



SECTION 9

TECHNICAL DATA



Model 601R-3

		REFRIGERATOR
CHARGE (R-134a Refrigerant) <i>NOTE: Always check serial tag for exact charge</i>		7.5 oz.
NORMAL OPERATING PRESSURES	Low Side High Side	0-12 psi to 30-42 psi 75 psi to 110 psi
COMPRESSOR <i>NOTE: Always check current parts price list for possible substitutions.</i>	Service Part No. Manufacturer Mfg. Part No. Original Compressor / Service Compressor Amps Original Compressor / Service Compressor BTU's	4201880 Embraco EMI30HER ~ 1.0 / ~1.1 345 / 280
DEFROST METHOD		"Off Cycle Defrost" Evap > 38°F before Compressor ON.
DEFROST TERMINATOR	Cut-In Temp. Cut-Out Temp.	--- ---
DEFROST HEATER	Watts Amps Ohms	--- --- ---
DRAIN TUBE HEATER	Watts Amps Ohms	--- --- ---
FILL TUBE HEATER	Watts Amps Ohms	--- --- ---
WATER VALVE	Watts Amps Ohms (Inductive)	--- --- ---
THERMISTORS (Evap & Compartment)	Ohms at 32°F / 0°C	30000 - 33000



Model 601RG-3

		REFRIGERATOR
CHARGE (R-134a Refrigerant) <i>NOTE: Always check serial tag for exact charge</i>		7.5 oz.
NORMAL OPERATING PRESSURES	Low Side High Side	0-12 psi to 30-42 psi 75 psi to 110 psi
COMPRESSOR <i>NOTE: Always check current parts price list for possible substitutions.</i>	Service Part No. Manufacturer Mfg. Part No. Original Compressor / Service Compressor Amps Original Compressor / Service Compressor BTU's	4201880 Embraco EMI30HER ~ 1.0 / ~1.1 345 / 280
DEFROST METHOD		"Off Cycle Defrost" Evap > 38°F before Compressor ON.
DEFROST TERMINATOR	Cut-In Temp. Cut-Out Temp.	---- ----
DEFROST HEATER	Watts Amps Ohms	---- ---- ----
DRAIN TUBE HEATER	Watts Amps Ohms	---- ---- ----
FILL TUBE HEATER	Watts Amps Ohms	---- ---- ----
WATER VALVE	Watts Amps Ohms (Inductive)	---- ---- ----
THERMISTORS (Evap & Compartment)	Ohms at 32°F / 0°C	30000 - 33000
DOOR HEATER	Watts Amps Ohms	5 .04 2500 - 2950



Model 601F-3

		FREEZER
CHARGE (R-134a Refrigerant) <i>NOTE: Always check serial tag for exact charge</i>		10.0 oz.
NORMAL OPERATING PRESSURES	Low Side High Side	5" vac-1 psi to 8-15 psi 75 psi to 120 psi
COMPRESSOR <i>NOTE: Always check current parts price list for possible substitutions.</i>	Service Part No. Manufacturer Mfg. Part No. Original Compressor / Service Compressor Amps Original Compressor / Service Compressor BTU's	7002026 Embraco EGX80HLC ~2.0 / ~2.0 820 / 820
DEFROST METHOD		"Adaptive Defrost" Intervals and duration varies. Followed by 5 min. compressor delay.
DEFROST TERMINATOR	Cut-In Temp. Cut-Out Temp.	30°F / -1°C 70°F / 21°C
DEFROST HEATER	Watts Amps Ohms	640 5.5 19 - 23
DRAIN TUBE HEATER	Watts Amps Ohms	7 .06 1800 - 2100
DRAIN TROUGH HEATER	Watts Amps Ohms	52 .45 240 - 280
FILL TUBE HEATER	Watts Amps Ohms	4.2 .04 3000 - 3500
WATER VALVE	Watts Amps Ohms (Inductive)	50 .4 160
THERMISTORS (Evap & Compartment)	Ohms at 32°F / 0°C	30000 - 33000



