

TECO AIRCON

Comfort, Energy Saving, Health, Earth Friendly.

TECO

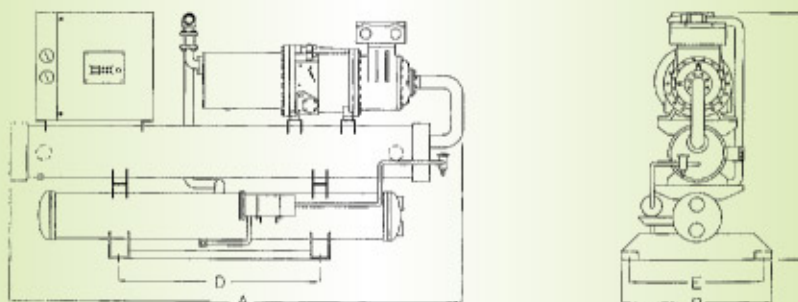
Driving and Connecting Globally

WATER-COOLED CHILLER UNITS



MADE IN TAIWAN

R22



Specifications

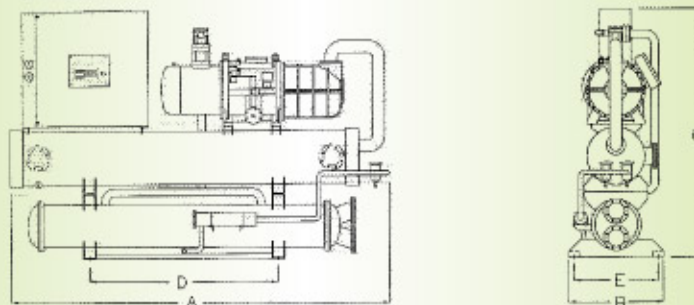
Item			Model	PQ0353SSS R	PQ0403SSS R	PQ0503SSS R	PQ0603SSS R	PQ0703SSS R	PQ0903SSS R	PQ1003SSS R
Power supply				3φ - 220V / 380V / 440V - 60Hz						
Refrigerating capacity			Kcal/hr	96,800	121,000	152,000	184,450	213,600	272,160	302,400
Power consumption			kW	26	33	38.5	50.3	57.9	71	81
220V Running ampere			A	75.8	96.2	114.8	150.0	172.7	211.7	241.6
380V Running ampere			A	43.9	55.7	66.5	86.8	100.0	122.6	139.9
440V Running ampere			A	37.9	48.1	57.4	75.0	86.3	105.9	120.8
220V Starting ampere			A	455	577	689	900	1036	1270	1449
380V Starting ampere			A	263	334	399	521	600	736	839
440V Starting ampere			A	227	289	344	450	518	635	725
Capacity control			%	100, 75, 50, 25, 0						
Compressor	Type		Screw semi-hermetic							
	Quantity		1							
	Starting method		Y- Δ							
	Revolution	r.p.m	3550							
	Crankcase heater	W	150							
Refrigerant Oil	Type		SUNISO 4GS							
	Quantity	L	7	7	9	11	11	13	13	
Refrigerant	Type		R-22							
	Quantity	kg	17	20	25	33	34	45	50	
	Control		Thermostatic expansion valve							
Chiller	Type		Shell and tube							
	Quantity		1							
	Water flow rate	m ³ /h	19.4	24.2	30.4	36.9	42.7	54.4	60.5	
	Head loss	M	4.8	4.8	4.8	4.4	3.4	3.8	4.2	
	Pipe size	B	PT 3"					4B		
Condenser	Type		Shell and tube							
	Quantity		1							
	Water flow rate	m ³ /h	24.2	30.3	38	46.1	53.4	68	75.6	
	Head loss	M	4.4	4.4	4.4	6.6	5.8	5.8	5.8	
	Pipe size	B	PT 3"					PT 4"		
Protection devices			High/low pressure switch, chilled water low temp. switch, fusible plug, thermal overload, compressor internal thermostat, thermostat, phase reversal relay.							
Dimensions	A	mm	2300	2300	2500	2900	2900	3000	3000	
	B	mm	750	750	900	900	900	900	900	
	C	mm	1500	1500	1500	1500	1800	2100	2100	
	D	mm	1000	1000	1200	1200	1200	1400	1400	
	E	mm	650	650	800	800	800	800	800	
	F	mm	-	-	-	-	-	-	-	
Net weight			kg	950	1000	1200	1220	1500	1850	1900
Operating weight			kg	1050	1100	1350	1370	1650	2030	2080

