



<b>Model / Modelo</b> Modell / Modèle	<b>Power / Potencia</b> Leistung / Puissance hp	<b>Cpr cooling / Enfriamiento</b> Kühlung / Refroidissement	<b>Displacement /</b> Cilindrada Hubraum / Cylindrée cm <sup>3</sup>	<b>Refrigerating capacity</b> Capacidad frigorífica Kälteleistung Production frigorifique COP in W/W <i>1 W = 0,864 kcal/h = 3,415 BTU/h</i>  <b>Evaporating temp. / Temp de evaporación</b> Verdampfungstemp. / Temp. d'évaporation °C							<b>Expansion / Expansión</b> Einspritzung / Détante	<b>Oil / Aceite</b> Oel / Huile cm <sup>3</sup>	<b>Weight / Peso</b> Gewicht / Poids kg	<b>Motor / Motor</b> Motor / Moteur	<b>Starting / Arranque</b> Anlauf / Démarrage
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## High Efficiency

### LBP / HMBP

R404A . R507(*) 50 Hz	CECOMAF (W)								ASHRAE		R404A . R507(*) 50 Hz				
	-40	-30	-25		-10	-23.3									
			W	COP		kcal/h	COP								
<b>220-240V 50Hz ~I</b>															
MLY40AAa	1/7	S	4.01	45	95	130	0.89	271	166	1.25	C	400	10.1	RSIR	P
MLY40AAb	1/7	S	4.01	45	95	130	0.94	271	166	1.32	C	400	10.1	RSCR	P
MLY45LAa	1/6	F	4.55	60	118	158	0.88	317	200	1.24	C-V	400	10.0	CSIR	R
MLY45LAB	1/6	F	4.55	60	118	158	0.94	317	200	1.32	C-V	400	10.0	CSR	R
MLY50AAa	1/6	S	5.11	65	130	174	0.88	343	220	1.23	C	400	10.5	RSIR	P
MLY50AAb	1/6	S	5.11	65	130	174	0.93	343	220	1.31	C	400	10.5	RSCR	P
MLY60LAa	1/5	F	5.98	86	168	221	0.90	426	280	1.26	C-V	350	10.3	CSIR	R
MLY60LAB	1/5	F	5.98	86	168	221	0.97	426	280	1.36	C-V	350	10.3	CSR	R
MLY80LAa*	1/4	F	8.10	104	207	276	0.91	549	350	1.28	C-V	400	10.9	CSIR	R
MLY80LAB*	1/4	F	8.10	104	207	276	0.98	549	350	1.38	C-V	400	10.9	CSR	R
MLY90RAa*	3/8	F	9.09	317	511	1131	1.75	1334	1219	2.13	C-V	400	11.3	CSIR	R
MLY90RAb*	3/8	F	9.09	317	511	1131	1.92	1340	1225	2.34	C-V	400	11.3	CSR	R
MLY90LAa	1/3	F	9.09	121	236	313	0.91	614	395	1.28	C-V	400	11.4	CSIR	R
MLY90LAB	1/3	F	9.09	121	236	313	0.98	614	395	1.38	C-V	400	11.4	CSR	R
MPT12LA	3/8	F	12.10	194	348	453	1.01	876	570	1.42	C-V	400	13.0	CSR	R

### LBP

R404A . R507(*) 60 Hz	CECOMAF (W)								ASHRAE		R404A . R507(*) 60 Hz				
	-40	-30	-25		-10	-23.3									
			W	COP		kcal/h	COP								
<b>115V 60Hz ~I</b>															
MLT50AD	1/5	S	5.11	75	154	210	1.01	438	268	1.42	C	400	10.4	RSCR	P
MLT90CD	1/3	F	9.09	164	291	383	1.03	773	485	1.45	C	400	11.0	RSCR	P
MPT12CD	3/8	F	12.10	225	398	517	1.01	996	650	1.41	C	400	12.7	RSCR	P

