



OIL FREE CENTRIFUGAL CHILLER

I 07 Oil free Centrifugal Chiller

WATER-COOLED OIL FREE CENTRIFUGAL CHILLER



MODEL		CC0440PWNI	CC0530PWNI	CC0630PWNI	CC0880PWNI	CC0980PWNI	CC1100PWNI	CC1230PWNI	
Cooling capacity	RT	125	150	180	250	280	300	350	
	kW	440	528	633	879	985	1100	1231	
Power input	kW	74.8	89	102.9	144.5	162.5	180	189.4	
EER		5.88	5.93	6.15	6.08	6.06	6.11	6.50	
IPLV_AHRI	kW/kW	11.38	11.47	11.45	12.09	11.89	12.18	12.10	
Starting current	A	2	2	2	2	2	2	2	
Max. running current	A	145	180	180	290	355	360	360	
Safe protection		High/low pressure protection, safety protection, short of water relay protection, anti-frozen protection, motor overload, phase sequence and lack of phase protection							
Compressor	Type	Magnetic bearing compressor							
	Starting mode	Soft start							
	Quantity	1	1	1	2	2	2	2	
Power supply	Ph/V/Hz	3~380.50Hz							
Refrigerant throttle type		Electronic expansion valves							
Capacity control		2%-100%							
Controller type		PLC control							
Refrigerant	Type	R134a							
	Charge	kg	150	200	200	300	350	400	435
Evaporator	Type	Flood type							
	Water inlet/outlet temp	12°C/7°C							
	Inlet/outlet pipe	DN	150	150	150	200	200	200	200
	Rated water flow	m³/h	75	90	105	150	165	185	208
	Water dirt coefficient	(m²·°C/kW)	0.0172						
	Standard pressure	MPa	1.0						
Water side resistance	KPa	80	70	75	55	55	57	51	
Condenser	Type	Shell & Tube heat exchanger							
	Water inlet/outlet temp	30°C/35°C							
	Inlet/outlet pipe	DN	150	150	150	200	200	200	200
	Rated water flow	m³/h	88	105	125	175	195	220	245
	Water dirt coefficient	(m²·°C/kW)	0.044						
	Standard pressure	MPa	1.0						
Water side resistance	KPa	45	35	48	28	34	30	40	
External dimension	Unit length	mm	2495	2495	2495	4400	4615	4400	4400
	Unit width	mm	1170	1170	1170	1170	1170	1170	1170
	Unit height	mm	2100	2100	2100	2100	2100	2100	2100
Package dimension	Unit length	mm	2550	2550	2550	4450	4665	4450	4450
	Unit width	mm	1435	1435	1435	1435	1435	1435	1435
	Unit height	mm	2200	2200	2200	2200	2200	2200	2200
Weight	Gross weight	kg	2370	2480	2505	3370	3550	3800	4885
	Unit weight	kg	2410	2520	2550	3420	3600	3850	4935
	Operation weight	kg	2650	2750	2785	4050	4325	4500	5185

- Note: 1. Nominal working condition (cooling): water inlet temp. 12°C, water outlet temp. 7°C, ambient temp. 35°C
 2. The water dirt coefficient of evaporator side is 0.172m³/(h·kW), condenser side water dirt coefficient is 0.044 m³/(h·kW)
 3. CC0440PWNI-CC1330PWNI model dimensions is waterway series connection, CC1400PWNI-CC2640PWNI model dimensions is waterway parallel connection
 4. Above parameters is based on the standard products (No special anticorrosive processing)
 5. Above products standard pressure is 1.0 Mpa, if pressure higher than 1.0 Mpa, should contact with haier technology engineer
 6. Except above standard models, haier also can be customized products according to customers' requirements
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WATER-COOLED OIL FREE CENTRIFUGAL CHILLER



