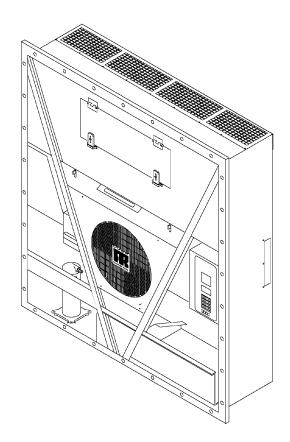
MAGNUM PLUS

TK 54356-0.8



Printed (August 26, 2010)

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General Information

Tables of Contents

This Parts Manual contains a numerical table of contents listing each assembly name, its associated Grid number and page number. The numerical table of contents is arranged numerically by Grid number. There are references in a parts list referring to other Grid numbers, the numerical table of contents is arranged to facilitate finding the referenced illustrations. At the rear of this parts manual are two indexes, a numerical and alphabetical. The indexes contain all of the part numbers and descriptions which appear in this manual.

Assemblies and Subassemblies

When parts are indented in the description list, they are preceded with a bullet (•). This indicates that the part(s) is available separately or included in an assembly.

GRID NO. 67D6 SWITCH PANEL ASSEMBLY

| REF | PART# | DESCRIPTION | QTY |
|-----|---------|-----------------------|-----|
| | 45-1239 | PANEL - assy, switch | 1 |
| 1 | 99-1960 | • PANEL | 1 |
| | 99-6280 | • • NAMEPLATE - panel | 1 |
| 2 | 33-743 | • GASKET | 1 |

For example: the switch panel nameplate (99-6280) is available separately, available as part of the switch panel (99-1960) and with the panel assembly (45-1239).

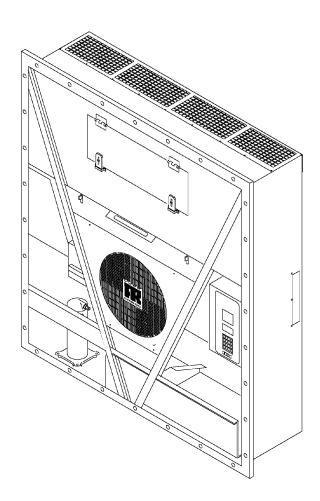
ABBREVIATIONS The following abbreviations appear in parts manuals

| В | AC | current as required accumulator adjusting aluminum alternator ampere assembly board bearing breaker | F | (continued) evap. evaporator exch exchanger exp expansion ext external F. Farenheit fill fillister fi fuel injection fl flare fpt female pipe thread tt ft feet ftg fitting | O P | os oversized od outside diameter pcb printed circuit |
|---|----|---|--------|---|--------|--|
| D | C | clockwise counter- clockwise camshaft compressor condenser connecting, connector cylinder defrost degree dehydrator | H I | hex | S | req required rpm revolutions per minute sec second sld solder soc hd solder solder soc hd solenoid spl special sq square ss stainless steel std standard stl steel suct suction sw switch |
| E | DC | direct current discharge differential Extended Maintenance Interval European Economic Community | N | lg long mm milimeter mpt male pipe thread mod modulating neg negative No number NS not supplied NSS not sold separately | U V | term terminal temp temperature thk thick us undersize vib vibrasorber W watt w/ with w/o without |

MAGNUM PLUS

Contents

| Name | Grid | Page |
|---|-------|------|
| MAGNUM PLUS REFERENCE SHEET | 14U3 | |
| AIR VENT (40 FT CONTAINERS) | 143D7 | |
| COMPRESSOR GROUP (SERVICE VALVES) | | |
| NAMEPLATES | | |
| DEFROST DRAIN | | |
| DOWNLOAD CABLES | | |
| REFRIGERATION COMPONENTS (SERVICE VALVES) | | |
| CONDENSER FAN GROUP | | |
| EVAPORATOR FAN GROUP | | |
| ELECTRICAL COMPONENTS | | |
| CONTROL BOX (MP-4000) | | |
| CONTROL BOX DOOR (MP-4000) | 235G3 | |
| USDA DOWNLOAD PANEL | | |
| CONDENSER COMPONENTS | 235G5 | |
| EVAPORATOR PANELS | | |

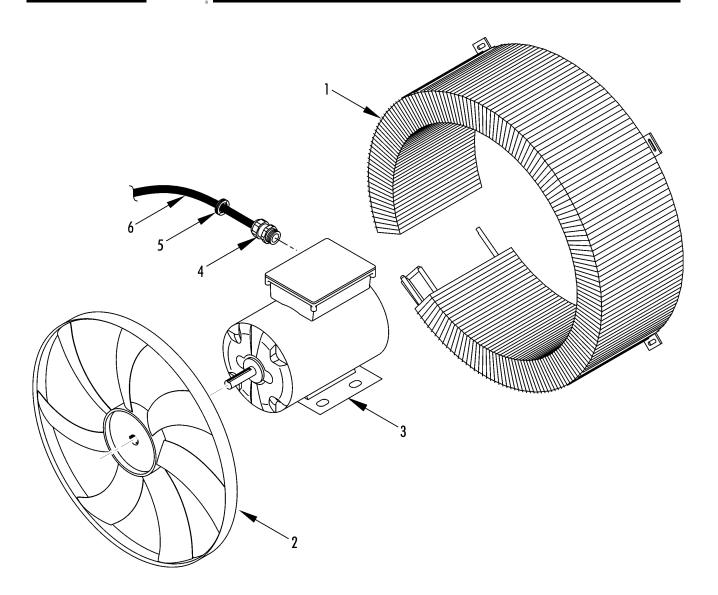


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MAGNUM PLUS REFERENCE SHEET



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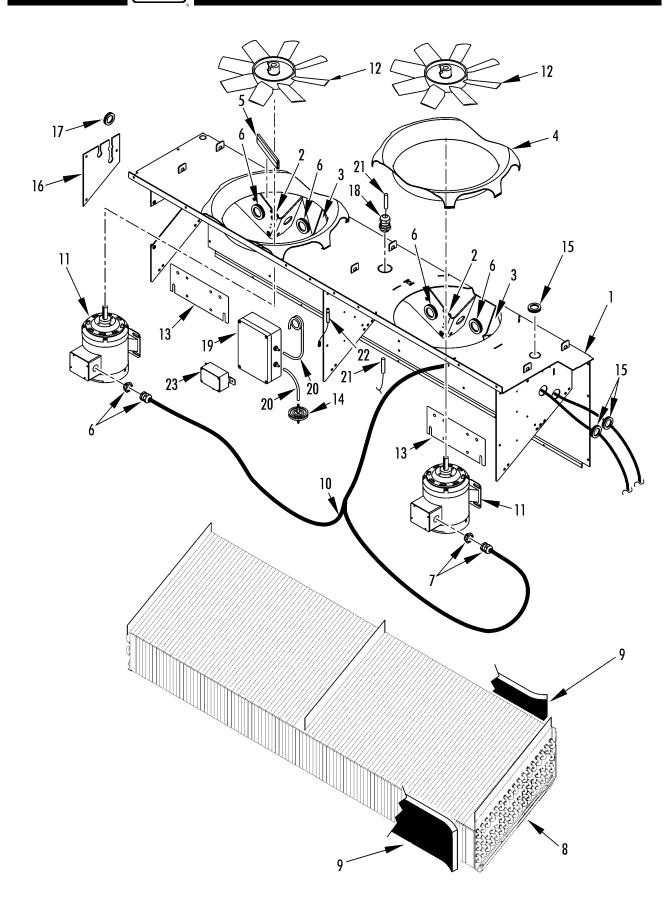


CONDENSER FAN GROUP



| REF | PART# | DESCRIPTION | QTY |
|-----|---------|--|-----|
| 1 | 60-285 | COIL - condenser | 1 |
| | 33-2950 | GASKET (10 x 15 mm) | A/R |
| | 51-1442 | SCREW - coil | 7 |
| | 51-1444 | FLATWASHER | 7 |
| | 55-9054 | WASHER (nylon) | 7 |
| 2 | 78-1684 | FAN - condenser (21.6 in, 500 mm dia, 30 deg pitch, 8 blade) | 1 |
| 3 | 104-759 | MOTOR - condenser fan (0.75 hp) | 1 |
| | 51-1443 | SCREW - motor | 4 |
| | 51-1444 | FLATWASHER | 8 |
| | 51-1429 | LOCKWASHER | 4 |
| | 51-1427 | NUT | 4 |
| 4 | 55-5900 | GRIP - cable | 1 |
| 5 | 33-367 | GROMMET | 1 |
| 6 | 41-2953 | HARNESS - condenser fan | 1 |



