Anhui Coolnet Data Power Co.,LTD

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COOLNET

Innovation and Precision

CHILLER SERIES

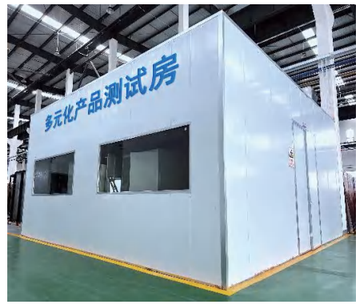
Product Portfolio

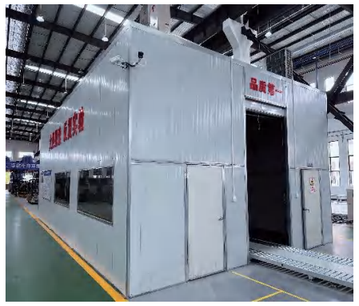
COMPANY PROFILE

Coolnet focuses on the R&D, production, and application of data center integrated solutions. As technical consulting, product supply, system integrator, and service provider, it is committed to serving customers in the fields of communication equipment rooms, data centers, smart construction, and energy management.

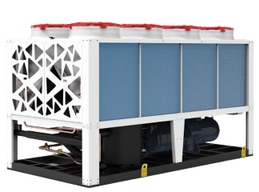
Our solutions include data center temperature, humidity, and energy-saving solutions, small and medium-sized computer room temperature control solutions, micro-module data center solutions, micro-module cabinet solutions, container, and modular data center solutions, communication outdoor cabinet temperature control and energy saving Solutions, cabinet temperature and humidity, and energy-saving solutions.

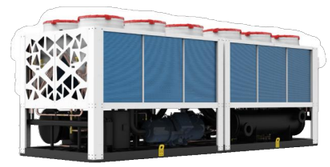
Has rich research and manufacturing experience in the field of data center equipment, with world-class laboratories, production testing equipment, and a complete line of key equipment rooms. And passed the ISO9001 quality management system certification, ISO14001 environmental management system certification, and the products have passed CE certification, CCC certification, CQC certification, CRAA quality certification, etc.





We are committed to "paying attention to customer needs and realizing customer value" and establishing a win-win cooperation pattern with customers. To become your most trustworthy, most grateful, most professional, most practical, and most reliable partner with the best vision. We will "make every effort to provide value for money products and services to make customers more competitive", and continue to explore and innovate.





WATER-COOLED SERIES UNIT

Dynamic gas bearing variable frequency centrifugal water-cooled chiller units

FEATURES OF THE UNIT

- dynamic gas bearing variable frequency centrifugal water-cooled chiller units is a centrifugal chiller that adopts the internationally leading dynamic pressure gas bearing structure.
- With high-quality components developed and designed meticulously by a professional team, relying on first-class manufacturing processes and rigorous experimental testing, it boasts advantages such as high efficiency and energy conservation, system stability, environmental friendliness, precise control, rapid start and stop, maintenance-free operation, low operating noise, and minimal vibration.
- The unit can be widely applied to various commercial buildings and process-oriented application scenarios, such as shopping malls, hotels, hospitals, office buildings, factories, etc.

Model	CNWCI		007012	012012	014512	019012	024512	029512	034512	039512	044512	049512	054022
Cooling Capacity		kW	246	422	510	672	862	1037	1213	1389	1565	1741	1899
		Tons	70	120	145	190	245	295	345	395	445	495	540
Input Power		kW	40.3	68.1	81.4	97.9	128.5	155.6	180.7	205.0	230.3	261.2	282.0
COP		kW/kW	6.11	6.20	6.27	6.86	6.71	6.67	6.72	6.78	6.80	6.67	6.73
GB-IPLV		kW/kW	8.19	8.33	8.60	10.04	9.66	9.59	9.59	9.64	9.65	9.59	9.66
Energy Efficiency Grade		—	1	1	1	1	1	1	1	1	1	1	1
Power		—	380V/3N~50Hz										
Starting Current		A	15	30	34	40	55	65	75	85	90	95	55
Maximum Current		A	96	160	180	260	290	360	390	450	490	520	620
Compressor	Type	—	Dynamic Pressure Air-Suspension Variable Frequency Centrifugal Compressor										
	quantity	PC	1	1	1	1	1	1	1	1	1	1	2
Evaporator	Type	—	Flooded Evaporator										
	Water flow rate	m³/h	42	73	88	116	148	178	209	239	269	299	327
	Water side pressure drop	kPa	67	39	36	53	45	44	48	41	43	44	50
	Water connection diameter	DN	100	125	150	150	200	200	200	250	250	250	250
Condenser	Type	—	Shell-and-Tube Condenser										
	Water flow rate	m³/h	53	91	110	144	185	223	261	299	336	374	408
	Water side pressure drop	kPa	82	47	42	52	42	37	42	33	36	37	68
	Water connection diameter	DN	100	125	150	150	200	200	200	250	250	250	250
Transport weight		kg	1600	2450	2500	3100	3200	4300	4400	5300	5400	5600	6700
Operating weight		kg	1750	2670	2740	3400	3530	4880	5020	6030	6160	6420	7610
Overall dimensions	D	mm	2100	3150	3150	3150	3150	3700	3700	3700	3700	3700	4700
	W	mm	1300	1400	1400	1500	1500	1600	1600	1800	1800	1800	1850
	H	mm	2050	2150	2150	2250	2250	2450	2450	2800	2800	2800	2600