### HMBP

R404A . R507(*) 50 Hz	CECOMAF (W)								ASHRAE		R404A . R507(*) 50 Hz				
	-25	-15	5		10	7.2									
			W	COP		kcal/h	COP								
<b>400/440V 50/60Hz ~3</b>															
MS18T3	7/8	F	18.10	423	838	2137	1.92	2556	2320	2.35	C-V	887	20.0	3PH	-
MS22T3	I	F	21.75	453	974	2576	2.01	3089	2800	2.45	C-V	887	20.0	3PH	-
MS26T3	I 3/8	F	25.93	674	1295	3186	2.01	3790	3451	2.45	C-V	880	23.0	3PH	-
MS34T3	I 5/8	F	34.42	1007	1860	4231	1.82	4958	4551	2.20	C-V	887	21.0	3PH	-
<b>220-240V 50Hz ~I</b>															
ML40TB	1/6	F	4.04	132	213	473	1.43	557	510	1.74	C-V	300	10.0	CSIR	R
ML45TB	1/5	F	4.50	151	238	528	1.49	624	570	1.82	C-V	300	10.1	CSIR	R
ML60TB	1/4	F	5.67	166	277	647	1.53	769	700	1.85	C-V	300	10.1	CSIR	R
ML80TB	3/8	F	7.57	226	385	880	1.63	1040	950	1.99	C-V	400	11.4	CSIR	R
ML90TB	3/8	F	8.85	282	463	1055	1.63	1249	1140	1.98	C-V	400	11.6	CSIR	R
MPI0TB	3/7	F	10.18	332	559	1253	1.62	1475	1350	1.99	C-V	400	12.9	CSIR	R
MPI2TB	1/2	F	12.00	372	634	1463	1.89	1731	1580	2.30	C-V	400	13.5	CSR	R
MPI2RB	1/2	F	12.05	372	634	1463	1.89	1731	1580	2.30	C-V	400	13.5	CSR	R
MPI4TB	1/2	F	14.00	463	765	1673	1.76	1961	1799	2.13	C-V	400	13.5	CSR	R

\* Provisional technical data  
This table continues in the following page

<b>Model / Modelo</b> Modell / Modèle	<b>Power / Potencia</b> Leistung / Puissance hp	<b>Cpr cooling / Enfriamiento</b> Kühlung / Refroidissement	<b>Displacement /</b> Cilindrada Hubraum / Cylindrée cm <sup>3</sup>	<b>Refrigerating capacity</b> Capacidad frigorífica Kälteleistung Production frigorifique COP in W/W <i>1 W = 0,864 kcal/h = 3,415 BTU/h</i>  <b>Evaporating temp. / Temp de evaporación</b> Verdampfungstemp. / Temp. d'évaporation °C							<b>Expansion / Expansión</b> Einspritzung / Détante	<b>Oil / Aceite</b> Oel / Huile cm <sup>3</sup>	<b>Weight / Peso</b> Gewicht / Poids kg	<b>Motor / Motor</b> Moteur	<b>Starting / Arranque</b> Anlauf / Démarrage
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<b>HMBP</b>															
<b>R404A . R507(*)</b> 50 Hz		<b>CECOMAF (W)</b>							<b>ASHRAE</b>		<b>R404A . R507(*)</b> 50 Hz				
		-25	-15	5		10	7.2								
				W	COP		kcal/h	COP							
<b>220-240V 50Hz ~I</b>															
<b>MPI4RB</b>	1/2	F	14.17	594	795	1665	1.75	1977	1800	2.14	C-V	400	13.5	CSR	R
<b>MXI8TB</b>	7/8	F	18.39	554	936	2157	1.78	2554	2330	2.18	C-V	500	17.2	CSR	R
<b>MR22TB</b>	I	F	21.75	604	1101	2702	2.11	3225	2931	2.57	C-V	640	20.5	CSR	R
<b>MS26TB</b>	I 3/8	F	25.93	674	1294	3185	2.02	3788	3449	2.46	C-V	887	23.0	CSR	R
<b>200-240/220-230V 50/60Hz ~I</b>															
<b>ML40TG</b>	1/6	F	4.04	132	213	473	1.43	557	510	1.74	C-V	300	10.0	CSIR	R
<b>ML45TG</b>	1/5	F	4.50	151	238	528	1.49	624	570	1.82	C-V	300	10.0	CSIR	R
<b>ML80TG</b>	3/8	F	7.57	226	385	880	1.63	1040	950	1.99	C-V	400	11.2	CSIR	R
<b>200-220/220-230V 50/60Hz ~I</b>															
<b>MPI2TG</b>	1/2	F	12.00	372	634	1463	1.85	1731	1580	2.25	C-V	400	13.5	CSR	R
<b>MXI8TG</b>	7/8	F	18.40	648	1095	2523	1.76	2989	2726	2.15	C-V	500	17.3	CSR	R
<b>200-220/230V 50/60Hz ~I</b>															
<b>ML60TG</b>	1/4	F	5.67	166	277	647	1.53	769	700	1.85	C-V	300	10.0	CSIR	R
<b>ML90TG</b>	3/8	F	8.85	282	463	1055	1.63	1249	1140	1.98	C-V	400	12.7	CSIR	R
<b>MR22TG</b>	I	F	21.75	453	974	2576	2.04	3089	2800	2.50	C-V	640	20.6	CSR	R
<b>MS26TG</b>	I 3/8	F	25.93	674	1295	3186	2.02	3790	3451	2.46	C-V	887	23.0	CSR	R