Note: 1. Nominal cooling capacity conditions: chilled water in 12°C, out 7°C cooling water in 30°C, out 35°C, Fouling factor: 0.001m²°C/W.

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Specifications

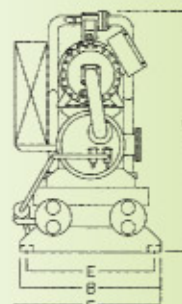
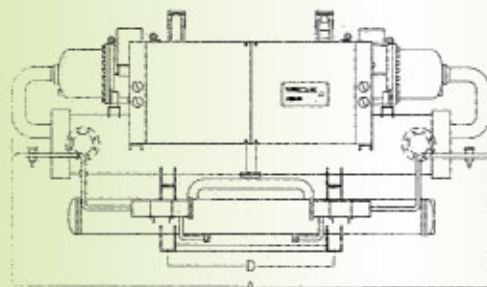
Item			Model	PQ1203SSS R	PQ1403SSS R	PQ1603SSS R	PQ1803SSS R	PQ2003SSS R	PQ2253SSS R	PQ2503SSS R
Power supply				3φ - 220V / 380V / 440V - 60Hz						
Refrigerating capacity			Kcal/hr	362,900	423,400	483,900	544,350	604,800	680,400	756,000
Power consumption			kW	97	115	121.3	142.6	156	181.0	202.5
220V	Running ampere	A	289.3	-	-	-	-	-	-	-
380V	Running ampere	A	167.5	199	200	236	258	313	334	
440V	Running ampere	A	144.6	171	173	203	223	270	289	
220V	Starting ampere	A	1736	-	-	-	-	-	-	-
380V	Starting ampere	A	1005	1191	1202	1413	1546	1875	2007	
440V	Starting ampere	A	868	1029	1038	1200	1335	1619	1733	
Capacity control			%	100, 75, 50, 25, 0						
Compressor	Type		Screw semi-hermetic							
	Quantity		1							
	Starting method		Y- Δ							
	Revolution	r.p.m	3550							
	Crankcase heater	W	150							
Refrigerant Oil	Type		SUNISO 4GS							
	Quantity	L	13	13	18	20	20	23	28	
Refrigerant	Type		R-22							
	Quantity	kg	65	75	85	90	100	115	130	
	Control		Thermostatic expansion valve							
Chiller	Type		Shell and tube							
	Quantity		1							
	Water flow rate	m ³ /h	72.6	84.7	96.8	108.9	121	136.1	151.2	
	Head loss	M	6.3	6.6	6.6	6.6	6.6	7	7	
	Pipe size	B	4B	5B			6B			
Condenser	Type		Shell and tube							
	Quantity		1							
	Water flow rate	m ³ /h	90.7	105.9	121.0	136.1	151.2	170.1	189	
	Head loss	M	6.3	6.3	6.3	6.3	6.3	6.6	6.6	
	Pipe size	B	PT4"	5B			6B			
Protection devices			High/low pressure switch, chilled water low temp. switch, fusible plug, thermal overload, compressor internal thermostat, thermostat, phase reversal relay.							
Dimensions	A	mm	3300	3500	3750	3850	3800	3800	3950	
	B	mm	900	900	900	900	900	900	900	
	C	mm	2100	2200	2200	2200	2300	2400	2400	
	D	mm	1800	1800	1800	1800	1800	1800	1800	
	E	mm	800	800	800	800	800	800	800	
	F	mm	-	-	-	-	-	-	-	
Net weight			kg	2050	2500	3200	3300	3360	3600	3750
Operating weight			kg	2250	2750	3450	3550	3650	3950	4150

Note: 1. Nominal cooling capacity conditions: chilled water in 12°C, out 7°C cooling water in 30°C, out 35°C, Fouling factor: 0.001m²°C/W.

