Copeland®

Scroll Compressor Unit with Electrical Control







Nomenclature:

MCSD-02Z

M : **Temperature** M: -5 ~ +5°C , L: -20 ~ -15°C

CS : **CU/AL Condenser with Horizontal Air Discharge housing**

D : **Compressor Type** D: Danfoss; G: Copeland

02 : **HP**

Z : **Refrigerant** Z: for R404A/R448A/R449A

Product Description:

- ★ Traditional CU/AL Condenser;
- ★ Low Noise/High Efficient Axial Fan Motor;
- ★ Original Danfoss/Copeland/Highly Refrigeration Components;
- ★ Extrodinary Cost-Effectiveness Performance.
- ★ Electrical control inside.



Supcool Refrigeration Equipment Factory

Copeland Packed Unit (Horizontal Discharge)

Model		MCSG-02Z	MCSG-03Z	MCSG-04Z	MCSG-05Z	MCSG-06Z	MCSG-07Z
Room Temperature (°C)		-15°C ~ +5°C					
Refrigerant		R404A / R448A / R449A					
Power Supply		380V/3P/50HZ					
Compressor		ZB15KQE	ZB21KQE	ZB29KQE	ZB38KQE	ZB45KQE	ZB48KQE
Condenser Fan	Fan Qty	1 X Φ450	1 X Φ450	2 X Φ400	2 X Φ400	2 X Φ400	2 X Φ400
	Fan Voltage	220V/1P/50HZ 6poles					
Condenser	Heat Exchange Area (m^2)	21	30.3	37.2	45.5	54	59.2
	Condensing Capacity (kw)	5.6	8	9.9	12.1	14.4	15.7
	Fin Space (mm)	2	2	2	2	2	2
Evap -5°C	Cooling Capacity (W)	3820	5740	7840	9720	11450	13270
	Lnput (kw)	1.76	2.5	3.32	4.2	4.79	5.24
Evap -10°C	Cooling Capacity (W)	3070	4680	6370	7910	9310	11047
	Lnput (kw)	1.82	2.51	3.35	4.2	4.81	5.27
Evap -15°C	Cooling Capacity (w)	2430	3780	5120	6380	7510	9114
	Lnput (kw)	1.88	2.52	3.37	4.2	4.82	5.28
Evap -20°C	Cooling Capacity (W)	1860	3010	4070	5090	6000	7442
	Lnput (kw)	1.93	2.52	3.39	4.19	4.81	5.28
Pipe	Gas (inch)	3/4	3/4	7/8	7/8	7/8	7/8
	Liquid (inch)	3/8	1/2	1/2	1/2	1/2	1/2
Dimension (mm)		1300x560x690	1300x560x690	1300x560x990	1300x560x990	1300x560x990	1300x560x990

Condensing temp:45°C

Copeland Packed Unit (Horizontal Discharge)

Model		LCSG-02Z	LCSG-03Z	LCSG-04Z	LCSG-05Z	LCSG-06Z	LCSG-07Z
Room Temperature (°C)		-25°C ~ -10°C					
Refrigerant		R404A / R448A / R449A					
Power Supply		380V/3P/50HZ					
Compressor		ZSI06KQE	ZSI09KQE	ZSI11KQE	ZSI15KQE	ZSI18KQE	ZSI21KQE
Condenser Fan	Fan Qty	1 X Φ450	1 X Φ450	2 X Φ400	2 X Φ400	2 X Φ400	2 X Φ400
	Air Flow(m^3/h)	220V/1P/50HZ 6poles					
Condenser	Heat Exchange Area (m^2)	21	30.3	37.2	45.5	54	59.2
	Condensing Capacity (kw)	5.6	8	9.9	12.1	14.4	15.7
	Fin Space (mm)	2	2	2	2	2	2
Evap -20°C	Cooling Capacity (W)	2330	3240	4120	5930	7230	8060
	Lnput (kw)	1.79	2.25	2.63	3.59	4.44	4.9
Evap -25°C	Cooling Capacity (W)	1880	2620	3340	4830	5910	6590
	Lnput (kw)	1.73	2.2	2.57	3.44	4.28	4.74
Evap -30°C	Cooling Capacity (W)	1500	2070	2610	3790	4780	5350
	Lnput (kw)	1.66	2.12	2.44	3.3	4.17	4.59
Pipe	Gas (inch)	3/4	3/4	7/8	7/8	7/8	7/8
	Liquid (inch)	3/8	1/2	1/2	1/2	1/2	1/2
Dimension (mm)		1300x560x690	1300x560x690	1300x560x990	1300x560x990	1300x560x990	1300x560x990

