

Variable Speed Technology



A complete portfolio
for your commercial
refrigeration needs

 Efficiency

 Wide Voltage
Range

 Lower Noise

 Fast Cooling

 Eco friendly: using
natural refrigerants
with low GWP

think ahead

Variable Speed Technology line
has models for various applications



embraco
Nidec

Check out the specifications of some models

Refrigerant	Model	Applc.	Ref. Comercial [HP]	Disp. [cc]	Env. Range [°C]	Test Condition (Rated Point)	Rotation [RPM]	CAP* [W]	COP Max* [W/W]
R290	VLT203U**	LBP	1/4	2.94	-40° to -20°	ASHRAE LBP	1800 to 5500	85 - 266	1.84
	VLT403U**	L/MBP	1/3	2.94	-40° to 0°	ASHRAE LBP	1800 to 6300	85 - 302	1.84
	VLT205U**	LBP	1/3	4.65	-40° to -20°	ASHRAE LBP	2400 to 5500	190 - 420	1.80
	VLT405U**	L/MBP	1/2	4.65	-40° to 0°	ASHRAE LBP	2400 to 6300	191 - 484	1.80
	VEMT403U	LMBP	1/3	3.00	-40° to 0°	ASHRAE LBP	1200 to 4500	60 - 220	1.81
	VEMT404U	LMBP	1/3+	4.30	-40° to 0°	ASHRAE LBP	1200 to 4500	90 - 345	1.96
	VEMT406U	LMBP	1/2	6.40	-40° to 0°	ASHRAE LBP	1600 to 4500	150 - 439	1.72
	VEME406U**	LMBP	1/2	6.10	-40° to 0°	ASHRAE LBP	1200 to 5000	118 - 512	1.97
	VEHT409U	L/MBP	1/2	9.04	-40° to 0°	ASHRAE LBP	1600 to 4500	239 - 675	1.84
	VEHD409U**	L/MBP	1/2	8.76	-40° to 0°	ASHRAE LBP	1600 to 5000	244 - 768	1.99
	VEHU413U	L/MBP	1	12.74	-40° to 0°	ASHRAE LBP	1600 to 4500	345 - 936	1.72
	VEHD411U**	L/MBP	1	10.88	-40° to 0°	ASHRAE LBP	1600 to 5000	303 - 947	1.96
	FMFT406U	LMBP	1/2	6.40	-40° to 0°	ASHRAE LBP	1400 to 4500	127 - 527	1.94
	FMFT408U	LMBP	1/2	8.00	-40° to 0°	ASHRAE LBP	1800 to 4500	249 - 655	1.91
	FMFT411U	LMBP	3/4	11.00	-40° to 0°	ASHRAE LBP	1800 to 4500	349 - 867	1.94
	FMFD413UE	LMBP	1	11.00	-40° to 0°	ASHRAE LBP	1600 to 5000	324 - 958	1.99
	FMFT213U	LBP	1	13.00	-40° to -10°	ASHRAE LBP	1800 to 4500	413 - 963	1.89
	FMFT413U	LMBP	1/2	13.00	-40° to 0°	ASHRAE LBP	1800 to 4500	401 - 1000	1.84
	FMFT415U	LMBP	1 1/4	14.80	-40° to 0°	ASHRAE LBP	1600 to 5000	458 - 1275	1.84
	FMFE411U**	LMBP	3/4	11.00	-40° to 0°	ASHRAE LBP	1600 to 5000	330 - 958	2.09
	FMFD415U**	LMBP	1 1/4	14.80	-40° to 0°	ASHRAE LBP	1600 to 5000	470 - 1250	1.97
	VNEX219U	LBP	1 1/4	18.7	-40° to -10°	ASHRAE LBP	2200 to 5000	663 - 1462	1.78
	VNEX221U	LBP	1 1/2	21.02	-40° to -10°	ASHRAE LBP	2200 to 5000	779 - 1657	1.82
	VNEX419U	L/MBP	1 1/4	18.7	-40° to 0°	ASHRAE LBP	2200 to 5000	666 - 1472	1.74
	VNEX421U	L/MBP	1 1/2	21.02	-40° to 0°	ASHRAE LBP	2200 to 5000	775 - 1662	1.75
	VNEX619U	L/MBP	1 1/4	18.7	-40° to 0°	EN12900MBP	2200 to 5000	1094 - 2276	2.41
	VNEX621U	L/MBP	1 1/2	21.02	-40° to 0°	EN12900MBP	2200 to 5000	1241 - 2508	2.37
R600a	FMSA4C	L/MBP	1/16	2.8	-35° to 0°	ASHRAE LBP	1800 - 6300	43 - 86	1.69
	FMXY4C	L/MBP	1/16	4.0	-35° to 0°	ASHRAE LBP	1300 - 4000	21 - 71	1.58
	FMXD4C	L/MBP	1/16	4.0	-35° to 0°	ASHRAE LBP	1300 - 4000	22 - 75	1.73
	VESD5C	L/MBP	1/12	5.2	-35° to -5°	ASHRAE LBP	1200 - 4500	34 - 126	1.84
	VESF5C	L/MBP	1/12	5.2	-35° to 0°	ASHRAE LBP	1200 - 4500	33 - 119	1.82
	FMXY6C	L/MBP	1/10	6.2	-35° to 0°	ASHRAE LBP	1300 - 4000	39 - 121	1.70
	FMXD6C	L/MBP	1/10	6.2	-35° to 0°	ASHRAE LBP	1300 - 4000	41 - 126	1.91
	FMSY7C	L/MBP	1/9	5.2	-35° to 0°	ASHRAE LBP	1800 - 6300	52 - 170	1.72
	VESD7C	LBP	1/9	7.2	-35° to -10°	ASHRAE LBP	1200 - 4500	39 - 184	1.95
	VESF7C	L/MBP	1/9	7.2	-35° to 0°	ASHRAE LBP	950 - 4500	35 - 178	1.97
	FMSA9C	L/MBP	1/7	6.5	-35° to 0°	ASHRAE LBP	1800 - 6300	69 - 215	1.80
	FMXY9C	L/MBP	1/7	8.7	-35° to 0°	ASHRAE LBP	1300 - 4000	62 - 180	1.75
	FMXD9C	L/MBP	1/6	8.7	-35° to 0°	ASHRAE LBP	1300 - 4000	62 - 187	1.90
	VESF9C	L/MBP	1/6	9.0	-35° to 0°	ASHRAE LBP	950 - 4500	47 - 217	1.94
	VESG9C	L/MBP	1/6	9.0	-35° to 0°	ASHRAE LBP	950 - 4500	47 - 220	2.02
	FMSA11C	L/MBP	1/5	7.9	-35° to 0°	ASHRAE LBP	1800 - 6300	83 - 264	1.79
	VESD11C	LBP	1/5	11.1	-35° to -10°	ASHRAE LBP	1200 - 4500	86 - 276	1.98
	VESF11C	L/MBP	1/5	11.1	-35° to 0°	ASHRAE LBP	1200 - 4500	61 - 275	2.00
	VESG11C	L/MBP	1/5	11.1	-35° to 0°	ASHRAE LBP	950 - 4500	63 - 254	2.03
	VESD13C	LBP	1/4	13.3	-35° to -10°	ASHRAE LBP	1300 - 4500	102 - 330	1.93

*Test Conditions:
ASHRAE LBP (Rated Point): T. evap.: -23,3°C | T. cond.: 54,4°C EN12900 MBP (Rated Point): T. evap.: -10°C / T. cond.: 45°C
**Product still under development. Preliminary performance demonstrated



Scan and discover
all the possibilities
of this product

embraco
Nidec