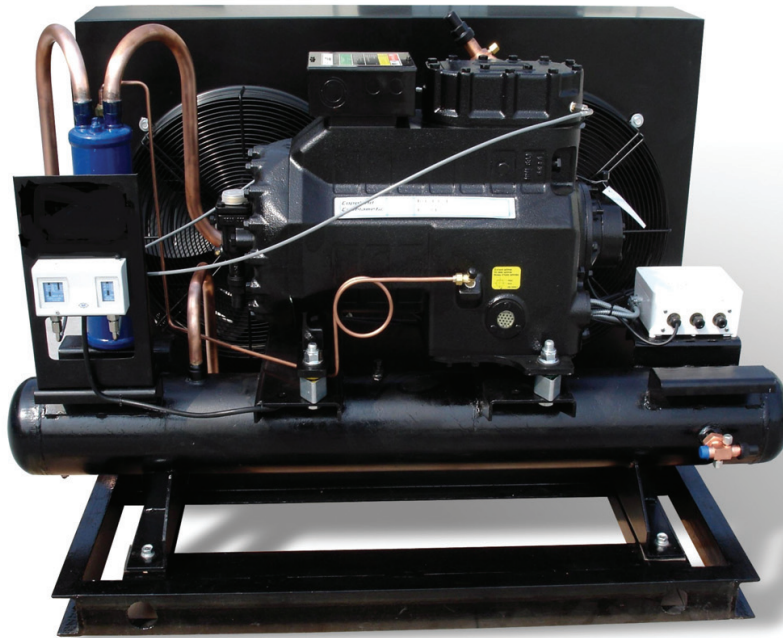


FRIGO Semi-C

Copeland Semi-Hermetic Air Cooled Condensing Units

R404A
Refrigerant

R507A
Refrigerant



Copeland[®]
brand products

Innovative Refrigeration Solutions

STANDARD INCLUSIONS:

- Copeland Semi Hermetic Compressor
- Crankcase Heater
- Hydrophilic Blue Fin Condenser
- External Rotor, Axial Flow Fan Motors
- Rotalock Service Valves on Receiver
- Pressure Relief Valve on Receiver
- Liquid line Drier
- Liquid Line Sight Glass
- Oil Separator
- Accumulator
- HP/LP Control
- Flexible Pressure Control Hoses



OPTIONAL EXTRAS:

- Liquid Line Solenoid Valve
- HP Fan control or Fan Speed Controller
- Electrical Control Panel
- Ziehl Abegg Fan motors



COPELAND SEMI-HERMETIC CONDENSING UNITS PRODUCT RANGE

Description	Operating Range	Nominal HP	Models	Ambient	Capacity Range
Med / Low Temp Unit	+5C to -25C	2HP to 40HP	17	+38C	5.2kW to 56.5kW @ -5C SST
				+43C	4.6kW to 50.0kW @ -5C SST

FEATURES:

- Compact Robust Framework
- +43C Ambient Ratings with high capacity condenser
- Easy access to components for service & maintenance
- Electrical components pre-wired to terminal box
- Factory pressure tested and despatched with holding charge of dry nitrogen
- Low vibration Levels
- Low noise levels

APPLICATIONS:

- All medium and low temperature commercial refrigeration applications
- Compressors compatible with R404A; R507; R134A
- R407C for air conditioning applications on request
- Typical applications include cold rooms, freezer rooms, refrigerated display cabinets, liquid chillers

MODEL NOMENCLATURE - COPELAND SEMI-HERMETIC CONDENSING UNITS

Example: FSC-2500-M/L-HW55/4.50

Nomenclature

- F = Frigo
- SC = Semi Hermetic Copeland
- 2500 = Nominal Horsepower/100
- M/L = Medium / Low Temp
- HW55 = Condenser Model
- 4.50 = No. x Diameter of Fans x 10 in mm