<b>HMBP</b>															
<b>R404A . R507(*)</b> 60 Hz		<b>CECOMAF (W)</b>							<b>ASHRAE</b>		<b>R404A . R507(*)</b> 60 Hz				
		-25	-15	5		10	7.2								
				W	COP		kcal/h	COP							
<b>400/440V 50/60Hz ~3</b>															
<b>MSI8T3</b>	7/8	F	18.10	493	975	2487	1.85	2975	2700	2.25	C-V	640	20.0	3PH	-
<b>MS22T3</b>	I	F	21.75	529	1140	3014	1.97	3615	3277	2.40	C-V	887	20.0	3PH	-
<b>MS26T3</b>	I 3/8	F	25.93	789	1515	3729	1.86	4435	4038	2.25	C-V	880	23.0	3PH	-
<b>MS34T3</b>	I 5/8	F	34.42	1178	2175	4948	1.73	5797	5321	2.10	C-V	887	21.0	3PH	-
<b>200-240/220-230V 50/60Hz ~I</b>															
<b>ML40TG</b>	1/6	F	4.04	156	249	556	1.41	656	600	1.70	C-V	300	10.0	CSIR	R
<b>ML45TG</b>	1/5	F	4.50	177	278	618	1.44	730	667	1.74	C-V	300	10.0	CSIR	R
<b>ML80TG</b>	3/8	F	7.57	264	450	1029	1.61	1215	1110	1.96	C-V	400	11.2	CSIR	R
<b>200-220/230V 50/60Hz ~I</b>															
<b>ML60TG</b>	1/4	F	5.67	194	324	758	1.51	900	820	1.83	C-V	300	10.0	CSIR	R
<b>ML90TG</b>	3/8	F	8.85	330	542	1235	1.56	1462	1334	1.89	C-V	400	12.7	CSIR	R
<b>MR22TG</b>	I	F	21.75	453	974	2576	2.04	3089	2800	2.50	C-V	640	20.6	CSR	R
<b>MS26TG</b>	I 3/8	F	25.93	789	1515	3729	1.96	4435	4038	2.37	C-V	887	23.0	CSR	R
<b>200-220/220-230V 50/60Hz ~I</b>															
<b>MPI2TG</b>	1/2	F	12.00	433	740	1713	1.81	2028	1850	2.20	C-V	400	13.5	CSR	R
<b>MXI8TG</b>	7/8	F	18.40	648	1095	2523	1.76	2989	2726	2.15	C-V	500	17.3	CSR	R
<b>I 15-127V 60Hz ~I</b>															
<b>ML60TR</b>	1/4	F	5.67	194	324	758	1.50	900	820	1.83	C-V	300	10.0	CSIR	R

<b>Model / Modelo</b> Modell / Modèle	<b>Power / Potencia</b> Leistung / Puissance hp	<b>Cpr cooling / Enfriamiento</b> Kühlung / Refroidissement	<b>Displacement /</b> Cilindrada Hubraum / Cylindrée cm <sup>3</sup>	<b>Refrigerating capacity</b> Capacidad frigorífica Kälteleistung Production frigorifique COP in W/W <i>1 W = 0,864 kcal/h = 3,415 BTU/h</i>  <b>Evaporating temp. / Temp de evaporación</b> Verdampfungstemp. / Temp. d'évaporation °C							<b>Expansion / Expansión</b> Einspritzung / Détante	<b>Oil / Aceite</b> Oel / Huile cm <sup>3</sup>	<b>Weight / Peso</b> Gewicht / Poids kg	<b>Motor / Motor</b> Moteur	<b>Starting / Arranque</b> Anlauf / Démarrage
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### HBP

R404A . R507(*) 50 Hz	CECOMAF (W)							ASHRAE		R404A . R507(*) 50 Hz					
	-25	-15	5		10	7.2									
			W	COP		kcal/h	COP								
<b>220-240V 50Hz ~I</b>															
MS34TB	I 5/8	F	34.42	1011	1860	4231	1.92	4959	4551	2.30	C-V	887	22.7	CSR	R

