

Specifications:

Description	Condensing temp, °C	Evaporation Capacity kW					Power consumption, kW				
		Saturated Suction Temperature, °C					Saturated Suction Temperature, °C				
		-10	-5	0	5	10	-10	-5	0	5	10
CR-ACSM320Z CDU Semi-Hermetic	35	26.90	31.70	29.10	46.50		10.40	10.70	11.00	11.10	
	40	24.70	29.00	35.90	43.00		11.10	11.70	12.20	12.50	
	45	22.30	26.30	32.70	39.30		11.80	12.60	13.30	13.80	
	50	19.90	25.60	32.00	38.80		12.30	13.50	14.40	15.10	
	54.4	17.60	24.80	31.20	38.10		12.70	14.20	15.30	16.20	
CR-ACSM408Z Semi-Hermetic	35	35.76	45.33	56.58	69.69		12.95	14.10	15.07	15.83	
	40	32.07	40.93	51.38	63.61		13.65	15.06	16.30	17.83	
	45	28.39	36.51	46.14	57.47		14.17	15.83	17.36	18.73	
	50	24.67	32.04	40.81	51.22		14.42	16.33	18.14	19.83	
	54.4	21.33	27.99	35.99	45.55		14.35	16.50	18.56	20.53	
CR-ACSM634Z Semi-Hermetic	35	55.54	70.25	87.68	108.13		19.97	21.88	23.57	24.96	
	40	49.96	63.50	79.61	98.59		20.80	23.03	25.08	26.89	
	45	44.41	56.78	71.53	89.02		21.39	23.92	26.31	28.50	
	50	38.86	50.52	63.41	79.39		21.74	24.54	27.25	29.80	
	54.4	33.89	43.96	56.12	70.73		21.83	24.84	27.83	30.68	
Single Compressor Rack IPM1102SV-CDU Designation 47.6-DL Comp Rack Semi-Hermetic (1 x 06EM799)	35	79.51	93.71	110.24	129.44		28.18	29.37	30.46	31.99	
	40	72.07	85.50	101.17	119.44		30.21	31.92	33.61	35.82	
	45	63.71	76.29	91.01	108.26		31.84	34.20	36.62	39.64	
	50	54.43	66.04	80.00	95.84		32.73	35.87	39.16	43.12	
	54.4	45.39	56.05	68.68	83.72		32.63	36.59	40.76	45.66	

TECHNICAL DATA										
MODEL	Compressor Type	Fans Nos. x watt	Total Air flow, m³/hr	Receiver Liters	Connection, inches		Oil Charge	Product Dimm. (mm)	Net Weight (Kg)	
					Suction	Liquid				
CR-ATHM049Z	Hermetic Recip.	1 X 190	3827	X	5/8"	3/8"	1.14	975x400x690	62	
CR-AGRM050Z#	Rotary	1 X 190	3827	X	5/8"	3/8"	0.85	975x400x690	56	
CR-AHRM062Z	Rotary	1 X 190	3827	X	7/8"	3/8"	2.02	990x400x820	58	
CR-AEHM039Z	Hermetic Recip.	1 X 107	5100	X	5/8"	3/8"	1.30	975x400x690	60	
CR-AEHM072Z	Hermetic Recip.	1 X 107	5100	X	7/8"	3/8"	1.30	975x400x820	79	
CR-APCM086Z	Scroll	1 X 107	3828	X	7/8"	3/8"	1.70	975x400x820	70	
CR-AECM127U	Scroll	1 X 330	5803	X	7/8"	1/2"	1.66	975x400x820	88	
CR-ADCM130Z	Scroll	1 X 370	7225	7.4	7/8"	1/2"	1.57	1100x410x900	125	
CR-ADCM192Z	Scroll	1 X 470	11000	12.5	1"1/8	5/8"	3.25	1080x630x1100	183	
CR-APCM258Z	Scroll	2 X 330	11608	12.5	1"3/8	5/8"	2.80	1060x700x1274	160	
CR-ACSM320Z	Semi-Hermetic	2 X 710	16786	20.0	1"3/8	5/8"	3.63**	1750x1000x910	340	
CR-ACSM408Z	Semi-Hermetic	2 X 710	16786	20.0	2"1/8	5/8"	6.7**	1750x1100x910	390	
CR-ACSM634Z	Semi-Hermetic	4 X 710	33572	25.0	2"1/8	7/8"	9.0**	1750x1100x1300	500	

