

BENEFITS OF TRANSITIONING TO VARIABLE SPEED TECHNOLOGY

Lower energy consumption and **longer expected lifespan** for your refrigeration equipment.



VEM



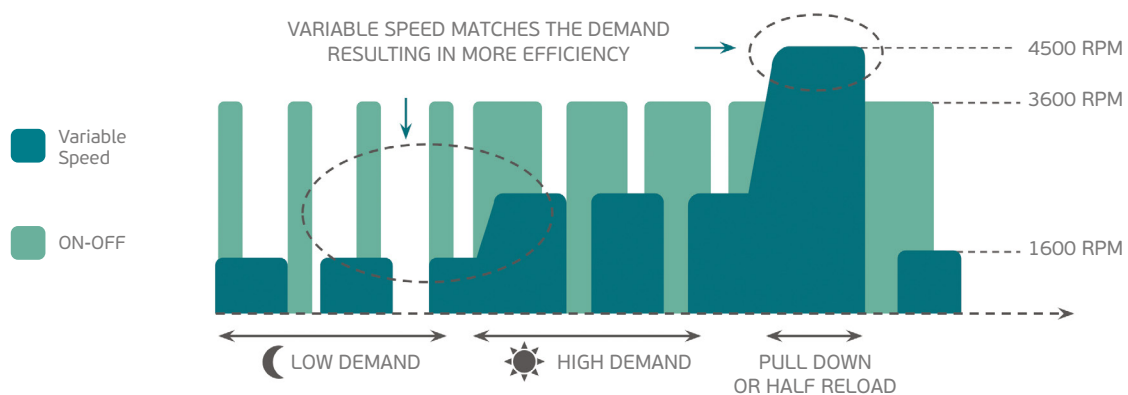
FMF



VNEX

VARIABLE SPEED BENEFITS

The variable speed technology adjusts to the demand required by the refrigerator, resulting in considerable energy consumption reduction compared to conventional compressors



EFFICIENCY

Highest EER on R290 for commercial applications at variable speed



LOWER NOISE & LESS VIBRATIONS

Consistent noise level reduction



WIDE VOLTAGE RANGE

Guarantee for the equipment to run even with voltage fluctuation



FAST COOLING

Target temperature reached faster, ensuring better food preservation



ENVIRONMENTALLY FRIENDLY

Uses R290 natural refrigerant with no impact on the ozone layer (GWP: 3)



LONGER EXPECTED LIFESPAN

Softer startup, lower stress on mechanical and electrical parts

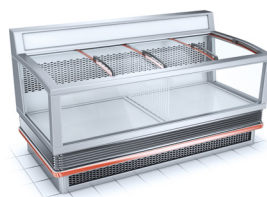
MAIN APPLICATIONS



VERTICAL
FREEZERS



VERTICAL
DISPLAY-CASES



FROZEN
ISLANDS



BEVERAGE
COOLERS

COMPRESSOR DATA

REFRIG	MODEL	APPLICATION	HP	DISP. (CC)	EVAP. RANGE [°C]	TEST CONDITION (RATED POINT)	ROTATION [RPM]	CAP* [W]	MAX COP* [W/W]
R290	VENT404U	L/MBP	1/3+	4,3	-40°C to 0°	ASHRAE LBP	1200 - 4500	108 - 354	1,93
	VENT406U	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
	VNEX219U**	LBP	1 1/2	18,7	-40°C to 0°	ASHRAE LBP	2200 - 5000	610 - 1376	1,86
	VNEX221U**	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

The **largest** and **most efficient** variable speed compressor in the market.



Main application:

- Island coolers
- Reach-In
- Display Cabinet
- Medical Application

embraco
Nidec