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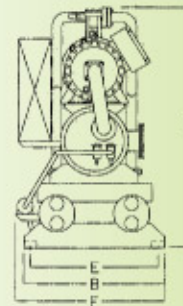
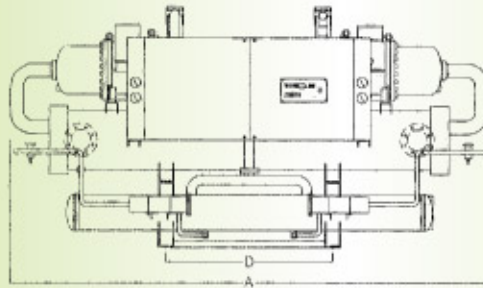
Item			Model	PQ0653SSD ^C _R	PQ0803SSD ^C _R	PQ1003SSD ^C _R	PQ1203SSD ^C _R	PQ1403SSD ^C _R	PQ1603SSD ^C _R	PQ1803SSD ^C _R	PQ2003SSD ^C _R
Power supply			3ø - 220V / 380V / 440V - 60Hz								
Refrigerating capacity		Kcal/hr	193,600	242,000	304,000	368,900	427,200	483,900	544,400	604,800	
Power consumption		kW	52	66	77	100.6	115.8	128.9	142	162	
220V Running ampere		A	152	192	230	300	345.4	384	423	483	
380V Running ampere		A	88	118	132.9	174	200	223	245	280	
440V Running ampere		A	76	96	115	150	173	192	212	242	
220V Starting ampere		A	531	674	804	1050	1209	1345	1482	1691	
380V Starting ampere		A	307	413	465	608	700	779	858	979	
440V Starting ampere		A	265	337	402	525	604	673	741	845	
Capacity control		%	100, 75, 50, 0								
Compressor	Type		Screw semi-hermetic								
	Quantity		2								
	Starting method		Y- Δ								
	Revolution	r.p.m	3550								
	Crankcase heater	W	150x2								
Refrigerant Oil	Type		SUNISO 4GS								
	Quantity	L	7x2	9x2	9x2	11x2	11x2	11x2	13x2	13x2	
Refrigerant	Type		R-22								
	Quantity	kg	17x2	20x2	25x2	31x2	34x2	40x2	45x2	50x2	
	Control		Thermostatic expansion valve								
Chiller	Type		Shell and tube								
	Quantity		1								
	Water flow rate	m ³ /h	38.7	48.4	60.8	73.8	85.4	96.8	108.9	121.0	
	Head loss	M	5.5	5.8	5.8	5.8	6.3	6.6	6.6	6.6	
	Pipe size	B	4B					6B			
Condenser	Type		Shell and tube								
	Quantity		1		2						
	Water flow rate	m ³ /h	48.4	60.5	76.0	92.2	106.8	121.0	136.1	151.2	
	Head loss	M	5.2	5.2	5.2	5.2	6.3	6.3	6.3	6.3	
	Pipe size	B	PT 4"		PT 3"x2			PT 4"x2			
Protection devices			High/low pressure switch, chilled water low temp. switch, fusible plug, thermal overload, compressor internal thermostat, thermostat, phase reversal relay.								
Dimensions	A	mm	2700	3000	3500	3500	3600	3850	3900	4130	
	B	mm	900	900	1000	1000	1100	1100	1100	1100	
	C	mm	1530	1530	1600	1600	1700	1900	2050	2050	
	D	mm	1400	1400	1400	1400	1600	1600	1800	1800	
	E	mm	800	800	900	900	1000	1000	1000	1000	
	F	mm	1050	1050	1100	1100	1300	1300	1300	1300	
Net weight		kg	1600	1800	2300	2380	2950	3200	3850	4200	
Operating weight		kg	1750	1980	2500	2580	3200	3500	4150	4550	

Note: 1. Nominal cooling capacity conditions: chilled water in 12°C, out 7°C cooling water in 30°C, out 35°C, Fouling factor: 0.001m²°C/W.