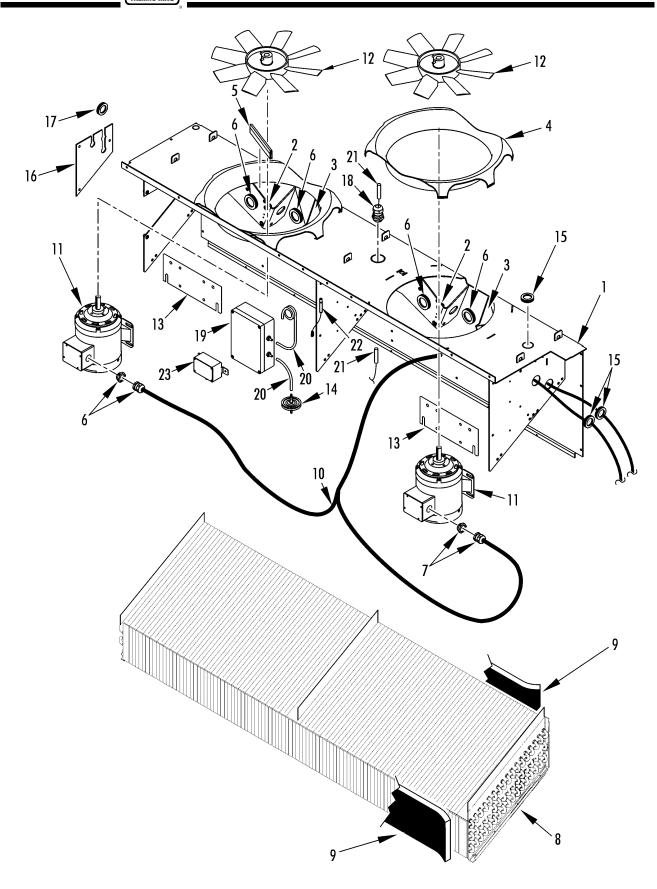


EVAPORATOR FAN GROUP



| REF | PART# | DESCRIPTION | QTY |
|-----|---------|---|-----|
| 1 | 98-8242 | HOUSING - evaporator (12 in, 312 mm dia) | 1 |
| 2 | 92-2779 | BRACKET - motor (left) | 2 |
| 3 | 92-2332 | BRACKET - motor (right) | 2 |
| | 55-9162 | RIVET - housing | 10 |
| 4 | 78-1737 | • SHROUD - fan | 2 |
| 5 | 33-3929 | TRIM - edge guard | A/R |
| 6 | 33-3917 | GROMMET (1.180 in) | 4 |
| 7 | 55-5900 | CONNECTOR - harness & sensor | 2 |
| 8 | NSS | COIL - evaporator (see Refrigeration Group) | 1 |
| | 51-1447 | SCREW - coil | 10 |
| | 55-9217 | CAP - screw | 3 |
| 9 | 91-9328 | BLOCK - coil | 2 |
| 10 | 41-3685 | HARNESS - evaporator fan | 1 |
| 11 | 104-691 | MOTOR - fan | 2 |
| | 51-1869 | SCREW - motor | 8 |
| | 51-1429 | LOCKWASHER | 8 |
| | 51-1444 | FLATWASHER | 8 |
| | 51-1427 | NUT | 8 |
| 12 | 78-1683 | FAN - evaporator (14 in, 355 mm dia) | 2 |
| 13 | 91-8466 | BRACKET - motor | 2 |
| | 51-1869 | SCREW - bracket | 8 |
| | 51-1444 | FLATWASHER | 8 |
| | 51-1429 | LOCKWASHER | 8 |
| | 51-1427 | NUT | 8 |
| 14 | 92-458 | FILTER - gas sensor | 1 |
| 15 | 33-2946 | GROMMET (37 mm) | 4 |
| 16 | 92-2775 | COVER - tube | 1 |
| | 51-1422 | SCREW | 3 |
| | 51-1441 | FLATWASHER | 3 |
| | 51-619 | WASHER - insulator | 3 |
| 17 | 33-367 | GROMMET | 4 |
| 18 | 51-270 | CONNECTOR - liquid tite | 1 |
| 19 | 41-3409 | SENSOR - gas (O2/CO2) | 1 |
| | 41-7143 | SENSOR - gas (O2 only) | 1 |
| | 51-1442 | SCREW | 2 |
| | 51-619 | WASHER - insulator | 2 |
| | 51-1441 | FLATWASHER | 2 |
| | 55-9698 | INSERT | 2 |
| 20 | 11-4367 | HOSE - sensor (1/4 od x 35 ft lg) | A/R |
| 21 | 40-1044 | SENSOR - kit (return air & defrost) | 2 |
| 22 | 41-9220 | SENSOR - humidity | 1 |
| | 51-1461 | SCREW | 2 |



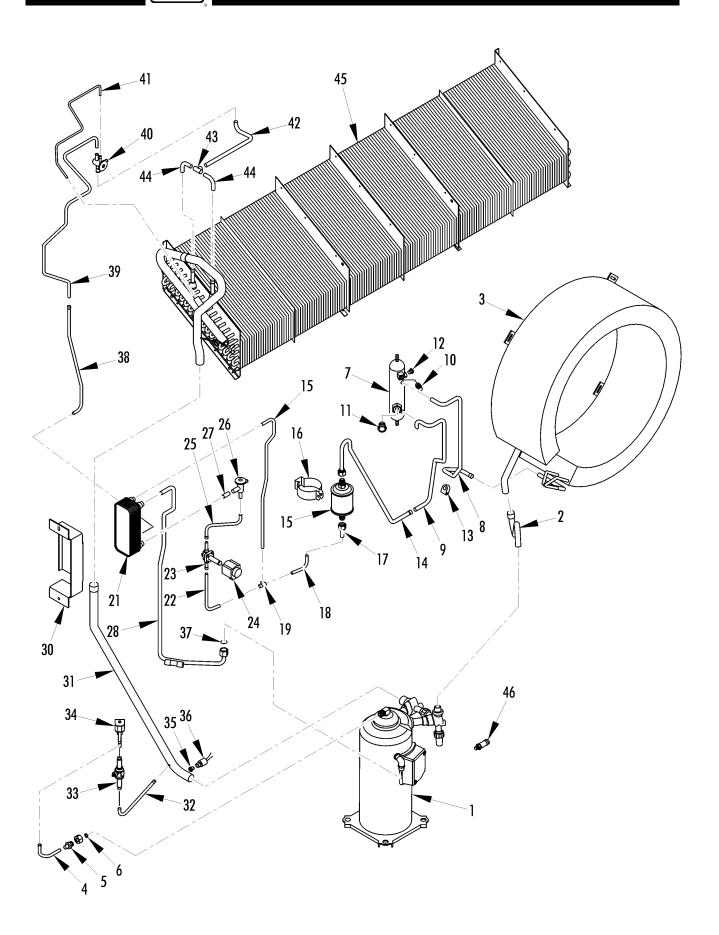


EVAPORATOR FAN GROUP



| REF | PART# | DESCRIPTION | QTY |
|-----|---------|-------------------------|-----|
| | 51-1870 | CAP - tube | 2 |
| 23 | 41-9490 | SENSOR - gas (CO2 only) | 1 |





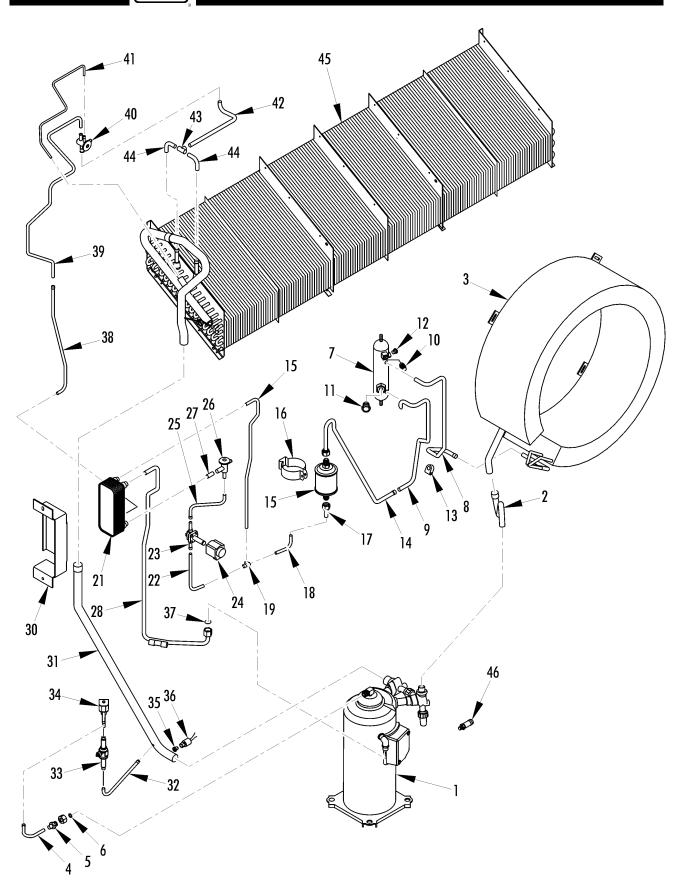
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REFRIGERATION COMPONENTS (SERVICE VALVES)



| REF | PART# | DESCRIPTION | QTY |
|-----|---------|------------------------------------|-----|
| 1 | 102-795 | COMPRESSOR - scroll (see 180E1) | 1 |
| | 92-2229 | SPACER - compressor | 1 |
| 2 | 61-2477 | TUBE - valve to coil | 1 |
| 3 | 60-285 | COIL - condenser | 1 |
| 4 | 61-2467 | TUBE - valve to coil | 1 |
| 5 | 61-2162 | ADAPTER - compressor | 1 |
| 6 | 33-3912 | SEAL - teflon fiber | 1 |
| 7 | 67-1991 | TANK - receiver | 1 |
| 8 | 61-2238 | TUBE - receiver to dehydrator | 1 |
| 9 | 61-2569 | TUBE - receiver to condenser | 1 |
| 10 | 66-7812 | CAP - fitting | 1 |
| 11 | 66-8811 | INDICATOR - liquid | 1 |
| | 33-3007 | O-RING | 1 |
| 12 | 506-364 | PLUG - fusible | 1 |
| | 51-273 | NUT - receiver tank | 2 |
| | 55-9027 | WASHER - insulating | 4 |
| 13 | 55-6730 | CLAMP - tube | 2 |
| | 51-1421 | SCREW - clamp | 1 |
| | 51-1425 | NUT | 1 |
| 14 | 61-3508 | TUBE - receiver to dehydrator | 1 |
| | 55-302 | NUT - adapter | 1 |
| 15 | 61-786 | DEHYDRATOR | 1 |
| 16 | 51-1871 | CLAMP - dehydrator | 1 |
| | 51-1442 | SCREW - clamp | 1 |
| | 51-1441 | FLATWASHER - clamp | 1 |
| | 51-1425 | NUT - clamp | 1 |
| | 55-9054 | WASHER - insulating | 1 |
| | 51-1442 | SCREW - dehydrator | 1 |
| | 51-1464 | FLATWASHER - dehydrator | 2 |
| 17 | 61-3506 | TUBE - filter | 1 |
| | 55-302 | NUT - adapter | 1 |
| 18 | 61-3503 | TUBE - filter to tee | 1 |
| 19 | 55-3251 | TEE | 1 |
| 20 | 61-2471 | TUBE - tee to exchanger | 1 |
| 21 | 67-1889 | HEAT EXCHANGER - economizer | 1 |
| | 92-3547 | INSULATION - heat exchanger | 1 |
| 22 | 61-2472 | TUBE - tee to valve | 1 |
| | 91-758 | CLAMP - tube | 1 |
| | 51-1442 | SCREW - clamp | 1 |
| | 51-1441 | FLATWASHER | 2 |
| | 55-8915 | SPACER | 1 |
| 23 | 61-2470 | VALVE - solenoid (vapor injection) | 1 |



