



MASTERFLUX



Tecumseh

Variable Speed DC Compressors
and Condensing Units



MASTERFLUX

Variable Speed DC Compressors and Condensing Units

Tecumseh offers a wide range of Masterflux DC powered variable speed compressors and condensing units for a variety of applications.

If you have a need for compact, high power, efficient, and lightweight compressors, Masterflux has the model for you.

Our compressors are well suited for a variety of applications covering the ordinary to the extraordinary.



Features & Benefits



SIERRA Compressor

- High efficiency, high capacity, BLDC compressor line
- Robust rotary design ideally suited for mobile & transport applications
- 400-15,000 Btu/h (114-4,400W) capacity range
- Available in multiple refrigerants
- Simple 0-5V speed control
- Large selection of voltage ranges



ALPINE Compressor

- Reliable rotary mechanism with BLCD sensorless technology
- 150 and 300v nominal voltage options
- 11,000-34,000 Btu/h (3,200-10,000w) capacity range
- Available in R134a



CASCADE Compressor

- Low temperature compressor ideally suited for mobile applications
- High temperature models available for telecom applications
- 12/24V dual voltage models
- 48V Models
- Integrated electronic controller mounting



CONDENSING UNITS

- Integrated compressor controller
- Simple wiring
- Powder coated sheet metal
- Locking fasteners
- Single or variable speed
- 12V and 24V models (custom voltages available)
- 3,300 Btu/h (970 W) capacity
- Available in R134a

Applications

Heavy Duty Trucking

With today's new emissions requirements, legislative bans, and diesel prices, idling your engine is not an option. Masterflux's line of compressors is ideally suited for battery powered no-idle applications for OEM and aftermarket systems. With our lightweight and powerful 12 and 24V compressors, you will easily be able to cool down your cab and save your engine.

Automotive

Consensus of opinion is that electric compressors represent the future of automotive air conditioning. Masterflux compressors offer the automotive industry the "future" today. Our compressors are up to 40% smaller and lighter than competing belt driven automotive compressors and are available to handle input voltages of 12 to 420 VDC to meet today's electric vehicle requirements.

Medical/Scientific

Masterflux offers compressors to meet the demands of today's medical and scientific community for the higher cooling capacity requirements outside of the range of Peltier (thermo-electric) cells. Our compressors pack up to 50x the cooling/heating power of the largest Peltier cells. Because our compressors can be powered by low DC voltage, regulatory certification is greatly simplified.

Mass Transit

Masterflux compressors offer the mass transit market a cost effective option for your comfort cooling requirements. Our DC compressors can be powered directly off of today's common Rail 74 VDC voltage bus.

Solar/Off-Grid Power

Masterflux offers a solution for DC systems running on solar, battery, or other off-grid power sources. The direct DC Masterflux hermetic compressor eliminates the need for an inverter and the inductive surge at start up associated with a traditional A/C compressor.

Military

Stealth mode in the desert. Need to keep your cool but lose your heat signature? Looking for the safety and reliability of a hermetically sealed cooling system but want to use DC power? Masterflux is again the answer to these problems. Our technology can be found in military applications from the use of chiller technology for cooling a soldier to powering thermal systems for electronic cooling.

Electronics

Getting the heat out of your electronics isn't an option, it's a necessity. Component failures double with every 18 degree F increase in temperature. With such demanding requirements for electronic cooling, Masterflux is at the forefront of the development of new cooling concepts for electronic systems.



Compressors

With 3 series of compressors, SIERRA, ALPINE, and CASCADE. We have the range to cover almost any application whether it be refrigeration, commercial, or air-conditioning.

