

Variable Speed Technology

Tomorrow's Game Changer

Variable Speed Benefits



Efficiency



Wide voltage range



Lower noise & Less vibrations



Fast cooling



Eco friendly: using natural refrigerants with low GWP



Variable Speed Technology line has models for various applications



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embraco
Nidec

Complete Portfolio



VEM



FMF



VNEX



Refrig	Model	Applic.	HP	Disp. (CC)	Evap. Range [°C]	Test Condition (Rated Point)	Rotation [RPM]	CAP* [W]	MAX COP* [W/W]
R290	VEMT404U	L/MBP	1/3+	4,3	-40°C to 0°	ASHRAE LBP	1200 - 4500	108 - 354	1,93
	VEMT406U	L/MBP	1/2	6,4	-40°C to 0°	ASHRAE LBP	1600 - 4500	157 - 434	1,72
	VEHT409U	L/MBP	1/2+	9,0	-40°C to 0°	ASHRAE LBP	1600 - 4500	228 - 675	1,77
	VEHT413U	L/MBP	1	12,7	-40°C to 0°	ASHRAE LBP	1600 - 4500	343 - 939	1,71
	FMFT406U	L/MBP	1/2	6,4	-40°C to 0°	ASHRAE LBP	1400 - 4500	138 - 527	1,90
	FMFT408U	L/MBP	1/2+	8,0	-40°C to 0°	ASHRAE LBP	1800 - 4500	257 - 655	1,88
	FMFT411U	L/MBP	3/4	11,0	-40°C to 0°	ASHRAE LBP	1800 - 4500	349 - 867	1,92
	FMFD413UE	L/MBP	1	11,0	-40°C to 0°	ASHRAE LBP	1600 - 5000	324 - 958	1,98
	FMFT213U	LBP	1+	13,0	-40°C to 0°	ASHRAE LBP	1800 - 4500	413 - 963	1,87
	FMFT413U	L/MBP	1+	13,0	-40°C to 0°	ASHRAE LBP	1800 - 4500	401 - 1000	1,88
	FMFT415U	L/MBP	1 1/4	14,8	-40°C to 0°	ASHRAE LBP	1600 - 5000	458 - 1276	1,84
	VNEX419U**	LBP	1 1/2	18,7	-40°C to 0°	ASHRAE LBP	2200 - 5000	610 - 1376	1,86
	VNEX421U**	LBP	1 3/4	21,0	-40°C to 0°	ASHRAE LBP	2200 - 5000	799 - 1668	1,8
	VNEX619U**	MBP	1 1/2	18,7	-20° to 0°	EN12900 MBP	2200 - 5000	900 - 2250	2,4
	VNEX621U**	MBP	1 3/4	21,0	-20° to 0°	EN12900 MBP	2200 - 5000	1257 - 2593	2,35
R600a	FMSA4C	L/MBP	1/16	2,8	-35° to 0°	ASHRAE LBP	1800 - 6300	43 - 86	1,67
	FMXY4C	L/MBP	1/16	4,0	-35° to 0°	ASHRAE LBP	1300 - 4000	21 - 71	1,57
	FMXD4C	L/MBP	1/16	4,0	-35° to 0°	ASHRAE LBP	1300 - 4000	22 - 72	1,66
	VESD5C	L/MBP	1/12	5,2	-35° to -5°	ASHRAE LBP	1200 - 4500	34 - 126	1,79
	VESF5C	L/MBP	1/12	5,2	-35° to 0°	ASHRAE LBP	1200 - 4500	33 - 119	1,76
	FMXY6C	L/MBP	1/10	6,2	-35° to 0°	ASHRAE LBP	1300 - 4000	39 - 121	1,65
	FMXD6C	L/MBP	1/10	6,2	-35° to 0°	ASHRAE LBP	1300 - 4000	41 - 126	1,81
	FMSY7C	L/MBP	1/9	5,2	-35° to 0°	ASHRAE LBP	1800 - 6300	52 - 170	1,69
	VESD7C	LBP	1/9	7,2	-35° to -10°	ASHRAE LBP	1200 - 4500	49 - 184	1,92
	VESF7C	L/MBP	1/9	7,2	-35° to 0°	ASHRAE LBP	950 - 4500	35 - 163	1,87
	FMSA9C	L/MBP	1/7	6,5	-35° to 0°	ASHRAE LBP	1800 - 6300	69 - 215	1,78
	FMXY9C	L/MBP	1/7	8,7	-35° to 0°	ASHRAE LBP	1300 - 4000	62 - 180	1,65
	FMXD9C	L/MBP	1/6	8,7	-35° to 0°	ASHRAE LBP	1300 - 4000	62 - 187	1,84
	VESF9C	L/MBP	1/6	9,0	-35° to 0°	ASHRAE LBP	950 - 4500	47 - 188	1,94
	VESG9C	L/MBP	1/6	9,0	-35° to 0°	ASHRAE LBP	950 - 4500	47 - 210	1,94
	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	1,96
	VESF11C	L/MBP	1/5	11,1	-35° to 0°	ASHRAE LBP	1200 - 4500	63 - 254	1,97
	VESG11C	L/MBP	1/5	11,1	-35° to 0°	ASHRAE LBP	950 - 4500	63 - 254	1,97
	VESD13C	LBP	1/4	13,3	-35° to -10°	ASHRAE LBP	1300 - 4500	103 - 300	1,91

* 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 testing. Preliminary performance demonstrated

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