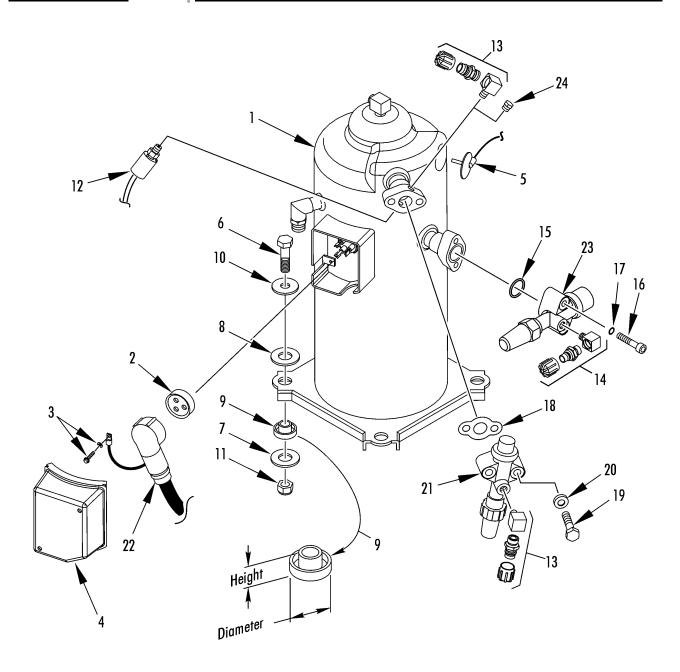


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REFRIGERATION COMPONENTS (SERVICE VALVES)



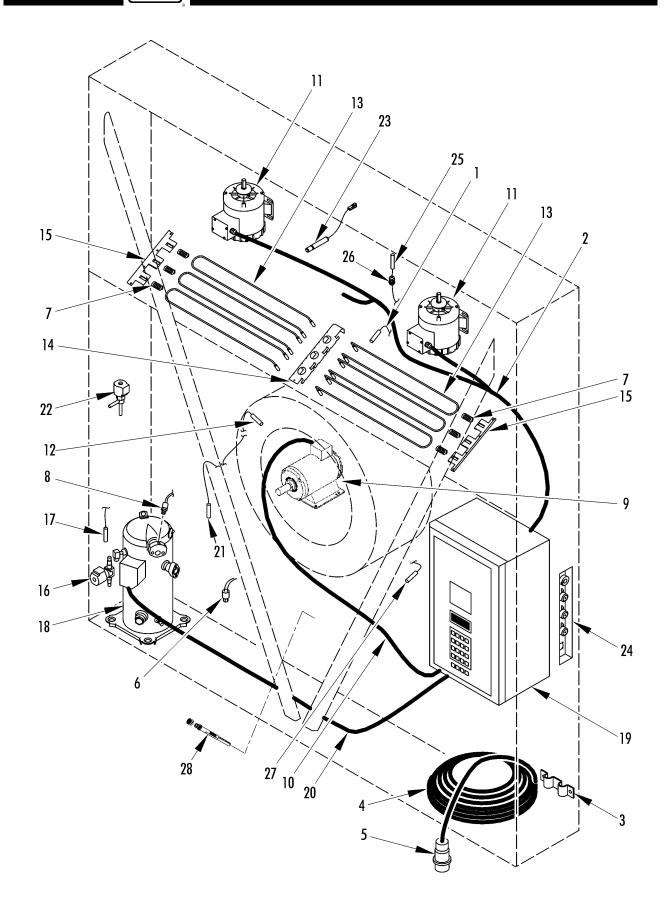
| REF | PART# | DESCRIPTION | QTY |
|-----|---------|--|-----|
| 24 | 41-5460 | COIL - valve | 1 |
| | 504-919 | • COIL | 1 |
| 25 | 61-2469 | TUBE - valve to expansion | 1 |
| 26 | 66-9906 | VALVE - expansion (economizer) | 1 |
| 27 | 61-1847 | TUBE - expansion valve to exchanger | 1 |
| 28 | 61-2474 | TUBE - liquid injection | 1 |
| | 55-8951 | SHOULDER | 1 |
| | 55-8950 | NUT - o-ring seal | 1 |
| | 33-4499 | INSULATION - tube (cut to 24.5 in lg) | A/R |
| | 33-4499 | INSULATION - tube (cut to 19.0 in lg) | A/R |
| | 91-1800 | CLAMP - tube | 2 |
| | 51-1442 | SCREW - clamp | 1 |
| | 51-1425 | NUT | 1 |
| 29 | 61-2476 | TUBE - tx bulb | 1 |
| 30 | 92-3391 | BRACKET - heat exchanger | 1 |
| | 92-3550 | INSULATION - mylar | 1 |
| 31 | 61-3502 | TUBE - suction | 1 |
| | 33-4500 | INSULATION - tube (42.1 in lg) | A/R |
| 32 | 61-2466 | TUBE - suction to ball valve | 1 |
| 33 | 61-2465 | VALVE - ball | 1 |
| 34 | 61-2057 | VALVE (PWM) | 1 |
| | 41-7937 | • COIL (only) | 1 |
| 35 | 66-6607 | FITTING - low side | 1 |
| | 66-7183 | CAP - charge port (blue) | 1 |
| | 66-8054 | ADAPTER | 1 |
| 36 | 41-4473 | SWITCH - Ipco | 1 |
| 37 | 33-566 | O-RING | 1 |
| 38 | 61-2468 | TUBE - heat exchanger to evaporator | 1 |
| | 33 4501 | INSULATION - tube (14.1 in lg) | A/R |
| 39 | 61-2050 | TUBE - exchanger to coil (#2) | 1 |
| 40 | 61-443 | VALVE - expansion | 1 |
| 41 | 61-2048 | TUBE - equalizer | 1 |
| 42 | 61-2049 | TUBE - expansion valve to tee | 1 |
| 43 | 55-2296 | TEE | 1 |
| 44 | 61-2051 | TUBE - tee to distributor | 1 |
| 45 | 67-1923 | COIL - evaporator (14.7/374 wide, see 235E9) | 1 |
| 46 | 41-4004 | SWITCH - hpco | 1 |



COMPRESSOR GROUP (SERVICE VALVES)



| REF | PART# | DESCRIPTION | QTY |
|-----|---------|--|-----|
| 1 | 102-795 | COMPRESSOR - scroll | 1 |
| | 203-516 | OIL - compressor | A/R |
| | 40-779 | KIT - gasket & grease | 1 |
| 2 | 33-2951 | GASKET - power connector | 1 |
| | 33-2979 | SEALER - silicone grease pack | 1 |
| 3 | 55-8994 | SCREW - ground | 1 |
| | 55-8995 | WASHER - ground | 1 |
| 4 | 91-9021 | COVER - terminal box | 1 |
| 5 | 40-776 | KIT - thermistor | 1 |
| 6 | 51-1433 | SCREW - compressor | 4 |
| 7 | 51-1435 | FLATWASHER (12 mm) | 4 |
| 8 | 55-9012 | WASHER - vibration damper | 4 |
| 9 | 55-9013 | SPACER (before 1/03, height - 16.3, dia 31.7) | 4 |
| | 51-1432 | SPACER (1/03 - 3/10, height - 17.4, dia 34.3) | 4 |
| | 51-2033 | SPACER (3/10 & after, height - 17.9, dia 34.3) | 4 |
| 10 | 51-1436 | FLATWASHER (13 mm) | 4 |
| 11 | 51-1434 | NUT | 4 |
| 12 | 41-4004 | SWITCH - hpco | 1 |
| | 203-393 | SEALER - thread (red) | A/R |
| 13 | 66-7812 | ADAPTER - high side | 1 |
| | 66-6610 | FITTING - highside | 1 |
| | 66-7182 | CAP - fitting | 1 |
| | 203-393 | SEALER - thread (red) | A/R |
| 14 | 66-8054 | ELBOW - low side | 1 |
| | 66-6607 | FITTING - low side | 1 |
| | 66-7183 | CAP - fitting | 1 |
| 15 | 33-727 | O-RING - suction | 1 |
| 16 | 51-1438 | SCREW - flange | 2 |
| 17 | 51-1429 | LOCKWASHER | 2 |
| 18 | 33-2805 | GASKET - flange | 1 |
| 19 | 51-1437 | SCREW - discharge valve | 2 |
| 20 | 51-358 | WASHER - sealing | 2 |
| 21 | 61-2119 | VALVE - discharge | 1 |
| 22 | 40-782 | KIT - power cord | 1 |
| 23 | 61-2118 | VALVE - suction | 1 |
| | 66-9842 | VALVE | 1 |
| 24 | 55-3364 | PLUG | 1 |