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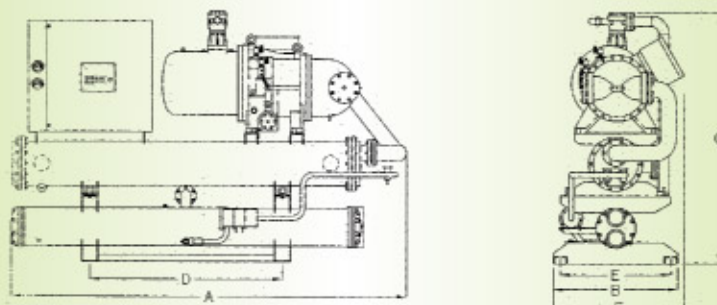
Specifications

Item			Model	C PQ2403SSD R	PQ2803SSD R	PQ3003SSD R	PQ3303SSD R	PQ3603SSD R	PQ4003SSD R	PQ4503SSD R
Power supply				3φ - 220V / 380V / 440V - 60Hz						
Refrigerating capacity		Kcal/hr		725,800	846,800	907,200	967,800	1,088,700	1,209,600	1,360,800
Power consumption		kW		194	230	236.3	253	285.2	312	362
220V Running ampere		A		579	-	-	-	-	-	-
380V Running ampere		A		335	397	408	437	471	515	625
440V Running ampere		A		289	343	352	377	407	445	540
220V Starting ampere		A		2025	-	-	-	-	-	-
380V Starting ampere		A		1172	1390	1428	1529	1649	1803	2188
440V Starting ampere		A		1012	1200	1233	1320	1424	1558	1889
Capacity control		%		100, 75, 50, 0						
Compressor	Type			Screw semi-hermetic						
	Quantity			2						
	Starting method			Y- △						
	Revolution	r.p.m		3550						
	Crankcase heater	W		150X2						
Refrigerant Oil	Type			SUNISO 4GS						
	Quantity	L		13x2	13x2	13x2	18x2	20x2	20x2	23x2
Refrigerant	Type			R-22						
	Quantity	kg		60x2	70x2	75x2	85x2	90x2	100x2	115x2
	Control			Thermostatic expansion valve						
Chiller	Type			Shell and tube						
	Quantity			1						
	Water flow rate	m ³ /h		145.2	169.4	181.4	199.6	217.8	241.9	272.2
	Head loss	M		6.6	8	8	9	9	9	11
	Pipe size	B		6B			8B			
Condenser	Type			Shell and tube						
	Quantity			2						
	Water flow rate	m ³ /h		181.5	211.7	226.8	249.5	272.2	302.4	340.2
	Head loss	M		6.6	6.6	6.6	6.6	6.6	6.6	6.6
	Pipe size	B		PT4"x2	5Bx2					6Bx2
Protection devices				High/low pressure switch, chilled water low temp. switch, fusible plug, thermal overload, compressor internal thermostat, thermostat, phase reversal relay.						
Dimensions	A	mm		4250	4250	4200	4500	5000	5200	3000
	B	mm		1100	1400	1400	1400	1400	1400	1400
	C	mm		2300	2300	2300	2400	2400	2450	2500
	D	mm		1800	1800	1800	1800	2000	2000	2000
	E	mm		1000	1300	1300	1300	1300	1300	1300
	F	mm		1300	1500	1500	1500	1500	1500	1500
Net weight		kg		4530	5000	5800	6000	6300	7400	7900
Operating weight		kg		4930	5400	6200	6450	6750	7850	8400

Note: 1. Nominal cooling capacity conditions: chilled water in 12°C, out 7°C cooling water in 30°C, out 35°C, Fouling factor: 0.001m²°C/W.

