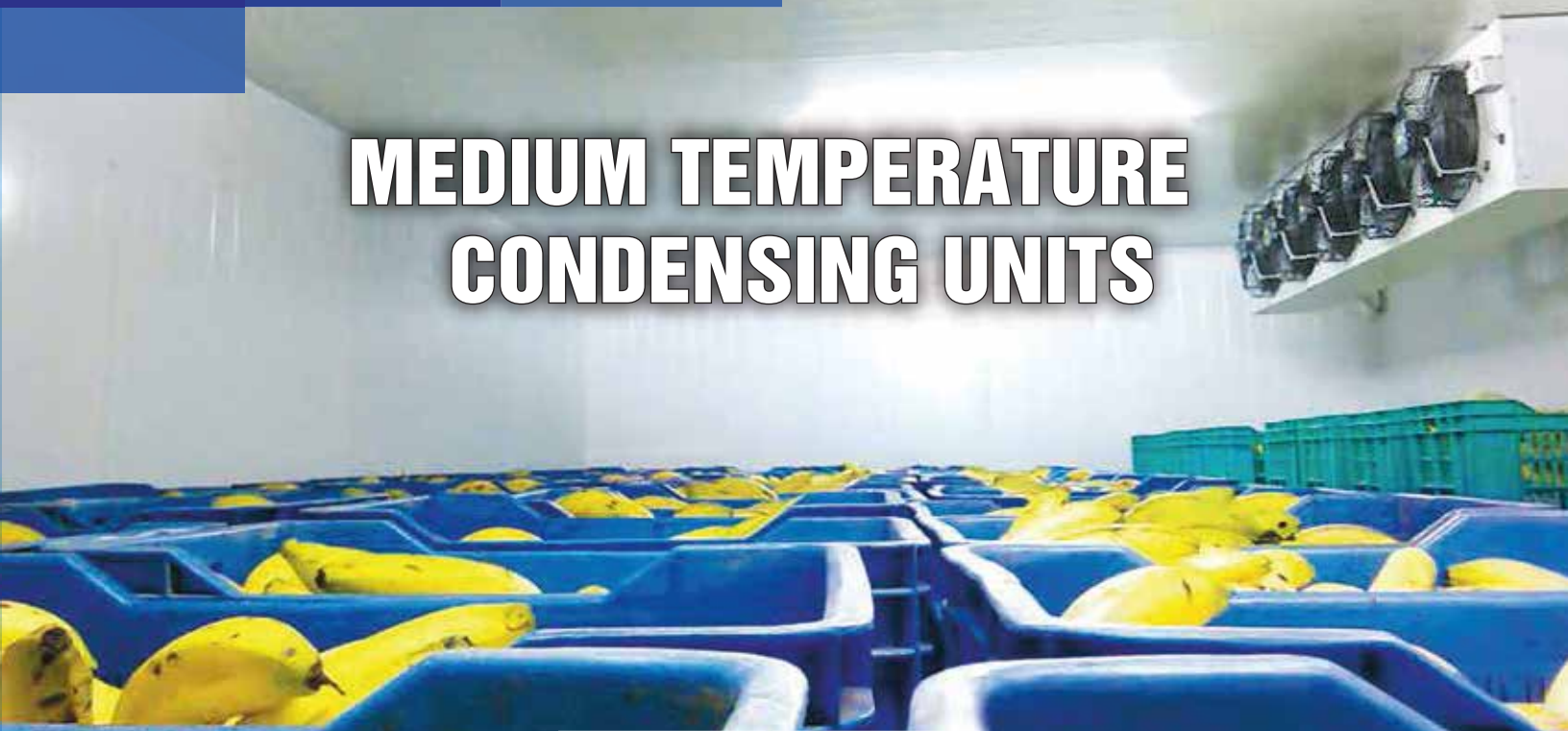


**Total Commercial
Refrigeration Solutions
from the experts**



MEDIUM TEMPERATURE CONDENSING UNITS



MAJOR APPLICATIONS: • DAIRY • PHARMA • FRUITS & VEGETABLES • FLORICULTURE

Air Cooled Refrigeration Condensing Units

With

HERMETIC RECIP. / SCROLL / SEMI-HERMETIC COMPRESSOR

Medium 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:

**FRUITS &
VEGETABLES**

DAIRY

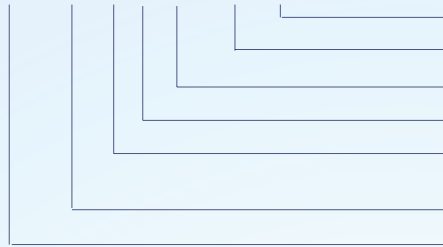
FLORICULTURE

PHARMA

MANY MORE...

