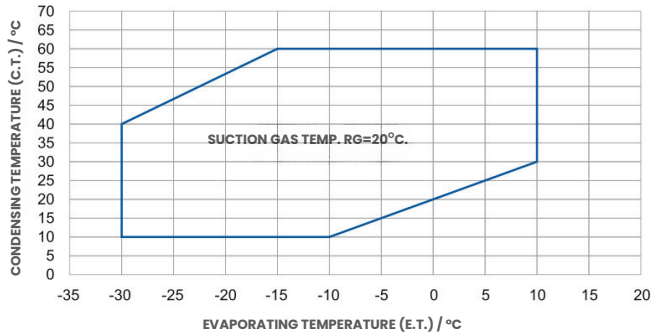
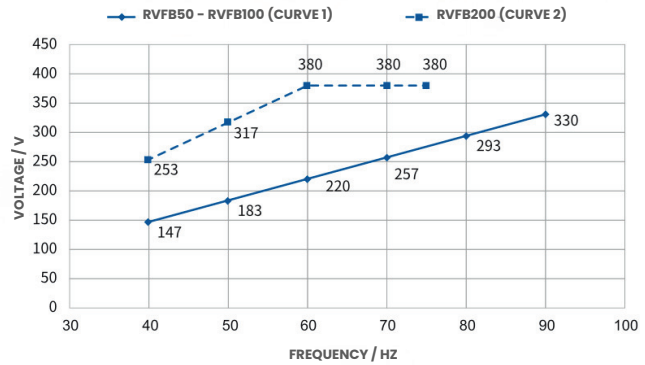


### OPERATING ENVELOPE

**R404A**  
**RVFB50 - RVFB100 40-90HZ**  
**RVFB200 40-75HZ**



### V/F CURVE



### SPECIFICATION

Model		RVFB50KE-TFP-GN1	RVFB65KE-TFP-GN1	RVFB80KE-TFP-GN1	RVFB100KE-TFP-GN1	RVFB200KE-TFP-GN1	
Displacement	(cc/rev)	50.6	63.9	84.5	98.9	190.8	
Refrigerant		R404A					
Norminal Cooling Capacity	(W)	5820	7350	10272	12180	23448	
Norminal Input Power	(W)	3228	4076	5112	6060	11604	
Norminal COP	(W/W)	1.8	1.8	2.01	2.01	2.02	
Compressor Electrical Parameter	Voltage-Hz	Refer to V/F Curve					
	Phase	3	3	3	3	3	
	Motor Type	IM	IM	IM	IM	IM	
	Motor Pole	2	2	2	2	2	
	Frequency Range	40-90	40-90	40-90	40-90	40-75	
	Norminal Frequency	60	60	60	60	60	
	RLA	A	10	11.9	15.8	18.7	19.6
	LRA	A	90	90	160	160	260
MOC	A	13.6	17	22.7	26.6	37	
Inverter Parameter	Inverter Input Power	380-420V / 3 ~ / 50Hz or 60Hz					
	Inverter Model	RVDX100-4T0075	RVDX100-4T0075	RVDX100-4T0110	RVDX100-4T0110	RVDX100-4T0150	
	Inverter MOC	11.8	15	19.8	23.1	37	
	Oil Type	POE	POE	POE	POE	POE	
	Initial Charge Oil Volume	L	1.4	1.4	1.8	1.8	3.2
	Recharge Oil Volume	L	1.2	1.2	1.6	1.6	3
	Weight	Kg	28	28	37	38	66

Rated Condition: E.T.-6.7°C, C.T. 48.9°C, R.G.20.0°C, S.C.O.O.K, A.T.35.0°C

### RATED PARAMETERS

Model	Item	Tc\Te	-30°C	-25°C	-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C
RVFB50KE-TFP-GN1	Item	Tc\Te									
	Q: W	60°C				3510	4460	5470	6560	7750	9060
	P:W	60°C				4120	4190	4230	4250	4240	4210
	Q: W	55°C				4260	5260	6350	7550	8890	10370
	P: W	55°C				3720	3780	3810	3820	3800	3770
	Q: W	50°C			3910	4870	5920	7100	8420	9910	11580
	P: W	50°C			3290	3350	3390	3410	3410	3400	3370
	Q: W	45°C		3490	4360	5350	6460	7740	9190	10840	12710
	P: W	45°C		2900	2960	3000	3030	3050	3050	3030	3010
	Q: W	40°C	3070	3830	4700	5730	6920	8300	9900	11720	13800
	P:W	40°C	2550	2610	2650	2680	2700	2710	2710	2710	2690
	Q: W	35°C	3340	4080	4970	6050	7330	8820	10570	12570	14860
	P: W	35°C	2300	2340	2370	2390	2400	2410	2410	2410	2410
	Q: W	30°C	3540	4270	5200	6330	7700	9330	11230	13430	15950
	P: W	30°C	2060	2090	2110	2120	2130	2140	2150	2160	2170
	Q: W	25°C	3700	4440	5400	6610	8080	9850	11920	14320	
	P:W	25°C	1850	1860	1870	1880	1890	1910	1920	1940	
	Q: W	20°C	3860	4620	5630	6910	8500	10410	12660		
	P:W	20°C	1660	1660	1660	1670	1680	1700	1730		
	Q: W	15°C	4050	4830	5890	7270	8980	11050			
P: W	15°C	1490	1480	1480	1490	1510	1540				
Q: W	10°C	4290	5100	6230	7710	9550					
P:W	10°C	1350	1330	1330	1340	1370					