MODEL		CC1330PWNI	CC1400PWNI	CC1510PWNI	CC1580PWNI	CC1690PWNI	CC1760PWNI	
Cooling capacity	RT	380	400	430	450	480	500	
	kW	1336	1407	1512	1583	1688	1759	
Power input	kW	214.8	215.8	243.1	241.7	270.1	263.3	
EER		6.22	6.52	6.22	6.55	6.25	6.68	
IPLV_AHRI	kW/kW	12.02	11.98	11.94	12.01	11.82	12.09	
Starting current	A	2	2	2	2	2	2	
Max. running current	A	360	470	500	540	540	540	
Safe protection		High/low pressure protection, safety protection, short of water relay protection, anti-frozen protection, motor overload, phase sequence and lack of phase protection						
Compressor	Type	Magnetic bearing compressor						
	Starting mode	Soft start						
	Quantity	2	3	3	3	3	3	
Power supply	Ph/V/Hz	3~380.50Hz						
Refrigerant throttle type		Electronic expansion valves						
Capacity control		2%-100%						
Controller type		PLC control						
Refrigerant	Type	R134a						
	Charge	kg	435	500	500	600	600	600
Evaporator	Type	Flood type						
	Water inlet/outlet temp	12°C/7°C						
	Inlet/outlet pipe	DN	200	250	250	250	250	250
	Rated water flow	m³/h	220	236	255	268	285	295
	Water dirt coefficient	(m²·°C/kW)	0.0172					
	Standard pressure	MPa	1.0					
Water side resistance	KPa	65	42	50	40	45	45	
Condenser	Type	Shell & Tube heat exchanger						
	Water inlet/outlet temp	30°C/35°C						
	Inlet/outlet pipe	DN	200	250	250	250	250	250
	Rated water flow	m³/h	260	280	300	315	335	348
	Water dirt coefficient	(m²·°C/kW)	0.044					
	Standard pressure	MPa	1.0					
Water side resistance	KPa	35	25	35	40	37	42	
External dimension	Unit length	mm	4400	6640	6640	6420	6420	6420
	Unit width	mm	1170	1170	1170	1170	1170	1170
	Unit height	mm	2100	2100	2100	2100	2100	2100
Package dimension	Unit length	mm	4450	6700	6700	6500	6500	6500
	Unit width	mm	1435	1435	1435	1435	1435	1435
	Unit height	mm	2200	2200	2200	2200	2200	2200
Weight	Gross weight	kg	5070	6425	6540	6775	7080	7255
	Unit weight	kg	5120	6500	6615	6850	7155	7330
	Operation weight	kg	6050	7000	7150	7520	8025	8200

- Note: 1. Nominal working condition (cooling): water inlet temp. 12°C, water outlet temp. 7°C, ambient temp. 35°C
 2. The water dirt coefficient of evaporator side is 0.172m³/(h·kW), condenser side water dirt coefficient is 0.044 m³/(h·kW)
 3. CC0440PWNI-CC1330PWNI model dimensions is waterway series connection, CC1400PWNI-CC2640PWNI model dimensions is waterway parallel connection
 4. Above parameters is based on the standard products (No special anticorrosive processing)
 5. Above products standard pressure is 1.0 Mpa, if pressure higher than 1.0 Mpa, should contact with haier technology engineer
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WATER-COOLED OIL FREE CENTRIFUGAL CHILLER



MODEL		CC1930PWNI	CC2110PWNI	CC2290PWNI	CC2460PWNI	CC2640PWNI	
Cooling capacity	RT	550	600	650	700	750	
	kW	1934	2110	2286	2462	2637	
Power input	kW	297.1	320.2	337.2	362.1	395.9	
EER		6.51	6.59	6.78	6.80	6.66	
IPLV_AHRI	kW/kW	12.11	12.04	12.17	12.09	12.08	
Starting current	A	2	2	2	2	2	
Max. running current	A	540	720	720	720	720	
Safe protection		High/low pressure protection, safety protection, short of water relay protection, anti-frozen protection, motor overload, phase sequence and lack of phase protection					
Compressor	Type	Magnetic bearing compressor					
	Starting mode	Soft start					
	Quantity	3	4	4	4	4	
Power supply	Ph/V/Hz	3~380.50Hz					
Refrigerant throttle type		Electronic expansion valves					
Capacity control		2%-100%					
Controller type		PLC control					
Refrigerant	Type	R134a					
	Charge	kg	600	800	800	800	
Evaporator	Type	Flood type					
	Water inlet/outlet temp	12°C/7°C					
	Inlet/outlet pipe	DN	250	250	250	250	
	Rated water flow	m³/h	330	360	388	418	
	Water dirt coefficient	(m²·°C/kW)	0.0172				
	Standard pressure	MPa	1.0				
Water side resistance	KPa	50	50	55	57	58	
Condenser	Type	Shell & Tube heat exchanger					
	Water inlet/outlet temp	30°C/35°C					
	Inlet/outlet pipe	DN	250	250	250	250	
	Rated water flow	m³/h	385	418	451	485	
	Water dirt coefficient	(m²·°C/kW)	0.044				
	Standard pressure	MPa	1.0				
Water side resistance	KPa	42	45	50	52	55	
External dimension	Unit length	mm	6420	4720	4720	4720	
	Unit width	mm	1170	2260	2260	2260	
	Unit height	mm	2100	2100	2100	2100	
Package dimension	Unit length	mm	6500	4750	4750	4750	
	Unit width	mm	1435	2500	2500	2500	
	Unit height	mm	2200	2200	2200	2200	
Weight	Gross weight	kg	7545	9815	9965	10650	
	Unit weight	kg	7620	9922	10070	10755	
	Operation weight	kg	8555	10730	10880	11568	