Model	CNWCI		059022	064022	069022	074022	079022	084022	089022	094022	099022	105032	115032
Cooling Capacity		kW	2075	2251	2427	2602	2778	2954	3130	3306	3482	3693	4044
		Tons	590	640	690	740	790	840	890	940	990	1050	1150
Input Power		kW	305.8	335.2	356.6	385.2	410.1	440.6	460.5	489.4	521.6	543.4	590.0
COP		kW/kW	6.78	6.71	6.81	6.76	6.78	6.70	6.80	6.75	6.67	6.80	6.85
GB-IPLV		kW/kW	9.78	9.62	9.73	9.66	9.71	9.69	9.78	9.72	9.62	9.87	10.04
Energy Efficiency Grade		—	1	1	1	1	1	1	1	1	1	1	1
Power		—	380V/3N~50Hz										
Starting Current		A	65	65	75	75	85	85	90	90	95	85	85
Maximum Current		A	720	750	760	780	900	940	980	1000	1040	1260	1350
Compressor	Type	—	Dynamic Pressure Air-Suspension Variable Frequency Centrifugal Compressor										
	quantity	PC	2	2	2	2	2	2	2	2	2	3	3
Evaporator	Type	—	Flooded Evaporator										
	Water flow rate	m³/h	357	387	417	448	478	508	538	569	599	635	696
	Water side pressure drop	kPa	42	44	46	48	50	52	45	46	53	63	58
	Water connection diameter	DN	300	300	300	300	300	300	300	300	300	400	400
Condenser	Type	—	Shell-and-Tube Condenser										
	Water flow rate	m³/h	446	484	522	560	597	635	673	711	749	794	870
	Water side pressure drop	kPa	57	60	63	66	70	71	61	62	65	86	77
	Water connection diameter	DN	300	300	300	300	300	300	300	300	300	400	400
Transport weight		kg	7100	7200	7300	7350	8700	8800	8850	8900	9200	10600	11850
Operating weight		kg	8150	8300	8420	8560	10050	10150	10330	10470	10790	12490	14020
Overall dimensions	D	mm	4750	4750	4750	4750	5000	5000	5000	5000	5000	5500	5500
	W	mm	1900	1900	1900	1900	2000	2000	2000	2000	2000	3100	3100
	H	mm	2750	2750	2800	2800	3050	3050	3050	3050	3050	2900	2900

Notes:

1.The design and manufacturing standards for the above units refer to GB/T 18430.1 Vapor Compression Cycle Water Chillers (Heat Pumps) – Water Chillers (Heat Pumps) for Commercial & Similar Applications.
Operating Conditions: Chilled water outlet temperature: 7°C; Cooling water inlet temperature: 30°C.
Flow Coefficients: Chilled water: 0.172 $m^3/(h \cdot kW)$; Cooling water: 0.215 $m^3/(h \cdot kW)$.
Fouling Factors: Evaporator water side: 0.018 $m^2 \cdot °C/kW$; Condenser water side: 0.044 $m^2 \cdot °C/kW$.
2.The energy efficiency grade of the unit is determined according to the standard: GB19577-2024.
3.The design pressure for the water side of the evaporator and condenser is 1.0 MPa. For other pressure-bearing standards, please consult Fulaimeike for customization.
4.Models FWCI007012NNA to FWCI099022NNA adopt clamp connections, complying with the clamp standard GB5135.11-2006.
5.Models FWCI105032NNA to FWCI115032NNA adopt flange connections, complying with the flange standard HG/T20592.
6.The above parameters are subject to change with unit optimization without prior notice.
For special requirements, please specify the technical specifications before placing an order.

WATER-COOLED SERIES UNIT

Variable frequency water-cooled screw chiller

FEATURES OF THE UNIT

- Coolnet High-efficiency variable frequency water-cooled screw chillers adopt advanced on-board frequency conversion technology, along with advanced heat exchange technology, high-efficiency oil separation technology, and precise control technology, etc., and are meticulously manufactured with first-class craftsmanship.

- This product is widely used in air conditioning systems of civil buildings such as hotels, shopping malls, cinemas, hospitals, schools, and office buildings, as well as in process cooling processes like plastics, electronic manufacturing, ultrasonic cooling, pharmaceutical and chemical industries, providing customers with high-quality products and precise solutions.

- The chiller uses R134a refrigerant, which is environmentally friendly and energy-efficient.