Model	Item	Tc\Te	-30°C	-25°C	-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C
RVFB65KE-TFP-GN1	Q: W	60°C				4428	5640	6912	8292	9792	11448
	P:W	60°C				5208	5292	5352	5364	5352	5316
	Q:W	55°C				5388	6648	8028	9540	11220	13014
	P:W	55°C				4704	4776	4812	4824	4800	4764
	Q: W	50°C			4944	6144	7476	8964	10632	12516	14628
	P:W	50°C			4152	4236	4284	4308	4308	4296	4260
	Q: W	45°C		4404	5508	6756	8160	9768	11604	13692	16056
	P: W	45°C		3660	3732	3792	3828	3852	3852	3828	3804
	Q: W	40°C	3876	4836	5940	7236	8748	10488	12492	14796	17424
	P: W	40°C	3216	3288	3348	3384	3408	3420	3420	3420	3396
	Q: W	35°C	4212	5148	6276	7644	9252	11148	13344	15876	18768
	P: W	35°C	2904	2952	2988	3012	3036	3048	3048	3048	3048
	Q: W	30°C	4464	5400	6564	7992	9732	11784	14184	16956	20136
	P: W	30°C	2604	2640	2664	2676	2688	2700	2712	2724	2736
	Q:W	25°C	4680	5604	6828	8352	10212	12432	15048	18084	
	P:W	25°C	2340	2352	2364	2376	2388	2400	2424	2460	
	Q:W	20°C	4884	5832	7104	8736	10740	13140	15984		
	P:W	20°C	2100	2100	2100	2112	2124	2148	2184		
	Q: W	15°C	5112	6096	7440	9180	11340	13944			
	P:W	15°C	1884	1872	1872	1884	1908	1944			
Q: W	10°C	5412	6444	7872	9732	12060					
P:W	10°C	1704	1680	1680	1692	1728					

Model	Item	Tc\Te	-30°C	-25°C	-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C
RVFB80KE-TFP-GN1	Q:W	60°C				5850	7450	9140	10960	12950	15140
	P:W	60°C				6880	7000	7070	7100	7080	7020
	Q:W	55°C				7120	8790	10610	12620	14840	17330
	P:W	55°C				6220	6310	6360	6370	6350	6300
	Q: W	50°C			6540	8130	9890	11860	14060	16540	19340
	P:W	50°C			5500	5600	5660	5700	5700	5680	5630
	Q: W	45°C		5830	7280	8930	10800	12920	15350	18100	21230
	P:W	45°C		4840	4940	5020	5060	5090	5090	5070	5030
	Q: W	40°C	5130	6390	7860	9570	11560	13870	16530	19570	23040
	P:W	40°C	4260	4350	4430	4480	4510	4530	4530	4520	4490
	Q:W	35°C	5570	6810	8300	10100	12230	14740	17640	20990	24820
	P:W	35°C	3840	3900	3950	3990	4010	4020	4030	4030	4020
	Q:W	30°C	5910	7130	8680	10580	12860	15580	18750	22430	26630
	P:W	30°C	3450	3490	3520	3540	3560	3580	3590	3610	3620
	Q: W	25°C	6180	7420	9020	11040	13500	16440	19900	23910	
	P:W	25°C	3090	3110	3130	3140	3160	3180	3210	3250	
	Q:W	20°C	6450	7710	9390	11550	14200	17380	21140		
	P:W	20°C	2770	2770	2780	2790	2810	2850	2890		
	Q: W	15°C	6760	8060	9840	12140	15000	18450			
	P:W	15°C	2490	2480	2480	2490	2520	2570			
Q: W	10°C	7160	8520	10410	12880	15960					
P:W	10°C	2250	2220	2220	2240	2280					