COPELAND SEMI-HERMETIC Condensing Units Capacity Tables

400V/3N/50Hz - R404A/R507

Model	Power	Ambient °C	Evaporating Temperature °C								
			-35	-30	-25	-20	-15	-10	-5	0	5
FSC-200-M/L-HK3-2.35	Q	32	1360	1910	2540	3250	4050	4950	5900	6950	8100
		38	1090	1600	2170	2830	3550	4350	5250	6200	7200
		43	860	1340	1870	2470	3150	3850	4650	5550	
	P	32	1.30	1.49	1.70	1.90	2.12	2.34	2.57	2.80	3.05
FSC-250-M/L-HK3-2.35	Q	32	1700	2280	2900	3680					
		38	1400	1920	2580	3200					
		43	1200	1700	2280	2880					
	P	32	1.58	1.89	2.17	2.46					
FSC-300-M/L-HP4-2.35	Q	32	2140	2870	3700	4650	5700	6900	8200	9600	11100
		38	1820	2490	3250	4100	5100	6150	7350	8600	
		43	1560	2180	2880	3700	4550	5550	6650		
	P	32	1.86	2.12	2.39	2.65	2.91	3.18	3.45	3.72	4.00
FSC-400-M/L-HP4-2.35	Q	32	2920	3870	4960	6200	7590	9120	10780	12580	
		38	2490	3360	4350	5480	6740	8140	9660		
		43	2130	2930	3840	4880	6040	7320			
	P	32	2.40	2.77	3.16	3.58	4.02	4.50	5.01	5.55	
FSC-550-M/L-HQ3-2.45	Q	32	4300	5650	7070	8670	10370	12190	14100		
		38	3700	4950	6280	7690	9260	10940	12680		
		43	2470	4350	5590	6900	8340				
	P	32	3.77	4.42	5.10	5.80	6.55	7.30	8.10		
FSC-750-M/L-HQ4-2.45	Q	32	5330	7060	8950	11070	13330	15840	18520		
		38	4640	6210	8010	9890	11970	14250	16720		
		43	3190	5570	7170	8960	10860	12960			
	P	32	4.57	5.25	6.00	6.75	7.55	8.35	9.25		
FSC-1000-M/L-HV5-2.50	Q	32		8240	10460	13040	15870	19140	22740	26350	30720
		38		7120	9190	11570	14110	17200	20380	23770	27700
		43		6130	8090	10310	12750	15550	18580	21500	
	P	32		8.10	8.85	9.65	10.45	11.15	11.85	12.40	12.85
FSC-1500-M/L-HW5-2.50	Q	32		11630	14520	17660	21220	24950	29200	33890	
		38		10220	12840	15840	19090	22520	26400	30400	
		43		8930	11470	14230	17230	20440	24070		
	P	32		10.60	11.75	12.80	13.80	14.80	15.70	16.50	
FSC-1500-M/L-HW6-2.50	Q	32	12930	16750	20910	25730	31250	37170	44330		
		38	9410	15000	18670	23000	27550	33250	39480		
		43	7350	13640	16980	20680	24860	29380			
	P	32	9.49	10.99	12.59	14.19	15.79	17.29	18.79		

* DTC(Discharge Temperature Control) valve is required to de-superheat at these conditions.

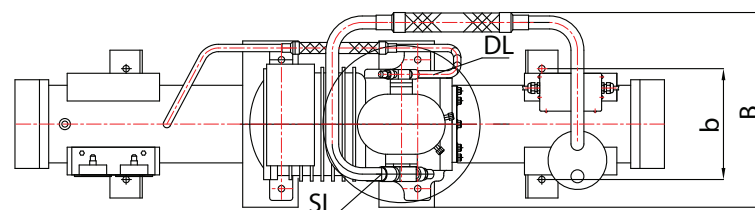
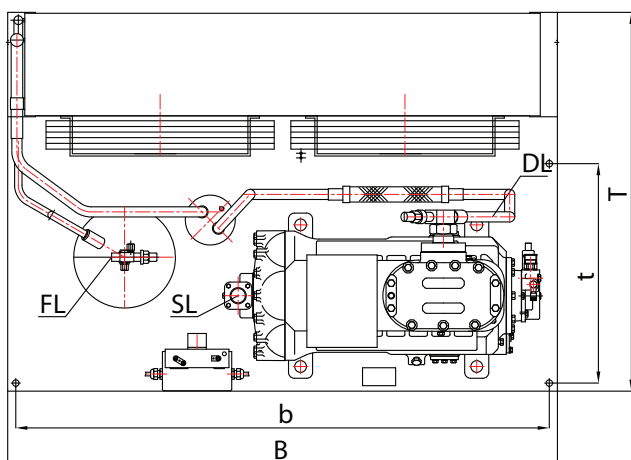
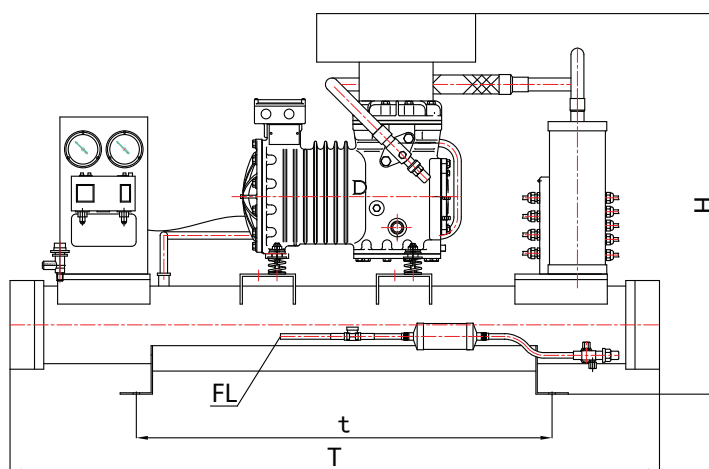
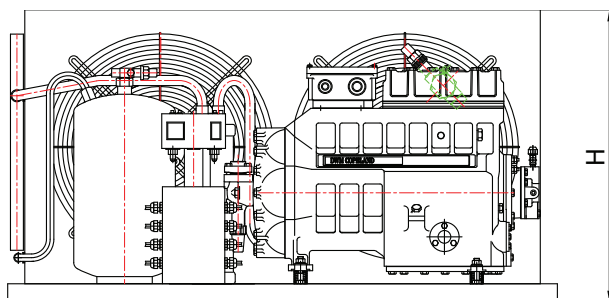
COPELAND SEMI-HERMETIC Condensing Units Capacity Tables