Note:-
Performance stated above are subject to ±7% variation.
CDU Capacity & CDU power consumption for Rotary Condensing Unit@ SST 0°C , Outdoor ambient temperature 43 °C, Subcooling 3K & Total Superheat 11K.
* Compressor Capacity for Hermetic Recip. & Scroll Condensing Unit @ SST 0°C , Condensing 50°C , Total Superheat 11K.
* Evaporation Capacity for Semi-Hermetic Condensing Unit @ SST 0°C , Condensing 50°C , Total Superheat 11K.
Relevant Compressor manufacturer selection Software used for Capacity Calculation.
This Condensing unit is only suitable for Evaporator having quick pressure balancing mechanism as Expansion Device e.g. Capillary etc.
** Condensing unit shipped without Oil charged in Compressor from factory
For Total power consumption add compressor and condenser fan power.
Details provided above are for information and are subject to change without notice.



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Doc.No:- CR-CC-DO046-03
Revision No:- 03

Total Commercial Refrigeration Solutions from the experts



MEDIUM TEMPERATURE CONDENSING UNITS



MAJOR APPLICATIONS: DAIRY PHARMA FRUITS & VEGETABLES FLORICULTURE

Air Cooled Refrigeration Condensing Units

With
HERMETIC RECIP. / SCROLL / SEMI-HERMETIC COMPRESSOR
Medium and Low Temperature : 50Hz



Features



ENVIRONMENT FRIENDLY

- CFC free R404a refrigerants for improving sustainability
- R-22 in select models



ECONOMICAL & CONVENIENT

- Sleek and enclosed design for reciprocating and scroll hermetic range
- Robust footprint for semi hermetic range
- Factory engineered product reducing field installation
- Flexibility for pump down to recover refrigerant
- Easy access for trouble shooting



RELIABLE

- Suction accumulator provided against liquid flood back in select models
- High/low pressure protection.
- Oil safety switch and oil separator for proper lubrication in select models



ENERGY EFFICIENCY

- Energy efficient semi hermetic Carlyle compressors
- Ergonomic design for hermetic range offering



ELECTRICAL SAFETY

- All safety interlocks installed and prewired at factory in select models
- MCB/Contactors for ease of installation as integrated control panel
- Voltage scanner with display for protection against voltage fluctuations and phase reversal in select models
- Phase sequence controller for protection against phase reversal in select models

Note: Check features availability in respective models

APPLICATIONS:

DAIRY

PHARMA

FRUITS &
VEGETABLES

FLORICULTURE

MANY MORE...

Model Description

CR - A C S L XX Z

Refrigerant Z - R404a , U - R410A

Capacity in kW / 10*

L low temperature, M Medium temperature

Compressor Type, S: Semi hermetic, C:Scroll, H:Hermetic recip, R: Rotary

Compressor make, C: Carlyle, D: Danfoss, E: Emerson, T: Tecumseh , P: Panasonic , H:Highly,G :Gree

