	3.27	50/400	354	9.8	16.2

GMCC

R410A

Rotary Series



50Hz, 220/240V-1 Phase

Typical model	Displacement	Cooling capacity		Power	COP	Capacitor	Compressor height	Discharge pipe Diam	Suction pipe Diam
	CC	W	Btu/h	W	W/W	μFN	mm	mm	mm
ASM103V11VDZ	10.3	2900	9895	675	4.30	25/370	292	8.1	9.8
ASM125V1VFT	12.5	3610	12317	845	4.27	35/370	292	8.1	12.9
ASM130V1VDZ	13.0	3760	12829	885	4.25	35/370	292	8.1	9.8
PA150M2A-4FTL	15.0	4300	14672	1025	4.20	35/370	300	8.1	12.9
PA190M2A-4EUL1	18.9	5480	18698	1290	4.25	45/370	325	8.1	12.9
PA200M2A-4EUL	19.9	5760	19653	1405	4.10	50/370	325	8.1	12.9
PA205M2AS-4MUL	20.4	5965	20353	1420	4.20	50/370	345	9.8	16.2
PA231G2C-4MUL	23.1	6760	23065	1565	4.32	50/400	345	9.8	16.2
PA250G2CS-4MUL	25.1	7315	24959	1695	4.32	50/400	345	9.8	16.2
PA270G2CS-4MUL1	27.0	7845	26767	1805	4.35	60/400	345	9.8	16.2
PA280G2CS-4MUL	27.9	8165	27859	1898	4.30	60/400	345	9.8	16.2
PA290G2CS-4MUL	28.7	8485	28951	1975	4.30	60/400	345	9.8	16.2

* Test Condition: GX

Tecumseh

Piston Series



50Hz, 380V-3 Phase / 50Hz, 220-240V-1 Phase

Model	Refrigerant oil	Nominal cooling capacity	Nominal horsepower	Voltage	Weight
		W	HP	V	Kg
FH4524F	R22/R404	5770	2	220V/1PH/50HZ	
FH5524F-A	R22/R404	5770	2	220V/1PH/50HZ	
FH4528F	R22/R404	7050	2.5	220V/1PH/50HZ	
FH5528FA	R22/R404	7050	2.5	220V/1PH/50HZ	
FH4531F	R22/R404	7900	3	220V/1PH/50HZ	
FH5531F-A	R22/R404	7900	3	220V/1PH/50HZ	
FH4535F	R22/R404	8500	3	220V/1PH/50HZ	
FH5535FA	R22/R404	8500	3	220V/1PH/50HZ	
TFH4524F	R22/R404	5770	2	380V/3PH/50HZ	
TFH5524FA	R22/R404	5770	2	380V/3PH/50HZ	34.7Kg
TFH4528F	R22/R404	7050	2.5	380V/3PH/50HZ	
TFH5528F-A	R22/R404	7050	2.5	380V/3PH/50HZ	
TFH4531F	R22/R404	7900	3	380V/3PH/50HZ	
TFH5531F-A	R22/R404	7900	3	380V/3PH/50HZ	
TFH4535F	R22/R404	8500	3	380V/3PH/50HZ	
TFH5535F-A-A	R22/R404	8500	3	380V/3PH/50HZ	
TFH4540F	R22/R404	9860	3.5	380V/3PH/50HZ	
TFH5540F-A	R22/R404	9860	3.5	380V/3PH/50HZ	
TAG4546T	R22/R404	11250	4	380V/3PH/50HZ	
TAG5546T-A	R22/R404	11250	4	380V/3PH/50HZ	
TAG4561T	R22/R404	14900	5	380V/3PH/50HZ	
TAG5561T-A	R22/R404	1490o	5	380V/3PH/50HZ	47.41Kg
TAG4568T	R22/R404	16640	6	380V/3PH/50HZ	
TAG5568	R22/R404	16640	6	380V/3PH/50HZ	
TATAG4573T	R22/R404	17800	7	380V/3PH/50HZ	
TAG5573T-A	R22/R404	17800	7	380V/3PH/50HZ	

* The mantissa " F " and " T " refer to R22 refrigerant. The mantissa " Z " represents R404 refrigerant.
Comparison Table of Low Temperature Totally Enclosed Refrigeration Compressor (Model).