### LBP

R404A . R507(*) 50 Hz	CECOMAF (W)							ASHRAE		R404A . R507(*) 50 Hz					
	-40	-30	-25		-10	-23.3									
			W	COP		kcal/h	COP								
<b>400/440V 50/60Hz ~3</b>															
MS26F3	3/4	F	25.93	173	549	779	0.96	1632	999	1.35	C-V	887	20.5	3PH	-
MS30F3	7/8	F	29.95	208	656	934	0.93	1975	1200	1.32	C-V	887	22.7	3PH	-
MS34F3	I	F	34.42	242	763	1089	1.00	2319	1400	1.40	C-V	887	20.5	3PH	-
<b>220-240V 50Hz ~I</b>															
ML45FB	1/6	F	4.59	52	99	134	0.66	274	170	0.94	C-V	300	9.9	CSIR	R
ML60FB	1/5	F	6.00	69	134	178	0.71	352	225	1.01	C-V	300	10.2	CSIR	R
ML80FB	1/4	F	8.10	99	190	253	0.78	506	320	1.09	C-V	300	10.9	CSIR	R
ML90FB	1/3	F	8.85	104	207	276	0.83	549	350	1.16	C-V	400	11.0	CSIR	R
MPI10FB	1/3	F	10.18	121	250	332	0.83	644	420	1.16	C-V	400	12.5	CSIR	R
MPI12FB	3/8	F	12.00	104	252	351	0.83	747	450	1.16	C-V	400	12.0	CSIR	R
MPI14FB	1/2	F	14.00	121	304	422	0.80	880	540	1.12	C-V	400	13.9	CSIR	R
MX18FB	5/8	F	18.39	173	397	548	0.96	1151	700	1.36	C-V	500	17.3	CSR	R
MX21FB	3/4	F	20.72	212	463	632	0.96	1301	805	1.35	C-V	500	17.5	CSR	R
MX23FB	7/8	F	23.20	260	535	720	0.96	1460	915	1.35	C-V	500	17.5	CSR	R
MS26FB	3/4	F	25.93	182	571	816	0.97	1743	1050	1.37	C-V	887	22.6	CSR	R
MS30FB	7/8	F	29.95	208	657	935	0.95	1976	1201	1.35	C-V	887	22.7	CSR	R
MS34FB	I	F	34.42	242	763	1089	0.96	2319	1400	1.35	C-V	887	22.7	CSR	R
<b>220V 50Hz ~I</b>															
MS34FB	I	F	34.42	242	763	1089	0.96	2319	1400	1.35	C-V	887	22.7	CSR	R
<b>200-240/220-230V 50/60Hz ~I</b>															
ML45FG	1/6	F	4.59	52	99	134	0.68	274	170	0.96	C-V	300	10.3	CSIR	R
ML60FG	1/5	F	6.00	69	134	178	0.71	352	225	1.01	C-V	300	10.3	CSIR	R
<b>200-220/230V 50/60Hz ~I</b>															
ML90FG	1/3	F	8.85	104	207	276	0.80	549	350	1.13	C-V	400	11.3	CSIR	R
MPI14FG	1/2	F	14.00	121	304	422	0.80	880	540	1.12	C-V	400	13.0	CSIR	R
MS26FG	3/4	F	26.16	173	549	779	0.96	1632	1000	1.35	C-V	887	22.6	CSR	R
<b>200-220/220-230V 50/60Hz ~I</b>															
ML80FG	1/4	F	8.10	99	190	253	0.77	506	320	1.08	C-V	600	11.3	CSIR	R
MPI12FG	3/8	F	12.00	104	252	351	0.82	747	450	1.16	C-V	400	12.7	CSIR	R

