

ChynTec Semi-hermetic Scroll Compressor Performance Reference Table By R407C, R22, R134a refrigerant

50Hz	R22					R407C				
	ARI (ET=7.2°C/CT=54.4°C)					ARI (ET=7.2°C/CT=54.4°C)				
	Performance			Input power	COP	Performance			Input power	COP
	kcal/hr	RT	kW	kW		kcal/hr	RT	kW	kW	
CS155S	29900	9.9	34.8	11.2	3.11	28,600	9.5	33.3	11.0	3.02
CS180S	38000	12.6	44.2	12.7	3.49	36,300	12.0	42.2	12.4	3.40
CS210S	42800	14.2	49.8	14.3	3.47	41,000	13.6	47.7	14.1	3.38
CS240S	50300	16.6	58.5	16.9	3.47	48,100	15.9	55.9	16.6	3.37
CS280S	59300	19.6	68.9	19.7	3.50	56,800	18.8	66.0	19.4	3.40
CS310S	66000	21.8	76.7	21.9	3.51	63,200	20.9	73.5	21.5	3.42

	R22					R407C				
	Air-cooled (ET=3°C/CT=50°C)					Air-cooled (ET=3°C/CT=50°C)				
	Performance			Input power	COP	Performance			Input power	COP
	kcal/hr	RT	kW	kW		kcal/hr	RT	kW	kW	
CS155S	26308	8.7	30.6	10.2	3.00	24,841	8.2	28.9	10.5	2.75
CS180S	33420	11.1	38.9	11.5	3.38	31,557	10.4	36.7	11.9	3.08
CS210S	37669	12.5	43.8	13.0	3.37	35,569	11.8	41.4	13.5	3.06
CS240S	44193	14.6	51.4	15.3	3.36	41,729	13.8	48.5	15.9	3.05
CS280S	52179	17.3	60.7	17.9	3.39	47,270	15.6	55.0	18.5	2.97
CS310S	58044	19.2	67.5	19.9	3.39	54,808	18.1	63.7	20.6	3.09

	R134a					R134a				
	ARI (ET=7.2°C/CT=54.4°C)					Air-cooled (ET=3°C/CT=50°C)				
	Performance			Input power	COP	Performance			Input power	COP
	kcal/hr	RT	kW	kW		kcal/hr	RT	kW	kW	
CS095C	19400	6.4	22.6	7.5	3.02	16,664	5.5	19.4	6.7	2.89
CS120C	24300	8.0	28.3	8.6	3.27	20,798	6.9	24.2	7.8	3.10
CS130C	27300	9.0	31.7	9.8	3.26	23,460	7.8	27.3	8.8	3.10
CS160C	32400	10.7	37.7	11.6	3.26	27,828	9.2	32.4	10.4	3.11
CS185C	38200	12.6	44.4	13.6	3.26	32,777	10.8	38.1	12.3	3.10
CS200C	42300	14.0	49.2	15.1	3.26	36,293	12.0	42.2	13.6	3.10

NOTE: ARI working condition (ET = 7.2°C / CT = 54.4°C / Super-heat = 11.1K / Sub-cooling = 8.3 K)

Air-cooled working condition (ET = 3°C / CT = 50°C / Super-heat = 10K / Sub-cooling = 5 K)