Model	Refrigerant oil	Nominal cooling capacity	Nominal horsepower	Voltage
		W	HP	V
FH2464Z	R404A	2180	2.5	220V/1PH/50HZ
FH2480Z	R404A	2760	3	220V/1PH/50HZ
TFH24642	R404A	2180	2.5	380V/3PH/50HZ
TFH2480Z	R404A	2760	3	380V/3PH/50HZ
TFH2511Z	R404A	3135	3.5	380V/3PH/50HZ
TAG2516Z	R404A	4350	5	380V/3PH/50HZ
TAG2522Z	R404A	5520	7	380V/3PH/50HZ
FH2464Z-A	R404A	2180	2.5	380V/3PH/50HZ
FH2480ZA	R404A	2760	3	380V/3PH/50HZ
TFH2464Z-A	R404A	2180	2.5	380V/3PH/50HZ
TFH2480Z-A	R404A	2760	3	380V/3PH/50HZ
TFH2511Z-A	R404A	3135	3.5	380V/3PH/50HZ
TAG2516Z-A	R404A	4350	5	380V/3PH/50HZ
TAG2522Z-A	R404A	5520	7	380V/3PH/50HZ

* 1. The "A" after the compressor model represents the welding interface, and the model without "A" represents the threaded interface. 2.
All models of compressors have special power supply 220V/3PH/60Hz for other countries; 380V460V/3PH60HZ.

SECOP



Compressor Series

50Hz, 220/240V-1 Phase

Application		Compressor model	Code No.	Evaporating temperature℃ -45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	15	Displacement cm³	Motor size W	Motor type	Norm HP
R134a	LBP	FR7.5F	103G6750			74	97	133	182	243	317						6.93	150	RSI/CSIR	1/5
		FR8.5F	103G6850			80	110	153	208	276	357						7.95	175	RSIR/CSIR	1/5
		FR10F	103G6950			101	127	170	229	306	399						9.05	215	RSIR/CSIR	1/4
		SC15F	104G8500			123	191	283	400	541	707						15.28	315	RSIR/CSIR	3/8
		SC18F	104G8800			159	238	345	478	638	825	1039					17.69	385	CSIR	3/8
		SC21F	104G8100			228	302	412	560	750	960	1220					20.95	495	CSIR	1/2
	LBP / HBP	FR6G	103G6660				62	101	149	208	279	361	457	566	689		6.23	150	RSIR/CSIR	1/5
		FR7.5G	103G6680				81	122	176	243	322	414	519	693	768		6.93	175	RSIR/CSIR	1/4
		FR8.5G	103G6780				103	152	212	284	370	471	586	718	866		7.95	215	RSIR/CSIR	1/4
		FR10G	1033G6880				114	168	232	308	399	507	636	787	964		9.05	275	RSIR/CSIR	3/8
		FR11G	103G6980				141	209	287	378	487	619	777	966			11.15	275	RSIR/CSIR	3/8
		SC10G	104G8000			29	74	139	225	331	456	600	764	946	1147	1367	10.29	250	RSIR/CSIR	3/8
		SC12G	104G8240			97	141	215	317	444	596	772	960	1188	1426	1682	12.87	315	RSIR/CSIR	3/8
		SC15G	104G8520			112	181	275	396	542	714	910	1132	1378	1649	1945	15.28	385	CSIR	1/2
		SC18G	104G8820			144	236	348	485	649	844	1074	1343	1655	2014	2423	17.69	495	CSIR	5/8
		SC21G	104G8140			231	301	410	558	746	977	1250	1568	1931	2303	2803	20.95	550	CSIR	3/4
R404A / R507	LBP	FR6CL	103U2670	90	125	168	220	283	358	447	553	676					3.23	215	CSIR	1/3
		FR8.5CL	103U2890	115	147	195	259	338	434	546	674						7.95	275	CSIR	3/8
		SC10CL	104L2523			185	280	397	535	694	875	1077					10.29	315	CSIR	1/2
		SC12L	104L2623	87	172	278	405	553	722	912	1123	1356					12.87	385	CSIR	5/8
		SC15CL	104L2853	151	245	364	510	681	878	1101	1350	1625					15.28	495	CSIR	3/4
		SC18CL	104L2123	193	305	444	611	805	1027	1277	1556	1863					17.69	495	CSR	
		SC21CL	104L2322	263	378	529	719	947	1215	1524	1876						20.95	590	CSR	1/4
	HBP	FR6DL	103U2680						370	449	550	673	818	986	1176	1389	6.23	275	CSIR	3/8
		SC10DL	104L2525						569	726	914	1134	1386	1670	1988		10.29	385	CSIR	1/2
		SC12DL	104L2625						659	861	1100	1375	1687	2036	2422		12.87	495	CSIR	7/8
		SC15DL	104L2856						796	1054	1345	1669	2028	2421	2849		15.28	550	CSR	1
R134a	LBP / MBP	BD35F	101Z0200	2000rpm			19.5	29.4	40.7	54.0	69.8	111	137				2.00		Variabe speed	
				2500rpm			24.9	36.8	50.7	67.3	87.1	139	172							
				3000rpm			27.7	39.9	55.9	76.1	101	164								
				3500rpm			32.2	44.2	62.2	86.0	115									
		BD50F	101Z1220	2000rpm			24.7	38.3	52.9	69.5	89.3	143	178	221			2.50			
				2500rpm			33.3	48.1	65	85.1	110	178	224							
				3000rpm			38.2	56.0	75.9	100	129	212								
				3500rpm			47.0	65.7	88.7	117	153									