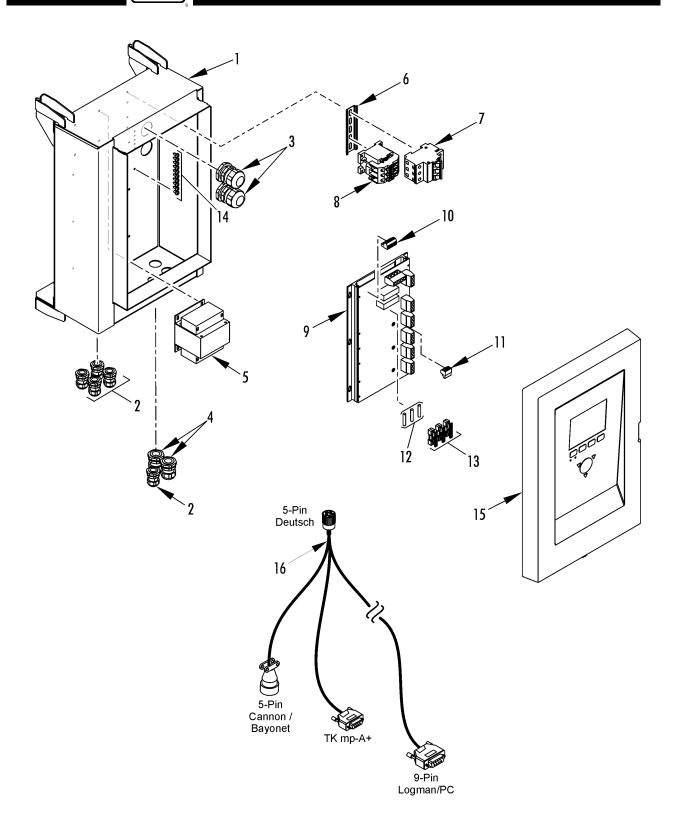


ELECTRICAL COMPONENTS



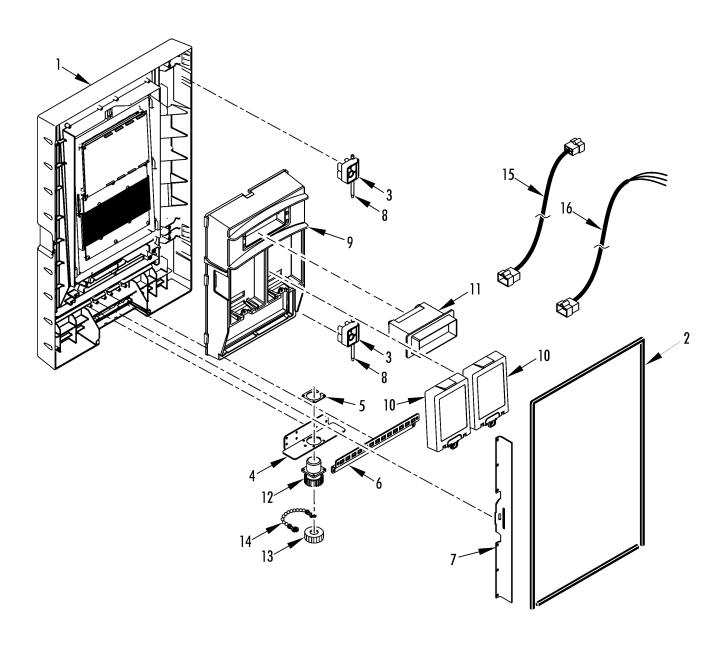
| REF | PART# | DESCRIPTION | QTY |
|-----|---------|---|-----|
| 1 | 40-1044 | SENSOR - kit (defrost) | A/R |
| 2 | 41-3685 | HARNESS - evaporator (see 235E9) | 1 |
| 3 | 92-5546 | BRACKET - cable restraint | 1 |
| | 51-1445 | SCREW - bracket | 2 |
| | 51-1446 | LOCKWASHER | 2 |
| | 51-1441 | FLATWASHER | 2 |
| | 55-9054 | WASHER - insulator | 2 |
| 4 | 45-1992 | CABLE - power (19.2 meters, 63 ft, 11/4 ga) | 1 |
| 5 | 41-1976 | PLUG - power (Minnekes) | 1 |
| | 44-9891 | • TERMINAL - pin | 7 |
| | 40-692 | KIT - Cable Splice | 1 |
| | 45-1908 | CABLE (11/4, 250 ft roll) | A/R |
| | 45-2272 | CABLE (11/4, 1000 ft roll) | A/R |
| 6 | 41-4473 | SWITCH - Ipco | 1 |
| 7 | 91-8140 | SPRING - heater | 6 |
| 8 | 41-4004 | SWITCH - hpco | 1 |
| 9 | 104-759 | MOTOR - condenser fan (see 235E8) | 1 |
| 10 | 41-2953 | HARNESS - condenser fan (see 235E8) | 1 |
| 11 | 104-691 | MOTOR - evaporator fan (see 235E9) | 2 |
| 12 | 40-1044 | SENSOR - kit (condenser coil) | 1 |
| 13 | 45-1927 | HEATER (680W, 2 meter leads) | 6 |
| 14 | 91-8142 | BRACKET - heater (15.4/404 long, MAGNUM) | 1 |
| 15 | 91-8467 | BRACKET - heater (13.8/350 long, MAGNUM) | 2 |
| | 51-1447 | SCREW - bracket | 11 |
| 16 | 61-2470 | VALVE - solenoid | 1 |
| | 41-5460 | COIL - valve | 1 |
| 17 | 41-4300 | SENSOR - compressor | 1 |
| 18 | 102-795 | COMPRESSOR - scroll (see 180E1) | 1 |
| 19 | NSS | BOX - control (see 158A3) | 1 |
| 20 | 40-782 | CABLE - compressor | 1 |
| 21 | 40-1044 | SENSOR - kit (ambient) | 1 |
| 22 | 61-2057 | VALVE - digital | 1 |
| 23 | 41-9220 | SENSOR - humidity | 1 |
| 24 | NSS | PANEL - USDA receptacle (see 235G4) | 1 |
| 25 | 40-1044 | SENSOR - kit (return air) | 1 |
| 26 | 51-270 | CONNECTOR - liquid tite | 1 |
| 27 | 41-8722 | SENSOR - air supply | 1 |
| 28 | 91-9754 | SENSOR - pocket | 2 |







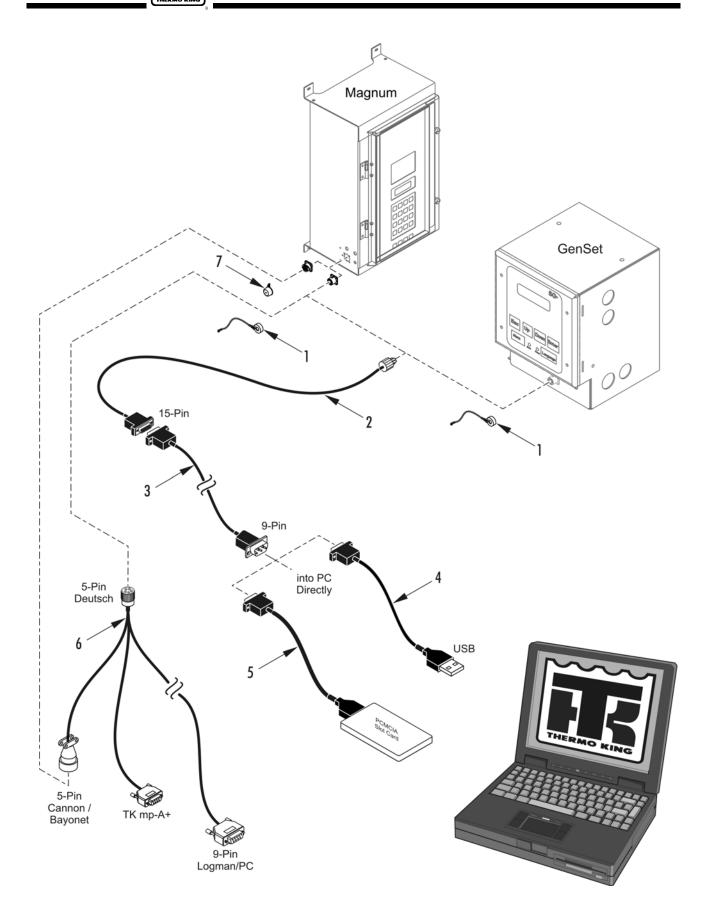
| REF | PART# | DESCRIPTION | QTY |
|-----|---------|---------------------------------|-----|
| 1 | NSS | BASE - control box (MP-4000) | 1 |
| 2 | 55-5900 | CONNECTOR - liquid tite | 5 |
| 3 | 55-5112 | CONNECTOR - liquid tite | 2 |
| 4 | 55-5257 | CONNECTOR - liquid tite | 2 |
| 5 | 41-8763 | • TRANSFORMER | 1 |
| | 51-1419 | • NUT | 4 |
| | 51-1872 | • FLATWASHER | 4 |
| 6 | 92-7635 | • RAIL - din | 1 |
| | 51-1445 | • SCREW | 4 |
| | 55-9485 | • FLATWASHER | 4 |
| 7 | 41-5104 | BREAKER - circuit (25 amp) | 1 |
| 8 | 41-3605 | CONTACTOR (CI 25) | 1 |
| 9 | 41-8719 | MODULE - power (MP-4000) | 1 |
| 10 | 504-843 | BLOCK - terminal (6 pole) | 1 |
| 11 | 41-3596 | BLOCK - terminal (4 pole) | 1 |
| 12 | 41-9286 | • FUSE (20 amp) | 3 |
| 13 | 41-9286 | COVER - fuse | 3 |
| 14 | 51-336 | • SCREW | 10 |
| | 51-1873 | • LOCKWASHER | 10 |
| 15 | NSS | • DOOR - controller (see 235G3) | 1 |
| 16 | 41-8065 | CABLE - data download | 1 |



CONTROL BOX DOOR (MP-4000)



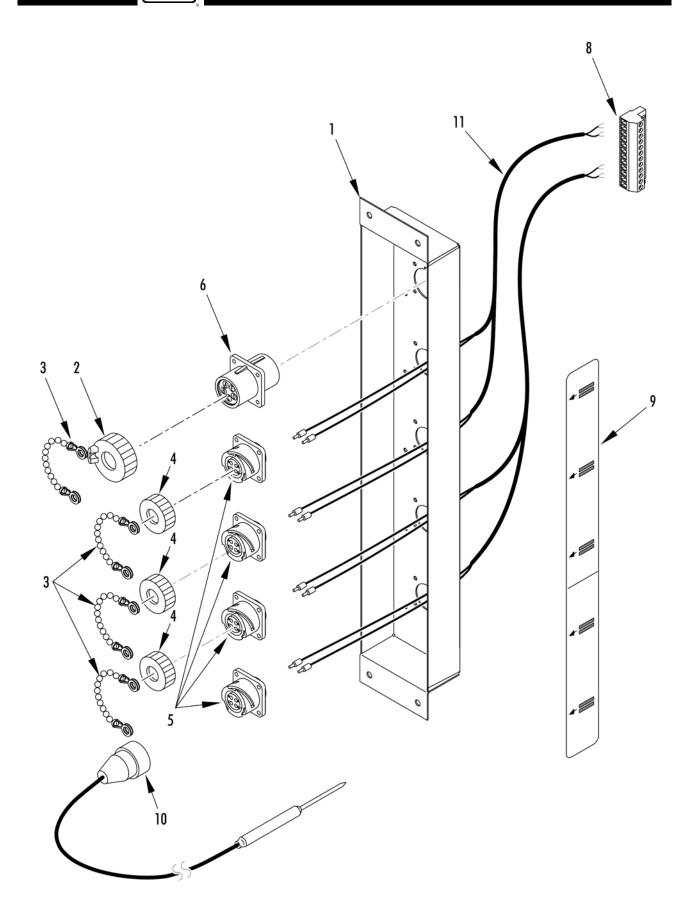
| REF | PART# | DESCRIPTION | QTY |
|-----|---------|---|-----|
| 1 | 41-8723 | DOOR - front (MP-4000, includes keypad and VGA display) | 1 |
| 2 | 33-4502 | GASKET - door | 1 |
| 3 | 51-1844 | HINGE - top | 2 |
| | 51-1874 | SCREW | 6 |
| 4 | 92-7636 | BRACKET - connector | 1 |
| 5 | 92-7637 | BRACKET - washer deutsch plug | 1 |
| | 51-1875 | RIVET (3 X 10 mm) | 4 |
| | 51-1876 | RIVET (3 X 8 mm) | 1 |
| 6 | 92-7638 | BRACKET - cable | 1 |
| 7 | 92-7559 | BRACKET - lock reinforcement | 1 |
| 8 | 51-1843 | PIN - hinge | 2 |
| 9 | 45-2295 | CONTROLLER (MP-4000) | 1 |
| 10 | 41-8718 | MODULE - blank | 2 |
| 11 | 41-8717 | MODULE - battery | 1 |
| 12 | 41-8724 | CABLE - retriever | 1 |
| 13 | 41-2406 | CAP - dust | 1 |
| 14 | 99-3685 | CHAIN - cap | 1 |
| 15 | 41-8716 | CABLE - serial (CM-4000 to PM-4000) | 1 |
| 16 | 41-8715 | CABLE - serial (cargo) | 1 |





| REF | PART# | DESCRIPTION | QTY |
|-----|----------|---|-----|
| 1 | 41-2406 | CAP - dust (5-pin Deutsch) | 1 |
| | 99-3685 | CHAIN - cap | 1 |
| 2 | 204-918 | CABLE - data (5-pin Deutsch to 15-pin D connectors) | 1 |
| | 204-974 | CABLE - data (5-pin Cannon bayonet to 15-pin D connectors) | 1 |
| | 204-975 | CABLE - data (5-pin Cannon threaded to 15-pin D connectors) | 1 |
| 3 | 44-9417 | CABLE - data (15-pin D unit connector, 9-pin D PC connector, 20 ft) | 1 |
| | 44-9418 | CABLE - data (15-pin D unit connector, 9-pin D PC connector, 50 ft) | 1 |
| 4 | 204-1109 | ADAPTER - 9-pin D PC connector to USB | 1 |
| 5 | N/A | ADAPTER - 9-pin D PC connector to PC card (see service bulletin C061) | 1 |
| 6 | 41-8065 | CABLE - data download | 1 |
| 7 | 41-3588 | CAP - dust (5-pin cannon) | 1 |