Model		CNWEI	09512	10512	12512	14012	17012	19012	20512	21512	24012	27012	30512	32012	37012	41512
Power supply			380V/3N~50Hz													
Cooling capacity		KW	342	381	442	499	605	683	728	770	849	958	1070	1127	1301	1455
		RT	97	108	126	142	172	194	207	219	241	272	304	320	370	414
Power consumption		kW	60	64	75	85	99	112	119	126	140	158	176	182	204	229
COP		W/W	5.68	6.00	5.89	5.84	6.12	6.10	6.11	6.10	6.07	6.07	6.07	6.20	6.38	6.36
IPLV		W/W	7.83	8.28	8.13	8.05	8.48	8.45	8.46	8.45	8.40	8.41	8.40	8.59	8.84	8.81
Running ampere		A	104	110	130	148	171	193	206	218	242	273	305	317	356	399
Running ampere(MAX)		A	151	177	197	223	255	290	305	330	395	430	482	476	534	599
Starting ampere		A	62	66	78	89	102	116	123	131	145	164	183	190	214	240
Capacity control		%	Variable Frequency Stepless Regulation(25%-100%)													
Compressor	Type		Semi-hermetic screw													
	Quantity		1													
	Starting method		Variable Frequency Startup													
Evaporator	Type		Flooded Type													
	Water flow rate	m³/h	59	65	76	86	104	117	125	132	146	165	184	194	224	250
	Pressure drop	kPa	66	66	66	66	66	68	68	68	68	68	68	68	68	68
	Pipe-joint mode		Clamp pipe joint													
	Joint size		DN125	DN125	DN125	DN125	DN150	DN150	DN150	DN150	DN150	DN150	DN200	DN200	DN200	DN200
Condenser	Type		Tube and Shell													
	Water flow rate	m³h	69	76	89	100	121	137	146	154	170	192	214	225	259	290
	Pressure drop	kPa	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	Pipe-joint mode		Clamp pipe joint													
	Joint size		DN125	DN125	DN125	DN125	DN150	DN150	DN150	DN150	DN150	DN150	DN200	DN200	DN200	DN200
Recovery heat （Optional）	Heat recovery capacity	KW	103	114	133	150	182	205	218	231	255	287	321	338	390	437
	Water flow rate	m³h	18	20	23	26	31	35	38	40	44	49	55	58	67	75
	Pressure drop	kPa	40	40	40	40	45	45	45	45	50	50	50	50	50	50
	Pipe-joint mode		Clamp pipe joint													
	Joint size		DN65	DN65	DN65	DN65	DN65	DN80	DN80	DN80	DN80	DN80	DN100	DN100	DN100	DN100

Model		CNWEI	22022	25522	29022	32022	34522	37022	39022	42022	44022	46522	48522	51522	54522	58022	61022
Power supply			380V/3N~50Hz														
Cooling capacity		KW	781	893	1022	1122	1216	1294	1378	1469	1555	1634	1713	1818	1925	2041	2150
		RT	222	254	291	319	346	368	392	418	442	465	487	517	547	580	611
Power consumption		kW	126	146	169	183	197	210	223	236	252	265	278	296	314	333	351
COP		W/W	6.21	6.10	6.04	6.13	6.18	6.17	6.19	6.22	6.18	6.17	6.15	6.14	6.13	6.14	6.12
IPLV		W/W	8.63	8.47	8.40	8.52	8.59	8.61	8.63	8.67	8.62	8.61	8.58	8.56	8.55	8.56	8.54
Running ampere		A	217	253	292	316	340	362	385	408	434	457	481	511	542	574	606
Running ampere(MAX)		A	359	399	451	483	515	550	585	615	665	730	795	830	865	917	972
Starting ampere		A	130	152	175	190	204	217	231	245	261	274	288	307	325	345	364
Capacity control		%	Variable Frequency Stepless Regulation(12.5%-100%)														
Compressor	Type		Semi-hermetic screw														
	Quantity		2														
	Starting method		Variable Frequency Startup														
Evaporator	Type		Flooded Type														
	Water flow rate	m³/h	134	154	176	193	209	223	237	253	267	281	295	313	331	351	370
	Pressure drop	kPa	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
	Pipe-joint mode		Clamp pipe joint														
	Joint size		DN150	DN150	DN200	DN200	DN200	DN200	DN200	DN200	DN200	DN200	DN250	DN250	DN250	DN250	DN250
Condenser	Type		Tube and Shell														
	Water flow rate	m³h	156	179	205	224	243	259	275	293	311	327	342	364	385	408	430
	Pressure drop	kPa	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	Pipe-joint mode		Clamp pipe joint														
	Joint size		DN150	DN150	DN200	DN200	DN200	DN200	DN200	DN200	DN200	DN200	DN250	DN250	DN250	DN250	DN250
Recovery heat （Optional）	Heat recovery capacity	KW	234	268	307	336	365	388	413	441	466	490	514	546	578	612	645
	Water flow rate	m³h	40	46	53	58	63	67	71	76	80	84	88	94	99	105	111
	Pressure drop	kPa	55	55	58	58	58	58	58	58	58	58	58	58	58	58	58
	Pipe-joint mode		Clamp pipe joint														
	Joint size		DN80	DN80	DN100	DN100	DN100	DN100	DN100	DN100	DN125	DN125	DN125	DN125	DN125	DN125	DN125

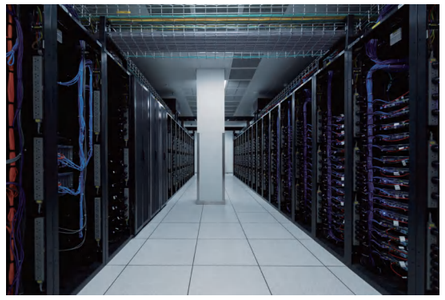
Notes:
1.Cooling conditions: Chilled water inlet/outlet temperature 12°C/7°C; Cooling water inlet/outlet temperature 30°C/35°C.
2.Chilled water side fouling factor: 0.018 m^2·°C/kW; Cooling water side fouling factor: 0.044 m^2·°C/kW.
3.Partial heat recovery is an optional function. Heat recovery hot water inlet/outlet temperature: 40°C/45°C. For additional information, please contact Fulaimeike.
4.For special requirements, please specify the requirements and specifications before ordering.
5.All parameters are subject to change without prior notice.