Note: 1. Nominal working condition (cooling): water inlet temp. 12°C, water outlet temp. 7°C, ambient temp. 35°C
 2. The water dirt coefficient of evaporator side is 0.172m³/(h·kW), condenser side water dirt coefficient is 0.044 m³/(h·kW)
 3. CC0440PWNI-CC1330PWNI model dimensions is waterway series connection, CC1400PWNI-CC2640PWNI model dimensions is waterway parallel connection
 4. Above parameters is based on the standard products (No special anticorrosive processing)
 5. Above products standard pressure is 1.0 Mpa, if pressure higher than 1.0 Mpa, should contact with haier technology engineer
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WATER-COOLED OIL FREE CENTRIFUGAL CHILLER



MODEL		CC2810PWNI	CC3170PWNI	CC3520PWNI	CC3870PWNI	
Cooling capacity	RT	800	900	1000	1100	
	kW	2814	3165	3517	3869	
Power input	kW	416.9	460.7	488.5	551.1	
EER		6.75	6.87	7.20	7.02	
IPLV_AHRI	kW/kW	12.03	12.03	12.01	12.03	
Starting current	A	2	2	2	2	
Max. running current	A	975	975	1080	1200	
Safe protection		High/low pressure protection, safety protection, short of water relay protection, anti-frozen protection, motor overload, phase sequence and lack of phase protection				
Compressor	Type	Magnetic bearing compressor				
	Starting mode	Soft start				
	Quantity	5	5	6	6	
Power supply	Ph/V/Hz	3~380.50Hz				
Refrigerant throttle type		Electronic expansion valves				
Capacity control		2%-100%				
Controller type		PLC control				
Refrigerant	Type	R134a				
	Charge	kg	900	1000	1200	
Evaporator	Type	Flood type				
	Water inlet/outlet temp	12°C/7°C				
	Inlet/outlet pipe	DN	300	300	300	
	Rated water flow	m³/h	483.9	544.4	604.9	
	Water dirt coefficient	(m²·°C/kW)	0.0172			
	Standard pressure	MPa	1.0			
Water side resistance	KPa	82	82	88	88	
Condenser	Type	Shell & Tube heat exchanger				
	Water inlet/outlet temp	30°C/35°C				
	Inlet/outlet pipe	DN	350	350	350	
	Rated water flow	m³/h	563	633	704	
	Water dirt coefficient	(m²·°C/kW)	0.044			
	Standard pressure	MPa	1.0			
Water side resistance	KPa	82	82	85	85	
External dimension	Unit length	mm	5100	5100	5100	
	Unit width	mm	3050	3050	3050	
	Unit height	mm	2300	2300	2300	
Package dimension	Unit length	mm	5200	5200	5200	
	Unit width	mm	3500	3500	3500	
	Unit height	mm	2400	2400	2660	
Weight	Gross weight	kg	11350	11950	12600	
	Unit weight	kg	11500	12100	12750	
	Operation weight	kg	12000	12650	13350	

Note: 1. Nominal working condition (cooling): water inlet temp. 12°C, water outlet temp. 7°C, ambient temp. 35°C
 2. The water dirt coefficient of evaporator side is 0.172m³/(h·kW), condenser side water dirt coefficient is 0.044 m³/(h·kW)
 3. CC0440PWNI-CC1330PWNI model dimensions is waterway series connection, CC1400PWNI-CC2640PWNI model dimensions is waterway parallel connection
 4. Above parameters is based on the standard products (No special anticorrosive processing)
 5. Above products standard pressure is 1.0 Mpa, if pressure higher than 1.0 Mpa, should contact with haier technology engineer
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WATER-COOLED OIL FREE CENTRIFUGAL CHILLER