400V/3N/50Hz - R404A/R507

Model	Power	Ambient °C	Evaporating Temperature °C								
			-35	-30	-25	-20	-15	-10	-5	0	5
FSC-2000-M/L-HZ5-4.50	Q	32			15630	19800	24500	29890	35700	42250	49040
		38			13770	17560	22000	26650	31930	37860	44170
		43				15910	19770	24350	29250	34580	
	P	32			12.18	13.33	14.43	15.43	16.33	17.03	17.63
FSC-2000-M/L-HZ6-4.50	Q	32	15250	19810	24930	31010	37670	45690	54670		
		38	10970	17640	22320	27700	33800	41180	49180		
		43	8220	15810	20060	24880	30720	36880	43450		
	P	32	11.27	13.17	15.07	16.97	18.77	20.47	22.07		
FSC-2500-M/L-HZ6-4.50	Q	32			18670	23700	29760	35870	43130	51010	59770
		38			16180	20770	26100	31560	38250	45720	52990
		43				18310	22840	28230	33960	42320	
	P	32			15.08	16.58	17.98	19.28	20.38	21.48	22.28
FSC-2500-M/L-HW55-4.50	Q	32	22680	24620	31040	38130	46340	56380	66870		
		38	13650	21810	27780	33950	41690	49830	57680		
		43	10420	19800	24910	30460	37050	44430	51650		
	P	32	13.87	16.27	18.77	21.17	23.57	25.87	27.87		
FSC-3000-M/L-HW55-4.50	Q	32			22440	28420	35800	43360	51810	60680	70590
		38			19550	24960	31570	38650	46660	55290	63810
		43				22210	28200	35180	41900	52610	
	P	32			16.88	18.88	20.78	22.58	24.38	25.88	27.18
FSC-3200-M/L-HW66-4.50	Q	32	26970	28940	36570	45240	55030	67070	79910		
		38	16130	25630	32320	39750	48700	58490	68050		
		43	12310	23110	28840	35450	42900	51040	60330		
	P	32	15.77	18.57	21.37	24.37	27.37	30.37	33.17		
FSC-3500-M/L-HW66-4.50	Q	32			27650	34820	43840	53210	63400	74250	85820
		38			23930	30570	38300	46960	56480	66570	76580
		43				27040	33740	42120	50000	62070	
	P	32			20.88	23.48	25.98	28.18	30.18	31.78	32.98
FSC-4000-M/L-HW66-4.50	Q	32	31080	33520	42090	51720	62610	75440	89080		
		38	18800	30130	37850	46390	56170	67790			
		43	14460	27350	34280	42080	51070	60790			
	P	32	18.77	21.97	25.17	28.57	31.87	35.17	38.47		

