

HERE BEGINS YOUR ULTIMATE VALUE

FAC Series FAC Air-Cooled Chillers

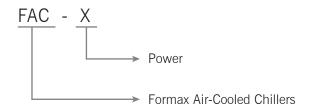
FAC



FAC Series

FAC Air-Cooled Chillers

■ Coding Principle





■ Features

- Cooling temperature range 3-30°C.
- Stainless steel insulated water tank.
- Anti-icing protection device.
- Using R22 insulation refrigerant, the refrigeration effect is good.
- Compressor and pump with overload protection.
- High precision controller with display accuracy of ± 0.1 °C.
- Adopt brand compressor, low noise, high energy efficiency and long service life.
- High efficiency purple copper string with aluminum wings + low noise of shaft fan condenser has good heat transfer effect, and it does not need to provide cooling water for fast heat dissipation.
- Equipped with a hot air bypass valve to balance the cooling capacity and achieve precise temperature control.
- Wire-operated can separate the main machine from the controller.
- waterproof level : IP54
- Equipped with RS485 communication interface for centralized monitoring and computer networking.

■ Options

Voltage: 200~230V/60HZ

Environment protection refrigerant: R407

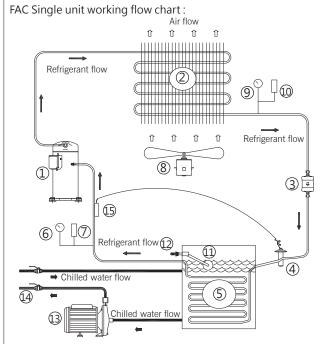
■ Application

Applied to mold cooling to reduce product molding cycle time, and it also can be used for cooling to keep the temperature of the equipment at normal temperature or other cooling industrial areas needed it.

■ Working Principle

The air-cooled chiller is mainly composed of compressor, condenser, filter, expansion valve, evaporator, air filter, blower. The liquid refrigerant enters the evaporator after being throttled by the expansion valve, where it evaporates and absorbs the heat of the cooled air, then inhaled by the compressor via the return pipe, superheated steam that is compressed to become high temperature and high pressure, cooled by outdoor air after entering the condenser, then delivered to the expansion valve through a dry filter, going to the next cycle. This continuous cycle will cool the room and maintain the proper air conditioning temperature.

FAC Double units working flow chart:



- (1) Compressor (2) Condenser
- (3) Filter
- (4) Expansion valve
- (5) Evaporator
- 6 Low pressure meter
- (7) Low pressure controller
- (8) Fan

- 9 High pressure gauge
- 10 High pressure controller
- 11) Float level switch
- 12 Water connection
- (13) Pump
- (14) Ball valve
- (15) Temperature sensor

- Refrigerant floy **-(11)** 010€ Air flow **1**4 j ≅ O ≅(9) (5)# <u>(14)</u> 6 Chilled water flow 16 <= (15) Chilled water flow (13)
 - (1) Compressor
 - (2) Condenser
- (3) Fan
- (4) Flier
- (5) Expansion valve
- (6) Evaporator
- (7) Temperature sensor
- 8 Low pressure controller

- (9) Low pressure gauge
- 10 High pressure gauge
- 11) High pressure controller
- (12) Pump
- (13) Ball valve
- (14) Ball valve switch
- (15) Cooling water outlet
- 16 Cooling water return inlet
- (7) Fresh water inlet