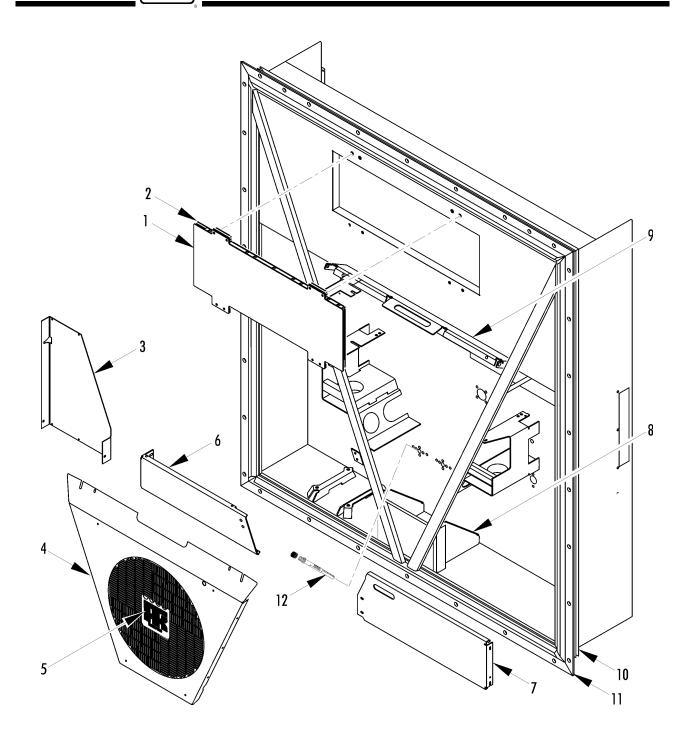


USDA DOWNLOAD PANEL



| REF | PART# | DESCRIPTION | QTY |
|-----|----------|--|-----|
| 1 | 91-8645 | PANEL - USDA receptacle | 1 |
| 2 | 41-2406 | CAP - dust | 1 |
| | 92-206 | CAP - dust (rubber) | 1 |
| 3 | 99-3685 | CHAIN - cap | 5 |
| 4 | 41-890 | CAP - dust | 4 |
| | 55-9323 | RIVET - cap | 4 |
| 5 | 304-2772 | RECEPTACLE (3 pin) | 4 |
| | 55-2270 | RIVET - receptacle | 16 |
| | 55-7830 | FLATWASHER | 16 |
| 6 | 41-2405 | CONNECTOR - receptacle (5 pin) | 1 |
| | 55-2270 | RIVET - receptacle | 4 |
| | 55-7697 | FLATWASHER | 4 |
| 8 | 41-3585 | CONNECTOR - plug (12 pin) | 1 |
| 9 | 92-5392 | NAMEPLATE - data download USDA | 1 |
| 10 | 41-8188 | SENSOR - thermistor (3 pin Deutsch, 14 m NTC, USDA) | 4 |
| | 41-8188 | SENSOR - thermistor (2.5 dia probe, 3 pin Deutsch, 14 m NTC, USDA) | 1 |
| 11 | 41-7183 | CABLE -NTC | 2 |

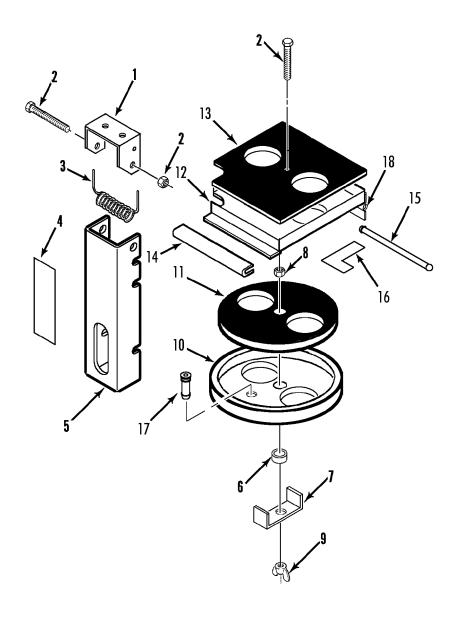




CONDENSER COMPONENTS



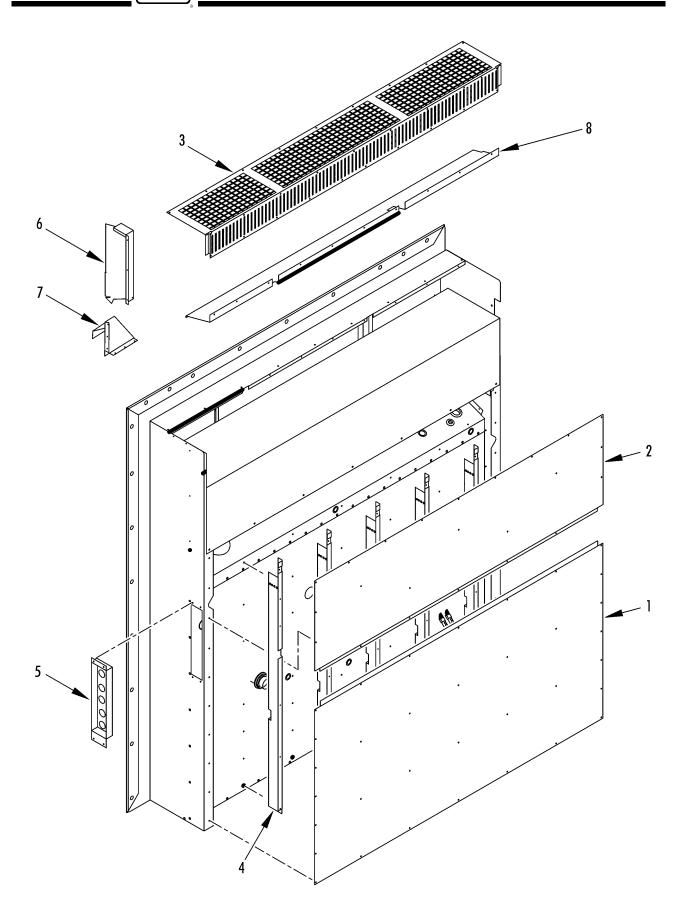
| REF | PART# | DESCRIPTION | QTY |
|-----|---------|---|-----|
| 1 | 98-7691 | DOOR - evaporator (bolt-on door) | 1 |
| | 51-1460 | SCREW - door (M8, TIR seal) | 4 |
| | 51-1430 | FLATWASHER (M8) | 4 |
| | 55-9541 | WASHER (M8, nylon) | 4 |
| | 51-1459 | SCREW - door (M6, TIR seal) | 4 |
| | 51-1464 | FLATWASHER (M6) | 4 |
| | 55-9054 | WASHER (M6, nylon) | 4 |
| 2 | 33-3969 | GASKET - evaporator door | 1 |
| 3 | 91-8728 | COVER (instead of thermometer) | 1 |
| | 51-1467 | SCREW - cover | 3 |
| | 51-1444 | FLATWASHER | 3 |
| 4 | 98-5925 | GRILLE - condenser (see 189C4) | 1 |
| | 33-3043 | GASKET - rubber extrusion | 1 |
| | 51-1445 | SCREW - grille | 4 |
| | 51-1464 | FLATWASHER | 4 |
| | 55-9054 | WASHER (nylon) | 4 |
| 5 | 91-8475 | NAMEPLATE - TK | 1 |
| 6 | 91-8474 | PLATE - guard | 1 |
| | 55-7341 | SCREW - plate | 3 |
| | 51-1464 | FLATWASHER | 6 |
| | 55-9054 | WASHER - insulation | 6 |
| 7 | 98-6560 | PLATE - cable storage (units w/o water cooled cond) | 1 |
| | 51-1425 | NUT | 2 |
| | 55-9054 | WASHER (nylon) | 4 |
| | 51-1464 | FLATWASHER | 4 |
| 8 | 91-8108 | BRACKET - frame | 1 |
| | 51-1442 | SCREW - bracket | 5 |
| | 51-1425 | NUT | 3 |
| | 55-9054 | WASHER (nylon) | 5 |
| | 51-1464 | FLATWASHER | 5 |
| 9 | 92-891 | BRACKET - safety hook | 1 |
| | 51-1443 | SCREW - bracket | 4 |
| | 51-1430 | FLATWASHER | 4 |
| | 55-9541 | WASHER (nylon) | 4 |
| 10 | 33-2983 | GASKET - unit | 1 |
| 11 | 98-8243 | FRAME - condenser | 1 |
| 12 | 91-9754 | POCKET - sensor | 2 |



