

# CD series two-stage compressor condensing units

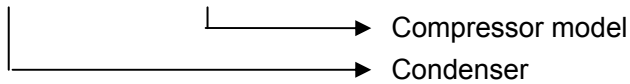


## 1. Product description:

- ◆ Semi-Hermetic Bitzer 2-stage compressor
- ◆ Could approach lowest temperature at -50°C with R22, and -65°C with R404
- ◆ Super-cooler is employed which greatly upgrade capacity and EER;

## 2. Nomenclature:

**CD -- 180 / S6F-30.2**



CD: Air-cooled  
FWS: Water-cooled

## 3. Standard configuration:

- 2-stage compressor ●Crankcase heater ●Vibration Eliminator ●Oil separator ●Condenser ●Receiver ●Filter Drier
- Sight glass ●Solenoid valve ●Supercooler ●Suction accumulator ●Hi-Low pressure control ●Oil pressure control
- Hi-Low pressure gauge ●Mid-pressure gauge ●junction box

## 4. Specification:

### 4.1 Air cooled 2-stage units

Model		CD36/S4T5.2	CD55/S4N8.2	CD100/S4G12.2	CD130/S6J16.2	CD150/S6G20.2	CD180/S6G25.2	★CDV195A/S6F30.2	
Temperature(°C)		-25°C~-40°C							
Refrigerant		R22							
Power Supply		380V/3P/50Hz							
Compressor		S4T5.2	S4N8.2	S4G12.2	S6J16.2	S6H20.2	S6G25.2	S6F30.2	
Condenser	Qty	2	2	4	4	4	4	2	
	Supply voltage (V)	380	380	380	380	380	380	380	
	Fan Input(W)	180×2	180×2	180×4	180×4	180×4	180×4	800×2	
Capacity & Input	Eavp -35°C	Capacity (W)	5000	7240	10930	16320	18920	21700	26000
		Input (W)	3.75	5.6	8.46	11.97	13.87	15.92	19.05
	Eavp -40°C	Capacity (W)	3950	5680	8580	12920	14980	17200	20600
		Input (W)	3.41	5.08	7.68	10.58	12.26	14.07	16.84
	Eavp -45°C	Capacity (W)	3020	4310	6510	9810	11370	13060	15620
		Input (W)	3.04	4.56	6.89	9.17	10.63	12.2	14.6
Pipe	Suction Pipe (mm)	φ28	φ28	φ35	φ42	φ42	φ42	φ42	
	Liquid Pipe (mm)	φ16	φ16	φ22	φ22	φ22	φ22	φ22	
Overall Dimension	A(mm)	1085	1270	1270	1270	1340	1340	1250	
	B(mm)	930	930	1050	1050	1110	1130	730	
	C(mm)	660	810	1210	1460	1410	1410	927	
Mounting Size (a×b mm)		800×885	800×885	1000×1005	1000×1005	1000×1065	1000×1085	910×685	

Remarks: 1. Condensing temp: 45°C;

2. CDV220/S6F30.2 has the separate condenser with the unit. The size information above not include the condenser.

## 4.2 Water cooled 2-stage units

Model		FWS4/S4T5.2	FWS5/S4N8.2	FWS10/S4G12.2	FWS15/S6J16.2	FWS20/S6H20.2	FWS25/S6G25.2	FWS30/S6F30.2	
Temperature(°C)		-25°C~-40°C							
Refrigerant		R22							
Power Supply		380V/50Hz							
Compressor		S4T-5.2	S4N-8.2	S4G-12.2	S6J-16.2	S6H-20.2	S6G-25.2	S6F-30.2	
Condenser	Type	Shell & tube type							
	Water flow (m3/h)	2	3	4	5.6	6.6	7.5	10	
	Pipe Dia.	1-1/4"	1-1/2"	1-1/2"	2"	2"	2"	2- 1/2"	
Capacity & Input	Eavp 35°C	Capacity (W)	5100	7380	11150	16490	19120	21900	26300
		Input (W)	3.55	5.3	8.0	11.35	13.2	15.1	18.1
	Eavp 40°C	Capacity (W)	4010	5810	8780	13090	15170	17420	20800
		Input (W)	3.23	4.81	7.26	10.1	11.67	13.4	16.0
	Eavp -45°C	Capacity (W)	3080	4440	6700	1000	11600	13310	15930
		Input (W)	2.88	4.33	6.54	8.8	10.2	11.7	14.0
Pipe	Suction Pipe (mm)	φ28	φ28	φ35	φ42	φ42	φ42	φ42	
	Liquid Pipe (mm)	φ22	φ22	φ28	φ28	φ28	φ28	φ28	
Overall Dimension	A(mm)	900	1050	1260	1300	1300	1300	1300	
	B(mm)	650	650	720	720	720	720	720	
	C(mm)	795	855	950	990	990	990	990	
Mounting Size(a×b mm)		500×605	650×605	800×675	880×675	880×675	880×675	880×675	

Remarks: Condensing temp:40°C

## 5. Overall dimension:

Air-cooled Units

Water-cooled Units