Voltages Available (DC)*							
	12/24	24/48	48	80	48/100	100/150	150/300
Sierra	■	■	■	■	■	■	■
Alpine						■	■
Cascade	■		■				

*Custom voltage ranges are available

Refrigerant				
Code	Table	Sierra	Alpine	Cascade
B	R410A	□		
E	R22	■		
Y	R134a	■	■	■
Z	R404A	■		
C	R407C	■		
H	R1234yf	□		
U	R290			□
M	R600a			□

□ Models in development

Options for the Compressors

- Dual /Tandem compressor configurations for increased capacity
- S.A.E. – M.I.O. automotive fittings
- Baseplate orientation
- Custom voltage ranges



Application Code Table		
Application Code	Evaporator Temperature	Rating Point
1	Low	-10° F (-23.3° C)
2	Medium / Commercial	+20° F (-6.7° C)
3	High / Air Conditioning	+45° F (7.2° C)

Compressor Model Naming Convention

The Masterflux model naming convention is very simple. A sample model and the breakdown of each of the parts is shown below. Please remember that a model may have several different part numbers depending on the particular configuration.

SIERRA02-0434Y3

Compressor Type

Voltage Code

Displacement (in³)

Application

Refrigerant

Voltage Code Table	
VOLTAGE CODE	NOMINAL VOLTAGE RANGE DC
01	12
02	12/24
03	24/48
04	48/100
05	100/150
06	150/300
07	150
08	300
09	420
17	48
18	24



MASTERFLUX

Controllers

Each Masterflux compressor requires a Masterflux sensorless BLDC motor controller to operate. These controllers are specifically tested and tuned for with each compressor and must be used. For each model of compressor, there may be several versions of the controller to choose from.

Controller Key Functions:

- Start and run the compressor
- Provide locked-rotor protection
- Provide thermal protection and shutdown of the compressor and controller
- Vary the speed of the compressor
- Limit the power and current draw
- Provide diagnostic information
- Low voltage and high voltage shutdown

Options for the controllers:

- Custom heat sink designs
- Custom wire harness options
- IP rated enclosures
- Soft start capability
- Custom voltage ranges and trip limits



Optional Accessories:

- Power input cables
- Compressor harnesses
- Manual control devices
- Serial and USB diagnostic devices



Make your choice:

Application	Model	Refrigerant	Capacity										
			30	60	120	240	470	940	1,900	3,800	7,500	15,000	Watt
			100	200	400	800	1,600	3,200	6,400	12,800	25,600	51,200	BTU/hr
HBP	Sierra	R134a											
		R22											
		R407C											
	Alpine	R134a											
	Cascade	R407C											
MBP	Sierra	R134a											
		R404A											
LBP	Sierra	R134a											
		R404A											
	Cascade	R134a											

Sierra Compressor:

HIGH / AIR CONDITIONING: (performance rated at 7.2°C/45°F evap., 54.4°C/130°F cond., 11.1°C/20°F superheat, 8.3°C/15°F subcooling, 35°C/95°F ambient)										
Model Number	Part Number	Connection Description	Voltage	Refrigerant	Application	Capacity	Compressor Drawing	Oil (cc)	Wgt	UL
SIERRA02-0434Y3	SIERRA00003	3/8" Suction, 5/16" Discharge Copper Tubes	12-24 V	R134a	High Temp.	1,586-6,091 BTU/hr 465-1,785 Watts	DCMX01-002	290	10.5 lbs 4.8 kg	No
SIERRA02-0434Y3	SIERRA00064	#10 Suction, #8 Discharge SAE MIO Fittings	12-24 V	R134a	High Temp.	1,586-6,091 BTU/hr 465-1,785 Watts	DCMX07-001	290	10.8 lbs 5.1 kg	No
SIERRA02-0434E3	SIERRA00021	3/8" Suction, 5/16" Discharge Copper Tubes	12-24 V	R22	High Temp.	2,535-6,500 BTU/hr 742-1,900 Watts	DCMX01-002	290	10.5 lbs 4.8 kg	No
SIERRA02-0434C3	SIERRA00019	3/8" Suction, 5/16" Discharge Copper Tubes	12-24 V	R407C	High Temp.	2,300-6,000 BTU/hr 680-1,800Watts	DCMX01-002	290	10.5 lbs 4.8 kg	No
SIERRA03-0434Y3	SIERRA00022	3/8" Suction, 5/16" Discharge Copper Tubes	24-48 V	R134a	High Temp.	1,628-5,606 BTU/hr 477-1,643 Watts	DCMX01-002	290	10.8 lbs 4.8 kg	Yes
SIERRA03-0434Y3	SIERRA00053	#10 Suction, #8 Discharge SAE MIO Fittings	24-48 V	R134a	High Temp.	1,628-5,606 BTU/hr 477-1,643 Watts	DCMX07-001	290	10.8 lbs 5.1 kg	Yes
SIERRA03-0434Y3	SIERRA00048	3/8" Suction, 5/16" Discharge Copper Tubes, High Ambient	24-48 V	R134a	High Temp.	1,628-5,606 BTU/hr 477-1,643 Watts	DCMX01-002	290	10.5 lbs 4.8 kg	No
SIERRA17-0434Y3	SIERRA00025	3/8" Suction, 5/16" Discharge Copper Tubes	48 V	R134a	High Temp.	1,707-6,500 BTU/hr 500-1,904 Watts	DCMX01-002	290	10.5 lbs 4.8 kg	Yes
SIERRA04-0434Y3	SIERRA00020	3/8" Suction, 5/16" Discharge Copper Tubes	48-100 V	R134a	High Temp.	1,707-6,500 BTU/hr 500-1,904 Watts	DCMX01-002	290	10.5 lbs 4.8 kg	No
SIERRA04-0434Y3	SIERRA00062	#10 Suction, #8 Discharge SAE MIO Fittings	48-100 V	R134a	High Temp.	1,707-6,500 BTU/hr 500-1,904 Watts	DCMX07-001	290	10.8 lbs 5.1 kg	No
SIERRA05-0434Y3	SIERRA00028	3/8" Suction, 5/16" Discharge Copper Tubes	100-150 V	R134a	High Temp.	1,785-6,375 BTU/hr 523-1,868 Watts	DCMX07-001	290	10.5 lbs 4.8 kg	No
SIERRA05-0434Y3	SIERRA00052	#10 Suction, #8 Discharge SAE MIO Fittings	100-150 V	R134a	High Temp.	1,785-6,375 BTU/hr 523-1,868 Watts	DCMX07-001	290	10.8 lbs 5.1 kg	No



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Sierra Compressor Continued:

HIGH / AIR CONDITIONING: (performance rated at 7.2°C/45°F evap., 54.4°C/130°F cond., 11.1°C/20°F superheat, 8.3°C/15°F subcooling, 35°C/95°F ambient)										
Model Number	Part Number	Connection Description	Voltage	Refrigerant	Application	Capacity	Compressor Drawing	Oil (cc)	Wgt	UL
SIERRA06-0434Y3	SIERRA00029	3/8" Suction, 5/16 " Discharge Copper Tubes	150-300 V	R134a	High Temp.	1,626-2,620 BTU/hr 476-1,798 Watts	DCMX01-002	290	10.5 lbs 4.8 kg	No
SIERRA06-0434Y3	SIERRA00054	#10 Suction, #8 Discharge SAE MIO Fittings	150-300 V	R134a	High Temp.	1,626-2,620 BTU/hr 476-1,798 Watts	DCMX07-001	290	10.8 lbs 5.1 kg	No
SIERRA06-0434Y3	SIERRA00057	3/8" Suction, 5/16 " Discharge Copper Tubes	150-300 V	R134a	High Temp.	1,626-2,620 BTU/hr 476-1,798 Watts	DCMX01-002	290	10.5 lbs 4.8 kg	No
SIERRA02-0716Y3	SIERRA00034	1/2" Suction, 5/16 " Discharge Copper Tubes	12-24 V	R134a	High Temp.	2,840-10,050 BTU/hr 832-2,945 Watts	DCMX02-002	355	14.7 lbs 6.6 kg	No
SIERRA02-0716Y3	SIERRA00061	#10 Suction, #8 Discharge SAE MIO Fittings	12-24 V	R134a	High Temp.	2,840-10,050 BTU/hr 832-2,945 Watts	DCMX03-002	355	15 lbs 6.8 kg	No
SIERRA03-0716Y3	14948357	1/2" Suction, 5/16 " Discharge Copper Tubes	24-48 V	R134a	High Temp.	2,840-11,300 BTU/hr 832-3,311 Watts	DCMX02-002	355	14.7 lbs 6.6 kg	No
SIERRA03-0716Y3	SIERRA00065	#10 Suction, #8 Discharge SAE MIO Fittings	24-48 V	R134a	High Temp.	2,840-11,300 BTU/hr 832-3,311 Watts	DCMX03-002	355	15 lbs 6.8 kg	No
SIERRA03-0982Y3	SIERRA00010	1/2" Suction, 5/16 " Discharge Copper Tubes	24-48 V	R134a	High Temp.	3,950-15,461 BTU/hr 1,157-4,530 Watts	DCMX01-004	290	14.1 lbs 6.4 kg	No
SIERRA03-0982Y3	14943161	#10 Suction, #8 Discharge SAE MIO Fittings	24-48 V	R134a	High Temp.	3,950-15,461 BTU/hr 1,157-4,530 Watts	DCMX07-002	290	14.4 lbs 6.5 kg	No
SIERRA03-0982Y3	SIERRA00058	#10 Suction, #8 Discharge SAE MIO Fittings, Dual Compressor Configuration	24-48 V	R134a	High Temp.	3,950-15,461 BTU/hr 1,157-4,530 Watts	DCMX11-002	290	14.7 lbs 6.7 kg	No
SIERRA03-0982E3	SIERRA00033	1/2" Suction, 5/16 " Discharge Copper Tubes	24-48 V	R22	High Temp.	6,000-15,000 BTU/hr 1,750-4,400 Watts	DCMX01-004	290	14.1 lbs 6.4 kg	No
SIERRA17-0982Y3	SIERRA00031	1/2" Suction, 5/16 " Discharge Copper Tubes	48 V	R134a	High Temp.	4,160-8,090 BTU/hr 1,219-2,375 Watts	DCMX01-004	290	14.1 lbs 6.4 kg	Yes
SIERRA17-0982E3	SIERRA00059	1/2" Suction, 5/16 " Discharge Copper Tubes	48 V	R22	High Temp.	6,000-15,000 BTU/hr 1,750-4,400 Watts	DCMX01-004	290	14.1 lbs 6.4 kg	No
SIERRA17-0982C3	SIERRA00066	1/2" Suction, 5/16 " Discharge Copper Tubes	48 V	R407C	High Temp.	5,500-13,700 BTU/hr 1,600-4,000 Watts	DCMX01-004	290	14.1 lbs 6.4 kg	No
SIERRA04-0982Y3	SIERRA00011	1/2" Suction, 5/16 " Discharge Copper Tubes	48-100 V	R134a	High Temp.	4,160-15,200 BTU/hr 1,219-4,454 Watts	DCMX01-004	290	14.1 lbs 6.4 kg	No
SIERRA04-0982Y3	14949801	#10 Suction, #8 Discharge SAE MIO Fittings	48-100 V	R134a	High Temp.	4,160-15,200 BTU/hr 1,219-4,454 Watts	DCMX07-002	290	14.4 lbs 6.5 kg	No
SIERRA05-0982Y3	SIERRA00012	1/2" Suction, 5/16 " Discharge Copper Tubes	100-150 V	R134a	High Temp.	3,970-15,170 BTU/hr 1,163-4,190 Watts	DCMX01-004	290	14.1 lbs 6.4 kg	No
SIERRA05-0982Y3	SIERRA00055	#10 Suction, #8 Discharge SAE MIO Fittings	100-150 V	R134a	High Temp.	3,970-15,170 BTU/hr 1,163-4,190 Watts	DCMX07-002	290	14.4 lbs 6.5 kg	No
SIERRA06-0982Y3	SIERRA00013	1/2" Suction, 5/16 " Discharge Copper Tubes	150-300 V	R134a	High Temp.	3,909-15,170 BTU/hr 1,145-4,445 Watts	DCMX01-004	290	14.1 lbs 6.4 kg	No
SIERRA06-0982Y3	14944727	#10 Suction, #8 Discharge SAE MIO Fittings	150-300 V	R134a	High Temp.	3,909-15,170 BTU/hr 1,145-4,445 Watts	DCMX07-002	290	14.4 lbs 6.5 kg	No
MEDIUM / REFRIGERATOR: (performance rated at -6.7°C/20°F evap., 54.4°C/130°F cond., 11.1°C/20°F superheat, 8.3°C/15°F subcooling, 35°C/95°F ambient)										
SIERRA04-0434Y2	SIERRA00070	3/8" Suction, 5/16 " Discharge Copper Tubes	48-100 V	R134a	Medium Temp.	895-937 BTU/hr 262-1,500 Watts	DCMX01-002	290	10.5 lbs 4.8 kg	No
SIERRA05-0434Z2	SIERRA00056	3/8" Suction, 5/16 " Discharge Copper Tubes	100-150 V	R404A	Medium Temp.	1,430-5,200 BTU/hr 420-1,500 Watts	DCMX01-002	290	10.5 lbs 4.8 kg	No

