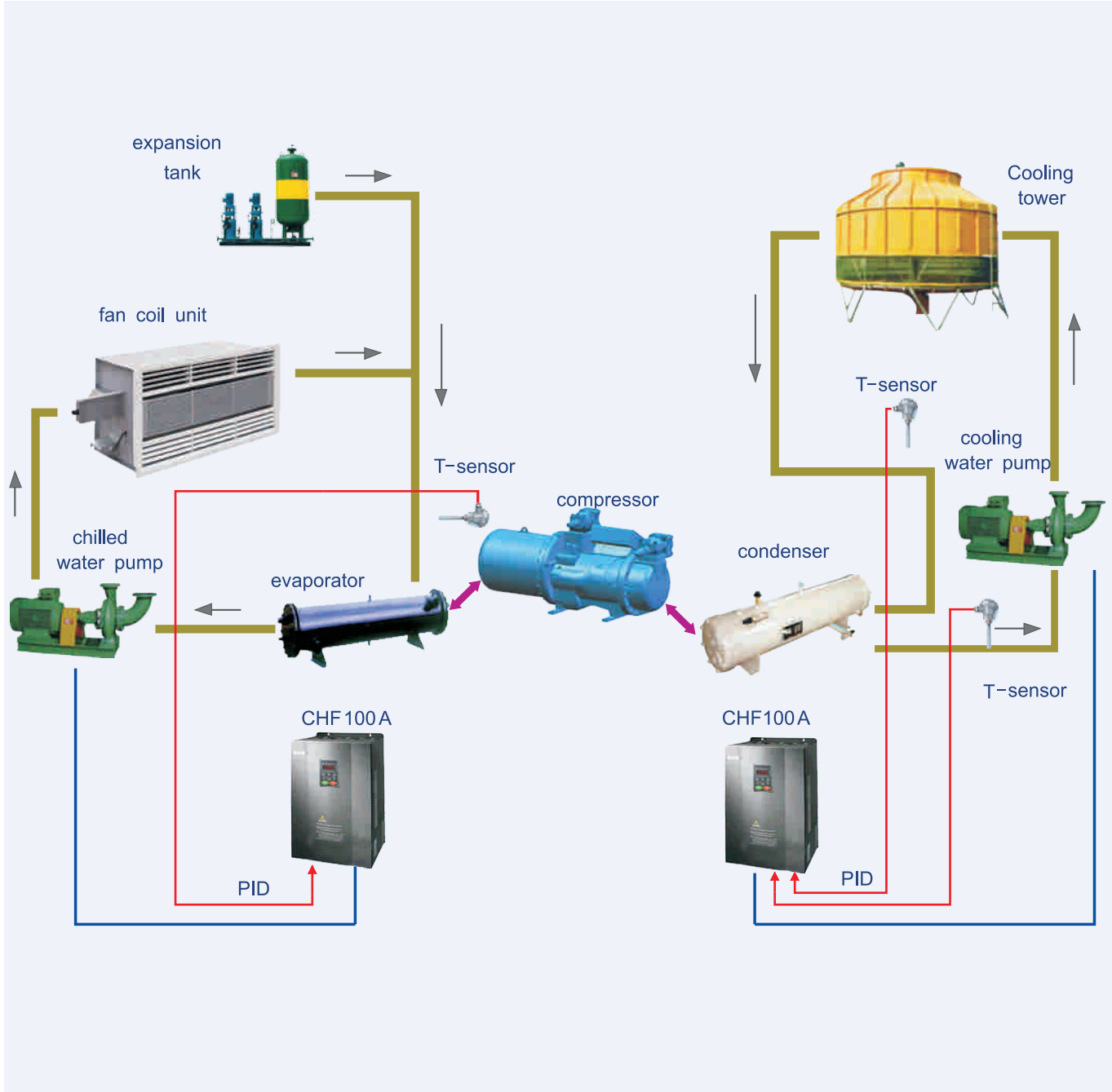


CHF100A series inverter used on the center air conditioner



The difference of effluent temperature and backwater temperature of the water-cycling system in the central air-conditioning indicates the heat exchanger of the whole system needed. So, we can control the flow of water-cycling to control the heat exchange speed based on the difference, it is the first choice control mode for energy saving.