Model 611-3

		REFRIGERATOR	FREEZER
CHARGE (R-134a Refrigerant) <i>NOTE: Always check serial tag for exact charge</i>		5.5 oz.	7.0 oz.
NORMAL OPERATING PRESSURES	Low Side High Side	0-12 psi to 30-42 psi 75 psi to 110 psi	5" vac-1 psi to 8-15 psi 75 psi to 120 psi
COMPRESSOR <i>NOTE: Always check current parts price list for possible substitutions.</i>	Service Part No. Manufacturer Mfg. Part No. Original Compressor / Service Compressor Amps Original Compressor / Service Compressor BTU's	4201880 Embraco EMI30HER ~ 1.0 / ~1.1 345 / 280	4202280 Embraco EMI60HER ~1.2 / ~1.2 605 / 605
DEFROST METHOD		"Off Cycle Defrost" Evap > 38°F before Compressor ON.	"Adaptive Defrost" Intervals and duration varies. Followed by 5 min. compressor delay.
DEFROST TERMINATOR	Cut-In Temp. Cut-Out Temp.	--- ---	30°F / -1°C 55°F / 13°C
DEFROST HEATER	Watts Amps Ohms	--- --- ---	640 5.5 19 - 23
DRAIN TUBE HEATER	Watts Amps Ohms	--- --- ---	--- --- ---
DRAIN TROUGH HEATER	Watts Amps Ohms	--- --- ---	--- --- ---
FILL TUBE HEATER	Watts Amps Ohms	--- --- ---	5 .04 3000 - 3500
WATER VALVE	Watts Amps Ohms (Inductive)	--- --- ---	50 .4 160
THERMISTORS (Evap & Compartment)	Ohms at 32°F / 0°C	30000 - 33000	30000 - 33000



Model 611G-3

		REFRIGERATOR	FREEZER
CHARGE (R-134a Refrigerant) <i>NOTE: Always check serial tag for exact charge</i>		6 oz.	7 oz.
NORMAL OPERATING PRESSURES			
	Low Side	0-12 psi to 30-42 psi 75 psi to 110 psi	5" vac-1 psi to 8-15 psi 75 psi to 120 psi
	High Side		
COMPRESSOR <i>NOTE: Always check current parts price list for possible substitutions.</i>			
	Service Part No.	4201880	4202280
	Manufacturer	Embraco	Embraco
	Mfg. Part No.	EMI30HER	EMI60HER
	Original Compressor / Service Compressor Amps	~ 1.0 / ~1.1	~1.2 / ~1.2
	Original Compressor / Service Compressor BTU's	345 / 280	605 / 605
DEFROST METHOD		"Off Cycle Defrost" Evap > 38°F before Compressor ON.	"Adaptive Defrost" Intervals and duration varies. Followed by 5 min. compressor delay.
DEFROST TERMINATOR			
	Cut-In Temp.	----	30°F / -1°C
	Cut-Out Temp.	----	55°F / 13°C
DEFROST HEATER			
	Watts	----	640
	Amps	----	5.5
	Ohms	----	19 - 23
DRAIN TUBE HEATER			
	Watts	----	----
	Amps	----	----
	Ohms	----	----
DRAIN TROUGH HEATER			
	Watts	----	----
	Amps	----	----
	Ohms	----	----
FILL TUBE HEATER			
	Watts	----	4.2
	Amps	----	.04
	Ohms	----	3000 - 3500
WATER VALVE			
	Watts	----	50
	Amps	----	.4
	Ohms (Inductive)	----	160
THERMISTORS (Evap & Compartment)			
	Ohms at 32°F / 0°C	30000 - 33000	30000 - 33000
DOOR HEATER			
	Watts	5	----
	Amps	.04	----
	Ohms	2500 - 2950	----



