

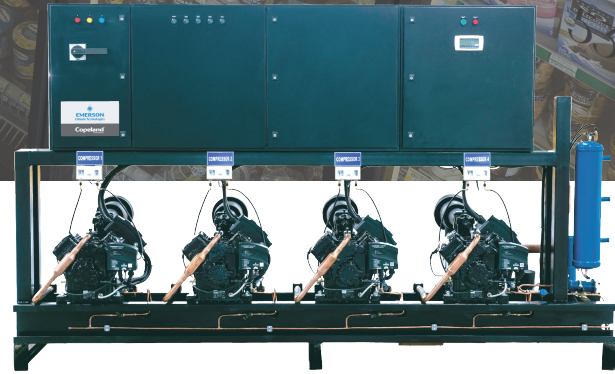
Copeland™ Multi-Compressor Rack

For Medium and Low Temperature Refrigeration Applications



The ideal choice for supermarkets, hypermarkets and large cold rooms.

Nominal Capacities (kW)	96 to 395 (Medium Temp) 55 to 193 (Low Temp)
Refrigerants	R134a/R404A (MT) and R404A (LT)
Electrical	AWM - 50Hz: 380-420V/3ph - Part Wind Start EWK - 60Hz: 380-420/3ph - DOL

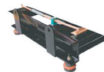


Features



Stream compressor

- High efficiency Discus™ Valve
- Advanced compressor diagnostics



Mounting frame

- Spring-mounted robust MS frame to reduce noise & vibration
- Easy serviceability



Robust line control oil with reservoir, oil separator, oil filter and oil level regulator (with sight glass)

- Effective oil management, removes impurities
- Electrical oil control
- Oil pressure switch



Electrical panel with Dixell™ electronics

- Electronic controller (XC rack controller) - with display alarms and i/o relays for safety and communication
- Flexible and easy to configure
- Circuit breakers and thermal overload protection (for individual compressors and for condenser fan - max 4 stages)
- Optimized algorithms for efficient rack compressor control



Dual pressure switches

- Adjustable pressures and differentials



Suction header with suction filters (with replaceable core)

- Smooth & optimized distribution of refrigerant
- Adequately sized & insulated
- Suction stubs with easily accessible ball valves for isolation



Liquid station (optional), including:

- Receiver
- Inlet and outlet isolating valve
- Replaceable core filter
- Moisture indicator
- Pressure relief valve
- Low liquid level alarm switch

Common discharge header

- Adequately sized to avoid oil traps
- Heavy gauged discharge piping, protected within rack frame

Step capacity control kit for MT racks (R404a) optional.

Copeland™ multi-compressor rack is furnished with an auto back-up mode as a standard feature.

Nomenclature

EMP	B	-	4	6M	120	M	M	-	XXXXX	X
Emerson Multi Compressor Pack	Generation II		Compressor Quantity	Compressor Platform	Compressor Pack Total Horse Power	Application Range M - Medium Temperature Y - Medium Temperature R134a L - Low Temperature J - Low Temperature with Liquid Injection	Frequency M - 50 Hz AWM K - 60 Hz EWK		Bill of Material (SE)	Sequential Variation Number

Product Range (Capacity in kW)