Application	Compressor model	Code No.	Capacity watt evaposrating temperature ℃ -45	-40	-35	-30	-25	-20	Displacement cm³	Motor size W	Motor type	Norm HP

Bitzer



Bitzer Series

50Hz, 220-240V / 60Hz, 380-420V / 460V

Refrigerant oil	Hiusing size	Motor version	Displacement 1450 min-1 m³/h	Number of cylinders	Refrigerating capacity Q. R1234yf 5℃ /50℃ W	R1234yf -10℃ /50℃ W	R1454C -10℃ /50℃ W	R1454C -35℃ /40℃ W	Oil charge dm³	weight kg	Maximum operating current ① A ▲ /Y	Maximum power consumption ① kW
2KES-05(Y)	1	1	4.06	2	1870	1030	1500	310	1.0	46	4.9/2.8	1.5
2JES-07(Y)	1	1	5.21	2	2390	1320	2020	480	1.0	47	6.4/3.7	1.9
2HES-1(Y)	1	2	6.51	2	3160	1B40	2600	640	1.0	47	6.6/38	2.0
2HES-2(Y)	1	1	6.51	2	3140	1830	2600	640	1.0	49	7.8 / 4.5	2.4
2GE5-2(Y)	1	1	7.58	2	3690	2170	3060	780	1.0	49	8.7/5.0	2.7
2FES-2(Y)	1	2	9.54	2	4470	2590	3880	1000	1.0	49	9.2/5.3	2.9
2FES-3(Y)	1	1	9.54	2	4550	2690	3880	1000	1.0	50	10.6/6.1	3.4
2EES-2(Y)	2	2	11.4	2	5760	3340	4860	1290	1.5	74	10.4/6.0	3.3
2EES-3(Y)	2	1	11.4	2	5750	3340	4860	1290	1.5	77	13.0/7.5	3.8
2DES-2(Y)	2	2	13.4	2	6670	3890	5650	1550	1.5	73	13.0/7.5	4.0
2DES-3(Y)	2	1	13.4	2	6670	3890	5650	1550	1.5	73	15.0/8.6	4.6
2DES-4(Y)	2	2	16.2	2	8460	4980	7200	1551	1.5	76	15.8/9.1	5.0
2CES-4(Y)	2	1	16.2	2	8460	4980	7200	2070	1.5	76	17.4/0.0	5.6
4FES-3(Y)	3	2	18.1	4	8980	5140	7890	2230	2.0	90	16.5/9.5	5.3
4FES-5(Y)	3	1	18.1	4	8980	5140	7890	2230	2.0	75	18.0/10.8	5.8
4EES-4(Y)	3	2	22.7	4	11450	6800	9890	2770	2.0	73	21.1/12.2	6.9
4EES-6(Y)	3	1	22.7	4	11450	6800	9890	2770	2.0	75	23.7/13.6	7.6
4DES-5(Y)	3	2	26.8	4	13220	7650	11270	3130	2.0	74	25.5/14.5	8.1
4DES-7(Y)	3	1	26.8	4	13220	7650	11270	3130	2.0	100	28.7/16.5	8.9
4CES-6(Y)	3	2	32.5	4	16770	9790	14380	4160	2.0	99	30.8/17.7	9.7
4CES-9(Y)	3	1	32.5	4	16770	9790	14380	4160	2.0	99	35.1/ 20.2	11.3
