

Specifications:

TECHNICAL DATA										
MODEL	Compressor Type	Fans Nos. x watt	Total Air flow, m ³ /hr	Receiver (Liters)	Connection (Inches)		Oil Charge (Liters)	Controller	Product Dimn. LxDxH (mm)	Net Weight (Kg)
					Suction	Liquid				
CR-AHRL025Z	Rotary, Sealed	1x190	3194	-	7/8"	3/8"	1.12	√	990x400x820	58
CR-AEHL023Z	Her. Sealed	1x190	3194	-	7/8"	3/8"	1.33	√	975x400x820	85
CR-AEHL025Z	Her. Sealed	1x190	3194	-	7/8"	3/8"	1.33	√	975x400x820	86
CR-ATHL 025Z ,1Ø	Her. Sealed	1x190	3194	-	7/8"	3/8"	1.14	√	975x400x820	87
CR-ATHL038Z	Her. Sealed	1x370	10194	7.0	1"1/8	5/8"	1.33	-	1060x700x1100	180
CR-ADCL063Z	Scroll, W Economizer	1x370	10194	7.0	1"1/8	1/2"	1.62	-	1060x700x1100	140
CR-ADCL076Z	Scroll, W Economizer	1x470	11000	7.0	1"1/8	1/2"	2.51	-	1060x700x1274	173
CR-ADCL 096Z	Scroll, W Economizer	2x710	14600	7.0	1"1/8	1/2"	2.51	-	1060x700x1274	198
CR-ACSL074Z , 1 Stage	SH, Single Stage	2x710	16786	15.0	1"3/8	1/2"	3.8	-	1450x1000x860	340
CR-ACSL136Z, 1 Stage	SH, Single Stage	2x710	16786	20.0	1"5/8	5/8"	9	-	1750x1075x910	400
CR-ACSL136Z**	SH, Two Stage	2x710	16786	20.0	1"5/8	5/8"	9.0**	-	1740x1100x860	450
CR-ACSL300Z	SH, Two Stage	4x710	33572	25.0	1"5/8	7/8"	9.0**	-	1720x1280x1380	450

Note:-

- Performance stated above are subject to ±7% variation.
- For Category no. 1, CDU Capacity & CDU power consumption @ SST -23.3°C , Outdoor ambient temperature 43 °C, Subcooling 3K & Total Superheat 19K.
- For Category no. 2, CDU Capacity & CDU power consumption @ SST -30°C , Outdoor ambient temperature 43 °C, Liquid Line temperature 13 °C (Liquid Temp. will vary wrt SST & OAT) & Total Superheat 19K.
- For Category no. 3, Compressor Capacity & power consumption @ SST -23.3°C , Condensing 48.9 °C, Return Gas temperature 4 °C.
- For Category no. 4, Evaporation Capacity & power consumption @ SST -30°C , Condensing 50 °C, Total Superheat 19K
- Relevant Compressor manufacturer selection Software used for Capacity Calculation
- ** 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.
- Contact Carrier Commercial Refrigeration representative for unavailable data at specified conditions.

For Detailed Specification refer technical detail sheet



Total Commercial Refrigeration Solutions from the experts

LOW TEMPERATURE CONDENSING UNITS



MAJOR APPLICATIONS: FISHERIES VACCINES FROZEN FOODS ICE CREAM



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Revision No. : 03

Air Cooled Refrigeration Condensing Units
With
HERMETIC RECIP. / SCROLL / SEMI-HERMETIC COMPRESSOR
Low Temperature : 50Hz



*The unit photographs shown in this catalogue is for general representation.

Features

- ENVIRONMENT FRIENDLY**
 - CFC free R404a refrigerants for improving sustainability
- ECONOMICAL & CONVENIENT**
 - Sleek and enclosed design for reciprocating hermetic range
 - Robust footprint for semi hermetic range
 - Factory engineered product to reduce field installation
 - Flexibility for pump down to recover refrigerant
 - Easy access for trouble shooting
- RELIABLE**
 - Suction accumulator to protect against liquid flood back
 - Check valve in discharge line to ensure unidirectional refrigerant flow with two stage Carlyle Compressors
 - High/low pressure protection
 - Oil safety switch and separator for proper lubrication*

Note: *For Selected Models only

- ENERGY EFFICIENCY**
 - Best in class COP with energy efficient semi-hermetic two stage Carlye compressors and economizer
 - Ergonomic design for hermetic range offering
 - Cool motor winding with liquid injection system for two stage Carlye compressors
- 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 to protect against voltage fluctuations and phase reversal in select models
 - Phase sequence controller to protect against phase reversal in select models

