

KCU VCU Series

Box-Type with Danfoss
Scroll Compressor





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VCU**

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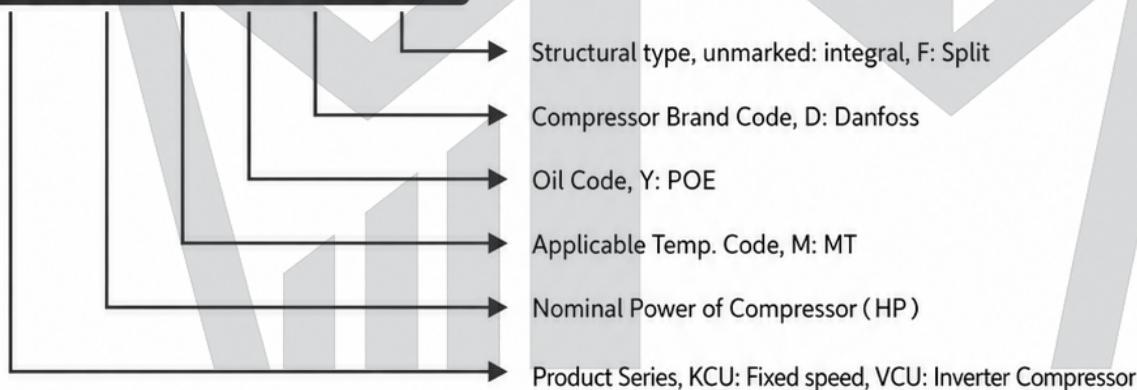
KCU/VCU Series Box-Type Unit with Danfoss Scroll Compressor

1. Product Description:

- ① This series of products is mainly developed for commercial and supermarket applications;
- ② The unit adopts Danfoss MLZ fixed frequency or VLZ variable frequency scroll compressor;
- ③ Air conditioning type case is adopted, adopted 6-pole low speed and low noise fan, it is very suitable for residential area;
- ④ The compressor and condenser can be divided into two cases according to the requirements of customers;
- ⑤ The unit is equipped with oil separator and accumulator, unit control and fan speed regulation, etc. It is especially suitable for convenience store and supermarket refrigeration system;
- ⑥ The pressure control compressor starts and stops;
- ⑦ With phase sequence, phase loss, over current, discharge temperature, system high and low pressure protection and fault query functions;
- ⑧ It can meet the requirements of R404A, R507A, R448A, R449A and other refrigerants

2. Model Description:

KCU 05 M Y D - F





3. Technical Data

3.1 KCU Series Unit for Fixed Speed Compressor

1) Refrigerant R404A/R507A

Model		KCU02MYD	KCU03MYD	KCU04MYD	KCU05MYD	KCU06MYD	KCU07MYD
Power Supply		3P / 380V / 50Hz					
Apply Temp.		-18°C ~ 5°C					
Comp. Model		MLZ015	MLZ021	MLZ030	MLZ038	MLZ045	MLZ048
Max. Current (A)		7.0	9.5	13.0	15.0	15.0	16.0
Capacity/ Power (kW)	Evap.	-5°C	3.8/1.7	5.6/2.2	7.7/3.5	10.0/3.7	11.2/5.1
		-10°C	3.2/1.7	4.6/2.1	6.7/3.3	8.3/3.6	9.7/4.8
		-15°C	2.6/1.7	3.9/2.1	5.6/3.1	6.9/3.5	8.1/4.6
		-20°C	2.1/1.6	3.2/2.0	4.6/3.0	5.5/3.5	6.6/4.4
		-25°C	1.7/1.6	2.5/1.9	3.7/3.0	4.5/3.5	5.3/4.3
Fan	Fan Voltage (V)		1P / 220V / 50Hz				
	Current (A)		0.68	0.68	0.68	1.36	1.36
	Power (W)		120	120	120	120×2	120×2
	Rev. (r/min)		820	820	820	820	820
Suction Line (mm)		φ19	φ19	φ19	φ19	φ19	φ19
Liquid Line (mm)		φ12.7	φ12.7	φ12.7	φ12.7	φ12.7	φ12.7
Size	L (mm)		1020	1020	1020	1020	1020
	W (mm)		420	420	420	420	420
	H (mm)		870	870	870	1270	1270
Install AxB (mm)		580×380	580×380	580×380	580×380	580×380	580×380
Weight (kg)		83	83	89	107.5	107.5	107.5
Noise dBA (1 meter)		60	60	60	61	61	61
Dimension Drawing		A	A	A	B	B	B