4BES-9(Y)	3	2	36.1	4	18440	10760	15800	4550	2.0	99	131.3/18.0	12.3
											pw	
4VE(S)-7(Y)	4	2	34.7	4	17750	10240	14330	3580	2.6	142(139)	16.6	11
4VE(S)-10(Y)	4	1	34.7	4	17470	10010	14600	3520	2.6	149(146)	19.9	12
4TE(S)-9(Y)	4	2	41.3	4	21400	12470	17500	4560	2.6	144(143)	19.9	13
4TE(S)-12(Y)	4	1	41.3	4	21100	12180	17230	4450	2.6	148(147)	251	14
4PE(S)-12(Y)	4	2	40.5	4	24600	14080	19880	4910	2.6	147(145)	22.7	17
4PE(S)-15(Y)	4	1	48.5	4	24200	13770	19490	4740	2.6	156(153)	28.2	19
4NE(S)-14(Y)	4	2	58.2	4	29000	16770	23800	6210	2.6	155(146)	26.6	17
4NE(S)-20(Y)	4	1	58.2	4	28800	16630	23500	6100	2.6	159(157)	33.2	19
4JE-15(Y)	5	2	63.5	4	32800	19420	27600	7520	4.0	192	30.8	19
4JE-22(Y)	5	1	63.5	4	32300	18970	28500	6850	4.0	192	37.2	21
4HE-18(Y)	5	2	73.7	4	38400	3100	32400	9070	4.0	191	36.7	22
4HE-25(Y)	5	1	73.7	4	38400	22700	31400	8490	4.0	207	44.0	25
4E-23(Y)	5	2	84.6	4	43300	25900	17600	10850	4.5	196	43.9	27
4GE-30(Y)	5	1	84.6	4	44800	26500	16100	9940	4.5	209	51.2	28
4FE-28(Y)	5	2	101.8	4	53500	31900	44500	13040	4.5	207	52.8	31
4FE-35(Y)	5	1	101.8	4	52600	31100	43500	12440	4.5	207	621	35
6JE-25(Y)	6	2	95.3	4	48600	28400	41100	11240	4.75	2364	46.4	27
6JE-33(Y)	6	1	95.3	6	49200	28600	39200	10100	4.75	244	53.2	30
6HE-28(Y)	6	2	110.5	6	57300	33800	47600	13400	4.75	233	53.2	33
6HE-35(Y)	6	1	110.5	6	56600	33100	46100	12530	4.8	241	64.4	36
6GE-34(Y)	6	2	126.8	6	65300	38900	55600	16610	4.75	230	65.5	40
6GE-40(Y)	6	1	126.8	6	65600	38900	52600	14680	4.75	240	73.9	42
6FE-44(Y)	6	2	151.6	6	78700	47100	66800	19540	4.75	244	83.2	46
6FE-50(Y)	6	1	151.6	6	77400	45900	64300	18000	4.75	246	96.2	51
8GE-50(Y)	8	2	185	6	89600	52900			5.0	342	92.0	51
8GE-60(Y)	8	1	185	8	89600	52900	74400		5.0	352	113	63
8FE-60(Y)	8	2	221	8	105000	62500			5.0	361	113	63
8FE-70M(Y)	8	1	221	8	105000	62500	88000		5.0	363	139	78