APPLICATIONS:

ICE CREAM

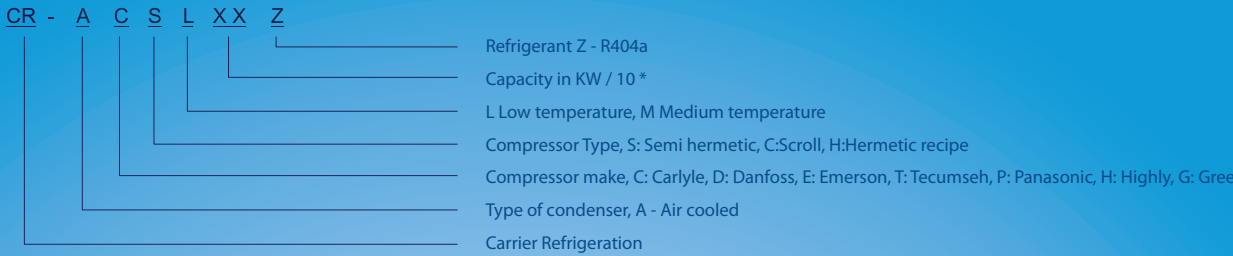
FISHERIES

VACCINES

FROZEN FOODS

MANY MORE...

Model Description



SELECTION DATA											
Description	Outdoor Ambient Temperature, °C	CDU Capacity kW					CDU Power consumption, kW				
Category No. 1		Saturated Suction temperature, °C					Saturated Suction temperature, °C				
		-20	-23.3	-25	-30	-35	-20	-23.3	-25	-30	-35
CR-AHRL025Z NXG LT CDU Single Stage (Rotary)	30	4.14	3.66	3.46	2.69		2.06	1.98	1.94	1.81	
	35	3.56	2.95	2.78	2.24		2.19	2.10	2.04	1.90	
	40	3.13	2.74	2.59	2.05		2.30	2.21	2.15	1.99	
	43	2.99	2.54	2.46	1.95		2.38	2.27	2.17	2.05	
	46	2.81	2.46	2.28	1.87		2.45	2.33	2.25	2.12	
Category No. 2		-25	-30	-35	-40	-45	-25	-30	-35	-40	-45
CR-ACSL300Z Two Stage (Semi-Hermetic)	35	34.50	30.00	24.10	21.10	16.70	25.70	24.10	21.70	20.00	19.00
	40	34.40	29.90	24.00	20.90	16.50	26.70	25.10	22.70	21.60	19.70
	43	34.30	29.80	24.00	20.90	16.40	27.20	25.90	23.80	22.10	20.80
	46	34.20	29.70	24.00	20.70	16.00	28.70	27.00	24.70	22.90	20.60
Category No. 3	Condensing temp, °C	Compressor Capacity kW					Power consumption, kW				
		Saturated Suction temperature, °C					Saturated Suction temperature, °C				
		-20	-23.3	-25	-30	-35	-20	-23.3	-25	-30	-35
CR-AEHL023Z SLK NXG Single Stage (Hermetic Recip.)	35	3.73	3.26	2.97	2.11	1.26	1.71	1.56	1.48	1.24	0.99
	40	3.36	2.94	2.68	1.93	1.17	1.94	1.78	1.70	1.45	1.21
	45	2.99	2.62	2.40	1.74	1.09	2.16	1.99	1.91	1.67	1.42
	48.9	2.71	2.37	2.17	1.60	1.02	2.34	2.16	2.08	1.83	1.59
	55	2.30	1.98	1.76	1.11	0.46	2.55	2.38	2.28	1.99	1.70
CR-AEHL025Z SLK NXG Single Stage (Hermetic Recip.)	35										
	40	3.59	3.14	2.93	2.31	1.67	2.05	1.89	1.82	1.67	1.62
	45	3.17	2.75	2.55	1.97	1.39	2.26	2.08	2.01	1.86	1.80
	48.9	2.87	2.47	2.28	1.75		2.42	2.25	2.17	2.02	
	55	2.41	2.06	1.90	1.45		2.66	2.48	2.41	2.26	
CR-ATHL 025Z SLK NXG CDU iPhase Single Stage (Hermetic Recip.)	35	4.12	3.44	3.12	2.32	1.71	2.36	2.17	2.07	1.80	1.57
	40	3.65	3.05	2.78	2.09	1.57	2.41	2.21	2.11	1.83	1.59
	45	3.22	2.70	2.47	1.86	1.40	2.46	2.25	2.15	1.86	1.61
	48.9	2.92	2.45	2.24	1.68	1.26	2.51	2.29	2.18	1.87	1.62
	55	2.54	2.12	1.92	1.40	0.81	2.57	2.33	2.21	1.89	1.29
CR-AEHL038Z Single Stage (Hermetic Recip.)	35	5.52	4.72	4.35	3.31	2.40	3.13	2.88	2.60	2.32	2.15
	40	5.04	4.29	3.94	2.97	2.11	3.28	3.01	2.71	2.47	2.23