Model 632-3

		REFRIGERATOR	FREEZER
CHARGE (R-134a Refrigerant) <i>NOTE: Always check serial tag for exact charge</i>		5.5 oz.	7.0 oz.
NORMAL OPERATING PRESSURES	Low Side High Side	0-12 psi to 30-42 psi 75 psi to 110 psi	5" vac-1 psi to 8-15 psi 75 psi to 120 psi
COMPRESSOR <i>NOTE: Always check current parts price list for possible substitutions.</i>	Service Part No. Manufacturer Mfg. Part No. Original Compressor / Service Compressor Amps Original Compressor / Service Compressor BTU's	4201880 Embraco EMI30HER ~ 1.0 / ~1.1 345 / 280	4202280 Embraco EMI60HER ~1.2 / ~1.2 605 / 605
DEFROST METHOD		"Off Cycle Defrost" Evap > 38°F before Compressor ON.	"Adaptive Defrost" Intervals and duration varies. Followed by 5 min. compressor delay.
DEFROST TERMINATOR	Cut-In Temp. Cut-Out Temp.	--- ---	30°F / -1°C 55°F / 13°C
DEFROST HEATER	Watts Amps Ohms	--- --- ---	640 5.5 19 - 23
DRAIN TUBE HEATER	Watts Amps Ohms	--- --- ---	7 .06 1800 - 2100
DRAIN TROUGH HEATER	Watts Amps Ohms	--- --- ---	--- --- ---
FILL TUBE HEATER	Watts Amps Ohms	--- --- ---	4.2 .04 3000 - 3500
WATER VALVE	Watts Amps Ohms (Inductive)	--- --- ---	50 .4 160
THERMISTORS (Evap & Compartment)	Ohms at 32°F / 0°C	30000 - 33000	30000 - 33000



Model 642-3

		REFRIGERATOR	FREEZER
CHARGE (R-134a Refrigerant) <i>NOTE: Always check serial tag for exact charge</i>		5.5 oz.	7.0 oz.
NORMAL OPERATING PRESSURES Low Side High Side		0-12 psi to 30-42 psi 75 psi to 110 psi	5" vac-1 psi to 8-15 psi 75 psi to 120 psi
COMPRESSOR <i>NOTE: Always check current parts price list for possible substitutions.</i> Service Part No. Manufacturer Mfg. Part No. Original Compressor / Service Compressor Amps Original Compressor / Service Compressor BTU's		4201880 Embraco EMI30HER ~ 1.0 / ~1.1 345 / 280	4202280 Embraco EMI60HER ~1.2 / ~1.2 605 / 605
DEFROST METHOD		"Off Cycle Defrost" Evap > 38°F before Compressor ON.	"Adaptive Defrost" Intervals and duration varies. Followed by 5 min. compressor delay.
DEFROST TERMINATOR Cut-In Temp. Cut-Out Temp.		--- ---	30°F / -1°C 55°F / 13°C
DEFROST HEATER Watts Amps Ohms		--- --- ---	640 5.5 19 - 23
DRAIN TUBE HEATER Watts Amps Ohms		--- --- ---	7 .06 1800 - 2100
DRAIN TROUGH HEATER Watts Amps Ohms		--- --- ---	--- --- ---
FILL TUBE HEATER Watts Amps Ohms		--- --- ---	4.2 .04 3000 - 3500
WATER VALVE Watts Amps Ohms (Inductive)		--- --- ---	50 .4 160
THERMISTORS (Evap & Compartment) Ohms at 32°F / 0°C		30000 - 33000	30000 - 33000



Model 650-3

		REFRIGERATOR	FREEZER
CHARGE (R-134a Refrigerant) <i>NOTE: Always check serial tag for exact charge</i>		5.5 oz	6.0 oz.
NORMAL OPERATING PRESSURES			
	Low Side	0-12 psi to 30-42 psi 75 psi to 110 psi	5" vac-1 psi to 8-15 psi 75 psi to 120 psi
	High Side		
COMPRESSOR <i>NOTE: Always check current parts price list for possible substitutions.</i>			
	Service Part No.	4201880	4202280
	Manufacturer	Embraco	Embraco
	Mfg. Part No.	EMI30HER	EMI60HER
	Original Compressor / Service Compressor Amps	~ 1.0 / ~1.1	~1.2 / ~1.2
	Original Compressor / Service Compressor BTU's	345 / 280	605 / 605
DEFROST METHOD		"Off Cycle Defrost" Evap > 38°F before Compressor ON.	"Adaptive Defrost" Intervals and duration varies. Followed by 5 min. compressor delay.
DEFROST TERMINATOR			
	Cut-In Temp.	----	30°F / -1°C
	Cut-Out Temp.	----	55°F / 13°C
DEFROST HEATER			
	Watts	----	640
	Amps	----	5.5
	Ohms	----	19 - 23
DRAIN TUBE HEATER			
	Watts	----	----
	Amps	----	----
	Ohms	----	----
DRAIN TROUGH HEATER			
	Watts	----	----
	Amps	----	----
	Ohms	----	----
FILL TUBE HEATER			
	Watts	----	5
	Amps	----	.04
	Ohms	----	3000 - 3500
WATER VALVE			
	Watts	----	50
	Amps	----	.4
	Ohms (Inductive)	----	160
THERMISTORS (Evap & Compartment)			
	Ohms at 32°F / 0°C	30000 - 33000	30000 - 33000