WATER-COOLED SERIES UNIT

Water-cooled smart energy station

FEATURES OF THE UNIT

Water-cooled smart energy stations are mainly designed to address issues in traditional central air-conditioning systems such as low energy efficiency, unclear division of responsibilities, large floor space, long construction cycles, difficulty in controlling construction quality, and high debugging complexity. They adopt an integrated design, integrating high-efficiency cold sources, high-efficiency water pumps, cooling towers, water pipelines and other components into a single cabinet. Combined with smart control modules, the entire air-conditioning system becomes more energy-efficient.



It is mainly applied to the following places: commercial centers, industrial plants, data centers, rail transit, etc.

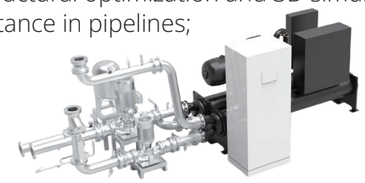
SMART ENERGYSAVING

Energy saving of ASHP Units

- High-efficiency screw stepless regulation compressor;
- High-efficiency heat exchanger;
- High-efficiency oil separator design;
- High-efficiency electronic expansion valve control;
- Advanced stepless capacity regulation technology.

Energy saving of Water system

- Variable flow water system improves the operation efficiency of water pumps;
- All pipelines in the energy station are designed with structural optimization and 3D simulation to achieve the optimal layout, reducing the water resistance in pipelines;
- The water pump selection is optimized to significantly improve pump efficiency, ensuring the pumps operate within the high-efficiency range and better adapt to variable flow operation;



- The intelligent water system balances flow rates, minimizing power consumption of the water system while meeting indoor load and host equipment requirements.

Inverter control tank

- Smart Cruise: Based on historical data and real-time parameters of the system such as supply and return water temperature, pressure, and flow rate, it automatically determines the load required by the air-conditioning terminals and adjusts the outlet water temperature dynamically.
- Climate Compensation: It compensates and adjusts the system's outlet water temperature based on outdoor weather conditions.
- AI Intelligent Control: The AI intelligently learns user habits according to the usage time and temperature patterns of the air conditioner, and formulates strategies for automatic energy-saving operation.

- Optimal Control Efficiency: According to the user load, it automatically adjusts the load of each compressor head to ensure that each head operates at maximum efficiency. Meanwhile, it matches the optimal water flow rate to enable the water pumps to operate efficiently.
- System Coupling: Aiming to minimize energy consumption, it automatically optimizes the logical operation modes of three types of equipment: the main unit, cooling tower fans, and cooling water pumps.

TECHNICAL PARAMETER TABLE(CNV(C)WV)

Model	CNV(C)WV	10012	12012	13512	16012	18012	20012	22512	25512	29012	31512	36012	40512
Overall Machine Parameters													
Power supply	380V/3N~50Hz												
Cooling capacity	kW	349	422	481	567	637	701	785	890	1018	1112	1270	1421
	RT	99	120	137	161	181	199	223	253	289	316	361	404
Power consumption	kW	82.0	99.5	113.0	127.5	151.0	157.5	170.5	191.0	219.5	239.5	274.0	300.0
Operating current	A	147	178	202	228	270	282	305	341	392	428	490	536
Max.operating current	A	198	239	272	308	359	377	410	461	529	579	661	727
Starting current	A	98	118	136	153	186	194	207	231	264	287	332	356
Cold Source Module													
Type	Variable Frequency Water-cooled Screw Unit												
Quantity		1	1	1	1	1	1	1	1	7	1	1	1
Power consumption	kW	64.0	78.0	87.0	100.0	112.0	118.0	131.0	148.0	171.0	188.0	211.0	239.0
Refrigerant	R134a												
Chilled Water Pump													
Type	Line Frequency Vertical/Horizontal Water Pump + (Variable Frequency Operation Control)												
Power consumption	kW	7.5	11.0	11.0	11.0	18.5	18.5	18.5	18.5	22.0	22.0	30.0	30.0
Joint size	m	26	26	26	26	27	27	27	27	27	27	27	27
Water flow rate	m³/h	60	73	83	98	110	121	135	153	175	191	218	244
Quantity		1	1	1	1	1	1	1	1	1	1	1	1
Cooling Water Pump													
Type	Line-frequency Vertical/Horizontal Water Pump + (Variable-frequency Operation Control)												
Power consumption	kW	7.5	7.5	11.0	11.0	15.0	15.0	15.0	18.5	18.5	18.5	22.0	22.0
Joint size	m	20	20	20	20	20	20	20	20	20	20	20	20
Water flow rate	m³/h	71	86	98	115	129	141	158	179	204	224	255	285
Quantity		1	1	1	1	1	1	1	1	L	1	1	1
Cooling Tower													
Type	Line Frequency Open Cooling Tower												
Power consumption	kW	3.0	3.0	4.0	5.5	5.5	3.0	3.0	3.0	4.0	5.5	5.5	3.0
Quantity		1	1	1	1	1	2	2	2	2	2	2	3
Operating weight	kg	2330	2330	2570	2790	2790	3270	3270	4660	5140	5580	5580	6990
Joint size	DN	DN100	DN125	DN125	DN125	DN150	DN150	DN150	DN150	DN200	DN200	DN200	DN200
Net weight	kg	6488	6662	7340	7790	8309	10031	10831	11223	11980	12374	13961	14661
Operating weight	kg	10591	10851	11815	12485	13140	13470	15121	16911	18583	19436	21205	23315