Model Description

CR - A C S L XX Z



Refrigerant Z - R404a, Y - R134a, X - R22, U - R410A

Capacity in kW / 10*

L low temperature, M Medium temperature

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

Compressor make, C: Carlyle, D: Danfoss, E: Emerson, T: Tecumseh, P/S: Panasonic/Sanyo

Type of condenser W - Water cooled, A - Air cooled

Carrier Refrigeration

SELECTION DATA

Description	Condensing temp, °C	Compressor/Evaporator Capacity kW				Power consumption, kW			
		Saturated Suction Temperature, °C				Saturated Suction Temperature, °C			
		-10	-5	0	5	-10	-5	0	5
CR-AEHM039X 1Ø NXG Hermetic Recip	35	3.13	4.05	5.12	6.41	1.20	1.28	1.33	1.37
	40	2.82	3.71	4.72	5.93	1.23	1.34	1.43	1.49
	45	2.51	3.36	4.32	5.45	1.25	1.39	1.50	1.59
	50	2.19	3.00	3.90	4.96	1.25	1.41	1.55	1.67
	55	1.87	2.64	3.48	4.46	1.23	1.42	1.59	1.73
CR-AEHM037X - 3Ø NXG Hermetic Recip	35	2.98	3.94	5.05	6.33	1.04	1.14	1.23	1.30
	40	2.65	3.56	4.61	5.82	1.09	1.22	1.34	1.43
	45	2.33	3.17	4.16	5.31	1.12	1.27	1.42	1.54
	50	2.00	2.80	3.72	4.80	1.12	1.30	1.47	1.62
	55	1.70	2.44	3.30	4.30	1.10	1.32	1.52	1.69
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-AEHM049X - 3Ø NXG Hermetic Recip	35	4.06	5.20	6.55	8.14	1.43	1.55	1.66	1.74
	40	3.72	4.79	6.04	7.54	1.38	1.54	1.68	1.80
	45	3.36	4.34	5.51	6.92	1.41	1.60	1.78	1.93
	50	2.99	3.89	4.97	6.28	1.46	1.68	1.89	2.08
	55	2.62	3.44	4.43	5.63	1.49	1.74	1.99	2.21
CR-AEHM073X Hermetic Recip	35	5.82	7.47	9.41	11.70	2.06	2.23	2.37	2.47
	40	5.31	6.86	8.70	10.85	2.12	2.34	2.53	2.67
	45	4.81	6.27	8.00	10.00	2.18	2.45	2.68	2.87
	50	4.32	5.68	7.30	9.19	2.22	2.54	2.82	3.06
	55	3.83	5.09	6.60	8.37	2.24	2.60	2.93	3.22
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-APCM122U SLK Scroll	35	10.72	13.01	15.80	19.19	3.60	3.63	3.64	3.63
	40	9.93	12.02	14.56	17.64	4.02	4.04	4.05	4.04
	45	9.16	11.07	13.37	16.17	4.51	4.53	4.53	4.52
	50	8.41	10.15	12.23	14.77	5.07	5.08	5.08	5.07
	55	-	9.23	11.12	13.39	-	5.70	5.70	5.68
	60	-	-	9.98	11.99	-	-	6.38	6.37
	65	-	-	-	10.46	-	-	-	7.10
CR-ADCM130Z SLK CDU Scroll	35	-	-	17.03	20.40	-	-	3.86	3.87
	40	-	-	15.75	18.94	-	-	4.33	4.34
	45	-	-	14.40	17.41	-	-	4.89	4.89
	50	-	-	12.99	15.80	-	-	5.53	5.53
	55	-	-	11.52	14.12	-	-	6.27	6.27
CR-ADCM130Z SLK CDU Scroll With Flow Controls	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
	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