SPECIFICATIONS TABLE

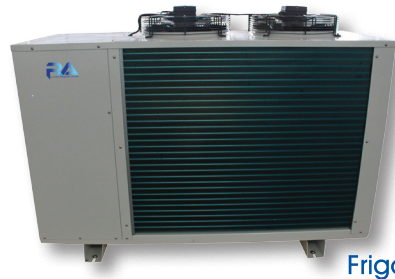
Condensing Unit Model	Compressor Model	Normal	Displacement	Cylinders	Cylinder Heads (unloading)	Max Oper. Current	Receiver Capacity	Condenser	Condenser Capacity	Fan Qty	Fan	Air Flow	Pipe Connections (Inch)			Gross Weight
		HP	m3/hr	No.	No.	Amps	L	Model	W/KTD	no	Diam	l/s	SL	DL	LL	Kg
FSC-200-M/L-HK3-2.35	LA10-0200E	2	9.9	2	0	6.36	6	HK3	830	2	350	1611	7/8"	5/8"	1/2"	136
FSC-250-M/L-HK3-2.35	LA20-0200E	2.5	12.9	2		6.16	6	HK3	830	2	350	1611	7/8"	5/8"	1/2"	140
FSC-300-M/L-HP4-2.35	LA20-0300E	3	12.9	2		7.86	6	HP4	1060	2	350	1611	7/8"	5/8"	1/2"	156
FSC-400-M/L-HP4-2.35	LA40-0400E	4	18.2	2		10.0	6	HP4	1060	2	350	1611	1 1/8"	5/8"	1/2"	161
FSC-500-M/L-HQ3-2.45	2SCW-O550E	5.5	26.8	2		14.06	14	HQ3	1570	2	450	2889	1 1/8"	7/8"	5/8"	190
FSC-750-M/L-HQ4-2.45	2SKW-O750E	7.5	31.2	2		17.36	14	HQ4	1670	2	450	2889	1 1/8"	7/8"	5/8"	196
FSC-1000-M/L-HV5-2.50	3SCH-1000E	10	38.0	3		24.60	14	HV5	2810	2	500	4000	1 3/8"	1 1/8"	5/8"	316
FSC-1500-M/L-HW5-2.50	3SSH-1500E	15	49.9	3		32.90	26	HW5	3340	2	500	4000	1 5/8"	1 3/8"	5/8"	348
FSC-1500-M/L-HW6-2.50	4SLW-1500E	15	70.8	4	2	32.90	26	HW6	3750	2	500	4000	1 5/8"	1 1/8"	5/8"	380
FSC-2000-M/L-HZ5-4.50	4SAH-2000E	20	56.0	4		34.70	26	HZ5	5320	4	500	8000	1 5/8"	1 1/8"	7/8"	426
FSC-2000-M/L-HZ6-4.50	4STW-2000E	20	84.7	4		38.50	26	HZ6	6140	4	500	8000	2 1/8"	1 3/8"	7/8"	460
FSC-2500-M/L-HZ5-4.50	4SHH-2500E	25	70.8	4		46.00	50	HZ5	5320	4	500	8000	2 1/8"	1 1/8"	7/8"	437
FSC-2500-M/L-HW55-4.50	6SLW-2500E	25	106.0	6	3	49.00	50	HW55	6680	4	500	8000	2 1/8"	1 3/8"	7/8"	498
FSC-3000-M/L-HW55-4.50	4SJH-3000E	30	84.7	6		51.60	50	HW55	6680	4	500	8000	2 1/8"	1 3/8"	7/8"	498
FSC-3200-M/L-HW66-4.50	6STW-3200E	32	127.0	6		61.90	50	HW66	7500	4	500	8000	2 1/8"	1 3/8"	7/8"	550
FSC-3500-M/L-HW66-4.50	6SHH-3500E	35	106.0	6		67.20	50	HW66	7500	4	500	8000	2 1/8"	1 3/8"	7/8"	540
FSC-4000-M/L-HW66-4.50	6SJH-4000E	40	127.0	6		78.90	50	HW66	7500	4	500	8000	2 1/8"	1 3/8"	1 1/8"	568



Cond Unit Model	DIMENSIONS IN MM					
	B	T	H	b	t	Ø
HK3	950	640	460	915	380	14
HP4	950	640	460	915	380	14
HQ3	1190	820	660	1155	475	14
HQ4	1190	820	660	1155	475	14
HV5	1400	910	900	1155	550	14
HW5	1630	910	900	1155	550	14
HW6	1630	910	900	1155	550	14
HZ5	1630	1130	1300	1155	550	14
HZ6	1630	1130	1300	1155	550	14
HW55	1630	1130	1700	1155	550	14
HW66	1630	1130	1700	1155	550	14



Frigo Mini Pack



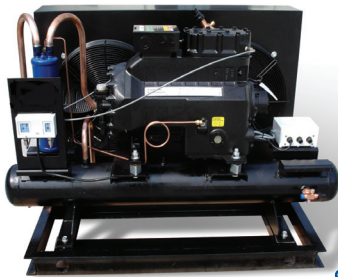
Frigo Pack



Frigo Jumbo



Frigo Ezy



Frigo Semi C



Frigo Scroll



Frigo Rack

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