3.2 VCU Series Unit for Inverter Compressor

1) Refrigerant R404A/R507A

Model		VCU02MYD	VCU03MYD	VCU05MYD	VCU08MYDF
Power Supply		3P / 380V / 50Hz			
Apply Temp.		-18°C ~ 5°C			
Comp. Model		VLZ- 028	VLZ- 035	VLZ- 044	VZH - 065
Frequency Range		30Hz-100Hz			
Rated Current (A)		7.0	8.5	10.5	27.2
Max. Current (A)		8.1	9.8	12.1	31.2
Fan	Fan Voltage (V)		1P / 220V / 50Hz		
	Current (A)		0.68	1.36	1.36
	Power (W)		120	120×2	120×2
	Rev. (r/min)		820	820	820
Suction Line (mm)		φ19	φ19	φ19	φ22
Liquid Line (mm)		φ12.7	φ12.7	φ12.7	φ12.7
Size	L (mm)		1020	1020	1170
	W (mm)		420	420	490
	H (mm)		870	1270	1570
Overall Weight (kg)		82.5	102	102	68
Noise dBA		60	61	61	68
Install AxB (mm)		580×380	580×380	580×380	640×440
Integral Drawing		A	B	B	B
Split Drawing		A+C	B+C	B+C	B+C





3.2.1 VCU Cooling Capacity Data

KCU/VCU Series

Model	Speed (rpm)	Capacity/Power (W/kW)					
		Evaporating Temperature (°C)					
		0°C	-5°C	-10°C	-15°C	-20°C	-25°C
VCU02MYD	30	2570/0.9	2100/0.9	1680/0.9	1340/0.9	-	-
	40	3470/1.2	2830/1.2	2280/1.2	1820/1.2	-	-
	50	4000/1.6	3265/1.6	2630/1.6	2090/1.6	1630/1.5	1300/1.4
	60	4825/1.9	3940/1.9	3175/1.9	2530/1.8	1975/1.8	1560/1.7
	70	5640/2.3	4610/2.3	3720/2.2	2960/2.2	2320/2.2	1800/2.1
	80	6455/2.7	5274/2.6	4260/2.6	3400/2.5	2660/2.5	2100/2.3
	90	7260/3.1	5940/3.0	4800/3.0	3830/2.9	3000/2.8	2340/2.7
	100	8065/3.5	6600/3.4	5340/3.4	4260/3.3	3340/3.2	2600/3.1
VCU03MYD	30	3250/1.1	2650/1.1	2130/1.0	1695/1.0	-	-
	40	4390/1.4	3590/1.4	2900/1.4	2320/1.3	-	-
	50	5060/1.9	4130/1.9	3335/1.9	2660/1.8	2090/1.8	1650/1.8
	70	6080/2.3	4970/2.3	4020/2.3	3215/2.2	2530/2.2	1980/2.1
	70	7100/2.8	5800/2.7	4700/2.6	3760/2.6	2970/2.6	2300/2.5
	80	8110/3.2	6620/3.2	5360/3.2	4290/3.1	3390/3.0	2640/2.9
	90	9100/3.8	7430/3.7	6010/3.6	4815/3.5	3805/3.4	2970/3.3
	100	10090/4.3	8230/4.2	6660/4.1	5330/4.0	4210/3.9	3300/3.8
VCU05MYD	30	4200/1.3	3430/1.3	2770/1.3	2210/1.3	-	-
	40	5640/1.8	4630/1.8	3750/1.7	3000/1.7	-	-
	50	6510/2.5	5325/2.4	4310/2.4	3440/2.3	2700/2.2	2000/2.2
	60	7835/3.0	6415/3.0	5195/2.9	4150/2.8	3260/2.7	2500/2.6
	70	9150/3.6	7495/3.5	6070/3.4	4850/3.3	3810/3.2	2940/3.0
	80	10460/4.1	8565/4.1	6940/4.0	5540/3.9	4350/3.7	3360/3.5
	90	11770/4.8	9630/4.7	7795/4.6	6225/4.4	4885/4.3	3780/4.1
	100	13070/5.4	10690/5.3	8640/5.1	6895/5.0	5406/4.8	4200/4.6
VCU08MYD	30	6130/1.9	5010/1.9	4040/1.9	3220/1.9	-	-
	40	8230/2.6	6760/2.6	5470/2.5	4380/2.5	-	-
	50	9500/3.7	7770/3.6	6290/3.5	5020/3.4	3940/3.3	2920/3.2
	60	11440/4.4	9360/4.3	7580/4.2	6050/4.1	4760/3.9	3650/3.8
	70	13360/5.2	10940/5.1	8860/5.0	7080/4.8	5560/4.6	4290/4.5
	80	15270/6.0	12500/5.9	10130/5.8	8080/5.6	6350/5.4	4900/5.2
	90	17180/6.9	14050/6.8	11380/6.6	9080/6.4	7100/6.2	5510/6.0
	100	19080/7.8	15600/7.7	12600/7.5	10060/7.3	7890/7.0	6130/6.8

Notes: Cooling capacity calibration: ambient temperature 32°C, condensing temperature 40°C (≤ 40 rpm) or condensing temperature 45°C (≥ 50 rpm), superheat 10 K, subcooling 0 K.