Sierra Compressor Continued:

LOW / FREEZER: (performance rated at -23°C/-10°F evap., 54.4°C/130°F cond., 11.1°C/20°F superheat, 8.3°C/15°F subcooling, 35°C/95°F ambient)										
Model Number	Part Number	Connection Description	Voltage	Refrigerant	Application	Capacity	Compressor Drawing	Oil (cc)	Wgt	UL
SIERRA02-0434Y1	SIERRA00030	3/8" Suction, 5/16" Discharge Copper Tubes	12-24 V	R134a	Low Temp.	445-1,534 BTU/hr 121-437 Watts	DCMX01-002	290	10.5 lbs 4.8 kg	No
SIERRA02-0434Z1	SIERRA00069	3/8" Suction, 5/16" Discharge Copper Tubes	12-24 V	R404A	Low Temp.	720-2,600 BTU/hr 210-765 Watts	DCMX01-002	290	10.5 lbs 4.8 kg	No
SIERRA03-0434Z1	SIERRA00049	3/8" Suction, 5/16" Discharge Copper Tubes	24-48 V	R404A	Low Temp.	720-2,600 BTU/hr 210-765 Watts	DCMX01-002	290	10.5 lbs 4.8 kg	No
SIERRA03-0982Z1	SIERRA00027	1/2" Suction, 5/16" Discharge Copper Tubes	24-48 V	R404A	Low Temp.	1,700-6,200 BTU/hr 500-1,800 Watts	DCMX01-004	290	14.1 lbs 6.4 kg	No

Sierra Controller:

Controller Number	Nominal Voltage Range	Description	Compressor Models	Controller Drawing	Wiring Diagram	Manual Control Device	Power Input Cable	Comp. Harness	UL
025A0027	12-24 VDC	Standard Analog Controller Full Cables, 9-30 VDC	SIERRA02-0434XX	DGMX005	DEM02	030A0041	91210	N/A	No
025A0122	12-24 VDC	Standard Controller - Full Cables, 9-30 VDC		DGMX0020	DEM0020	030A0117	91210	N/A	No
025F0095	12-24 VDC	No Cables, 9-30 VDC, ROHS		DGMX0022	DEM0020	030A0117	N/A	040A0095	No
025A0172	12-24 VDC	Full Cables, 9-30 VDC		DGMX0041	DEM0020	030A0117	N/A	N/A	No
025A0180	12-24 VDC	Flanged Heatsink, 9-30 VDC		DGMX0038	DEM0020	030A0117	N/A	040A0095	No
025A0134	12 VDC	Full Cables, 9-30 VDC	SIERRA02-0716XX	DGMX0021	DEM0020	030A0117	14955303	N/A	No
025A0145	24-48 VDC	Full Cables, 19-59.9 VDC	SIERRA03-0434XX SIERRA03-0716XX SIERRA03-0982XX	DGMX0030	DEM0010	030A0043	040A0020	N/A	Yes
025F0149	24-48 VDC	No Cables, Flanged Heatsink, 19-59.9 VDC, ROHS		DGMX0031	DEM0010	030A0043	N/A	040A0120	Yes
025F0129	24-48 VDC	No Cables, 19-59.9 VDC		DGMX0033	DEM0010	030A0043	N/A	040A0120	Yes
025A0148	24-48 VDC	Short Cables, 19-59.9 VDC		DGMX0029	DEM0010	030A0043	91210	91209	Yes
025A0150	48 VDC	Full Cables, 37-59.9 VDC	SIERRA04-0434XX SIERRA04-0982XX SIERRA17-0434XX SIERRA17-0982XX	DGMX0030	DEM0010	030A0043	040A0020	N/A	Yes
025F0158	48 VDC	No Cables, Flanged Heatsink 37-59.9 VDC, ROHS		DGMX0031	DEM0010	030A0043	N/A	040A0120	Yes
025F0152	48 VDC	No Cables, 37-59.9 VDC, ROHS		DGMX0033	DEM0010	030A0043	N/A	040A0120	Yes
025A0153	48 VDC	Short Cables, 37-59.9 VDC		DGMX0029	DEM0010	030A0043	91210	91209	Yes
025F0135	80 VDC	No Cables, Flanged Heat sink 60-97 VDC, ROHS		DGMX0026	DEM02	030A0117	N/A	040A0095	No
025F0139	80 VDC	No Cables, 60-97 VDC, ROHS		DGMX0042	DEM02	030A0117	N/A	040A0095	No
025F0062-04	100 VDC	No Cables, 55-110 VDC, ROHS		DGMX008	DEM06	030A0138	N/A	14942832	No
025F0140-04	100 VDC	No Cables, Flanged Heatsink 55-110 VDC, ROHS		DGMX012	DEM06	030A0138	N/A	14942832	No
025F0140-05	100 VDC	No Cables, Flanged Heatsink 75-125 VDC, ROHS	SIERRA04-0434XX SIERRA04-0982XX SIERRA05-0434XX SIERRA05-0982XX	DGMX012	DEM06	030A0138	N/A	14942832	No
025F0140-01	100-150 VDC	No Cables, Flanged Heatsink 90-165 VDC, ROHS	SIERRA05-0434XX SIERRA05-0982XX	DGMX012	DEM06	030A0138	N/A	14942832	No
025F0062-01	100-150 VDC	No Cables, 90-165 VDC, ROHS		DGMX008	DEM06	030A0138	N/A	14942832	No

Sierra Controller Continued:

Controller Number	Nominal Voltage Range	Description	Compressor Models	Controller Drawing	Wiring Diagram	Manual Control Device	Power Input Cable	Comp. Harness	UL
025F0062-02	150-300 VDC	No Cables, 115-325 VDC, ROHS	SIERRA06-0434XX SIERRA06-0982XX	DGMX008	DEM06	030A0138	N/A	14942832	No
025F0140-02	150-300 VDC	No Cables, Flanged Heatsink 115-325 VDC, ROHS		DGMX012	DEM06	030A0138	N/A	14942832	No
025F0062-03	150-300 VDC	No Cables, 120-420 VDC, ROHS		DGMX008	DEM06	030A0138	N/A	14942832	No
025F0140-03	150-300 VDC	No Cables, Flanged Heatsink 120-420 VDC, ROHS		DGMX012	DEM06	030A0138	N/A	14942832	No