Outline Drawings



FAC Air-Cooled Chillers

■ Specifications

Model	FAC		3	5	8	10	12		
Cool Water Temperature	°C		3~30						
Cooling	kW		8.39	13.95	21.8	28.01	33.79		
Capacity	kcal / hr		7216	11990	18748	24089	29059		
Compressor	Type		Hermetic scroll type						
	Power	kW	2.2	3.75	3x2	3.75x2	4.5x2		
		hp	3	5	8	5x2	6x2		
Refrigerant	Filling Volume	kg	3.6	4.3	7	8	11		
	Control Way		Thermo expansion valve						
	Туре		R22 (CE type W / R407)						
Evaporator	Туре		Coil-pipe (si	ngle circuit)	Coil-pipe (multiple circuit)				
	Туре		High efficiency purple copper string with aluminum wings + low noise shaft fan						
Condenser	Blower	kW	0.28	0.36	0.9	0.9	0.9		
	Cooled Air Flow	cmh	3000	5000	8000	10000	12000		
Water Tank C	apacity(L)		50	65	130	180	180		
Pump	Power	kW	0.37	0.75	0.75	1.5	1.5		
	Working Pressure	bar	2.2	2.3	2.3	2.15	2.15		
	Pump Flow	(L/min)	24	40	62.5	80	97		
Total Power(kW)			2.85	4.86	7.65	9.9	11.4		
Pipe Coupling	Chilled Water Outlet	inch	3/4	1	1.5	2	2		
	Chilled Water Inlet		3/4	1	1.5	2	2		
	Water Tank Drainage Port		1/2	1/2	1	1	1		
	Water Tank Overflow Port		1/2	1/2	1	1	1		
Protective Devices	Compressor		Overload relay						
	Pump		Overload relay						
	Cooling Water Circuit		High and low pressure switches/Anti-freeze switch(optional)						
	Water Circuit		Flow switch(optional)/Water level switch/By-pass valve						
Voltage (Phase)			3P, 380~415V, 50HZ 220V(optional)						
Dimensions	(LxWxH)	mm	940x555x1060	1045x555x116	1330 x 72	25 x 1330	1550x750x1460		
Weight			130	170	270	350	370		

Specifications are subject to change without prior notice.

■ Specifications

Model	FAC		15	20	25	30	40	50		
Cool Water Temperature	°C		3~30							
Cooling Capacity	kW		44.15	59.08	71.72	87.2	113.58	135.49		
	kcal / hr		37965	50805	61683	74992	97675	116521		
Compressor	Туре		Hermetic scroll type							
	Power	kW	5.5x2	7.5x2	9.4x2	7.5x3	7.5x4	9.4x4		
		hp	7.5x2	10x2	12.5x2	10x3	10x4	12.5x4		
Refrigerant	Filling Volume	kg	13	18	22	26	34	48		
	Control Way		Thermo expansion valve							
	Туре		R22 (CE type W / R407)							
Evaporator	Туре			Coil-pipe (multiple circuit)						
Condenser	Туре		High efficiency purple copper string with aluminum wings + low noise shaft fan							
	Blower	kW	1.2	1.6	1.8	2.5	3.1	4.7		
	Cooled Air Flow	cmh	15000	20000	25000	30000	40000	50000		
Water Tank Capacity(L)			210	280	320	320	610	660		
Pump	Power	kW	1.5	2.2	2.2	4	4	4		
	Working Pressure	bar	2.15	2.2	2.2	2.5	2.5	2.5		
	Pump Flow	(L/min)	127	170	206	253	326	388		
Total Power(kW)			13.7	18.8	22.75	28.5	37.1	46.2		
Pipe Coupling	Chilled Water Outlet	inch	2	2	2.5	2.5	3	3		
	Chilled Water Inlet		2	2	2.5	2.5	3	3		
	Water Tank Drainage Port		1	1	1	1	1	1		
	Water Tank Overflow Port		1	1	1	1	1	1		
Protective Devices	Compressor		Overload relay							
	Pump		Overload relay							
	Cooling Water Circuit		High and low pressure switches/Anti-freeze switch(optional)							
	Water Circuit		Flow switch(optional)/Water level switch/By-pass valve							
Voltage (Phase)			3P, 380~415V, 50HZ 220V(optional)							
Dimensions	(LxWxH)	mm	1550x750x1460	1760x860x1560	1970x90	00x1700	1900x1450x1700	2400x1450x1700		
Weight				590	790	880	1000	1280		

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