Notes:
1.Nominal cooling conditions: Chilled water inlet/outlet temperature 12°C/7°C, ambient dry bulb temperature 35°C, wet bulb temperature 26°C.
2.The rated power of the entire unit refers to the sum of the input powers of the compressor, cooling water pump and fan, electronic descaling instrument, and chilled water pump under nominal conditions, which needs to be adjusted according to the actual selection of the chilled water pump.
3.The head and power of the chilled water pump in the parameter table are rated values, which can be determined according to actual usage requirements, and specific parameter requirements shall be confirmed at the time of ordering.
4.The installation length of the unit is related to the local climate data of the ordered unit, which shall be confirmed at the time of ordering. The data here is for reference only.
5.When multiple units are used in parallel, the pressure stabilization and water make-up device and pressure difference bypass shall be installed on the main pipeline of the system.

TECHNICAL PARAMETER TABLE(CNV(C)WV)

Model	CNV(C)WV	27022	31522	36022	40022	43022	46022	50022	57522	63522
Overall Machine Parameters										
Power supply	380V/3N~50Hz									
Cooling capacity	kW	944	1112	1273	1401	1506	1626	1745	2014	2234
	RT	268	316	362	398	428	462	496	573	635
Power consumption	kW	218.0	253.5	286.0	295.0	326.0	349.5	375.5	422.0	473.0
Operating current	A	390	453	511	527	583	625	671	754	845
Max.operating current	A	527	615	691	714	787	843	905	1025	1146
Starting current	A	259	301	344	351	392	419	451	499	566
Cold Source Module										
Type	Variable Frequency Water-cooled Screw Unit									
Quantity		2	2	2	2	2	2	2	2	2
Power consumption	kW	173.0	202.0	223.0	234.0	254.0	273.0	292.0	339.0	373.0
Refrigerant	R134a									
Chilled Water Pump										
Type	Line Frequency Vertical/Horizontal Water Pump + (Variable Frequency Operation Control)									
Power consumption	kW	18.5	22.0	30.0	30.0	30.0	30.0	37.0	37.0	45.0
Joint size	m	27	27	27	27	27	27	27	27	27
Water flow rate	m³/h	162	191	219	241	259	280	300	346	384
Quantity		1	1	1	1	1	1	1	1	1
Cooling Water Pump										
Type	Line-frequency Vertical/Horizontal Water Pump + (Variable-frequency Operation Control)									
Power consumption	kW	18.5	18.5	22.0	22.0	30.0	30.0	30.0	30.0	37.0
Joint size	m	20	20	20	20	20	20	20	20	20
Water flow rate	m³/h	192	226	257	281	303	327	350	405	449
Quantity		1	1	1	1	1	1	1	1	1
Cooling Tower										
Type	Line Frequency Open Cooling Tower									
Power consumption	kW	4.0	5.5	5.5	3.0	3.0	5.5	5.5	4.0	3.0
Quantity		2	2	2	3	4	3	3	4	6
Operating weight	kg	5140	5580	5580	6990	7010	8370	8370	10280	10600
Joint size	DN	DN200	DN200	DN200	DN200	DN200	DN200	DN200	DN250	DN250
Net weight	kg	13143	13771	14561	15261	16569	16819	18091	19214	20399
Operating weight	kg	18842	20036	21805	24015	24885	26965	28277	31906	32658

Notes:
1.Nominal cooling conditions: Chilled water inlet/outlet temperature 12°C/7°C, ambient dry bulb temperature 35°C, wet bulb temperature 26°C.
2.The rated power of the entire unit refers to the sum of the input powers of the compressor, cooling water pump and fan, electronic descaling instrument, and chilled water pump under nominal conditions, which needs to be adjusted according to the actual selection of the chilled water pump.
3.The head and power of the chilled water pump in the parameter table are rated values, which can be determined according to actual usage requirements, and specific parameter requirements shall be confirmed at the time of ordering.
4.The installation length of the unit is related to the local climate data of the ordered unit, which shall be confirmed at the time of ordering. The data here is for reference only.
5.When multiple units are used in parallel, the pressure stabilization and water make-up device and pressure difference bypass shall be installed on the main pipeline of the system.

TECHNICAL PARAMETER TABLE(CNV(C)WV)

