

SCMCS - SINGLE COMPRESSOR SEA WATER COOLED CHILLER

50Hz SERIES																									
NO	CHILLER MODEL	*DATA BASED ON CONDITION: CHWL @ 6 °C / COWE @ 32 °C				*DATA BASED ON CONDITION: CHWL @ 6 °C / COWE @ 38 °C				EVAPORATOR DATA Fouling factor at 0.000043 m ² K/W					CONDENSER DATA Fouling factor at 0.000043 m ² K/W					ELECTRICAL & CONTROL DATA:			REFRIGERANT		
		Cooling capacity		kW	Amp (@400V)	Cooling capacity		kW	Current (@400V)	Qty/ Type	Fluid	Flow rate m ³ / h	Press. Drop kPa	Water conn.	Type	Fluid	Flow rate m ³ / h	Press. Drop kPa	Water conn.	Power Supply	Maximum current - A	Capacity Control	Type	Flow Control	
		kW	RT			Input	RT																		Input
1	SCMCS-50FS-A	108.9	31	32.9	57.0	99.9	28	36.4	62.0	1 UNITS OF SHELL & TUBES EVAPORATOR	FRESH WATER	15.54	15.45	3"	1 UNITS OF SHELL & TUBES CONDENSER	SEA WATER	24.61	20.31	2-1/2"	380V ~ 415V / 3 PH / 50HZ	86	4 STEP : 100%-75%-50%-25%	HFC - R407C	THERMOSTATIC EXPANSION VALVE	
2	SCMCS-60FS-A	135.2	38	40.3	69.3	124.8	35	44.8	75.6			19.29	12.41	4"			30.45	17.76	3"						108
3	SCMCS-70FS-A	156.5	45	47.2	80.2	143.7	41	52.6	87.8			22.33	15.15	5"			35.35	16.34							128
4	SCMCS-80FS-A	184.7	53	54.5	92.1	169.5	48	60.3	100.4			26.35	13.12				41.51	18.39							144
5	SCMCS-90FS-A	210.0	60	61.2	100.3	193.9	55	68.0	110.4			29.96	16.83	6"			47.06	20.76	162						
6	SCMCS-110FS-A	263.0	75	74.3	125.0	242.0	69	82.8	137.7			37.52	12.61				58.53	22.17	4"						180
7	SCMCS-125FS-A	301.0	86	84.9	143.8	276.0	78	94.0	157.1			42.94	11.28	5"			66.96	20.87	216						
8	SCMCS-140FS-A	344.0	98	95.8	161.2	317.0	90	106.5	177.0			49.07	14.99				76.32	22.30	5"						246
9	SCMCS-180FS-A	452.0	129	125.3	202.0	416.0	118	139.6	224.0			64.82	15.78	8"			105.00	26.94	330						
10	SCMCS-210FS-A	521.0	148	144.5	239.0	478.0	136	159.8	262.0			74.33	17.02				115.47	30.80	6"						370
11	SCMCS-240FS-A	593.0	169	162.5	267.0	548.0	156	180.6	295.0			84.60	21.83	131.08			29.42	420							
12	SCMCS-280FS-A	675.0	192	184.4	303.0	624.0	177	204.0	333.0			96.29	30.38	149.11			31.88	450							
13	SCMCS-300FS-A	763.0	217	207.0	338.0	710.0	202	230.0	373.0			108.85	22.90	168.30			29.41	450							

