

Model		ZCS-040WS	ZCS-050WS	ZCS-060WS	ZCS-075WS	ZCS-085WS	ZCS-100WS	ZCS-120WS	ZCS-140WS	ZCS-160WS	ZCS-180WS	ZCS-200WS	ZCS-220WS	ZCS-240WS	
Item															
Nominal cooling capacity	kcal/h	103888	130204	152564	212420	241660	276060	342280	375820	405060	517720	595120	675100	763680	
	kw	120.8	151.4	177.4	247	281	321	398	437	471	602	692	785	888	
Total input power	kw	30.9	37.9	43.3	56.8	65	74	90.3	97.6	112.2	135.9	153.9	172.4	194.8	
Max.Running current	A	71	84	128	133	140	160	195	221	254	291	333	383	431	
Power		3PH-380V-50HZ (200V ~ 600V 50HZ/60HZ)													
Refrigerant	Type	R22 (R410A or R407C)													
	Refrigerant charge	kg	22	27	33	42	48	55	68	77	88	105	112	125	137
	Control method	thermostatic expansion valve													
Compressor	Type	Semi-hermetic screw													
	Power	kw	30.9	37.9	43.3	56.8	65	74	90.3	97.6	112.2	135.9	153.9	172.4	194.8
	Start-up mode	Y-Δ													
	Capacity control	%	0-25-50-75-100												
Evaporator	Type	Shell and Tube													
	Chilled fluid flow	m3/h	20.7	26	30.4	42.3	48.2	55	68.2	74.9	80.7	103.2	118.6	134.6	152.2
	Inlet/outlet pipe diameter	Inch	3"	3"	3"	3"	4"	4"	4"	5"	5"	6"	6"	6"	6"
Condenser	Type	Shell and Tube													
	Cooling water flow	m3/h	26	32.5	37.8	52.1	59.3	67.7	83.7	91.6	100	126.5	145	164.1	185.6
	Intet/outlet pipe caliber	Inch	3"	3"	3"	3"	4"	4"	4"	5"	5"	6"	6"	6"	6"
Safety protection		Compressor over temperature,over current,high and low pressure,flow switch,phase sequence,phase-missing,exhaust Overheating,antifreezing.													
Dimension	mm	1960*855*1540	2130*855*1540	2450*985*1600	2450*985*1600	2750*1050*1600	2750*1050*1600	2750*1050*1730	2750*1050*1730	3460*1250*1730	3460*1350*1760	3460*1350*1760	3460*1350*1760	3460*1550*1820	
Net weight	Kg	820	950	1120	1300	1560	1720	2030	2200	2410	2630	2950	3050	3160	
Running weight	Kg	970	1060	1270	1480	1780	1960	2250	2430	2470	2920	3210	3270	3420	

Note : 1.Nominal cooling capacity calculated according to: Inlet/outlet chilled fluid temperature : 12°C/7°C.Inlet/outlet cooling water temperature: 30°C/35°C.  
2.Working condition : The temperature range of chilled fluid is from 5°C to 30°C. Temperature difference between inlet and outlet chilled fluid is from 3°C to 8°C.  
The temperature range of cooling water from 18°C to 30°C Temperature difference between inlet and outlet cooling water is from 3.5°C to 10°C.  
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Model		ZCS-100WD	ZCS-120WD	ZCS-150WD	ZCS-170WD	ZCS-200WD	ZCS-240WD	
Item								
Nominal cooling capacity	kcal/h	260408	305128	424840	483320	552120	684560	
	kw	302.8	354.8	494	562	642	796	
Total input power	kw	75.8	86.6	113.6	130	148	180.6	
Max.Running current	A	168	256	246	280	320	390	
Power		3PH-380V-50HZ (200 ~ 600V 50HZ/60HZ)						
Refrigerant	Type	R22 (R410A or R407C)						
	Refrigerant charge	kg	55	68	85	96	112	135
	Control method	thermostatic expansion valve						
Compressor	Type	Semi-hermetic screw						
	Power	kw	37.9×2	43.3×2	56.8×2	65×2	74×2	90.3×2
	Start-up mode	Y-Δ						
	Capacity control	%	0-25-50-75-100					
Evaporator	Type	Shell and Tube						
	Chilled fluid flow	m3/h	51.9	60.8	84.7	96.3	110.1	136.5
	Inlet/outlet pipe diameter	Inch	4"	4"	5"	6"	6"	6"
Condenser	Type	Shell and Tube						
	Cooling water flow	m3/h	64.9	75.7	104.2	118.6	135.4	167.4
	Intet/outlet pipe caliber	Inch	4"	4"	5"	4"×2	4"×2	4"×2
Safety protection		Compressor over temperature,over current,high and low pressure,flow switch,phase sequence,phase-missing,exhaust Overheating,antifreezing.						
Dimension (L*W*H)	mm	2950*765*1750	2950*765*1750	2950*765*1750	3580*875*1950	3580*875*1950	3750*1320*2150	
Net weight	Kg	1920	2250	2610	2820	3460	3920	
Running weight	kg	2230	2550	2860	3240	3830	4330	

Note : 1.Nominal cooling capacity calculated according to: Inlet/outlet chilled fluid temperature : 12°C/7°C.Inlet/outlet cooling water temperature: 30°C/35°C.