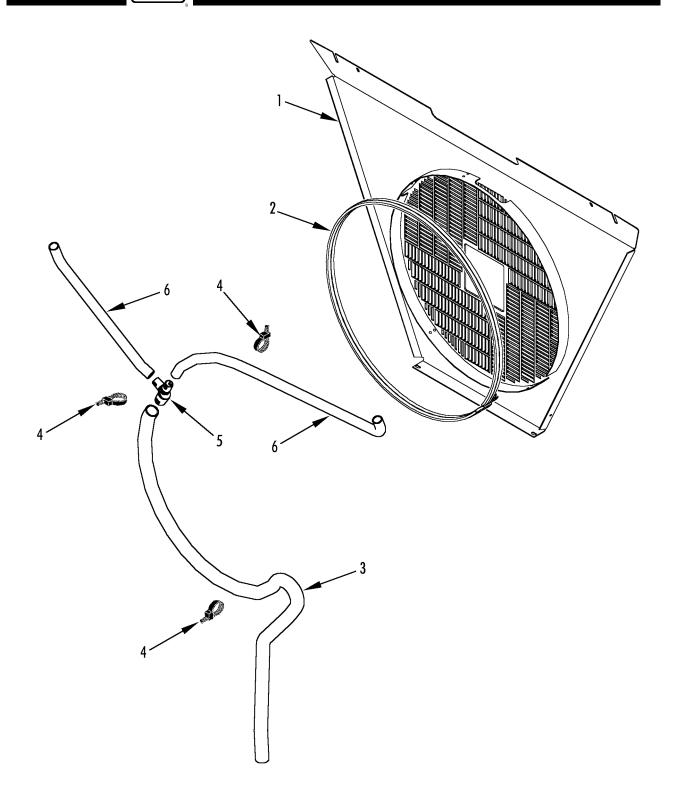
AIR VENT (40 FT CONTAINERS)



| REF | PART# | DESCRIPTION | QTY |
|-----|---------|-----------------------------------|-----|
| | 91-8252 | VENT - air (complete) | 1 |
| 1 | 91-9048 | BRACKET - air vent handle | 1 |
| 2 | 51-1426 | SCREW - handle | 1 |
| | 51-1474 | • SCREW (M8 x 1.25 x 65, ss) | 1 |
| | 55-9541 | WASHER (nylon) | 4 |
| | 51-1427 | • NUT | 1 |
| 3 | 91-8100 | • SPRING | 1 |
| 4 | 92-440 | NAMEPLATE - Do Not Open Below 0 C | 1 |
| 5 | 91-8102 | HANDLE - air vent | 1 |
| 6 | 77-2467 | BEARING - slide | 1 |
| 7 | 91-8104 | BRACKET - handle | 1 |
| 8 | 51-1428 | • NUT | 2 |
| | 51-1429 | • LOCKWASHER | 1 |
| | 51-1430 | • FLATWASHER | 1 |
| 9 | 51-1431 | • NUT - wing | 1 |
| 10 | 91-8103 | DISK - air vent | 1 |
| 11 | 33-4255 | GASKET - air vent | 1 |
| 12 | 91-8105 | PLATE - air vent | 1 |
| | 55-7172 | SCREW - plate | 4 |
| | 55-7075 | • FLATWASHER | 4 |
| | 55-9541 | WASHER (nylon) | 4 |
| 13 | 33-2944 | GASKET - air vent | 1 |
| 14 | 91-8663 | PROTECTOR - edge | 1 |
| 15 | 91-8106 | • PIN - hinge | 1 |
| 16 | 91-8107 | NAMEPLATE - Do Not Open Below 0 C | 1 |
| 17 | 55-9168 | ADAPTER - hose | 1 |
| 18 | 92-411 | HINGE - air vent | 1 |
| | 51-619 | SCREW - vent | 8 |
| | 55-8933 | WASHER - insulator (6.4 id) | 4 |
| | 55-7075 | FLATWASHER | 4 |
| | 55-9054 | WASHER - insulator (8.4 id) | 6 |
| | 55-8893 | FLATWASHER | 6 |
| | 55-7339 | NUT | 6 |



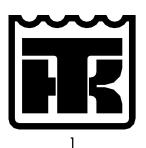
| REF | PART# | DESCRIPTION | QTY |
|-----|---------|-------------------------------------|-----|
| 1 | 98-5773 | PLATE - rear (bottom) | 1 |
| 2 | 98-5772 | PLATE - rear (top) | 1 |
| | 51-336 | SCREW - plate | 23 |
| | 55-9444 | WASHER - insulating | 23 |
| | 55-3136 | RIVET - plate | 29 |
| 3 | 98-8244 | GRILLE - evaporator | 1 |
| | 55-3136 | RIVET - grille | 17 |
| 4 | 92-427 | CHANNEL - Z (100 mm deep) | 5 |
| | 51-621 | RIVET - channel | 39 |
| 5 | NSS | PANEL - USDA receptacle (see 235G4) | 1 |
| 6 | 92-7639 | CHANNEL - air | 1 |
| | 55-9323 | RIVOT | 8 |
| 7 | 91-9330 | INLET - fresh air | 1 |
| | 55-9323 | RIVET - inlet | 10 |
| 8 | 92-7640 | CHANNEL - fresh air | 1 |
| | 55-9323 | RIVET - channel | 8 |





| REF | PART# | DESCRIPTION | QTY |
|-----|---------|--|-----|
| 1 | 98-5925 | GRILLE - condenser (see 189C2) | 1 |
| 2 | 33-3043 | GASKET - grille (extrusion) | 1 |
| 3 | 11-9734 | HOSE - drain (29 mm id, cut as required) | A/R |
| 4 | 55-2330 | BANDWRAP | A/R |
| 5 | 11-9735 | TEE - drain hose | 1 |
| 6 | 11-9576 | HOSE - drain (21 mm id, cut as required) | A/R |







THERMO KING

WARNING **Hot Components**

Compressor discharge may be hot!



COMPRESSOR FILLED WITH ESTER OIL PART No: 203-433

4

WARNING **FANS START AUTOMATICALLY**

5



WARNING!

TURN POWER OFF **BEFORE DISCONNECTING DATALOGGER OR** CONTROLLER.

8

°C °F --+80 -+75 -+70 -+60 -+50 -+40 -+35 -+30+32 --+25 -+20 — + **1**5 -+10 ---+5 --5 ----15

7

■ DATA DOWNLOAD PORT

USDA #1/



CONSULT MAINTENANCE MANUAL FOR PRECAUTIONS BEFORE WELDING ON CONTAINER OR REFRIGERATION UNIT.

- Disconnect all power to the refrigeration unit.
- Disconnect all quick-disconnect wire harnesses
- Switch all of the electrical circuit breakers in the control box to the OFF position.
- Weld unit and/or container per normal welding procedures. Keep ground return electrode as close to the area to be welded as practical. This will reduce the likelihood of stray welding currents passing through any electrical or electronic circuits.
- When the wedge peration is completed, the unit power cables, wiring and circuit breakers must be restored to their normal condition.

10

TRANSFRESH DATA CONNECTOR ΑЗ

TRANSFRESH **SCRUBBER** CONNECTOR A 5

11

WARNING

12 **AWARNUNG** ADVERTENCIA

Vergewissem Sie sich, dass der Container vor dem Eintreten belüftet ist, um Sauerstoffmangel auszuschließen! Make sure container is vented before entering, may contain ow oxygen condition. ⚠ 주의 ▲ 警告 ▲ 警告

들어가기전에 콘테이너에 통 풍이 되여있는지 확인하십시 오. 저산소 상태가 발생할 수 있습니다.

誇務必在進入之前對容 器進行遊風。 可能存在低氧狀況

14

入る前にコンテナーに通気し たかどうか確認して下さい。 低酸素状態になるかもし れません。

WARNING 🗘

Do Not Operate Scroll Compressor with Service or Receiver Tank Valves Closed. Compressor Damage Will Occur.

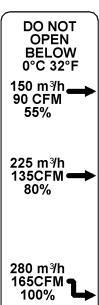
13

USDA #2/

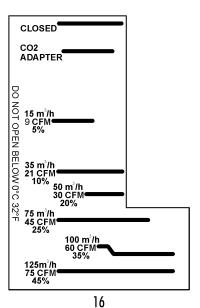
USDA #3/ SPARE 3

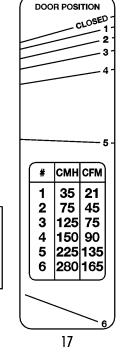
PULP/ SPARE 5

9



15





HOT COMPONENTS Compressor Discharge may be hot. Do not operate compressor with service valves closed.

18

Compressor damage will occur

| REF | PART# | DESCRIPTION | QTY |
|-----|---------|--|-----|
| 1 | 91-8475 | NAMEPLATE - TK (crest) | 1 |
| 2 | 92-4305 | NAMEPLATE - IR logo (red/black) | 1 |
| 3 | 91-9778 | NAMEPLATE - Thermo King | 1 |
| 4 | 91-8154 | NAMEPLATE - R404A | 1 |
| 5 | 91-8694 | NAMEPLATE - Warning, Fan Start | 1 |
| 6 | 91-8695 | NAMEPLATE - Warning, Hot Components | 1 |
| 7 | 91-5635 | NAMEPLATE - Temperature Conversion | 1 |
| 8 | 91-9382 | NAMEPLATE - Warning | 1 |
| 9 | 92-243 | NAMEPLATE - USDA Connections | 1 |
| | 92-5392 | NAMEPLATE - USDA Connections | 1 |
| 10 | 92-1218 | NAMEPLATE - Weld | 1 |
| 11 | 91-8697 | NAMEPLATE - Data A3 | 1 |
| 12 | 91-8696 | NAMEPLATE - Scrubber A5 | 1 |
| 13 | 91-9596 | NAMEPLATE - Warning, Scroll Compressor | 1 |
| 14 | 92-2585 | NAMEPLATE - Warning, Low Oxygen | 1 |
| 15 | 92-440 | NAMEPLATE - Air Vent Handle | 1 |
| 16 | 91-9831 | NAMEPLATE - Air Vent Door | 1 |
| 17 | 92-2586 | NAMEPLATE - AFAM Door Position | 1 |
| 18 | 92-4724 | NAMEPLATE - Warning English | 1 |