MODEL		CC4220PWNI	CC4570PWNI	CC4920PWNI	CC5280PWNI	
Cooling capacity	RT	1200	1300	1400	1500	
	kW	4220	4572	4924	5276	
Power input	kW	596.0	648.5	705.4	765.7	
	EER	7.08	7.05	6.98	6.89	
IPLV_AHRI	kW/kW	12.05	12.03	12.13	12.09	
Starting current	A	2	2	2	2	
	Max. running current	A	1440	1560	1687	1800
Safe protection		High/low pressure protection, safety protection, short of water relay protection, anti-frozen protection, motor overload, phase sequence and lack of phase protection				
Compressor	Type	Magnetic bearing compressor				
	Starting mode	Soft start				
	Quantity	7	7	8	8	
Power supply	Ph/V/Hz	3~380.50Hz				
Refrigerant throttle type		Electronic expansion valves				
Capacity control		2%-100%				
Controller type		PLC control				
Refrigerant	Type	R134a				
	Charge	kg	1600	1750	1850	2000
Evaporator	Type	Flood type				
	Water inlet/outlet temp	12°C/7°C				
	Inlet/outlet pipe	DN	350	400	400	400
	Rated water flow	m ³ /h	725.9	786.4	846.9	907.4
	Water dirt coefficient	(m ² ·°C/kW)	0.0172			
	Standard pressure	MPa	1.0			
Water side resistance	KPa	91	92	95	97	
Condenser	Type	Shell & Tube heat exchanger				
	Water inlet/outlet temp	30°C/35°C				
	Inlet/outlet pipe	DN	350	400	400	400
	Rated water flow	m ³ /h	844	913	984	1055
	Water dirt coefficient	(m ² ·°C/kW)	0.044			
	Standard pressure	MPa	1.0			
Water side resistance	KPa	89	85	85	96	
External dimension	Unit length	mm	5100	5600	5600	5600
	Unit width	mm	3050	3050	3050	3050
	Unit height	mm	2560	2890	2890	2890
Package dimension	Unit length	mm	5200	5700	5700	5700
	Unit width	mm	3500	3500	3500	3500
	Unit height	mm	2660	2950	2950	2950
Weight	Gross weight	kg	15350	16590	17930	19110
	Unit weight	kg	15500	16740	18079	19260
	Operation weight	kg	16550	17874	19304	21050

- Note:
1. Nominal working condition (cooling): water inlet temp. 12°C water outlet temp. 7°C, ambient temp. 35°C
 2. The water dirt coefficient of evaporator side is 0.172m²/(h·kW), condenser side water dirt coefficient is 0.044 m²/(h·kW)
 3. CC0440PWNI-CC1330PWNI model dimensions is waterway series connection; CC1400PWNI-CC2640PWNI model dimensions is waterway parallel connection
 4. Above parameters is based on the standard products (No special anticorrosive processing)
 5. Above products standard pressure is 1.0 Mpa, if pressure higher than 1.0 Mpa, should contact with haier technology engineer
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MODULAR WATER-COOLED OIL FREE CENTRIFUGAL CHILLER



MODEL		CC0352PWNM	CC0440PWNM	CC0528PWNM	CC0630PWNM	
Cooling capacity	RT	100	125	150	180	
	kW	352	438	528	630	
Power input	kW	68.3	85	94	109.9	
	EER	5.15	5.15	5.62	5.73	
IPLV_AHRI	kW/kW	10.28	10.41	10.15	10.22	
Starting current	A	2	2	2	2	
	Max. running current	A	125	145	180	180
Safe protection		High/low pressure protection, safety protection, short of water relay protection, anti-frozen protection, motor overload, phase sequence and lack of phase protection				
Compressor	Type	R134a				
	Starting mode	Soft start				
	Quantity	1	1	1	1	
Power supply	Ph/V/Hz	3~380.50Hz				
Refrigerant throttle type		Electronic expansion valves				
Capacity control		2%-100%				
Controller type		PLC				
Refrigerant	Type	R134a				
	Charge	kg	32	38	50	68
Evaporator	Type	Plate heat exchanger				
	Water inlet/outlet temp	12°C/7°C				
	Inlet/outlet pipe	DN	100	100	100	100
	Rated water flow	m ³ /h	61	75	91	105
	Water dirt coefficient	(m ² ·°C/kW)	0.0172			
	Standard pressure	MPa	1.0			
Water side resistance	KPa	72	75	80	80	
Condenser	Type	Plate heat exchanger				
	Water inlet/outlet temp	30°C/35°C				
	Inlet/outlet pipe	DN	100	100	100	100
	Rated water flow	m ³ /h	75	95	115	135
	Water dirt coefficient	(m ² ·°C/kW)	0.044			
	Standard pressure	MPa	1.0			
Water side resistance	KPa	31	42	45	55	
External dimension	Unit length	mm	1770	1770	1770	1770
	Unit width	mm	880	880	880	880
	Unit height	mm	1800	1800	1800	1800
Package dimension	Unit length	mm	1900	1900	1900	1900
	Unit width	mm	900	900	900	900
	Unit height	mm	2000	2000	2000	2000
Weight	Gross weight	kg	910	990	1250	1380
	Unit weight	kg	960	1040	1300	1430
	Operation weight	kg	1050	1130	1430	1570

- Note:
1. Nominal working condition (cooling): water inlet temp. 12°C water outlet temp. 7°C, ambient temp. 35°C
 2. The water dirt coefficient of evaporator side is 0.172m²/(h·kW), condenser side water dirt coefficient is 0.044 m²/(h·kW)
 3. Above parameters is based on the standard products (No special anticorrosive processing)
 4. Above products standard pressure is 1.0 Mpa, if pressure higher than 1.0 Mpa, should contact with haier technology engineer
 5. The series can realize modular combination, max 900RT with 6 modules
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