embraco

Embraco Series

50Hz, 220/240V-1 Phase



Model		HP	VOLTAGE	-23,3℃ / 54,4℃		KG
				COOLING W	EFFICIENCY W/W	
NEK2134GK	R404A	1/2	220V-240V 50Hz 1~	464	1.3	11.6
NEK2150GK	R404A	3/4	220V-240V 50Hz 1~	616	1.24	11.6
NEK2168GK	R404A	3/4	220V-240V 50Hz 1~	707	1.28	11.6
NEK6210GK	R404A	1/2	220V-240V 50Hz 1~	1304	2.07	11.0
NEK6213GK	R404A	1/2	220V-240V 50Hz 1~	1761	1.85	11.6
NEK6217GK	R404A	1/2	220V-240V 50Hz 1~	2075	2.05	16.7
NEU2140GK	R404A	1/2	220V-240V 50Hz 1	486	1.36	10.6
NEU2178GK	R404A	1	220V-240V 50Hz 1	914	1.42	11.6
NEU6215GK	R404A	3/4	220V-240V 50Hz 1	1862	1.92	11.5
NEU6220GK			220V-240V 50Hz 1	2270	2.17	11.5

embraco

Embraco Series

50Hz, 220/240V-1 Phase



Model		HP	VOLTAGE	-23,3℃ / 54,4℃		KG
				COOLING W	EFFICIENCY W/W	
NT2178GK	R404A	3/4	220V-240V 50Hz 1~	802	1.42	17.0
NT2180GK	R404A	3/4	220V-240V 50Hz 1~	935	1.25	17.4
NT2192GK	R404A	3/4	220V-240V 50Hz 1~	1053	1.30	17.5
NT2212GK	R404A	1 1/2	220V-240V 50Hz 1~	1373	1.37	18.3
NT6220GK	R404A	3/4	200V-240V 50Hz 1~	2119	2.21	17.0
NT6222GK	R404A	3/4	220V-240V 50Hz 1~	2482	2.02	17.2
NT6224GK	R404A	1	220V-240V 50Hz 1	3223	2.38	17.2
NT6215Z	R134A	1/2+	220V-240V 50Hz 1	1876	2.25	17.0
NT6217Z	R134A	3/4	220V-240V 50Hz 1	1863	2.31	17.0
NT6220Z	R134A	3/4	220V-240V 50Hz 1	2016	2.34	17.2
NTU6234GKV	R404A	1 1/4	220V-240V 50Hz 1	3835	2.80	18.4
NTU6238GKV	R404A	1 1/2	220V-240V 50Hz 1	4212	2.70	18.0
NTU6240GKV	R404A	1 1/2	220V-240V 50Hz 1	4458	2.66	18.4

embraco

Embraco Series

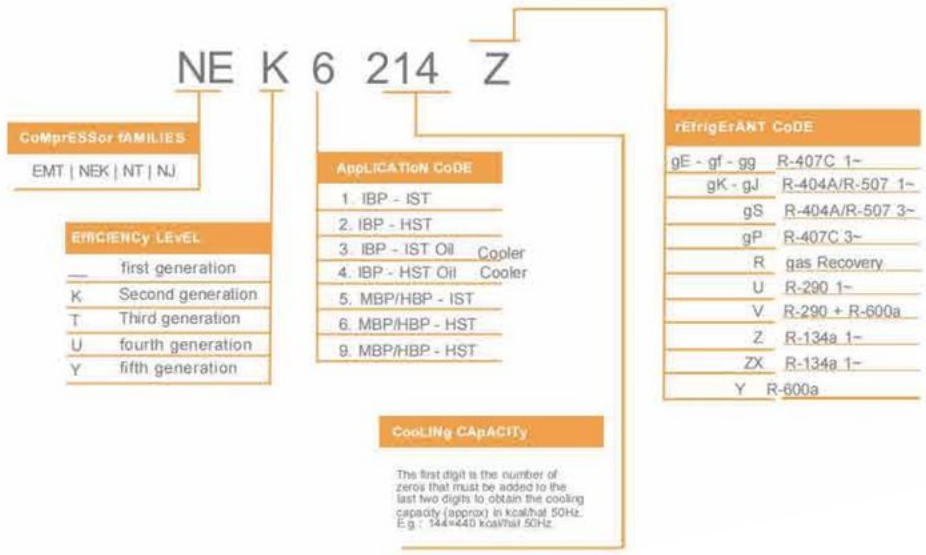
50Hz, 220/240V-1 Phase 50Hz, 380-420V-3 Phase