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Specifications

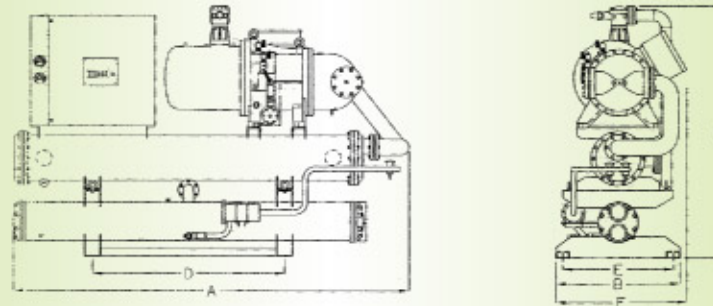
Item		Model	PQ0403SSS R	PQ0503SSS R	PQ0703SSS R	PQ1003SSS R
Power supply			3φ - 220V / 380V / 440V - 60Hz			
Refrigerating capacity		Kcal/hr	120,000	135,000	180,000	240,000
Power consumption		kW	32.2	36.2	48.2	64
220V	Running ampere	A	97	109	145	193
380V	Running ampere	A	56	63	84	112
440V	Running ampere	A	84	94	126	167
220V	Starting ampere	A	583	655	872	1158
380V	Starting ampere	A	337	379	505	671
440V	Starting ampere	A	503	566	753	1000
Capacity control		%	100, 75, 50, 0			
Compressor	Type		Screw semi-hermetic			
	Quantity		1			
	Starting method		Y-Δ			
	Revolution	r.p.m	3550			
	Crankcase heater	W	150			
Refrigerant Oil	Type		SOLEST 120			
	Quantity	L	11	11	13	13
Refrigerant	Type		R-134a			
	Quantity	kg	20	22.5	30	40
	Control		Thermostatic expansion valve			
Chiller	Type		Shell and tube			
	Quantity		1			
	Water flow rate	m ³ /h	24.0	27.0	36.0	48.0
	Head loss	M	4.5	4.8	5	52
	Pipe size	B	PT 3"			
Condenser	Type		Shell and tube			
	Quantity		1			
	Water flow rate	m ³ /h	29.8	33.5	44.6	59.5
	Head loss	M	5	5.8	5.8	6
	Pipe size	B	PT 3"			
Protection devices			High/low pressure switch, chilled water low temp. switch, fusible plug, thermal overload, compressor internal thermostat, thermostat, phase reversal relay.			
Dimensions	A	mm	2250	2500	2850	2920
	B	mm	750	900	900	900
	C	mm	1400	1500	1630	1840
	D	mm	950	1200	1200	1400
	E	mm	650	800	800	800
	F	mm	940	900	900	1150
Net weight		kg	1110	1400	1590	1800
Operating weight		kg	1210	1550	1740	1950

Note: 1. Nominal cooling capacity conditions: chilled water in 12°C, out 7°C cooling water in 30°C, out 35°C, Fouling factor: 0.001m²°C/W.

