Reciprocating Compressors

embraco

Nidec



Embrital

Hermetic Compressors Provider

EM SERIES - R290 HBP

Model	Power Source [V/Hz]	Displ. [cc/rev]	Capacity / Evaporating Temperature - ASHRAE														Motor type
			Check Point -23,3°C		Check Point +7,2°C		-30°C	-25°C	-20°C	-15°C	-10°C	-5°C	0°C	+5°C	+10°C	+15°C	
			CAP [W]	COP [W/W]	CAP [W]	COP [W/W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	
EM2U3111U	220-240/50	3,00	139	1,50	483	3,53	97	128	161	201	250	311	388	466	552	647	RSCR
50-60Hz	230/60		166	1,60	583	3,61	113	151	192	238	292	356	434	536	640	744	
EM2U3115U	220-240/50	3,97	195	1,59	562	3,38	141	180	224	275	334	403	485	582	689	808	RSCR
50-60Hz	230/60		231	1,65	675	3,36	168	213	264	324	394	476	572	675	806	951	
EMX6144U	220-240/50	4,53	-	-	641	2,82	-	-	226	278	339	411	492	585	687	797	CSIR
50-60Hz	230/60				767	2,63			274	338	414	501	600	712	835	930	
EMX6152U	220-240/50	5,19	-	-	712	2,79	-	-	235	294	365	448	544	652	773	897	CSIR
50-60Hz	230/60				841	2,81			286	355	438	536	649	777	919	1.040	
EMX6165U	220-240/50	6,09	-	-	837	2,72	-	-	284	353	437	534	645	770	909	1.054	CSIR
50-60Hz	230/60				987	2,62			346	424	520	633	765	915	1.083	1.235	
EMX6181U	220-240/50	6,92	-	-	975	2,90	-	-	346	422	517	628	756	900	1.058	1.227	CSIR
50-60Hz	230/60				1.154	2,84			406	492	601	732	884	1.058	1.254	1.423	
EMX6210U	220-240/50	9,04	-	-	1.266	2,68	-	-	445	552	677	821	985	1.166	1.367	1.585	CSIR

EMC SERIES - R290 High Efficiency

Model	Power Source [V/Hz]	Displ. [cc/rev]	Capacity / Evaporating Temperature - ASHRAE														Motor type
			Check Point -23,3°C		Check Point +7,2°C		-30°C	-25°C	-20°C	-15°C	-10°C	-5°C	0°C	+5°C	+10°C	+15°C	
			CAP [W]	COP [W/W]	CAP [W]	COP [W/W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	
EMC3117U	220-240/50	3,97	197	1,79	-	-	145	182	228	282	345	416	496	-	-	-	RSCR
EMC3119U	220-240/50	4,53	229	1,83	-	-	164	210	266	332	406	489	582	-	-	-	RSCR
EMC3121U	220-240/50	5,54	271	1,88	-	-	192	249	313	385	465	553	649	-	-	-	RSCR
EMC3125U	220-240/50	6,09	305	1,88	-	-	218	278	350	435	533	643	766	-	-	-	RSCR
EMC3130U	220-240/50	6,92	349	1,84	-	-	243	311	394	491	601	725	863	-	-	-	RSCR
EMC3134U	220-240/50	7,95	417	1,85	-	-	309	385	478	587	713	855	1.014	-	-	-	RSCR
EMC3140U	220-240/50	9,04	459	1,77	-	-	337	427	536	661	805	966	1.145	-	-	-	RSCR
EMC3145U	220-240/50	11,14	559	1,75	-	-	409	517	646	797	969	1.164	1.380	-	-	-	RSCR

Rated Test Condition:

Condensing Temp.	54,4°C
Liquid Temp.	32,2°C
Ambient Temp.	32,2°C
Suction Temp.	32,2°C

VARIABLE SPEED SERIES - R290

Model	Power Source [V/Hz]	Displ. [cc/rev]	Capacity / Evaporating Temperature - ASHRAE														Frequency range [RPM]
			Check Point -23,3°C		Check Point +7,2°C		-30°C	-25°C	-20°C	-15°C	-10°C	-5°C	0°C	+5°C	+10°C	+15°C	
			CAP [W]	COP [W/W]	CAP [W]	COP [W/W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	
VEMT904U	220-240 / 50-60	4,25	108	1,93	270	2,79	82	100	120	145	173	206	229	246	291	343	1.200
			354	1,83	950	3,02	252	318	394	484	588	708	729	752	889	1.039	4.500
FMFT406U	220-240 / 50-60	6,44	140	1,74	-	-	99	129	165	207	256	313	378	-	-	-	1.400
			510	1,81	-	-	363	467	586	718	865	1.025	1.198	-	-	-	4.500
FMFT408U	220-240 / 50-60	7,95	259	1,91	-	-	182	235	296	365	446	540	650	-	-	-	1.800
			644	1,79	-	-	492	610	734	869	1.017	1.186	1.377	-	-	-	4.500
FMFD413U	220-240 / 50-60	10,85	324	1,91	-	-	245	306	377	459	553	66	788	-	-	-	1.600
			950	1,80	-	-	705	884	1.088	1.317	1.569	1.844	2.141	-	-	-	5.000
FMFT411U	220-240 / 50-60	11,14	287	1,77	-	-	211	266	329	401	485	582	676	-	-	-	1.600
			861	1,75	-	-	634	798	986	1.203	1.455	1.747	2.028	-	-	-	4.500
FMFT413U	220-240 / 50-60	12,92	403	1,76	-	-	287	369	467	585	727	896	1.094	-	-	-	1.600
			998	1,74	-	-	726	922	1.141	1.381	1.644	1.931	2.242	-	-	-	4.500
FMFT415U	220-240 / 50-60	14,77	469	1,81	-	-	333	420	518	632	765	920	1.101	-	-	-	1.600
			1.251	1,66	-	-	924	1.174	1.451	1.755	2.089	2.453	2.847	-	-	-	5.000
VNEX419U	220-240 / 50-60	18,70	630	1,62	-	-	420	551	708	891	1.103	1.344	1.616	-	-	-	2.200
			1.368	1,48	-	-	946	1.210	1.525	1.895	2.322	2.812	3.366	-	-	-	5.000
VNEX421U	220-240 / 50-60	21,02	712	1,61	-	-	483	627	797	994	1.219	1.473	1.757	-	-	-	2.200
			1.544	1,45	-	-	1.078	1.371	1.717	2.118	2.578	3.101	3.689	-	-	-	5.000