Model 650G-3

		REFRIGERATOR	FREEZER
CHARGE (R-134a Refrigerant) <i>NOTE: Always check serial tag for exact charge</i>		4.5 oz.	6.0 oz.
NORMAL OPERATING PRESSURES			
	Low Side	0-12 psi to 30-42 psi 75 psi to 110 psi	5" vac-1 psi to 8-15 psi 75 psi to 120 psi
	High Side		
COMPRESSOR <i>NOTE: Always check current parts price list for possible substitutions.</i>			
	Service Part No.	4201880	4202280
	Manufacturer	Embraco	Embraco
	Mfg. Part No.	EMI30HER	EMI60HER
	Original Compressor / Service Compressor Amps	~ 1.0 / ~1.1	~1.2 / ~1.2
	Original Compressor / Service Compressor BTU's	345 / 280	605 / 605
DEFROST METHOD		"Off Cycle Defrost" Evap > 38°F before Compressor ON.	"Adaptive Defrost" Intervals and duration varies. Followed by 5 min. compressor delay.
DEFROST TERMINATOR			
	Cut-In Temp.	---	30°F / -1°C
	Cut-Out Temp.	---	55°F / 13°C
DEFROST HEATER			
	Watts	---	640
	Amps	---	5.5
	Ohms	---	19 - 23
DRAIN TUBE HEATER			
	Watts	---	---
	Amps	---	---
	Ohms	---	---
DRAIN TROUGH HEATER			
	Watts	---	---
	Amps	---	---
	Ohms	---	---
FILL TUBE HEATER			
	Watts	---	4.2
	Amps	---	.04
	Ohms	---	3000 - 3500
WATER VALVE			
	Watts	---	50
	Amps	---	.4
	Ohms (Inductive)	---	160
THERMISTORS (Evap & Compartment)			
	Ohms at 32°F / 0°C	30000 - 33000	30000 - 33000
DOOR HEATER			
	Watts	5	---
	Amps	.04	---
	Ohms	2500 - 2950	---



Model 661-3

		REFRIGERATOR	FREEZER
CHARGE (R-134a Refrigerant) <i>NOTE: Always check serial tag for exact charge</i>		3.5 oz.	7.0 oz.
NORMAL OPERATING PRESSURES Low Side High Side		0-12 psi to 30-42 psi 75 psi to 110 psi	5" vac-1 psi to 8-15 psi 75 psi to 120 psi
COMPRESSOR <i>NOTE: Always check current parts price list for possible substitutions.</i> Service Part No. Manufacturer Mfg. Part No. Original Compressor / Service Compressor Amps Original Compressor / Service Compressor BTU's		4201880 Embraco EMI30HER ~ 1.0 / ~1.1 345 / 280	7002026 Embraco EGX80HLC ~2.0 / ~2.0 820 / 820
DEFROST METHOD		"Off Cycle Defrost" Evap > 38°F before Compressor ON.	"Adaptive Defrost" Intervals and duration varies. Followed by 5 min. compressor delay.
DEFROST TERMINATOR Cut-In Temp. Cut-Out Temp.		--- ---	30°F / -1°C 55°F / 13°C
DEFROST HEATER Watts Amps Ohms		--- --- ---	640 5.5 19 - 23
DRAIN TUBE HEATER Watts Amps Ohms		--- --- ---	7 .06 1800 - 2100
DRAIN TROUGH HEATER Watts Amps Ohms		--- --- ---	--- --- ---
FILL TUBE HEATER Watts Amps Ohms		--- --- ---	4.2 .04 3000 - 3500
WATER VALVE Watts Amps Ohms (Inductive)		--- --- ---	50 .4 160
THERMISTORS (Evap & Compartment) Ohms at 32°F / 0°C		30000 - 33000	30000 - 33000