CHF100A Series

General Purpose Inverter



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Selection Guide

Model No.	Rated Power (kW)	Rated input current (A)	Rated output current (A)	Size
1AC 220V ±15%				
CHF100A-1R5G-S2	1.5	14.2	7.0	B
CHF100A-2R2G-S2	2.2	23.0	10	B
3AC 220V ±15%				
CHF100A-0R7G-2	0.75	5.0	4.5	B
CHF100A-1R5G-2	1.5	7.7	7	B
CHF100A-2R2G-2	2.2	11.0	10	B
CHF100A-004G-2	4.0	17.0	16	C
CHF100A-5R5G-2	5.5	21.0	20	C
CHF100A-7R5G-2	7.5	31.0	30	D
CHF100A-011G-2	11.0	43.0	42	E
CHF100A-015G-2	15.0	56.0	55	E
CHF100A-018G-2	18.5	71.0	70	E
CHF100A-022G-2	22.0	81.0	80	F
CHF100A-030G-2	30.0	112.0	110	F
CHF100A-037G-2	37.0	132.0	130	F
CHF100A-045G-2	45.0	163.0	160	G
CHF100A-055G-2	55.0	181.0	190.0	G
3AC 380V ±15%				
CHF100A-1R5G/2R2P-4	1.5	5.0	3.7	B
CHF100A-2R2G/004P-4	2.2	5.8	5	B
CHF100A-004G/5R5P-4	4.0/5.5	10/15	9/13	C
CHF100A-5R5G/7R5P-4	5.5/7.5	15/20	13/17	C
CHF100A-7R5G/011P-4	7.5/11	20/26	17/25	D
CHF100A-011G/015P-4	11/15	26/35	25/32	D
CHF100A-015G/018P-4	15/ 18.5	35/38	32/37	D
CHF100A-018G/022P-4	18.5/ 22	38/46	37/45	E
CHF100A-022G/030P-4	22/30	46/62	45/60	E
CHF100A-030G/037P-4	30/37	62/76	60/75	E
CHF100A-037G/045P-4	37/45	76/90	75/90	F
CHF100A-045G/055P-4	45/55	90/105	90/110	F
CHF100A-055G/075P-4	55/75	105/ 140	110/ 150	F
CHF100A-075G/090P-4	75/90	140/ 160	150/ 176	G
CHF100A-090G/110P-4	90/110	160/ 210	176/ 210	G
CHF100A-110G/132P-4	110/132	210/ 240	210/ 250	G
CHF100A-132G/160P-4	132/160	240/ 290	250/ 300	H
CHF100A-160G/185P-4	160/185	290/ 330	300/ 340	H
CHF100A-185G/200P-4	185/200	330/ 370	340/ 380	H
CHF100A-200G/220P-4	200/220	370/ 410	380/ 415	I
CHF100A-220G/250P-4	220/250	410/ 460	415/ 470	I
CHF100A-250G/280P-4	250/280	460/ 500	470/ 520	I
CHF100A-280G/315P-4	280/315	500/ 580	520/ 600	I
CHF100A-315G/350P-4	315/350	580/ 620	600/ 640	I
CHF100A-350G-4	350	620	640	2*H
CHF100A-400G-4	400	670	690	2*I
CHF100A-500G-4	500	835	860	2*I
CHF100A-560G-4	560	920	950	2*I

Technical Features

I/O Features	Input Voltage Range	380/220V±15%
	Input Frequency Range	47~63Hz
	Output Voltage Range	0~rated input voltage
	Output Frequency Range	0~400Hz
I/O Terminals	Input Terminals	programmable DI:7, 1 high speed pulse; programmable AI:2, AI1: -10V~10V; AI2: 0~10V or 0~20mA;
	Output Terminals	programmable open collector output:1(open collector or high speed pulse output selectable); programmable relay output:2 programmable AI:2, 0/4 ~ 20mA or 0 ~ 10V selectable.
	Communication Terminals	provide RS485 communication interface, adopt Modbus-RTU communication mide.
Control Function	Control Mode	V/F control, sensorless vector control (SVC)
	Speed Adjusting Range	1:100(SVC)
	Overload Capacity	150% rated current 60s, 180% rated current 10s .
	Frequency Reference Source	Keypad, analog input, HDI, serial communication, multi-step speed, simple PLC and PID. The combination of multi- modes and the switch between different modes can be realized.
	Other Functions	● Traverse Control Function ● PID Control Function ● Simple PLC, Multi-Steps Speed Control Function: 16 steps speed can be set. ● None-Stop when instantaneous power off. ● Speed Trace Function: Smoothly start the running motor. ● Automatic Voltage Regulation Function (AVR): ● Up to 23 fault protections: over current, over voltage, under voltage, over temperature, phase failure, overload etc.
Man-machine Interface	LED Display	Can display: setting frequency,output frequency,output voltage,output current etc.
	Multi-function Key-press	The QUICK/JOG key-press can be used as multi-function key-press.
EMC	EMC Criterion	if the installing and wiring of the inverter together with the EMI filter according to 《Manual of CHF100A》 , we can promise it's must meet the following criterion: ● EN61000-6-4 ● EN61800-3 [Normally, if the cable of motor is longer than 50m, it's should install AC reactor or sinusoidal filter at the output side of the inverter.]
Environmental Constraint	Temperature	-10℃ ~ +40℃. Inverter will be derated if ambient temperature exceeds 40℃.
	Humidity	≤90%, without condensation
	Altitude	≤1000M, output rated power >1000M, output power with derating
	Impingement and Oscillation	The inverter is prohibited to drop on the floor or with suddenly impact, it also prohibited to be installed at the place where the oscillation may occur very probably.
	Electromagnetic Radiation	The inverter is prohibited to be installed at the place where stronger electromagnetic radiation may occur very probably.
	Store Environment	The inverter is prohibited to be stored at the place where with direct sunlight, fall of oil mist, steam and with heavy oscillation.

Wiring diagram of CHF100A series inverter