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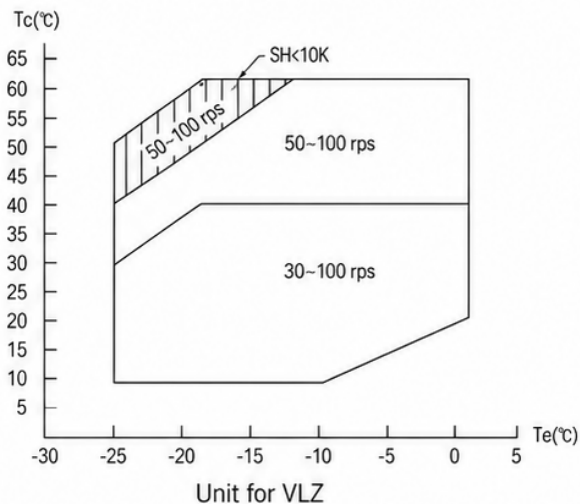
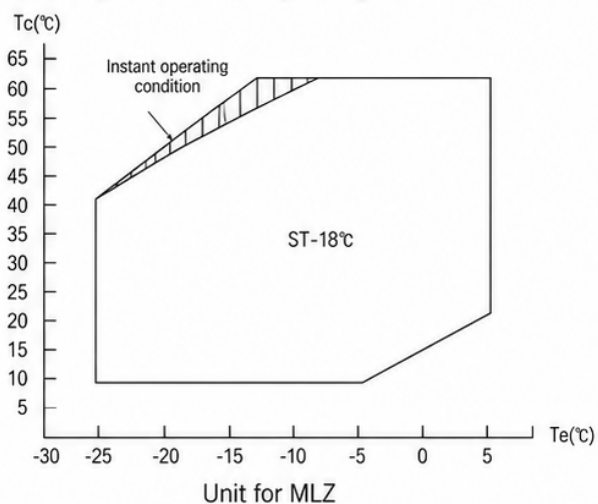


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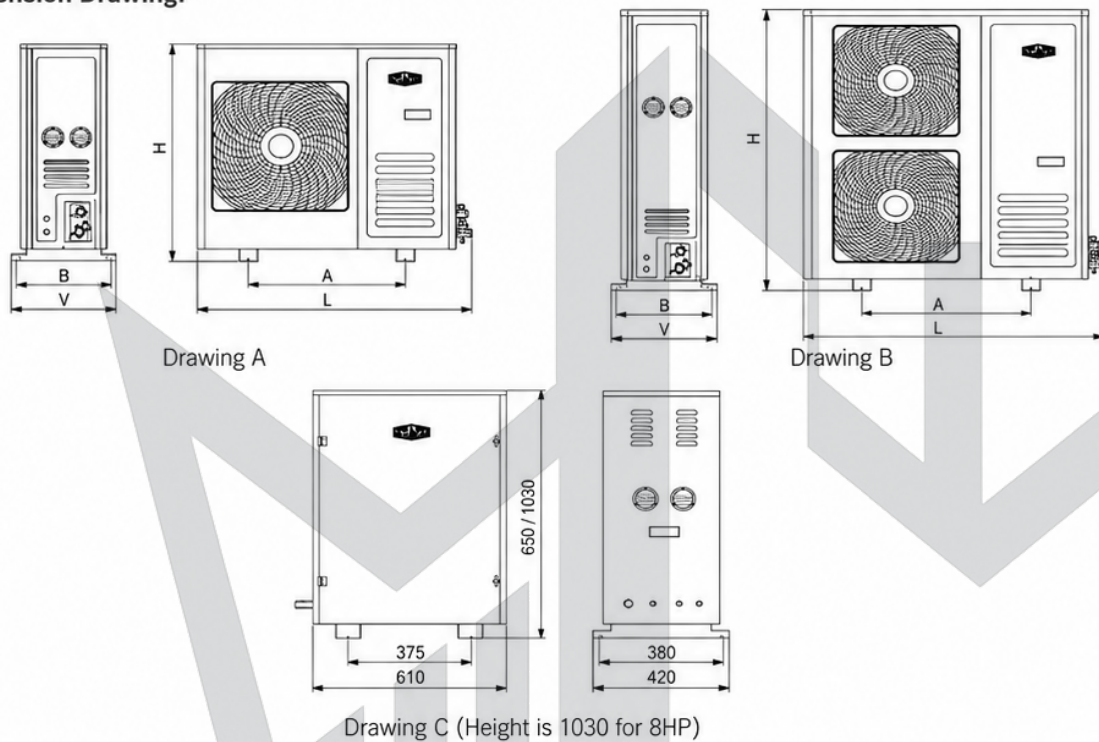
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Unit Operation Envelope Diagram & Dimension Drawing

4. Unit Operation Envelope Diagram:



5. Dimension Drawing:



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