Model	CNV(C)WV	10512	12012	14512	16012	17012	18012	20012	22512	25512
Overall Machine Parameters										
Power supply	380V/3N～50Hz									
Cooling capacity	kW	374	427	502	564	602	637	708	799	893
	RT	106	121	143	160	171	181	201	227	254
Power consumption	kW	83.0	95.5	114.5	124.5	130.5	148.0	160.5	176.5	196.0
Operating current	A	148	171	205	223	233	265	287	315	350
Max.operating current	A	220	254	299	326	340	366	423	463	513
Starting current	A	366	420	498	552	584	637	699	780	869
Cold Source Module										
Type	Water-cooled Screw Chiller									
Quantity		1	1	1	1	1	1	1	1	1
Power consumption	kW	65.0	74.0	87.0	97.0	103.0	109.0	121.0	137.0	153.0
Refrigerant	R134a									
Chilled Water Pump										
Type	Line Frequency Vertical/Horizontal Water Pump + (Variable Frequency Operation Control)									
Power consumption	kW	7.5	11.0	11.0	11.0	11.0	18.5	18.5	18.5	18.5
Joint size	m	26	26	26	26	26	27	27	27	27
Water flow rate	m³/h	64	73	86	97	103	110	122	137	154
Quantity		1	1	1	1	1	1	1	1	1
Cooling Water Pump										
Type	Line-frequency Vertical/Horizontal Water Pump + (Variable-frequency Operation Control)									
Power consumption	kW	7.5	7.5	11.0	11.0	11.0	15.0	15.0	15.0	18.5
Joint size	m	20	20	20	20	20	20	20	20	20
Water flow rate	m³/h	75	86	101	114	121	128	143	161	180
Quantity		1	1	1	1	1	1	1	1	1
Cooling Tower										
Type	Line Frequency Open Cooling Tower									
Power consumption	kW	3.0	3.0	5.5	5.5	5.5	5.5	3.0	3.0	3.0
Quantity		1	1	1	1	1	1	2	2	2
Operating weight	kg	2330	2330	2790	2790	2790	2790	3270	3270	4660
Joint size	DN	DN100	DN125	DN125	DN125	DN125	DN150	DN150	DN150	DN150
Net weight	kg	6388	6512	7640	7690	7940	8059	10231	10831	11073
Operating weight	kg	10491	10701	12335	12385	12635	12890	14421	15121	16761

Notes:
1.Nominal cooling conditions: Chilled water inlet/outlet temperature 12°C/7°C, ambient dry bulb temperature 35°C, wet bulb temperature 26°C.
2.The rated power of the entire unit refers to the sum of the input powers of the compressor, cooling water pump and fan, electronic descaling instrument, and chilled water pump under nominal conditions, which needs to be adjusted according to the actual selection of the chilled water pump.
3.The head and power of the chilled water pump in the parameter table are rated values, which can be determined according to actual usage requirements, and specific parameter requirements shall be confirmed at the time of ordering.
4.The installation length of the unit is related to the local climate data of the ordered unit, which shall be confirmed at the time of ordering. The data here is for reference only.
5.When multiple units are used in parallel, the pressure stabilization and water make-up device and pressure difference bypass shall be installed on the main pipeline of the system.

TECHNICAL PARAMETER TABLE(CNV(C)WV)

Model	CNV(C)WV	16022	18522	21022	24022	28522	32022	34022	36022	40022	45022	50022
Overall Machine Parameters												
Power supply	380V/3N～50Hz											
Cooling capacity	kW	568	647	740	847	1004	1129	1203	1274	1403	1584	1769
	RT	162	184	210	241	285	321	342	362	399	450	503
Power consumption	kW	128.5	150.0	167.5	189.0	221.5	245.5	258.5	282.0	302.0	344.0	387.5
Operating current	A	230	268	299	338	396	439	462	504	540	615	693
Max.operating current	A	347	420	461	517	591	650	674	719	825	925	1023
Starting current	A	399	453	512	581	685	762	806	869	942	1070	1199
Cold Source Module												
Type	Water-cooled Screw Chiller											
Quantity		2	2	2	2	2	2	2	2	2	2	2
Power consumption	kW	101.0	111.0	128.0	146.0	173.0	194.0	207.0	219.0	241.0	272.0	304.0
Refrigerant	R134a											
Chilled Water Pump												
Type	Line Frequency Vertical/Horizontal Water Pump + (Variable Frequency Operation Control)											
Power consumption	kW	11.0	18.5	18.5	18.5	22.0	22.0	22.0	30.0	30.0	30.0	37.0
Joint size	m	27	27	27	27	27	27	27	27	27	27	27
Water flow rate	m³/h	98	111	127	146	173	194	207	219	241	273	304
Quantity		1	1	1	1	1	1	1	1	1	1	1
Cooling Water Pump												
Type	Line-frequency Vertical/Horizontal Water Pump + (Variable-frequency Operation Control)											
Power consumption	kW	11.0	15.0	15.0	18.5	18.5	18.5	18.5	22.0	22.0	30.0	30.0
Joint size	m	20	20	20	20	20	20	20	20	20	20	20
Water flow rate	m³/h	115	130	149	171	203	228	243	257	283	319	357
Quantity		1	1	1	1	1	1	1	1	1	1	1
Cooling Tower												
Type	Line Frequency Open Cooling Tower											
Power consumption	kW	5.5	5.5	3.0	3.0	4.0	5.5	5.5	5.5	3.0	3.0	5.5
Quantity		1	1	2	2	2	2	2	2	3	4	3
Operating weight	kg	2790	2790	3270	4660	5140	5580	5580	5580	6990	6540	8370
Joint size	DN	DN125	DN150	DN150	DN150	DN200	DN200	DN200	DN200	DN200	DN200	DN200
Net weight	kg	10799	11331	11481	11673	13177	13471	13571	13911	14911	16319	17441
Operating weight	kg	13735	14390	15771	17361	18983	19736	19836	20866	23376	24445	27777

Notes:
1.Nominal cooling conditions: Chilled water inlet/outlet temperature 12°C/7°C, ambient dry bulb temperature 35°C, wet bulb temperature 26°C.
2.The rated power of the entire unit refers to the sum of the input powers of the compressor, cooling water pump and fan, electronic descaling instrument, and chilled water pump under nominal conditions, which needs to be adjusted according to the actual selection of the chilled water pump.
3.The head and power of the chilled water pump in the parameter table are rated values, which can be determined according to actual usage requirements, and specific parameter requirements shall be confirmed at the time of ordering.
4.The installation length of the unit is related to the local climate data of the ordered unit, which shall be confirmed at the time of ordering. The data here is for reference only.
5.When multiple units are used in parallel, the pressure stabilization and water make-up device and pressure difference bypass shall be installed on the main pipeline of the system.