SELECTION DATA

Description	Condensing temp, °C	Compressor/Evaporator Capacity kW				Power consumption, kW			
		Saturated Suction Temperature, °C				Saturated Suction Temperature, °C			
		-10	-5	0	5	-10	-5	0	5
CR-ADCM192Z SLK Scroll	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
	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
CR-AECM275Z SLK Scroll	35	24.50	29.70	35.80	42.90	8.52	8.64	8.75	8.85
	40	22.60	27.50	33.20	39.70	9.50	9.59	9.69	9.77
	45	20.40	25.10	30.40	36.50	10.60	10.70	10.75	10.80
	50	18.00	22.50	27.50	33.20	11.90	11.95	12.00	12.00
	55	15.30	19.55	24.30	29.60	13.40	13.35	13.35	13.40
CR-ACSM261Z CDU Semi-Hermetic	35	22.79	28.24	34.60	42.00	7.93	8.35	8.65	8.83
	40	20.84	25.91	31.86	38.79	8.46	9.00	9.42	9.73
	45	18.84	23.53	29.04	35.49	8.93	9.61	10.17	10.60
	50	16.79	21.07	26.14	32.09	9.36	10.18	10.89	11.46
	54.4	14.89	18.80	23.48	28.96	9.68	10.64	11.48	12.19
CR-ACSM330Z Semi-Hermetic	35	28.75	35.99	44.56	54.62	10.39	11.07	11.62	12.00
	40	26.07	32.76	40.72	50.10	11.14	11.98	12.69	13.23
	45	23.39	29.53	36.87	45.57	11.79	12.81	13.68	14.39
	50	20.60	26.27	33.0	41.01	12.29	13.49	14.55	15.44
	54.4	18.25	23.34	29.49	36.90	12.56	13.94	15.17	16.22
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

TECHNICAL DATA

MODEL	Compressor Type	Fans Nos. x watt	Total Air flow, m ³ /hr	Receiver, Liters	Connection, Inches		Oil Charge Liters	Product Dimn. (mm)	Net Weight (Kg)
					Suction	Liquid			
CR-AEHM039X 1Ø NXG #	Hermetic Recip.	1 X 107	5100	X	5/8"	3/8"	1.30	975x400x690	60
CR-AEHM037X - 3Ø NXG	Hermetic Recip.	1 X 107	5100	X	5/8"	3/8"	1.30	975x400x690	60
CR-AEHM039Z	Hermetic Recip.	1 X 107	5100	X	5/8"	3/8"	1.30	975x400x690	60
CR-AEHM049X - 3Ø NXG	Hermetic Recip.	1 X 107	5100	X	5/8"	3/8"	1.30	975x400x690	60
CR-AEHM073X	Hermetic Recip.	1 X 107	5100	X	3/4"	3/8"	1.30	975x400x820	79
CR-AEHM072Z	Hermetic Recip.	1 X 107	5100	X	7/8"	3/8"	1.30	975x400x820	79
CR-APCM122U SLK	Scroll	1 X 330	5803	X	7/8"	1/2"	1.70	975x400x820	82
CR-ADCM130Z SLK	Scroll	1 X 370	7225	7.4	7/8"	1/2"	1.57	1100x410x900	100
CR-ADCM130Z SLK W Flow Ctrl	Scroll	1 X 370	7225	7.4	7/8"	1/2"	1.57	1100x410x900	125
CR-ADCM192Z SLK	Scroll	1 X 470	11000	12.5	1 1/8"	5/8"	3.25	1080x630x1100	183
CR-AECM275Z SLK	Scroll	2 X 710	16786	12.5	1 3/8"	5/8"	3.30	1350x740x1060	210
CR-ACSM261Z	Semi-Hermetic	2 X 710	16786	20.0	1 3/8"	5/8"	3.8**	1450x1000x910	320
CR-ACSM330Z	Semi-Hermetic	2 X 710	16786	20.0	1 3/8"	5/8"	3.8**	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.

* Compressor Capacity for Hermetic Recip. & Scroll Condensing Unit @ SST 0°C, Condensing 50°C, Total Superheat 11K.

* Evaporator 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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