Remarks: Condensing temp:45°C

Copeland Packed Unit (Vertical Discharge)

Model		MCSG08/U	MCSG10/U	MCSG13/U	MCSG15/U	MCSG20/V	MCSG25/V	MCSG30/V
Room Temperature (℃)		-15℃~+5℃						
Refrigerant		R404A / R448A / R449A						
Power Supply		380V/3P/50HZ						
Compressor		ZB58KQE	ZB76KQE	ZB95KQE	ZB114KQE	ZB130KQE	ZB190KQE	ZB220KQE
Condenser Fan	Fan Qty	1 X Φ550	2 X Φ500	2 X Φ500	2 X Φ550	2 X Φ550	2 X Φ630	2 X Φ700
	Input (W)	600	2 X 380	2 X 380	2 X 600	2 X 600	2 X 800	2 X 750
	Fan Voltage	380V/3P/50HZ 6poles						
Condenser	Heat Exchange Area (m^2)	70	90	110	120	155	210	240
	Heat Exchange Capacity (W)	24640	30500	39050	42240	55025	72660	82800
Evap -5℃	Cooling Capacity (W)	15224	20306	24843	29593	39264	59489	72675
	Input (kw)	6.41	8.35	10.77	12.75	15.63	25.77	30.6
Evap -10℃	Cooling Capacity (W)	12588	14511	20591	24344	32737	50626	60676
	Input (kw)	6.38	8.28	10.71	12.73	15.49	25.36	30.18
Evap -15℃	Cooling Capacity (W)	10213	13846	16673	19618	26932	44812	51034
	Input (kw)	6.38	8.22	10.69	12.73	15.28	24.1	29.39
Evap -20℃	Cooling Capacity (W)	8004	11163	14060	16768	21698	42684	43890
	Input (kw)	6.42	8.17	10.5	12.71	15	21.28	27.99
Pipe	Gas (inch)	7/8	7/8	7/8	1	1-1/8	1-1/4	1-1/4
	Liquid (inch)	5/8	5/8	5/8	3/4	3/4	7/8	7/8
Dimension (mm)		900x770x1000	1330x950x890	1480x950x990	1730x1050x1000	1600x1000x1650	1750x1000x1880	1900x1175x1980

Remarks: Condensing temp:45℃

Danfoss Packed Unit (Horizontal Discharge)

Model		MCSD-02Z	MCSD-03Z	MCSD-04Z	MCSD-05Z	MCSD-06Z	MCSD-07Z
Room Temperature (℃)		-18℃~+5℃					
Refrigerant		R404A / R448A / R449A					
Power Supply		380V/3P/50HZ					
Compressor		MLZ015T4	MLZ021T4	MLZ030T4	MLZ038T4	MLZ045T4	MLZ048T4
Condenser Fan	Fan Qty	1 X Φ450	1 X Φ450	1 X Φ450	2 X Φ450	2 X Φ450	2 X Φ450
	Air Flow(m^3/h)	4500	4500	4500	4500	7490	7490
	Fan Voltage	220V/1P/50HZ 4poles					
Evap 0℃	Cooling Capacity (W)	4560	6231	9439	11495	13386	14899
	Input (kw)	1.95	2.5	3.6	4.3	5.1	5.57
Evap -10℃	Cooling Capacity (W)	3130	4324	6556	7943	9541	10323
	Input (kw)	1.85	2.48	3.5	4.21	5.02	5.48
Evap -15℃	Cooling Capacity (W)	2538	3705	5382	6394	7932	8601
	Input (kw)	1.82	2.45	3.45	4.18	4.95	5.42
Evap -20℃	Cooling Capacity (W)	1995	3040	4512	5367	6370	6975
	Input (kw)	1.8	2.42	3.4	4.15	4.9	5.35
Evap -25℃	Cooling Capacity (W)	1581	2500	3657	4230	5320	5605
	Input (kw)	1.75	2.4	3.37	4.1	4.87	5.3
Pipe	Gas (inch)	3/4	3/4	7/8	7/8	7/8	7/8
	Liquid (inch)	3/8	1/2	1/2	1/2	1/2	1/2
Dimension (mm)		1100x475x610	1100x475x610	1100x475x1130	1100x475x1130	1100x475x1130	1100x475x1130

Remarks: Condensing temp:45℃