FORCED AIR COOLING UNIT

Air-cooled high-efficient energy station (low temperature)

FEATURES OF THE UNIT

- Adopting inverted M-type high-efficiency air-side heat exchangers and dual defrost control logic, the heating effect is 30% higher than that of conventional heat pumps.
- With extremely high product configuration and strict factory inspection, every unit is ensured to be a highly reliable product.
- The unit features a microcomputer controller for group control of multiple units.

AIR-COOLED SCREW CHILLER (HEAT PUMP)UNIT

Model	CNAEC(H)	09012	10512	12512	14012	16512	19012	20022	21522	24522	27522	32522
Power supply		380V~3N 50Hz										
Cooling capacity	kcal/hr	280,000	318,000	377,000	425,000	498,000	578,000	593,000	647,000	748,000	835,000	987,000
	kW	325	370	438	494	579	672	689	752	869	970	1147
Power consumption	kW	98.8	112.5	133.5	150.2	176.5	204.8	209.4	229.7	264.7	295.4	350.2
COP		3.29	3.29	3.28	3.29	3.28	3.28	3.29	3.28	3.28	3.28	3.28
Heating capacity	kcal/hr	286,000	325,000	385,000	431,000	504,000	594,000	604,000	652,000	772,000	864,000	990,000
	kW	332	378	447	500	586	690	701	757	897	1004	1151
Power consumption	KW	97.6	111.5	127.3	146.0	171.7	197.0	203.2	221.1	254.7	291.9	340.8
Operating current	A	171	194	230	259	305	354	362	397	457	510	605
Max operating current	A	223	257	290	332	388	482	446	514	582	670	780
Starting current	A	404	412	426	519	679	872	628	670	718	855	1069
Capacity control	%	Infinite capacity control										
Refrigerant control		Electrically operated expansion valves										
Compressor												
Quantity		1	1	1	1	1	1	2	2	2	2	2
Type		Semi-hermetic screw compressor										
Starting method		Y-△ start										
Insulation class		Class F										
Chiller												
Type		Tube-and-shellheat exchanger										
Pipe-joint mode		Flange										
Joint size		DN100	DN125	DN125	DN125	DN150	DN150	DN150	DN150	DN200	DN200	DN200
Water flow rate	m³h	55.9	63.6	75.4	84.9	99.6	115.6	118.6	129.5	149.5	166.9	197.4
Head loss	kPa	41	42	43	54	66	60	60	62	64	66	72
Recovery heat exchanger												
Recovery heating capacity	kcal/hr	56,000	64,000	76,000	85,000	100,000	116,000	119,000	130,000	150,000	167,000	198,000
	kW	65	74	88	99	116	134	138	150	174	194	229
Type		Tube-and-shell heat exchanger										
Pipe-joint mode		Flange										
Joint size		DN65	DN65	DN65	DN65	DN65	DN65	DN65	DN80	DN80	DN80	DN100
Water flow rate	m³h	11.2	12.8	15.1	17.0	20.0	23.2	23.8	25.9	29.9	33.4	39.5
Head loss	kPa	15	15	15	15	15	20	27	29	32	33	34
Fan												
Type		Direct connected axial fan										
Insulation class		Class F										
Quantity	Unit	6	6	8	8	10	12	12	12	16	16	20
Dimensions												
Length	mm	3620	3620	4580	4580	5520	6980	6980	6980	8900	8900	10780
Width	mm	2230	2230	2230	2230	2230	2230	2230	2230	2230	2230	2230
Height	mm	2580	2580	2580	2580	2580	2600	2600	2600	2600	2600	2600
Net weight	kg	3500	3600	4400	4600	5000	6250	6400	6800	8250	8900	9700
Operating weight	kg	3750	3850	4650	4850	5250	6500	6700	7100	8550	9200	10000
Net weight	kg	3700	3800	4600	4800	5200	6450	6650	7050	8500	9150	9950
Operating weight	kg	3850	3950	4750	4950	5350	6600	6850	7250	8700	9350	10150

Notes:
1.Nominal cooling conditions: Chilled water outlet temperature 7°C, water flow rate 0.172 m³/(h·kW), ambient temperature 35°C DB, operating ambient temperature range -10°C to 45°C.
2.Nominal heating conditions: Hot water outlet temperature 45°C, water flow rate 0.172 m³/(h·kW), ambient temperature 7°C DB, 6°C WB, operating ambient temperature range -10°C to 45°C.
3.Heat recovery conditions: Chilled water outlet temperature 7°C, hot water inlet temperature 40°C, hot water outlet temperature 45°C, water flow rate 0.172 m³/(h·kW), ambient temperature 35°C DB.
4.Water-side fouling factor of the evaporator: 0.018 m²·°C/kW.
5.For the cooling-only unit, there are no heating capacity or heating input power parameters; the heat recovery unit is an optional accessory, and the standard unit does not include a heat recovery unit.
6.If there are any special requirements, please specify the requirements and specifications before placing the order.
7.The asterisk (*) indicates the unit weight after installing the heat recovery unit.