Rated Test Condition:

Condensing Temp.	54,4°C
Liquid Temp.	32,2°C
Ambient Temp.	32,2°C
Suction Temp.	32,2°C



EM SERIES - R513A / R134a

Model	Power Source [V/Hz]	Displ. [cc/rev]	Capacity / Evaporating Temperature - ASHRAE														Motor type
			Check Point -23,3°C		Check Point +7,2°C		-30°C	-25°C	-20°C	-15°C	-10°C	-5°C	0°C	+5°C	+10°C	+15°C	
			CAP [W]	COP [W/W]	CAP [W]	COP [W/W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	
EM20HHR 50-60Hz	220-240/50 230/60	2,27	50 59	0,86 0,89	246 292	2,51 2,48	28 33	41 52	58 73	79 97	104 126	133 160	169 201	210 251	258 310	314 380	RSIR/CSIR
EM30HHR 50-60Hz	220-240/50 230/60	3,00	76 91	0,88 1,01	343 404	2,45 2,53	49 57	71 85	96 117	127 153	164 196	206 246	256 306	312 376	377 458	450 554	RSIR/CSIR
EMIS30HHR	115/60	3,00	91	0,94	407	2,50	58	85	116	154	197	249	309	379	460	553	RSIR
EM45HHR	220-240/50	3,77	102	1,03	440	2,63	61	85	116	154	200	255	320	396	484	585	RSIR/CSIR
EMI45HER	115-127/60	3,77	123	1,26	-	-	74	109	150	196	248	-	-	-	-	-	RSIR
EM55HHR 50-60Hz	220-240/50 230/60	4,60	- -	- -	533 630	2,69 2,60	- -	- -	- -	- -	- -	326 377	399 471	485 579	583 701	694 837	RSIR/CSIR
EM55HHR	115-127/60	4,60	-	-	630	2,52	-	-	-	-	-	365	454	560	681	819	RSIR
EM65HHR	220-240/50	5,54	-	-	639	2,61	-	-	-	-	-	405	475	567	681	818	RSIR
EM65HHR 50-60Hz	220-240/50 230/60	5,54	- -	- -	645 766	2,39 2,49	- -	- -	- -	- -	304 381	388 473	484 581	592 705	711 845	842 1.001	RSIR/CSIR
EM65HHR	115/60	5,54	-	-	762	2,50	-	-	-	-	358	447	554	680	824	986	RSIR

EG/F SERIES - R513A / R134a

Model	Power Source [V/Hz]	Displ. [cc/rev]	Capacity / Evaporating Temperature - ASHRAE														Motor type
			Check Point -23,3°C		Check Point +7,2°C		-30°C	-25°C	-20°C	-15°C	-10°C	-5°C	0°C	+5°C	+10°C	+15°C	
			CAP [W]	COP [W/W]	CAP [W]	COP [W/W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	CAP [W]	
EGAS90HLR 50-60Hz	220-240/50 230/60	7,15	219 271	1,50 1,59	- -	- -	143 175	197 243	260 320	335 413	424 524	- -	- -	- -	- -	- -	RSIR/CSIR
EGAS90HLR	115-127/60	7,15	275	1,59	-	-	175	243	320	413	524	-	-	-	-	-	RSIR/CSIR
EGAS100HLR 50-60Hz	220-240/50 230/60	7,95	251 308	1,52 1,60	- -	- -	162 200	225 277	298 366	383 470	483 593	- -	- -	- -	- -	- -	RSIR/CSIR
EGAS100HLR	115-127/60	7,95	308	1,58	-	-	200	277	366	470	593	-	-	-	-	-	RSIR/CSIR
FFI8.5HAK 50-60Hz	220-240/50 230/60	7,15	206 241	1,32 1,37	- -	- -	135 157	187 219	248 294	320 384	406 491	506 618	- -	- -	- -	- -	RSIR/CSIR
FFI10HAK 50-60Hz	220-240/50 220/60	9,04	249 302	1,30 1,42	- -	- -	153 186	218 268	300 362	398 470	509 598	634 749	- -	- -	- -	- -	RSIR/CSIR
FFI10HAK	115-127/60	9,04	302	1,42	-	-	187	268	362	470	598	749	-	-	-	-	RSIR/CSIR
FFI12HBK	220-240/50	11,14	319	1,25	1.316	2,61	209	285	381	496	631	787	965	1.164	1.386	1.631	RSIR/CSIR
FFI12HBX	220/60	11,14	349	1,18	1.553	2,28	221	308	419	554	714	787	1.116	1.361	1.637	1.946	CSIR
FFI12HBX	115-127/60	11,14	349	1,20	1.553	2,54	218	304	414	552	718	901	1.140	1.400	1.694	2.024	CSIR

Rated Test Condition:

Condensing Temp.	54,4°C
Liquid Temp.	32,2°C
Ambient Temp.	32,2°C
Suction Temp.	32,2°C

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Viale Lino Zanussi, 8 - 33170 Pordenone (Italy)
+39 0434 572711 - info@embrital.com
www.embrital.com