Notes: Capacity Based on Suction Temperature 20°C, Subcooling OK



# VARIABLE FREQUENCY SCROLL COMPRESSOR RVFB SERIES

## RATED PARAMETERS

Model	Item	Tc\Te	-30°C	-25°C	-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C
RVFB100KE-TFP-GN1	Q:W	60°C				6850	8720	10700	12830	15150	17720
	P:W					8050	8190	8270	8310	8290	8220
	Q:W	55°C				8330	10290	12420	14770	17370	20280
	P:W					7280	7380	7440	7460	7430	7370
	Q: W	50°C			7650	9510	11570	13880	16460	19360	22630
	P:W				6430	6550	6630	6670	6670	6650	6590
	Q: W	45°C		6820	8530	10450	12640	15130	17960	21190	24840
	P:W			5670	5790	5870	5930	5950	5960	5930	5890
	Q: W	40°C	6000	7480	9200	11200	13530	16230	19340	22910	26960
	P:W		4980	5100	5180	5240	5280	5300	5300	5290	5260
	Q:W	35°C	6520	7970	9720	11820	14320	17250	20650	24570	29050
	P:W		4490	4570	4620	4670	4690	4710	4720	4720	4710
	Q:W	30°C	6910	8350	10160	12380	15060	18230	21950	26250	31170
	P:W		4040	4080	4120	4140	4170	4180	4200	4220	4240
	Q: W	25°C	7240	8680	10560	12920	15800	19250	23290	27990	
	P:W		3620	3640	3660	3680	3700	3720	3760	3800	
	Q:W	20°C	7550	9020	11000	13510	16610	20350	24740		
	P:W		3250	3250	3250	3270	3290	3330	3380		
	Q: W	15°C	7910	9430	11520	14210	17550	21590			
	P:W		2920	2900	2900	2910	2950	3010			
Q: W	10°C	8380	9970	12180	15070	18670					
P:W		2630	2600	2600	2620	2670					

Model	Item	Tc\Te	-30°C	-25°C	-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C
RVFB200KE-TFP-GN1	Q:W	60°C				13220	16820	20640	24750	29240	34180
	P:W					15540	15800	15960	16020	15990	15860
	Q:W	55°C				16080	19850	23960	28490	33510	39120
	P:W					14040	14240	14360	14390	14340	14220
	Q: W	50°C			14760	18350	22330	26770	31750	37360	43670
	P:W				12410	12640	12790	12870	12880	12820	12710
	Q: W	45°C		13160	16450	20160	24380	29180	34660	40880	47930
	P:W			10930	11160	11330	11440	11490	11490	11440	11360
	Q: W	40°C	11580	14430	17740	21610	26100	31310	37320	44190	52020
	P:W		9610	9830	10000	10120	10190	10230	10230	10200	10150
	Q:W	35°C	12580	15370	18750	22810	27620	33270	39840	47410	56050
	P:W		8660	8810	8920	9000	9060	9090	9100	9100	9090
	Q:W	30°C	13340	16110	19590	23880	29050	35170	42340	50640	60130
	P:W		7790	7870	7940	7990	8040	8070	8110	8140	8180
	Q: W	25°C	13970	16750	20380	24930	30490	37130	44940	54000	
	P:W		6990	7020	7060	7090	7130	7180	7250	7330	
	Q:W	20°C	14570	17410	21210	26070	32050	39250	47740		
	P:W		6260	6260	6270	6300	6350	6420	6530		
	Q: W	15°C	15270	18200	22220	27410	33860	41650			
	P:W		5630	5590	5590	5620	5690	5800			
Q: W	10°C	16170	19230	23500	29070	36030					
P:W		5070	5020	5010	5060	5150					

Notes: Capacity Based on Suction Temperature 20°C, Subcooling OK

### CONFIGURATION EXAMPLE

#### V/F CURVE 1 SETTING METHOD:

Item	Name	Code	Parameter
Inverter Model	Inverter	RVDX100 Series	/
Compressor Model	Compressor	RVFB100KE-TFP-GN1	/
System Manage Parameter	Control Mode	F0.0.09	0020
	Max Output Frequency	F0.1.20	90
Operating Directive Select	Upper Limit Frequency	F0.1.21	90
	Lower Limit Frequency	F0.1.22	40
	Frequency Set	Frequency Set Min. Value	F0.2.27
Frequency Set	Frequency Set Max. Value	F0.2.28	90
	Start and Stop	Start Frequency	F0.4.39
V/F Parameter and OLP	Motor Base Frequency	F1.2.15	90
	Motor Base Voltage	F1.2.16	330
	Motor V/F Curve Frequency 1	F1.2.19	40
	Motor V/F Curve Voltage 1	F1.2.20	147
	Motor V/F Curve Frequency 2	F1.2.21	60
	Motor V/F Curve Voltage 2	F1.2.22	220
	Motor V/F Curve Frequency 3	F1.2.23	80
	Motor V/F Curve Voltage 3	F1.2.24	293

#### V/F CURVE 2 SETTING METHOD:

Item	Name	Code	Parameter
Inverter Model	Inverter	RVDX100 Series	/
Compressor Model	Compressor	RVFB200KE-TFP-GN1	/
System Manage Parameter	Control Mode	F0.0.09	0020
	Max Output Frequency	F0.1.20	75
Operating Directive Select	Upper Limit Frequency	F0.1.21	75
	Lower Limit Frequency	F0.1.22	40
	Frequency Set	Frequency Set Min. Value	F0.2.27
Frequency Set	Frequency Set Max. Value	F0.2.28	75
	Start and Stop	Start Frequency	F0.4.39
V/F Parameter and OLP	Motor Base Frequency	F1.2.15	60
	Motor Base Voltage	F1.2.16	380
	Motor V/F Curve Frequency 1	F1.2.19	40
	Motor V/F Curve Voltage 1	F1.2.20	253
	Motor V/F Curve Frequency 2	F1.2.21	47
	Motor V/F Curve Voltage 2	F1.2.22	298
	Motor V/F Curve Frequency 3	F1.2.23	54
	Motor V/F Curve Voltage 3	F1.2.24	342

### NAMING GUIDELINES