Model		HP	VOLTAGE	-23,3℃ / 54,4℃		KG
				COOLING W	EFFICIENCY W/W	
NJ2192GK		1 1/4	220V-240V 50Hz 1~	1126	1.32	22.0
NJ2192GJ		1 1/4	220V-240V 50Hz 1~	1196	1.26	22.0
NJ2212GK		1 1/2	220V-240V 50Hz 1~	1546	1.33	21.4
NJ2212GJ		1 1/2	220V-240V 50Hz 1~	1778	1.30	21.4
NJ9226GK		1+	200V-240V 50Hz 1~	3708	2.20	20.7
NJ9232GK		1 1/2	220V-240V 50Hz 1~	4030	2.56	21.6
NJ9238GK		1 1/2	220V-240V 50Hz 1	4620	2.09	22.1
NJ2192GS		1 1/4	380V-420V 50Hz 3~	1128	1.23	19.7
NJ2212GS		1 1/4	380V-420V 50Hz 3~	1481	1.30	20.4
NJ9226GS		1+	380V-420V 50Hz 3~	3248	2.5	19.0
NJ9232GS		1 1/2	380V-420V 50Hz 3~	4030	2.5	20.4
NJ9238GS		1 1/2	380V-420V 50Hz 3~	4839	2.55	21.7

* 1. Data referred to XS models.
2. Voltage tolerance± 10% .

EMT/NEK/NT/NJ



注意事项 MATTERS NEEDING ATTENTION

01

压缩机出厂前已注入适量的冷冻机油，适用中不应随意添加和倒出，也不应随意加入其他牌号的冷冻机油，否则会损坏压缩机。

Oil has been charged in the compressor,do not add or subtract . SUNISO 3GS is only been used.

02

压缩机对残余水分含量要求较高，故在将压缩机接入制冷系统前方可拔去各管口橡胶塞，并在 10 分钟内完成焊接 (装配)，以免水分进入压缩机而对整个制冷系统造成危害。

DON't open the compressor plugs more than 10 minutes before use to prevent moisture from getting into the compressor.

03

运行中的压缩机电机是由制冷介质 R404a/R22 冷却的，在缺少制冷介质的情况下不得运行压缩机。

The compressor's motor is cooled by refrigerant R404a/R22,don't operate compressor without refrigerant R404a/R22.

04

压缩机内部处于真空状态时严禁运行压缩机，否则内部弧形电流将损坏内部零件。

The compressor should not be operated under vacuum; otherwise,internal arcing can cause damage to parts.

05

压缩机运行停机后再次启动应间隔3 分钟以上。

Three minutes shut-off time should be ensurd at least until restarting.

06

压缩机应与水平地面保持垂直，最大安装斜角不大于5°。

The allowable incline should be less than 5 degree from vertical during opration.

07

制冷剂填充量应不大于 2.5 倍润滑油重量。

Max weight of refrigerant charge should be less than oil weight multiplied by 2.5.

08

制冷剂应从制冷系统的冷凝器的尾端注入，而不能直接注入压缩机。

Refrigerant should be chdrged from the end of condenser of refrigeration systems,never charge refrigerant to the compressor directly.

09

对于中温工况应用情况，压缩机前一般应配置适当体积的气液分离器，压缩机回气温度应保证不少于2.8℃(5°F)的过热度，以防液击的发生。

A suctin accumulator is normally required for the compressor being used on medium back-pressure condition.The return gas temperature must maintain 2.8℃(5°F) superheat above to prevent excessive liquid from entering compressor.

10

压缩机启动前应仔细检查接线是否正确，并注意引出线不得与压缩机表面接触。

Before starting the compressor,check the wiring.And the lead wires should not be touched on the surface of the compressor.