



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 | 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 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 | 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 | 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 | 7002026 |
| | Manufacturer | Embraco | Embraco |
| | Mfg. Part No. | EMI30HER | EGX80HLC |
| | Original Compressor / Service Compressor Amps | ~ 1.0 / ~1.1 | ~2.0 / ~2.0 |
| | Original Compressor / Service Compressor BTU's | 345 / 280 | 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. | --- | 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 | --- | 7 |
| | Amps | --- | .06 |
| | Ohms | --- | 1800 - 2100 |
| 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 |



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 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 | 15 .13 800 - 980 | --- --- --- |
| GLASS WELL HEATER | Watts Amps (Heater 1) Ohms (Heater 2) Ohms | 5 .04 1200 - 1470 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 | --- --- --- --- |