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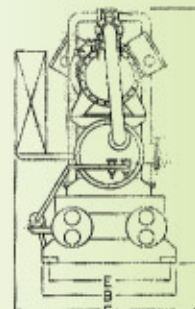
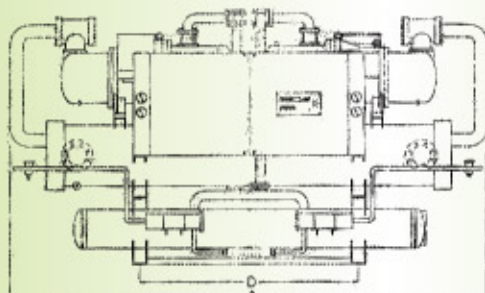
Item		Model	PQ1003SSS R	PQ1103SSS R	PQ1303SSS R	PQ1503SSS R
Power supply			3φ - 220V / 380V / 440V - 60Hz			
Refrigerating capacity		Kcal/hr	302,500	332,650	393,150	453,600
Power consumption		kW	80.1	88	103.7	119
220V Running ampere		A	238	-	-	-
380V Running ampere		A	138	150	177	203
440V Running ampere		A	119	130	153	175
220V Starting ampere		A	1425	-	-	-
380V Starting ampere		A	825	901	1062	1219
440V Starting ampere		A	713	778	917	1100
Capacity control		%	100, 75, 50, 0			
Compressor	Type		Screw semi-hermetic			
	Quantity		1			
	Starting method		Y- Δ			
	Revolution	r.p.m	3550			
	Crankcase heater	W	150			
Refrigerant Oil	Type		SOLEST 120			
	Quantity	L	13	13	19	23
Refrigerant	Type		R-134a			
	Quantity	kg	50	55	65	75
	Control		Thermostatic expansion valve			
Chiller	Type		Shell and tube			
	Quantity		1			
	Water flow rate	m ³ /h	60.5	66.5	78.6	90.7
	Head loss	M	6	6.3	6.6	6.6
	Pipe size	B	4B			
Condenser	Type		Shell and tube			
	Quantity		1			
	Water flow rate	m ³ /h	75.0	82.5	97.5	112.5
	Head loss	M	6	6.3	6.3	6.3
	Pipe size	B	PT 4"			
Protection devices			High/low pressure switch, chilled water low temp. switch, fusible plug, thermal overload, compressor internal thermostat, thermostat, phase reversal relay.			
Dimensions	A	mm	2920	3230	3500	3500
	B	mm	900	900	900	900
	C	mm	1900	1900	1950	2050
	D	mm	1400	1800	1800	1800
	E	mm	800	800	800	800
	F	mm	950	950	1050	1050
Net weight		kg	2120	2210	3320	3520
Operating weight		kg	2300	2410	3570	3700

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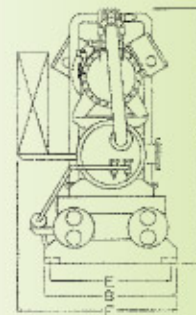
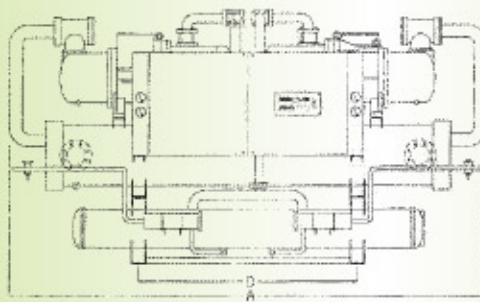
Item		Model	C PQ0603SSD R	C PQ0803SSD R	C PQ0903SSD R	C PQ1203SSD R
Power supply			3φ - 220V / 380V / 440V - 60Hz			
Refrigerating capacity		Kcal/hr	181,440	240,000	270,000	360,000
Power consumption		kW	49.8	64.4	72.4	96.4
220V Running ampere		A	150	194	218	291
380V Running ampere		A	87	112	126	168
440V Running ampere		A	75	97	109	145
220V Starting ampere		A	1052	1360	1529	2036
380V Starting ampere		A	609	787	885	1178
440V Starting ampere		A	526	680	764	1018
Capacity control		%	100, 75, 50, 0			
Compressor	Type		Screw semi-hermetic			
	Quantity		2			
	Starting method		Y- Δ			
	Revolution	r.p.m	3550			
	Crankcase heater	W	150 x 2			
Refrigerant Oil	Type		SOLEST 120			
	Quantity	L	11 x 2	11 x 2	11 x 2	13 x 2
Refrigerant	Type		R-134a			
	Quantity	kg	15 x 2	20 x 2	22.5 x 2	30 x 2
	Control		Thermostatic expansion valve			
Chiller	Type		Shell and tube			
	Quantity		1			
	Water flow rate	m ³ /h	36.3	48.0	54.0	72.0
	Head loss	M	5	5.8	6	6.3
	Pipe size	B	PT 3"	4B		
Condenser	Type		Shell and tube			
	Quantity		1		2	
	Water flow rate	m ³ /h	45.0	59.5	67.0	89.3
	Head loss	M	5.8	5.2	6	6.3
	Pipe size	B	PT 4"		PT 3" x 2	
Protection devices			High/low pressure switch, chilled water low temp. switch, fusible plug, thermal overload, compressor internal thermostat, thermostat, phase reversal relay.			
Dimensions	A	mm	3100	3270	3330	3470
	B	mm	900	900	1000	1000
	C	mm	1600	1570	1570	1700
	D	mm	1300	1400	1400	1400
	E	mm	800	800	900	900
	F	mm	1100	1000	1150	1150
Net weight		kg	1900	2380	2700	3100
Operating weight		kg	2050	2560	2900	3400