60Hz SERIES																									
NO	CHILLER MODEL	*DATA BASED ON CONDITION: CHWL @ 6 °C / COWE @ 32 °C				*DATA BASED ON CONDITION: CHWL @ 6 °C / COWE @ 38 °C				EVAPORATOR DATA Fouling factor at 0.000043 m ² K/W					CONDENSER DATA Fouling factor at 0.000043 m ² K/W					ELECTRICAL & CONTROL DATA:			REFRIGERANT		
		Cooling capacity		kW	Current (@460V)	Cooling capacity		kW	Current (@460V)	Qty/ Type	Fluid	Flow rate m ³ / h	Press. Drop kPa	Water conn.	Type	Fluid	Flow rate m ³ / h	Press. Drop kPa	Water conn.	Power Supply	Maximum current - A	Capacity Control	Type	Flow Control	
		kW	RT			Input	RT																		Input
1	SCMCS-50FS-B	131.5	37	39.7	57.2	120.5	34	43.9	62.3	1 UNITS OF SHELL & TUBES EVAPORATOR	FRESH WATER	18.76	11.76	4"	1 UNITS OF SHELL & TUBES CONDENSER	SEA WATER	30.00	24.32	3"	440V ~ 480V / 3 PH / 60HZ	86	4 STEP : 100%-75%-50%-25%	HFC - R407C	THERMOSTATIC EXPANSION VALVE	
2	SCMCS-60FS-B	163.2	46	48.7	69.7	150.6	43	54.1	76.0			23.28	16.45	5"			36.77	17.87							108
3	SCMCS-70FS-B	188.9	54	57.0	80.6	173.4	49	63.5	88.2			26.95	13.71				42.67	19.37							128
4	SCMCS-80FS-B	223.0	63	65.7	92.5	205.0	58	72.7	100.9			31.81	12.58	6"			50.10	23.36	144						
5	SCMCS-90FS-B	253.0	72	73.9	100.9	234.0	67	82.1	111.0			36.09	11.7				56.73	20.91	4"						162
6	SCMCS-110FS-B	317.0	90	89.7	125.7	292.0	83	100.0	138.4			45.22	12.47	5"			78.41	28.02	180						
7	SCMCS-125FS-B	363.0	103	102.5	144.5	333.0	95	113.4	157.9			51.79	16.64				80.78	20.02	5"						216
8	SCMCS-140FS-B	415.0	118	115.7	162.0	383.0	109	128.6	177.9			59.20	18.9	8"			92.09	21.06	246						
9	SCMCS-180FS-B	545.0	155	151.3	203.0	502.0	143	168.5	225.0			77.75	18.51				120.83	33.54	6"						330
10	SCMCS-210FS-B	629.0	179	174.3	240.0	577.0	164	192.8	264.0			89.73	24.47	139.38			33.02	370							
11	SCMCS-240FS-B	716.0	204	196.1	269.0	662.0	188	218.0	297.0			102.14	33.95	158.25			31.33	420							
12	SCMCS-280FS-B	814.0	231	223.0	305.0	753.0	214	246.0	334.0			116.12	30.88	179.92			33.37	450							
13	SCMCS-300FS-B	921.0	262	250.0	340.0	856.0	243	278.0	375.0			131.39	27.33	203.17			30.07	8"	450						

Notes

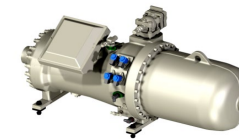
- a. 'CHWL' is chilled water leaving temperature for evaporator
- b. 'COWE' is cooling water entering temperature for condenser.
- c. Temperature difference for chilled water entering & leaving temperature is 6 °C ±0.5 °C
- d. Temperature difference for cooling water entering & leaving temperature is 5 °C ±0.5 °C

Standard:

♦ 16 bit, 28Mhz microprocessor controller
 Microprocessor controller with graphic display user interface makes chillers operation easier. With simple key operation, navigation for information & data setting will be easier. Complete with self diagnosis function, chiller can be monitored for peripheral operation and will show coded information concerning error in operation or malfunction in real time



- ♦ Components are mounted on heavy duty skid
- ♦ Can be knock down if required.



Compressor:

- ♦ Semi hermetic twin screw compressor
- ♦ Intelligent electronics
- ♦ Optimised oil management



Shell & tubes / Brazed plate evaporator:

Shell & tubes condenser:

ALSO AVAILABLE- CUSTOM BUILD CHILLER:



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