| 400 705 | 10 10 10 | 44 0400 | 00 | 54 4074 | 40 |
|----------|------------|--------------------|------------------|---------|-------------------|
| 102-795 | 12, 16, 18 | 41-8188 | 26 | 51-1871 | 12 |
| 104-691 | 8, 18 | 41-8715 | 22 | 51-1872 | 20 |
| 104-759 | 6, 18 | 41-8716 | 22 | 51-1873 | 20 |
| 11-4367 | 8 | 41-8717 | 22 | 51-1874 | 22 |
| 11-9576 | 34 | 41-8718 | 22 | 51-1875 | 22 |
| 11-9734 | 34 | 41-8719 | 20 | 51-1876 | 22 |
| 11-9735 | 34 | 41-8722 | 18 | 51-2033 | 16 |
| 203-393 | 16 | 41-8723 | 22 | 51-270 | 8, 18 |
| 203-516 | 16 | 41-8724 | 22 | 51-273 | 12 |
| 204-1109 | 24 | 41-8763 | 20 | 51-336 | 20, 32 |
| 204-918 | 24 | 41-890 | 26 | 51-358 | 16 |
| 204-974 | 24 | 41-9220 | 8, 18 | 51-619 | 8, 30 |
| 204-975 | 24 | 41-9286 | 20 | 51-621 | 32 |
| 304-2772 | 26 | 41-9490 | 10 | 55-2270 | 26 |
| 33 4501 | 14 | 44-9417 | 24 | 55-2296 | 14 |
| 33-2805 | 16 | 44-9418 | 24 | 55-2330 | 34 |
| 33-2944 | 30 | 44-9891 | 18 | 55-302 | 12 |
| 33-2946 | 8 | 45-1908 | 18 | 55-3136 | 32 |
| 33-2950 | 6 | 45-1927 | 18 | 55-3251 | 12 |
| 33-2951 | 16 | | 18 | 55-3364 | 16 |
| | | 45-1992 | | | |
| 33-2979 | 16 | 45-2272 | 18 | 55-5112 | 20 |
| 33-2983 | 28 | 45-2295 | 22 | 55-5257 | 20 |
| 33-3007 | 12 | 504-843 | 20 | 55-5900 | 6, 8, 20 |
| 33-3043 | 28, 34 | 504-919 | 14 | 55-6730 | 12 |
| 33-367 | 6, 8 | 506-364 | 12 | 55-7075 | 30 |
| 33-3912 | 12 | 51-1419 | 20 | 55-7172 | 30 |
| 33-3917 | 8 | 51-1421 | 12 | 55-7339 | 30 |
| 33-3929 | 8 | 51-1422 | 8 | 55-7341 | 28 |
| 33-3969 | 28 | 51-1425 | 12, 14, 28 | 55-7697 | 26 |
| 33-4255 | 30 | 51-1426 | 30 | 55-7830 | 26 |
| 33-4499 | 14 | 51-1427 | 6, 8, 30 | 55-8893 | 30 |
| 33-4500 | 14 | 51-1428 | 30 | 55-8915 | 12 |
| 33-4502 | 22 | 51-1429 | 6, 8, 16, 30 | 55-8933 | 30 |
| 33-566 | 14 | 51-1430 | 28, 30 | 55-8950 | 14 |
| 33-727 | 16 | 51-1431 | 30 | 55-8951 | 14 |
| 40-1044 | 8, 18 | 51-1432 | 16 | 55-8994 | 16 |
| 40-692 | 18 | 51-1433 | 16 | 55-8995 | 16 |
| 40-776 | 16 | 51-1434 | 16 | 55-9012 | 16 |
| 40-779 | 16 | 51-1435 | 16 | 55-9013 | 16 |
| 40-782 | 16, 18 | 51-1436 | 16 | 55-9027 | 12 |
| 41-1976 | 18 | 51-1437 | 16 | 55-9054 | 6, 12, 18, 28, 30 |
| 41-2405 | 26 | 51-1438 | 16 | 55-9162 | 8 |
| 41-2406 | 22, 24, 26 | 51-1441 | 8, 12, 18 | 55-9168 | 30 |
| 41-2953 | 6, 18 | 51-1442 | 6, 8, 12, 14, 28 | 55-9217 | 8 |
| 41-3409 | 8 | 51-1443 | 6, 28 | 55-9323 | 26, 32 |
| 41-3585 | 26 | 51-1444 | 6, 8, 28 | 55-9444 | 32 |
| 41-3588 | 24 | 51-1445 | 18, 20, 28 | 55-9485 | 20 |
| 41-3596 | 20 | 51-1446 | 18 | 55-9541 | 28, 30 |
| 41-3605 | 20 | | 8, 18 | 55-9698 | 8 |
| 41-3685 | 8, 18 | 51-1447 51-1450 | 28 | 60-285 | |
| | | 51-1459 | | | 6, 12 |
| 41-4004 | 14, 16, 18 | 51-1460 51-1461 | 28 | 61-1847 | 14 |
| 41-4300 | 18 | 51-1461 | 8 | 61-2048 | 14 |
| 41-4473 | 14, 18 | 51-1464 | 12, 28 | 61-2049 | 14 |
| 41-5104 | 20 | 51-1467 | 28 | 61-2050 | 14 |
| 41-5460 | 14, 18 | 51-1474 | 30 | 61-2051 | 14 |
| 41-7143 | 8 | 51-1843 | 22 | 61-2057 | 14, 18 |
| 41-7183 | 26 | 51-1844 | 22 | 61-2118 | 16 |
| 41-7937 | 14 | 51-1869 | 8 | 61-2119 | 16 |
| 41-8065 | 20, 24 | 51-1870 | 10 | 61-2162 | 12 |
| | | | | | |

| 04 0000 | 40 | 04 0007 | |
|---------|--------|---------|------------|
| 61-2238 | 12 | 91-8697 | 36 |
| 61-2465 | 14 | 91-8728 | 28 |
| 61-2466 | 14 | 91-9021 | 16 |
| 61-2467 | 12 | 91-9048 | 30 |
| | | | |
| 61-2468 | 14 | 91-9328 | 8 |
| 61-2469 | 14 | 91-9330 | 32 |
| 61-2470 | 12, 18 | 91-9382 | 36 |
| | | | |
| 61-2471 | 12 | 91-9596 | 36 |
| 61-2472 | 12 | 91-9754 | 18, 28 |
| 61-2474 | 14 | 91-9778 | 36 |
| 61-2476 | 14 | 91-9831 | 36 |
| | | | |
| 61-2477 | 12 | 92-1218 | 36 |
| 61-2569 | 12 | 92-206 | 26 |
| 61-3502 | 14 | 92-2229 | 12 |
| 61-3503 | 12 | 92-2332 | 8 |
| | | | |
| 61-3506 | 12 | 92-243 | 36 |
| 61-3508 | 12 | 92-2585 | 36 |
| 61-443 | 14 | 92-2586 | 36 |
| | | | |
| 61-786 | 12 | 92-2775 | 8 |
| 66-6607 | 14, 16 | 92-2779 | 8 |
| 66-6610 | 16 | 92-3391 | 14 |
| 66-7182 | 16 | 92-3547 | 12 |
| | | | |
| 66-7183 | 14, 16 | 92-3550 | 14 |
| 66-7812 | 12, 16 | 92-411 | 30 |
| 66-8054 | 14, 16 | 92-427 | 32 |
| 66-8811 | 12 | 92-4305 | 36 |
| | | | |
| 66-9842 | 16 | 92-440 | 30, 36 |
| 66-9906 | 14 | 92-458 | 8 |
| 67-1889 | 12 | 92-4724 | 36 |
| 67-1923 | 14 | 92-5392 | 26, 36 |
| | | | |
| 67-1991 | 12 | 92-5546 | 18 |
| 77-2467 | 30 | 92-7559 | 22 |
| 78-1683 | 8 | 92-7635 | 20 |
| 78-1684 | 6 | 92-7636 | 22 |
| | | | |
| 78-1737 | 8 | 92-7637 | 22 |
| 91-1800 | 14 | 92-7638 | 22 |
| 91-5635 | 36 | 92-7639 | 32 |
| 91-758 | 12 | 92-7640 | 32 |
| | | | |
| 91-8100 | 30 | 92-891 | 28 |
| 91-8102 | 30 | 98-5772 | 32 |
| 91-8103 | 30 | 98-5773 | 32 |
| 91-8104 | 30 | 98-5925 | 28, 34 |
| | | | • |
| 91-8105 | 30 | 98-6560 | 28 |
| 91-8106 | 30 | 98-7691 | 28 |
| 91-8107 | 30 | 98-8242 | 8 |
| 91-8108 | 28 | 98-8243 | 28 |
| | | | 32 |
| 91-8140 | 18 | 98-8244 | |
| 91-8142 | 18 | 99-3685 | 22, 24, 26 |
| 91-8154 | 36 | | |
| 91-8252 | 30 | | |
| 91-8466 | 8 | | |
| | | | |
| 91-8467 | 18 | | |
| 91-8474 | 28 | | |
| 91-8475 | 28, 36 | | |
| 91-8645 | 26 | | |
| | | | |
| 91-8663 | 30 | | |
| 91-8694 | 36 | | |
| 91-8695 | 36 | | |
| 91-8696 | 36 | | |
| | - * | | |