Medium Temperature Application

50 Hz				60 Hz			
Model Number	No. of Compressors	Compressor	Capacity (kW)	Model Name	No. of Compressors	Compressor	Capacity (kW)
EMPB-34M066MM-XXX	3	4MA-22X	96.00	EMPB-34M066MK-XXX	3	4MA-22X	113.10
EMPB-34M075MM-XXX	3	4MH-25X	112.80	EMPB-34M075MK-XXX	3	4MH-25X	133.20
EMPB-34M090MM-XXX	3	4MI-30X	125.40	EMPB-34M090MK-XXX	3	4MI-30X	148.20
EMPB-34M099MM-XXX	3	4MJ-33X	139.80	EMPB-34M099MK-XXX	3	4MJ-33X	165.00
EMPB-34M105MM-XXX	3	4MK-35X	156.90	EMPB-34M105MK-XXX	3	4MK-35X	185.40
EMPB-36M120MM-XXX	3	6MI-40X	189.60	EMPB-36M120MK-XXX	3	6MI-40X	223.80
EMPB-36M135MM-XXX	3	6MJ-45X	211.50	EMPB-36M135MK-XXX	3	6MJ-45X	249.60
EMPB-36M150MM-XXX	3	6MK-50X	237.00	EMPB-36M150MK-XXX	3	6MK-50X	279.90
EMPB-44M088MM-XXX	4	4MA-22X	128.00	EMPB-44M088MK-XXX	4	4MA-22X	150.80
EMPB-44M100MM-XXX	4	4MH-25X	150.40	EMPB-44M100MK-XXX	4	4MH-25X	177.60
EMPB-44M120MM-XXX	4	4MI-30X	167.20	EMPB-44M120MK-XXX	4	4MI-30X	197.60
EMPB-44M132MM-XXX	4	4MJ-33X	186.40	EMPB-44M132MK-XXX	4	4MJ-33X	220.00
EMPB-44M140MM-XXX	4	4MK-35X	209.20	EMPB-44M140MK-XXX	4	4MK-35X	247.20
EMPB-46M160MM-XXX	4	6MI-40X	252.80	EMPB-46M160MK-XXX	4	6MI-40X	298.40
EMPB-46M180MM-XXX	4	6MJ-45X	282.00	EMPB-46M180MK-XXX	4	6MJ-45X	332.80
EMPB-46M200MM-XXX	4	6MK-50X	316.00	EMPB-46M200MK-XXX	4	6MK-50X	373.20
EMPB-56M225MM-XXX	5	6MJ-45X	352.50	EMPB-56M225MK-XXX	5	6MJ-45X	416.00
EMPB-56M250MM-XXX	5	6MK-50X	395.00	EMPB-56M250MK-XXX	5	6MJ-45X	466.50

Low Temperature Application

50 Hz				60 Hz			
Model Number	No. of Compressors	Compressor	Capacity (kW)	Model Name	No. of Compressors	Compressor	Capacity (kW)
EMPB-34M045LM-XXX	3	4ML-15X	54.90	EMPB-34M045LK-XXX	3	4ML-15X	64.80
EMPB-34M060LM-XXX	3	4MM-20X	61.20	EMPB-34M060LK-XXX	3	4MM-20X	72.30
EMPB-34M066LM-XXX	3	4MT-22X	68.70	EMPB-34M066LK-XXX	3	4MT-22X	81.30
EMPB-34M075LM-XXX	3	4MU-25X	75.60	EMPB-34M075LK-XXX	3	4MU-25X	89.40
EMPB-36M090LM-XXX	3	6MM-30X	91.80	EMPB-36M090LK-XXX	3	6MM-30X	108.30
EMPB-36M105LM-XXX	3	6MT-35X	103.50	EMPB-36M105LK-XXX	3	6MT-35X	122.10
EMPB-36M120LM-XXX	3	6MU-40X	115.80	EMPB-36M120LK-XXX	3	6MU-40X	136.50
EMPB-44M060LM-XXX	4	4ML-15X	73.20	EMPB-44M060LK-XXX	4	4ML-15X	86.40
EMPB-44M080LM-XXX	4	4MM-20X	81.60	EMPB-44M080LK-XXX	4	4MM-20X	96.40
EMPB-44M088LM-XXX	4	4MT-22X	91.60	EMPB-44M088LK-XXX	4	4MT-22X	108.40
EMPB-44M100LM-XXX	4	4MU-25X	100.80	EMPB-44M100LK-XXX	4	4MU-25X	119.20
EMPB-46M120LM-XXX	4	6MM-30X	122.40	EMPB-46M120LK-XXX	4	6MM-30X	144.40
EMPB-46M140LM-XXX	4	6MT-35X	138.00	EMPB-46M140LK-XXX	4	6MT-35X	162.80
EMPB-46M160LM-XXX	4	6MU-40X	154.40	EMPB-46M160LK-XXX	4	6MU-40X	182.00
EMPB-56M175LM-XXX	5	6MT-35X	172.50	EMPB-56M175LK-XXX	5	6MT-35X	203.50
EMPB-56M200LM-XXX	5	6MU-40X	193.00	EMPB-56M200LK-XXX	5	6MU-40X	227.50

Notes: Capacity calculated for R404A at

Medium Temperature:

Evaporating Temp: -10°C / Condensing Temp: 45°C / Superheat: 20K

Low Temperature:

Evaporating Temp: -25°C / Condensing Temp: 45°C / Superheat: 20K

Scan to download documentation:



50Hz

60Hz

For detailed Rack performance at various operating conditions, please contact Emerson's local sales office.