Sierra Condensing Unit:

HIGH/ AIR CONDITIONING: (performance rated at 7.2°C/45°F evap., 32.2°C/90°F cond.)								
Model	Part Number	Application	Refrigerant	VDC	Capacity	Amps	Wgt	
SIERRA01-0434Y3XA	14959753	High Temp./Air Cooled	R134a	12	3,079 BTU/hr 902 Watts	32.8	33.5lb/15.2kg	
SIERRA18-0434Y3XA	14959722	High Temp./Air Cooled	R134a	24	3,305 BTU/hr 968 Watts	17.7	33.5lb/15.2kg	

Alpine Compressor:

HIGH / AIR CONDITIONING: (performance rated at 7.2°C/45°F evap., 54.4°C/130°F cond., 11.1°C/20°F superheat, 8.3°C/15°F subcooling, 35°C/95°F ambient)										
Model Number	Part Number	Connection Description	Voltage	Refrigerant	Application	Capacity	Compressor Drawing	Oil (cc)	Wgt	UL
ALPINE05-2750Y3	ALPINE00001	5/8" Suction, 7/16" Discharge Copper Tubes	100-150 V	R134a	High Temp.	11,200-26,900 BTU/hr 3,270-7,900 Watts	DCMX08-002	700	31 lbs 14.1 kg	No
ALPINE08-2750Y3	14944426	3/8" Suction, 5/16" Discharge Copper Tubes	300 V	R134a	High Temp.	11,200-34,900 BTU/hr 3,270-10,000 Watts	DCMX08-002	700	31 lbs 14.1 kg	No
ALPINE08-2750Y3	ALPINE00002	#12 Suction, #10 Discharge SAE MIO Fittings	300 V	R134a	High Temp.	11,200-39,000 BTU/hr 3,270-10,000 Watts	DCMX13NO	700	31.3 lbs 14.2 kg	No

Alpine Controller:

Controller Number	Nominal Voltage Range	Description	Compressor Models	Controller Drawing	Wiring Diagram	Manual Control Device	Power Input Cable	Comp. Harness	UL
025F0093-03	300 VDC	No Cables, Flanged Heatsink 212-420 VDC, ROHS	ALPINE08-2750XX	DGMX0022	DEM012	030A0138	N/A	14955756	No

Cascade Compressor:

LOW / FREEZER: (performance rated at -23°C/-10°F evap., 54.4°C/130°F cond., 11.1°C/20°F superheat, 8.3°C/15°F subcooling, 35°C/95°F ambient)										
Model Number	Part Number	Connection Description	Voltage	Refrigerant	Application	Capacity	Compressor Drawing	Oil (cc)	Wgt	UL
CASCADE02-0146Y1	CASCADE00001	5/16" Suction, 5/16" Discharge Copper Tubes	12-24 V	R134a	Low Temp.	106-237 BTU/hr 31-69 Watts	DCMX14-001	263	14.2 lbs 6.4 kg	No
CASCADE02-0231Y1	CASCADE00002	5/16" Suction, 5/16" Discharge Copper Tubes	12-24 V	R134a	Low Temp.	190-444 BTU/hr 56-130 Watts	DCMX14-002	263	14.2 lbs 6.4 kg	No

Cascade Controller:

Controller Number	Nominal Voltage Range	Description	Compressor Models	Controller Drawing	Wiring Diagram	Manual Control Device	Power Input Cable	Comp. Harness	UL
030F0121	12-24 VDC	Compressor Mounted Controller 9.9-33 VDC	CASCADE01-0146Y1 CASCADE02-0231Y1	DGMX0044	DEM0024	N/A	N/A	N/A	No



Notes

[illegible]

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