Type of condenser A - Air cooled

Carrier Refrigeration

SELECTION DATA											
Description	Outdoor Ambient Temperature, °C	CDU Capacity, kW					CDU Power Consumption				
		Saturated Suction Temperature, °C					Saturated Suction Temperature, °C				
		-10	-5	0	5	10	-10	-5	0	5	10
CR-ATHM049Z NXG CDU Hermetic Recip	30	4.17	5.22	6.58	8.01	9.51	1.92	2.07	2.24	2.41	2.56
	35	3.73	4.72	5.91	7.32	8.84	1.98	2.15	2.33	2.52	2.70
	40	3.31	4.25	5.36	6.60	8.04	2.04	2.23	2.42	2.62	2.82
	43	3.08	3.95	4.95	6.15	7.53	2.07	2.27	2.47	2.67	2.88
	46	2.80	3.68	4.60	5.83	7.13	2.10	2.31	2.51	2.75	2.96
	30	4.20	5.10	5.80	6.20	-	2.22	2.31	2.35	2.30	-
#CR-AGRM050Z NXG CDU Rotary	35	3.90	4.80	5.60	6.30	-	2.34	2.45	2.54	2.56	-
	40	3.60	4.40	5.30	6.20	-	2.47	2.58	2.70	2.78	-
	43	3.30	4.10	5.00	5.80	-	2.54	2.66	2.79	2.90	-
	46	3.10	3.90	4.70	-	-	2.64	2.75	2.88	3.01	-
	30	5.86	7.30	8.69	10.33	12.23	2.35	-	2.56	2.67	2.82
	35	5.27	6.69	8.02	9.30	11.42	2.50	2.65	2.75	2.87	2.99
CR-AHRM062Z NXG CDU Rotary	40	4.44	5.48	6.60	7.71	10.17	2.67	-	2.96	3.08	3.24
	43	4.16	5.07	6.28	7.25	8.69	2.76	2.95	3.07	3.21	3.36
	46	3.91	4.76	5.70	6.78	8.28	2.90	-	3.20	3.36	3.50
Description	Condensing temp, °C	Compressor Capacity kW					Power consumption, kW				
		Saturated Suction Temperature, °C					Saturated Suction Temperature, °C				
		-10	-5	0	5	10	-10	-5	0	5	10
CR-AEHM039Z Hermetic Recip	35										
	40	2.85	3.92	5.00	5.98		1.16	1.30	1.42	1.50	
	45	2.41	3.39	4.41	5.40		1.18	1.34	1.48	1.59	
	50	2.03	2.90	3.86	4.82		1.22	1.40	1.55	1.68	
	55	1.69	2.43	3.30	4.22		1.25	1.44	1.61	1.77	
CR-AEHM072Z Hermetic Recip	35										
	40	5.64	7.23	9.21	11.45		2.17	2.38	2.54	2.64	
	45	4.82	6.29	8.15	10.25		2.27	2.51	2.72	2.86	
	50	4.15	5.50	7.21	9.16		2.34	2.63	2.88	3.07	
	55	3.56	4.78	6.34	8.12		2.37	2.71	3.01	3.25	
CR-APCM086Z SLK Scroll	35	7.59	9.34	11.51	14.18		2.74	2.81	2.88	2.96	
	40	6.87	8.46	10.44	12.89		2.99	3.08	3.16	3.25	
	45	6.20	7.66	9.47	11.71		3.27	3.37	3.46	3.56	
	50	5.60	6.93	8.59	10.64		3.58	3.68	3.79	3.90	
	55	5.06	6.28	7.79	9.68		3.91	4.02	4.14	4.26	
CR-AECM127U SLK Scroll	60	4.57	5.70	7.09	8.82		4.26	4.39	4.52	4.66	
	35	10.80	13.10	15.75	18.75		3.58	3.60	3.61	3.63	
	40	10.10	12.30	14.80	17.65		4.02	4.03	4.04	4.05	
	45	9.35	11.40	13.80	16.50		4.51	4.52	4.53	4.54	
	50	8.56	10.50	12.70	15.25		5.06	5.08	5.09	5.09	
CR-ADCM130Z SLK CDU Scroll With Flow Controls	55	-	9.51	11.55	13.95		-	5.71	5.73	5.73	
	60	-	-	10.35	12.50		-	-	6.45	6.45	
	65	-	-	-	10.95		-	-	-	7.27	
	35	11.57	14.10	17.03	20.40		3.85	3.85	3.86	3.87	
	40	10.60	12.99	15.75	18.94		4.33	4.33	4.33	4.34	
CR-ADCM192Z SLK Scroll	45	9.59	11.81	14.40	17.41		4.89	4.89	4.89	4.89	
	50	8.54	10.59	12.99	15.80		5.54	5.53	5.53	5.53	
	55	7.44	9.31	11.52	14.12		6.27	6.27	6.27	6.27	
	35	17.00	20.87	25.36	30.52		5.58	5.67	5.77	5.93	
	40	15.58	19.18	23.38	28.22		6.23	6.30	6.40	6.55	
CR-APCM258Z SLK Scroll	45	14.11	17.44	21.34	25.86		7.01	7.07	7.16	7.28	
	50	12.60	15.65	19.24	23.42		7.92	7.97	8.05	8.16	
	55	11.06	13.81	17.07	20.92		8.99	9.03	9.10	9.20	
	60	9.47	11.92	14.85	18.34		10.23	10.27	10.33	10.42	
	35	24.33	29.74	36.38	44.48		7.97	8.09	8.21	8.33	
	40	21.70	26.55	32.51	39.81		8.79	8.92	9.05	9.19	
	45	19.32	23.65	29.00	35.57		9.72	9.86	10.01	10.16	
	50	17.19	21.06	25.85	31.76		10.74	10.90	11.06	11.23	
	55	15.27	18.75	23.03	28.30		11.87	12.04	12.22	12.41	
	60	13.49	16.62	20.45	25.18		13.09	13.29	13.49	13.69	
	65	11.71	14.50	17.89	22.07		14.42	14.64	14.86	15.08	