<b>Model / Modelo</b> Modell / Modèle	<b>Power / Potencia</b> Leistung / Puissance hp	<b>Cpr cooling / Enfriamiento</b> Kühlung / Refroidissement	<b>Displacement /</b> Cilindrada Hubraum / Cylindrée cm <sup>3</sup>	<b>Refrigerating capacity</b> Capacidad frigorífica Kälteleistung Production frigorifique COP in W/W <i>1 W = 0,864 kcal/h = 3,415 BTU/h</i>  <b>Evaporating temp. / Temp de evaporación</b> Verdampfungstemp. / Temp. d'évaporation °C							<b>Expansion / Expansión</b> Einspritzung / Détante	<b>Oil / Aceite</b> Oel / Huile cm <sup>3</sup>	<b>Weight / Peso</b> Gewicht / Poids kg	<b>Motor / Motor</b> Motor / Moteur	<b>Starting / Arranque</b> Anlauf / Démarrage
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<b>LBP</b>															
<b>R404A . R507(*)</b> 60 Hz				<b>CECOMAF (W)</b>						<b>ASHRAE</b>		<b>R404A . R507(*)</b> 60 Hz			
				-40	-30	-25		-10	-23.3						
						W	COP		kcal/h	COP					
<b>400/440V 50/60Hz ~3</b>															
<b>MS26F3</b>	3/4	F	25.93	203	642	911	0.92	1909	1170	1.31	C-V	887	20.5	3PH	-
<b>MS30F3</b>	7/8	F	29.95	242	765	1089	0.94	2310	1400	1.32	C-V	887	22.7	3PH	-
<b>MS34F3</b>	I	F	34.42	277	886	1267	0.96	2705	1630	1.35	C-V	887	20.5	3PH	-
<b>230V 60Hz ~I</b>															
<b>MS30FG</b>	7/8	F	29.93	242	765	1090	0.96	2310	1400	1.36	C-V	887	22.7	CSR	R
<b>208-230V 60Hz ~I</b>															
<b>MS26FF</b>	3/4	F	25.93	203	642	912	0.92	1909	1170	1.30	C-V	887	22.6	CSR	R
<b>MS30FF</b>	7/8	F	29.95	242	658	1090	0.93	2310	1400	1.31	C-V	887	22.7	CSR	R
<b>208V 60Hz ~I</b>															
<b>MS34FF</b>	I	F	34.42	273	839	1221	0.91	2748	1580	1.30	C-V	887	22.9	CSR	R
<b>200-240/220-230V 50/60Hz ~I</b>															
<b>ML45FG</b>	1/6	F	4.59	60	117	157	0.69	322	200	0.97	C-V	300	10.3	CSIR	R
<b>ML60FG</b>	1/5	F	6.00	81	156	208	0.70	412	263	0.99	C-V	300	10.3	CSIR	R
<b>200-220/230V 50/60Hz ~I</b>															
<b>ML90FG</b>	1/3	F	8.85	121	242	324	0.80	644	410	1.12	C-V	400	11.3	CSIR	R
<b>MPI4FG</b>	1/2	F	14.00	142	356	494	0.82	1029	632	1.15	C-V	400	13.0	CSIR	R
<b>MS26FG</b>	3/4	F	26.16	203	783	912	0.92	1909	1170	1.31	C-V	887	22.6	CSR	R
<b>200-220/220-230V 50/60Hz ~I</b>															
<b>ML80FG</b>	1/4	F	8.10	117	224	297	0.76	592	376	1.07	C-V	600	11.3	CSIR	R
<b>MPI2FG</b>	3/8	F	12.00	121	295	411	0.85	874	527	1.19	C-V	400	12.7	CSIR	R
<b>115-127V 60Hz ~I</b>															
<b>ML45FR</b>	1/6	F	4.55	60	117	157	0.72	322	200	1.01	C-V	300	10.3	CSIR	R
<b>ML60FR</b>	1/5	F	5.98	81	156	208	0.72	412	263	1.01	C-V	300	10.3	CSIR	R
<b>ML80FR</b>	1/4	F	8.10	117	224	297	0.75	592	376	1.05	C-V	400	11.3	CSIR	R
<b>ML90FR</b>	1/3	F	8.85	121	242	324	0.79	644	410	1.11	C-V	400	11.3	CSIR	R
<b>MPI2FR</b>	3/8	F	12.05	121	295	411	0.81	874	527	1.15	C-V	400	12.7	CSIR	R
<b>115V 60Hz ~I</b>															
<b>MPI4FE</b>	1/2	F	14.17	142	356	494	0.77	1029	632	1.10	C-V	400	13.0	CSIR	R

R404A: W (A) x 1.17 = kcal/h (B)

R404A: W (C) x 1.02 = kcal/h (D)

W x 0.86 = kcal/h

(\*) Or R407B / O R407B/ Oder R407B/ Ou R407B

Testing cycle conditions	CECOMAF		ASHRAE	
	LBP	HMBP	LBP	HMBP
Condensing temperature	55		55	55
Liquid temperature	55		32	46
Superheating temperature	32		32	35
Suction temperature	32		32	35
Ambient temperature	32		32	35

F	OC	S	C	V	P	R
Fan cooled	Oil cooler	Static	Capillar y tube	Expansion valve	PTC	Relay
Ventilación forzada	Enfriador de aceite	Estático	Tubo capilar	Válvula de expansión		Relé
Zwangsbeflüftung	Ölkühler	Statische Belüftung	Kapillarrohr	Expansionsventil		Relais
Ventilation forcée	Refrigerateur d'huile	Ventilation naturelle	Tube capillaire	Détendeur		Relais