



Tecumseh



MASTERFLUX®



ATLAS

MESA

Small Size. Big Difference.

APPLICATION FLEXIBILITY

The rugged yet compact and light weight design makes the new Micro/Mini Rotary BLDC Compressor Series suitable for an extensive range of applications. Some of these applications are listed below:

- Automotive (Individual A/C Systems)
- Bus / RV Refrigerators
- Truck / Boat Refrigerators
- Truck Parking Cooler (No-Idle)
- Home Appliances (Water cooler, wine dispenser, CPU cooling)
- Aircraft Cooling
- Telecommunications Cooling
- Medical

COMPACT

Tecumseh has reduced the weight and the size of the rotary compressor to about the size of a 12oz soda can, which is one-fourth of the size of a conventional compressor.

QUIET OPERATION

Stable / low vibration mechanism and reduced friction cylinder components minimizes noise.

REDUCED ENERGY

The new Micro/Mini Rotary compressor combines high efficiency motors with optimized pumping mechanisms resulting in industry leading compressor EERs.

Mesa/Atlas Series Micro / Mini Rotary BLDC Compressors

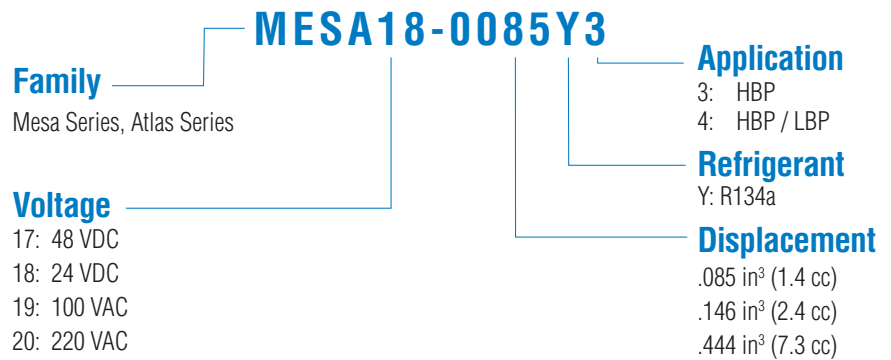
For more information on products by Tecumseh, please visit our website www.tecumseh.com

SPECIFICATIONS

Variable Speed Mini / Micro-Rotary Compressor (R134a)

Evaporating Ranges:	-13°F to 68°F (-25°C to 20°C)
Refrigerant(s) / Oil(s):	R134a / POE
Connections (in)	
Suction:	Mesa 1/4", Atlas 3/16"
Discharge:	Mesa 3/8", Atlas 5/16"
Footprint (in):	Industry Standard
Motor Type:	BLDC
Voltage:	24 VDC, 48 VDC, 100 VAC, 220 VAC

COMPRESSOR MODEL NOMENCLATURE



ASHRAE RATING

Refrigerant	Model Number	Item # (Bill of Material)	Voltage	Application	Capacity (HBP) BTU/hr	Capacity (HBP) Watts	Capacity (LBP) BTU/hr	Capacity (LBP) Watts	Dimensional Drawing
R134a	MESA18-0085Y3	MESA00001	24 VDC	HBP	380-1,086 BTU/hr	111-318W	-	-	A
	MESA17-0085Y3	MESA00002	48 VDC	HBP	380-1,086 BTU/hr	111-318W	-	-	A
	MESA20-0085Y3	MESA00003	220 VAC	HBP	380-1,086 BTU/hr	111-318W	-	-	A
	MESA18-0146Y4	MESA00004	24 VDC	HBP / LBP	379-1,897 BTU/hr	111-556W	95-474 BTU/hr	28-139W	B
	MESA19-0146Y4	MESA00005	100 VAC	HBP / LBP	379-1,897 BTU/hr	111-556W	95-474 BTU/hr	28-139W	B
	MESA20-0146Y4	MESA00006	220 VAC	HBP / LBP	379-1,897 BTU/hr	111-556W	95-474 BTU/hr	28-139W	B
ATLAS18-0444Y4	ATLAS00001	24 VDC	HBP / LBP	1,800-6,000 BTU/hr	527-1758W	502-970 BTU/hr	147-284W	C	

Part Number	Nominal Voltage	Actual Voltage	Compressor Model	Controller Drawing	Wiring Diagram
025F0361	24 VDC	16-32 VDC	MESA18-0146Y3	DGMX0089	DEMXX0058
025F0362	24 VDC	16-32 VDC	MESA18-0085Y3	DGMX0089	DEMXX0058
025F0363	48 VDC	42-60 VDC	MESA17-0085Y3	DGMX0089	DEMXX0058
025F0364	220 VAC	195.5-299 VAC, 50-60 Hz	MESA20-0085Y3	DGMX0090	DEMXX0059
025F0365	100 VAC	85-130 VAC, 50-60 Hz	MESA19-0146Y3	DGMX0090	DEMXX0059
025F0366	220 VAC	195.5-299 VAC, 50-60 Hz	MESA20-0146Y3	DGMX0090	DEMXX0059
025F0367	24 VDC	18-31.5 VDC	ATLAS18-0444Y3	DGMX0091	DEMXX0060

DIMENSIONS