2.Working condition : The temperature range of chilled fluid is from 5°C to 30°C. Temperature difference between inlet and outlet chilled fluid is from 3°C to 8°C.

The temperature range of cooling water from 18°C to 30°C Temperature difference between inlet and outlet cooling water is from 3.5°C to 10°C.

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Model		ZCS-280WD	ZCS-320WD	ZCS-360WD	ZCS-400WD	ZCS-440WD	ZCS-480WD	
Item								
Nominal cooling capacity	kcal/h	751640	810120	1035440	1190240	1350200	1527360	
	kw	874	942	1204	1384	1570	1776	
Total input power	kw	195.2	224.4	271.8	307.8	344.8	389.6	
Max.Running current	A	442	508	582	666	766	862	
Power		3PH-380V-50HZ (200V ~ 600V 50HZ/60HZ)						
Refrigerant	Type	R22 (R410A or R407C)						
	Refrigerant charge	kg	160	182	205	230	255	278
	Control method	thermostatic expansion valve						
Compressor	Type	Semi-hermetic screw						
	Power	kw	97.6×2	112.2×2	135.9×2	153.9×2	172.4×2	194.8×2
	Start-up mode	Y-Δ						
	Capacity control	%	0-25-50-75-100					
Evaporator	Type	Shell and Tube						
	Chilled fluid flow	m3/h	151.7	178.8	196	222.2	241	268.6
	Inlet/outlet pipe diameter	Inch	6"	6"	8"	8"	8"	8"
Condenser	Type	Shell and Tube						
	Cooling water flow	m3/h	186.1	219.8	241.4	275.1	298.2	330.5
	Intet/outlet pipe caliber	Inch	5"×2	5"×2	6"×2	6"×2	6"×2	6"×2
Safety protection		Compressor over temperature,over current,high and low pressure,flow switch,phase sequence,phase-missing,exhaust Overheating,antifreezing.						
Dimension (L*W*H)	mm	3750*1320*2150	3750*1320*2150	4230*1580*2230	4230*1580*2230	4230*1580*2230	4420*1760*2360	
Net weight	Kg	4230	4730	5380	5810	5920	6450	
Running weight	kg	4560	5150	5860	6050	6330	6730	

Note : 1.Nominal cooling capacity calculated according to: Inlet/outlet chilled fluid temperature : 12°C/7°C.Inlet/outlet cooling water temperature: 30°C/35°C.

2.Working condition : The temperature range of chilled fluid is from 5°C to 30°C. Temperature difference between inlet and outlet chilled fluid is from 3°C to 8°C.

The temperature range of cooling water from 18°C to 30°C Temperature difference between inlet and outlet cooling water is from 3.5°C to 10°C.

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Model		ZCS-300WF	ZCS-340WF	ZCS-400WF	ZCS-480WF	ZCS-560WF	ZCS-640WF	ZCS-720WF	
Item									
Nominal cooling	kcal/h	849680	966640	1104240	1369120	1503280	1620240	2070880	
capacity	kw	988	1124	1284	1592	1748	1884	2408	
Total input power	kw	227.2	260	296	361.2	390.4	448.8	543.6	
Max.Running current	A	496	560	640	780	884	1016	1164	
Power		3PH-380V-50HZ (200V~600V 50HZ/60HZ)							
Refrigerant	Type	R22 (R410A or R407C)							
	Refrigerant charge	kg	168	190	228	274	325	371	418
	Control method		thermostatic expansion valve						
Compressor	Type	Semi-hermetic screw							
	Power	kw	37.9×4	65×4	74×4	90.3×4	97.6×4	112.2×4	135.9×4
	Start-up mode		Y-△						
	Capacity control	%	0-25-50-75-100						
Evaporator	Type	Shell and Tube							
	Chilled fluid flow	m3/h	169.4	192.7	220.1	272.9	299.7	323	412.8
	Inlet/outlet pipe diameter	Inch	6"	8"	8"	10"	10"	10"	10"
Condenser	Type	Shell and Tube							
	Cooling water flow	m3/h	208.3	237.3	270.9	334.8	366.6	399.9	506
	Intet/outlet pipe caliber	Inch	5"×2	5"×2	6"×2	6"×2	8"×2	8"×2	8"×2
Safety protection		Compressor over temperature,over current,high and low pressure,flow switch,phase sequence,phase-missing,exhaust Overheating,antifreezing.							
Dimension (L*W*H)		mm	3860*1830*2350	3860*1950*2470	3860*1930*2560	4120*2130*2630	4310*2350*2630	4310*2350*2630	4310*2350*2750
Net weight	Kg	5030	5410	5850	7220	7850	8830	9860	
Running weight	kg	5480	5870	6230	7630	8360	9420	10820	

Note : 1.Nominal cooling capacity calculated according to: Inlet/outlet chilled fluid temperature : 12°C/7°C.Inlet/outlet cooling water temperature: 30°C/35°C.

2.Working condition : The temperature range of chilled fluid is from 5°C to 30°C. Temperature difference between inlet and outlet chilled fluid is from 3°C to 8°C.

The temperature range of cooling water from 18°C to 30°C Temperature difference between inlet and outlet cooling water is from 3.5°C to 10°C.

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