Model 685-3

		REFRIGERATOR	FREEZER
CHARGE (R-134a Refrigerant) <i>NOTE: Always check serial tag for exact charge</i>		4.5 oz.	7.0 oz.
NORMAL OPERATING PRESSURES			
	Low Side	0-12 psi to 30-42 psi 75 psi to 110 psi	5" vac-1 psi to 8-15 psi 75 psi to 120 psi
	High Side		
COMPRESSOR <i>NOTE: Always check current parts price list for possible substitutions.</i>			
	Service Part No.	4201880	4202280
	Manufacturer	Embraco	Embraco
	Mfg. Part No.	EMI30HER	EMI60HER
	Original Compressor / Service Compressor Amps	~ 1.0 / ~1.1	~1.2 / ~1.2
	Original Compressor / Service Compressor BTU's	345 / 280	605 / 605
DEFROST METHOD		"Off Cycle Defrost" Evap > 38°F before Compressor ON.	"Adaptive Defrost" Intervals and duration varies. Followed by 5 min. compressor delay.
DEFROST TERMINATOR			
	Cut-In Temp.	---	30°F / -1°C
	Cut-Out Temp.	---	55°F / 13°C
DEFROST HEATER			
	Watts	---	450
	Amps	---	3.9
	Ohms	---	28 - 31
DRAIN TUBE HEATER			
	Watts	---	---
	Amps	---	---
	Ohms	---	---
DRAIN TROUGH HEATER			
	Watts	---	---
	Amps	---	---
	Ohms	---	---
FILL TUBE HEATER			
	Watts	---	4.2
	Amps	---	.04
	Ohms	---	3000 - 3500
WATER VALVE			
	Watts	20	50
	Amps	.2	.4
	Ohms (Inductive)	260	160
THERMISTORS (Evap & Compartment)			
	Ohms at 32°F / 0°C	30000 - 33000	30000 - 33000
MULLION CHUTE HEATER			
	Watts	15	---
	Amps	.13	---
	Ohms	800 - 980	---
GLASS WELL HEATER			
	Watts	5	---
	Amps	.04	---
	(Heater 1) Ohms	1200 - 1470	---
	(Heater 2) Ohms	3150 - 3680	---



Model 695-3

		REFRIGERATOR	FREEZER
CHARGE (R-134a Refrigerant) <i>NOTE: Always check serial tag for exact charge</i>		4.5 oz.	7.0 oz
NORMAL OPERATING PRESSURES	Low Side High Side	0-12 psi to 30-42 psi 75 psi to 110 psi	5" vac-1 psi to 8-15 psi 75 psi to 120 psi
COMPRESSOR <i>NOTE: Always check current parts price list for possible substitutions.</i>	Service Part No. Manufacturer Mfg. Part No. Original Compressor/Service Compressor Amps Original Compressor/Service Compressor BTU's	4201880 Embraco EMI30HER ~ 1.0 / ~1.1 345 / 280	4202280 Embraco EMI60HER ~1.2 / ~1.2 605 / 605
DEFROST METHOD		"Off Cycle Defrost" Evap > 38°F before Compressor ON.	"Adaptive Defrost" Intervals and duration varies. Followed by 5 min. compressor delay.
DEFROST TERMINATOR	Cut-In Temp. Cut-Out Temp.	--- ---	30°F / -1°C 55°F / 13°C
DEFROST HEATER	Watts Amps Ohms	--- --- ---	450 3.9 28 - 31
DRAIN TUBE HEATER	Watts Amps Ohms	--- --- ---	--- --- ---
DRAIN TROUGH HEATER	Watts Amps Ohms	--- --- ---	--- --- ---
FILL TUBE HEATER	Watts Amps Ohms	--- --- ---	4.2 .04 3000 - 3500
WATER VALVE	Watts Amps Ohms (Inductive)	20 .2 260	50 .4 160
THERMISTORS (Evap & Compartment)	Ohms at 32°F / 0°C	30000 - 33000	30000 - 33000
MULLION CHUTE HEATER	Watts Amps Ohms (Inductive)	15 .13 800 - 980	--- --- ---
GLASS WELL HEATER	Watts Amps (Heater 1) Ohms (Heater 2) Ohms	5 .04 1200 - 1470 3150 - 3680	--- --- --- ---