	45	4.71	3.99	3.65	2.71	1.86	3.45	3.15	2.83	2.59	2.34
	48.9	4.52	3.80	3.47	2.52	1.66	3.55	3.25	2.92	2.72	2.57
	55	4.28	3.54	3.19	2.19		3.71	3.39	3.09	2.89	
CR-ADCL063Z CDU (Scroll with Economizer)	35	7.69	6.77	6.34	5.18	4.20	3.71	3.61	3.56	3.38	3.21
	40	7.50	6.62	6.20	5.08	4.12	4.05	3.94	3.87	3.68	3.48
	45	7.29	6.45	6.05	4.97	4.04	4.44	4.31	4.24	4.02	3.80
	48.9	7.10	6.3	5.90	4.86	3.95	4.80	4.7	4.57	4.33	4.09
	55	6.71	5.95	5.58	4.60	3.74	5.50	5.33	5.24	4.96	4.69
Category No. 4	Condensing temp, °C	Evaporator Capacity kW, Saturated Suction temperature, °C					Power consumption, kW, Saturated Suction temperature, °C				
-23.3		-25	-30	-35	-40	-23.3	-25	-30	-35	-40	
CR-ADCL076Z (Scroll with Economizer)	35	10.49	9.89	8.24	6.80	5.53	5.13	5.05	4.81	4.57	4.35
	40	10.25	9.66	8.07	6.66	5.42	5.59	5.50	5.23	4.97	4.72
	45	9.98	9.42	7.89	6.52	-	6.11	6.02	5.71	5.41	-
	50	9.65	9.11	7.64	6.33	-	6.76	6.64	6.30	5.97	-
	55	9.19	8.68	-	-	-	7.56	7.44	-	-	-
CR-ADCL096Z (Scroll with Economizer)	30	14.05	13.24	11.08	9.22	7.64	6.55	6.46	6.18	5.87	5.57
	35	13.56	12.79	10.72	8.93	7.40	7.18	7.08	6.76	6.42	6.07
	40	13.08	12.35	10.36	8.65	7.17	7.95	7.84	7.46	7.06	6.64
	45	12.58	11.87	9.99	8.36	-	9.94	8.72	8.26	7.77	-
	50	12.02	11.37	9.60	8.05	-	9.89	9.71	9.14	8.52	-
CR-ACSL074Z Single Stage (Semi-Hermetic)	55	11.42	10.82	-	-	-	11.00	10.77	-	-	-
	35	15.37	14.13	10.93	8.35	6.27	8.41	8.07	7.09	6.13	5.23
	40	13.75	12.62	9.73	7.39	5.52	8.73	8.36	7.30	6.27	5.32
	45	12.17	11.15	8.55	6.46	4.79	9.02	8.63	7.48	6.39	5.39
	50	10.61	9.70	7.40	5.55	4.07	9.29	8.86	7.64	6.49	5.45
CR-ACSL136Z Single Stage (Semi-Hermetic)	54.4	9.25	8.44	6.40	4.77	3.46	9.49	9.04	7.76	6.57	5.49
	35	31.01	28.32	21.29	15.41	10.53	17.87	17.08	14.74	12.42	10.15
	40	27.82	25.31	18.78	13.34	8.82	18.21	17.34	14.77	12.26	9.82
	45	24.58	22.27	16.26	11.27	7.14	18.36	17.40	14.63	11.92	9.32
	50	21.29	19.18	13.73	9.22	5.50	18.33	17.30	14.32	11.44	8.69
CR-ACSL136Z Two Stage (Semi-Hermetic)	54.4	18.34	16.42	11.48	7.42	4.09	18.20	17.11	13.96	10.92	8.04
	35	23.22	21.66	16.85	12.88	9.60	9.11	8.77	7.57	6.48	5.52
	40	21.74	20.24	15.56	12.06	8.90	9.32	8.96	7.61	6.61	5.63
	45	20.16	18.73	14.73	11.18	8.10	9.48	9.06	7.86	6.72	5.74
	50	18.72	17.34	13.58	10.24	7.24	9.62	9.17	7.93	6.81	5.83
	54.4	17.45	16.11	12.47	9.33	6.44	9.68	9.20	7.91	6.83	5.89