FORCED AIR COOLING UNIT

Four pipe air-cooled screw chiller and heat pump units

FEATURES OF THE UNIT

- On the basis of fully absorbing the latest development technologies in the field of refrigeration and air conditioning, Coolnet air conditioners are designed and manufactured strictly in accordance with national standards, integrating numerous technological achievements.

- The unit adopts high-efficiency screw compressors, enhanced heat exchange technology, dual automatic defrosting technology, etc., ensuring stable and efficient operation of the unit. It is a perfect embodiment of the mature technologies of Coolnet air conditioners.

FOUR PIPE AIR-COOLED SCREW CHILLER AND HEAT PUMP UNITS

Model	CNAEH	08022BNC	09522BNC	11022BNC	12022BNC	13022BNC	15022BNC	17522BNC	20022BNC	23522BNC	27022BNC	31522BNC
Power supply		380V~3N 50Hz										
Cooling -only												
Cooling capacity	kcal/hr	249,000	292,000	338,000	368,000	401,000	461,000	534,000	607,000	715,000	820,000	953,000
	kW	289	339	393	428	466	536	621	706	831	953	1108
Power consumpion	kW	89.2	104.6	120.3	131.2	142.8	164.4	190.5	216.4	255.4	292.3	339.4
Hot Water Condition												
Heating capacity	kcal/hr	263,000	310,000	357,000	393,000	442,000	486,000	572,000	656,000	748,000	893,000	1,025,000
	kW	305	359	415	457	513	565	664	762	870	1038	1192
Power consumpfion	KW	90.5	106.4	123.2	136.3	151.8	168.7	198.3	224.8	259.0	308.9	354.3
Cooling + Hot Water Condition												
Heating capacity	kcal/hr	318,000	375,000	430,000	471,000	508,000	590,000	682,000	771,000	914,000	1,041,000	1,207,000
	KW	369	435	500	547	591	685	793	896	1063	1210	1403
Coling capacity	kcal/hr	249,000	292,000	338,000	368,000	401,000	461,000	534,000	607,000	715,000	820,000	953,000
	kW	288	339	392	427	464	535	618	702	828	949	1102
Power consumption	kW	81.8	96.6	110.8	121.0	131.2	151.7	175.7	199.0	235.4	268.6	311.9
Operating current	A	159	187	215	235	255	294	341	387	457	523	607
Max operating current	A	246	246	284	314	354	400	446	514	582	670	778
Starting current	A	303	303	363	441	467	555	628	670	718	855	1069
Capacity control	%	Infinite capacity control										
Refrigerant control		Electrically operated expansion valves										
Compressor												
Quantity		2	2	2	2	2	2	2	2	2	2	2
Type		Semi-hermetic screw compressor										
Starting method		Y-△ start										
Insulation cass		Class F										
Evaporator												
Type		Shell and Tube Heat Exchanger										
Pipe-joint mode		Flange										
Joint size		DN100	DN125	DN125	DN125	DN125	DN150	DN150	DN150	DN200	DN200	DN200
Water flow rate	m³h	49.8	58.4	67.6	73.6	80.1	92.3	106.8	121.4	143.0	163.9	190.6
Head loss	kPa	50	50	50	50	52	52	50	50	52	66	72
Condenser												
Type		Plate heat exchanger			Tube-and-shell heat exchanger							
Pipejoint mode		Flange										
Joint size		DN100	DN125	DN125	DN125	DN125	DN150	DN150	DN150	DN200	DN200	DN200
Water flow rate	m³h	52.5	61.9	71.4	78.6	88.4	97.2	114.3	131.2	149.7	178.6	205.1
Head loss	kPa	50	50	50	50	52	52	50	50	52	66	72
Fan												
Type		Direct connected axial fan										
Insulation class		Class F										
Quanity	unit	6	6	6	8	8	10	12	12	16	16	20
Dimensions												
Length	mm	3620	3620	3620	4580	4580	5520	6980	6980	8900	8900	10780
Width	mm	2230	2230	2230	2230	2230	2230	2230	2230	2230	2230	2230
Height	mm	2580	2580	2580	2580	2580	2580	2600	2600	2600	2600	2600
Net weight	kg	4100	4200	4600	6000	6300	6600	7750	8250	10050	10500	11500
Operating weight	kg	4350	4450	4850	6250	6550	6850	8000	8500	10300	10750	11750

Notes:
1.Nominal cooling conditions: Chilled water outlet temperature 7℃, water flow rate 0.172 m³/(h·kW), ambient temperature 35℃ DB, operating ambient temperature range -10℃~45℃.
2.Nominal heating conditions: Hot water outlet temperature 45℃, water flow rate 0.172 m³/(h·kW), ambient temperature 7℃ DB, 6℃ WB, operating ambient temperature range -10℃~45℃.
3.Cooling + hot water conditions: Chilled water outlet temperature 7℃, hot water outlet temperature 45℃, water flow rate 0.172 m³/(h·kW), ambient temperature 35℃ DB, operating ambient temperature range -10℃~45℃.
4.Water-side fouling factor of the evaporator: 0.018 m²·℃/kW; water-side fouling factor of the water heater: 0.086 m²·℃/kW.
5.Specifications are subject to change without prior notice.