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Specifications

Item		Model	PQ1603SSD R	PQ2003SSD R	PQ2203SSD R	PQ2603SSD R	PQ3003SSD R
Power supply			3φ - 220V / 380V / 440V - 60Hz				
Refrigerating capacity		Kcal/hr	480,000	605,000	665,300	786,300	907,200
Power consumption		kW	128	160.2	176	207.4	238
220V Running ampere		A	386	475	-	-	-
380V Running ampere		A	224	275	300	354	406
440V Running ampere		A	193	238	259	306	351
220V Starting ampere		A	2703	3325	-	-	-
380V Starting ampere		A	1565	1925	2103	2478	2844
440V Starting ampere		A	1351	1663	1816	2141	2456
Capacity control		%	100, 75, 50, 0				
Compressor	Type		Screw semi-hermetic				
	Quantity		2				
	Starting method		Y-Δ				
	Revolution	r.p.m	3550				
	Crankcase heater	W	150 x 2				
Refrigerant Oil	Type		SOLEST 120				
	Quantity	L	13 x 2	13 x 2	13 x 2	19 x 2	23 x 2
Refrigerant	Type		R-134a				
	Quantity	kg	40 x 2	50 x 2	55 x 2	65 x 2	75 x 2
	Control		Thermostatic expansion valve				
Chiller	Type		Shell and tube				
	Quantity		1				
	Water flow rate	m ³ /h	96.0	121.0	133.1	157.3	181.4
	Head loss	M	6.6	6.6	6.6	7	8
	Pipe size	B	6B				
Condenser	Type		Shell and tube				
	Quantity		2				
	Water flow rate	m ³ /h	119.0	150.0	165.0	195.0	225.0
	Head loss	M	6.3	6.3	6.6	6.6	6.6
	Pipe size	B	PT 4" x 2				
Protection devices			High/low pressure switch, chilled water low temp. switch, fusible plug, thermal overload, compressor internal thermostat, thermostat, phase reversal relay.				
Dimensions	A	mm	3820	4250	4300	4450	4450
	B	mm	1100	1100	1100	1400	1400
	C	mm	1940	1990	2030	2300	2360
	D	mm	1800	1800	1800	1800	1800
	E	mm	1000	1000	1000	1300	1300
	F	mm	1250	1250	1250	1560	1500
Net weight		kg	3600	3800	4500	5600	6200
Operating weight		kg	3950	4200	4920	6050	6700

Note: 1. Nominal cooling capacity conditions: chilled water in 12°C, out 7°C cooling water in 30°C, out 35°C, Fouling factor: 0.001m²°C/W.

- Specifications are subject to change without notice for further improvement.
- If you have any special requirement, please inform us before placing order.

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