

# 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

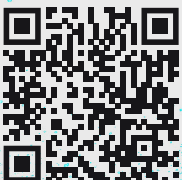


**embraco**  
*Nidec*

# Check out the specifications of some models

Fluido Refrig.	Model	Applic.	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°	ENI2900MBP	2200 to 5000	1094 - 2276	2.41
VNEX621U	L/MBP	1 1/2	21.02	-40° to 0°	ENI2900MBP	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 ENI2900 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**