| Α | CONNECTOR - receptacle 26 | 1 |
|--|---|---|
| ADAPTER 14 | CONTACTOR 20 | INDICATOR - liquid 12 |
| ADAPTER - 9-pin D PC connector to | CONTROLLER 22 | INLET - fresh air 32 |
| PC card 24 | COVER 28 | INSERT 8 |
| ADAPTER - 9-pin D PC connector to | COVER - fuse 20 | INSULATION - heat exchanger 12 |
| USB 24 | COVER - terminal box 16 | INSULATION - mylar 14 |
| ADAPTER - compressor 12 | COVER - tube 8 | INSULATION - tube 14 |
| ADAPTER - high side 16 | D | |
| ADAPTER - hose 30 | | K |
| Б. | DEHYDRATOR 12 | KIT - Cable Splice 18 |
| В | DISK - air vent 30 | KIT - gasket & grease 16 |
| BANDWRAP 34 | DOOR - controller 20 | KIT - power cord 16 |
| BASE - control box 20 | DOOR - evaporator 28 DOOR - front 22 | KIT - thermistor 16 |
| BEARING - slide 30 | DOOK - HOHE 22 | L |
| BLOCK - coil 8 | E | |
| BLOCK - terminal 20 | ELBOW - low side 16 | LOCKWASHER 6 , 8 , 16 , 18 , 20 , 30 |
| BOX - control 18 | LLBOW - low side 10 | М |
| BRACKET - air vent handle 30 | F | |
| BRACKET - cable 22 BRACKET - cable restraint 18 | FAN - condenser 6 | MODULE - battery 22 |
| | FAN - evaporator 8 | MODULE - blank 22 |
| BRACKET - connector 22 BRACKET - frame 28 | FILTER - gas sensor 8 | MODULE - power 20 |
| BRACKET - handle 30 | FITTING - highside 16 | MOTOR - condenser fan 6, 18 MOTOR - evaporator fan 18 |
| BRACKET - heat exchanger 14 | FITTING - low side 14, 16 | MOTOR - evaporator fari 16 |
| BRACKET - heater 18 | FLATWASHER 6, 8, 12, 16, 18, 20, | WOTOR - Ian 6 |
| BRACKET - lock reinforcement 22 | 26, 28, 30 | N |
| BRACKET - motor 8 | FLATWASHER - clamp 12 | NAMEPLATE - AFAM Door Position 36 |
| BRACKET - safety hook 28 | FLATWASHER - dehydrator 12 | NAMEPLATE - Air Vent Door 36 |
| BRACKET - washer deutsch plug 22 | FRAME - condenser 28 | NAMEPLATE - Air Vent Handle 36 |
| BREAKER - circuit 20 | FUSE 20 | NAMEPLATE - Data A3 36 |
| | | |
| | | |
| C | G | NAMEPLATE - data download USDA 26 |
| | GASKET 6 | NAMEPLATE - data download USDA |
| С | GASKET 6 GASKET - air vent 30 | NAMEPLATE - data download USDA 26 |
| C CABLE 18 | GASKET 6 GASKET - air vent 30 GASKET - door 22 | NAMEPLATE - data download USDA 26 NAMEPLATE - Do Not Open Below 0 C |
| C CABLE 18 CABLE - compressor 18 | GASKET 6 GASKET - air vent 30 GASKET - door 22 GASKET - evaporator door 28 | NAMEPLATE - data download USDA 26 NAMEPLATE - Do Not Open Below 0 C 30 |
| C CABLE 18 CABLE - compressor 18 CABLE - data 24 CABLE - data download 20, 24 CABLE - power 18 | GASKET 6 GASKET - air vent 30 GASKET - door 22 GASKET - evaporator door 28 GASKET - flange 16 | NAMEPLATE - data download USDA 26 NAMEPLATE - Do Not Open Below 0 C 30 NAMEPLATE - IR logo 36 NAMEPLATE - R404A 36 NAMEPLATE - Scrubber A5 36 |
| C CABLE 18 CABLE - compressor 18 CABLE - data 24 CABLE - data download 20, 24 CABLE - power 18 CABLE - retriever 22 | GASKET 6 GASKET - air vent 30 GASKET - door 22 GASKET - evaporator door 28 GASKET - flange 16 GASKET - grille 34 | NAMEPLATE - data download USDA 26 NAMEPLATE - Do Not Open Below 0 C 30 NAMEPLATE - IR logo 36 NAMEPLATE - R404A 36 NAMEPLATE - Scrubber A5 36 NAMEPLATE - Temperature |
| C CABLE 18 CABLE - compressor 18 CABLE - data 24 CABLE - data download 20, 24 CABLE - power 18 CABLE - retriever 22 CABLE - serial 22 | GASKET 6 GASKET - air vent 30 GASKET - door 22 GASKET - evaporator door 28 GASKET - flange 16 GASKET - grille 34 GASKET - power connector 16 | NAMEPLATE - data download USDA 26 NAMEPLATE - Do Not Open Below 0 C 30 NAMEPLATE - IR logo 36 NAMEPLATE - R404A 36 NAMEPLATE - Scrubber A5 36 NAMEPLATE - Temperature Conversion 36 |
| C CABLE 18 CABLE - compressor 18 CABLE - data 24 CABLE - data download 20, 24 CABLE - power 18 CABLE - retriever 22 CABLE - serial 22 CABLE - NTC 26 | GASKET 6 GASKET - air vent 30 GASKET - door 22 GASKET - evaporator door 28 GASKET - flange 16 GASKET - grille 34 GASKET - power connector 16 GASKET - rubber extrusion 28 | NAMEPLATE - data download USDA 26 NAMEPLATE - Do Not Open Below 0 C 30 NAMEPLATE - IR logo 36 NAMEPLATE - R404A 36 NAMEPLATE - Scrubber A5 36 NAMEPLATE - Temperature Conversion 36 NAMEPLATE - Thermo King 36 |
| C CABLE 18 CABLE - compressor 18 CABLE - data 24 CABLE - data download 20, 24 CABLE - power 18 CABLE - retriever 22 CABLE - serial 22 CABLE - NTC 26 CAP - charge port 14 | GASKET 6 GASKET - air vent 30 GASKET - door 22 GASKET - evaporator door 28 GASKET - flange 16 GASKET - grille 34 GASKET - power connector 16 GASKET - rubber extrusion 28 GASKET - unit 28 | NAMEPLATE - data download USDA 26 NAMEPLATE - Do Not Open Below 0 C 30 NAMEPLATE - IR logo 36 NAMEPLATE - R404A 36 NAMEPLATE - Scrubber A5 36 NAMEPLATE - Temperature Conversion 36 NAMEPLATE - Thermo King 36 NAMEPLATE - TK 28, 36 |
| C CABLE 18 CABLE - compressor 18 CABLE - data 24 CABLE - data download 20, 24 CABLE - power 18 CABLE - retriever 22 CABLE - serial 22 CABLE - NTC 26 CAP - charge port 14 CAP - dust 22, 24, 26 | GASKET 6 GASKET - air vent 30 GASKET - door 22 GASKET - evaporator door 28 GASKET - flange 16 GASKET - grille 34 GASKET - power connector 16 GASKET - rubber extrusion 28 GASKET - unit 28 GRILLE - condenser 28, 34 | NAMEPLATE - data download USDA 26 NAMEPLATE - Do Not Open Below 0 C 30 NAMEPLATE - IR logo 36 NAMEPLATE - R404A 36 NAMEPLATE - Scrubber A5 36 NAMEPLATE - Temperature Conversion 36 NAMEPLATE - Thermo King 36 NAMEPLATE - TK 28, 36 NAMEPLATE - USDA Connections 36 |
| C CABLE 18 CABLE - compressor 18 CABLE - data 24 CABLE - data download 20, 24 CABLE - power 18 CABLE - retriever 22 CABLE - serial 22 CABLE - NTC 26 CAP - charge port 14 CAP - dust 22, 24, 26 CAP - fitting 12, 16 | GASKET 6 GASKET - air vent 30 GASKET - door 22 GASKET - evaporator door 28 GASKET - flange 16 GASKET - grille 34 GASKET - power connector 16 GASKET - rubber extrusion 28 GASKET - unit 28 GRILLE - condenser 28, 34 GRILLE - evaporator 32 | NAMEPLATE - data download USDA 26 NAMEPLATE - Do Not Open Below 0 C 30 NAMEPLATE - IR logo 36 NAMEPLATE - R404A 36 NAMEPLATE - Scrubber A5 36 NAMEPLATE - Temperature Conversion 36 NAMEPLATE - Thermo King 36 NAMEPLATE - TK 28, 36 NAMEPLATE - USDA Connections 36 NAMEPLATE - Warning 36 |
| C CABLE 18 CABLE - compressor 18 CABLE - data 24 CABLE - data download 20, 24 CABLE - power 18 CABLE - retriever 22 CABLE - serial 22 CABLE - NTC 26 CAP - charge port 14 CAP - dust 22, 24, 26 CAP - fitting 12, 16 CAP - screw 8 | GASKET 6 GASKET - air vent 30 GASKET - door 22 GASKET - evaporator door 28 GASKET - flange 16 GASKET - grille 34 GASKET - power connector 16 GASKET - rubber extrusion 28 GASKET - unit 28 GRILLE - condenser 28, 34 GRILLE - evaporator 32 GRIP - cable 6 | NAMEPLATE - data download USDA 26 NAMEPLATE - Do Not Open Below 0 C 30 NAMEPLATE - IR logo 36 NAMEPLATE - R404A 36 NAMEPLATE - Scrubber A5 36 NAMEPLATE - Temperature Conversion 36 NAMEPLATE - Thermo King 36 NAMEPLATE - TK 28, 36 NAMEPLATE - USDA Connections 36 NAMEPLATE - Warning 36 NAMEPLATE - Warning 36 NAMEPLATE - Warning English 36 |
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| C CABLE 18 CABLE - compressor 18 CABLE - data 24 CABLE - data download 20, 24 CABLE - power 18 CABLE - retriever 22 CABLE - serial 22 CABLE - NTC 26 CAP - charge port 14 CAP - dust 22, 24, 26 CAP - fitting 12, 16 CAP - screw 8 CAP - tube 10 CHAIN - cap 22, 24, 26 | GASKET 6 GASKET - air vent 30 GASKET - door 22 GASKET - evaporator door 28 GASKET - flange 16 GASKET - grille 34 GASKET - power connector 16 GASKET - rubber extrusion 28 GASKET - unit 28 GRILLE - condenser 28, 34 GRILLE - evaporator 32 GRIP - cable 6 | NAMEPLATE - data download USDA 26 NAMEPLATE - Do Not Open Below 0 C 30 NAMEPLATE - IR logo 36 NAMEPLATE - R404A 36 NAMEPLATE - Scrubber A5 36 NAMEPLATE - Temperature Conversion 36 NAMEPLATE - Thermo King 36 NAMEPLATE - TK 28, 36 NAMEPLATE - USDA Connections 36 NAMEPLATE - Warning 36 NAMEPLATE - Warning English 36 NAMEPLATE - Warning, Fan Start 36 NAMEPLATE - Warning, Hot |
| C CABLE 18 CABLE - compressor 18 CABLE - data 24 CABLE - data download 20, 24 CABLE - power 18 CABLE - retriever 22 CABLE - serial 22 CABLE - NTC 26 CAP - charge port 14 CAP - dust 22, 24, 26 CAP - fitting 12, 16 CAP - screw 8 CAP - tube 10 CHAIN - cap 22, 24, 26 CHANNEL - air 32 | GASKET 6 GASKET - air vent 30 GASKET - door 22 GASKET - evaporator door 28 GASKET - flange 16 GASKET - grille 34 GASKET - power connector 16 GASKET - rubber extrusion 28 GASKET - unit 28 GRILLE - condenser 28, 34 GRILLE - evaporator 32 GRIP - cable 6 GROMMET 6, 8 | NAMEPLATE - data download USDA 26 NAMEPLATE - Do Not Open Below 0 C 30 NAMEPLATE - IR logo 36 NAMEPLATE - R404A 36 NAMEPLATE - Scrubber A5 36 NAMEPLATE - Temperature Conversion 36 NAMEPLATE - Thermo King 36 NAMEPLATE - TK 28, 36 NAMEPLATE - USDA Connections 36 NAMEPLATE - Warning 36 NAMEPLATE - Warning 36 NAMEPLATE - Warning English 36 NAMEPLATE - Warning, Fan Start 36 NAMEPLATE - Warning, Hot Components 36 |
| C CABLE 18 CABLE - compressor 18 CABLE - data 24 CABLE - data download 20, 24 CABLE - power 18 CABLE - retriever 22 CABLE - serial 22 CABLE - NTC 26 CAP - charge port 14 CAP - dust 22, 24, 26 CAP - fitting 12, 16 CAP - screw 8 CAP - tube 10 CHAIN - cap 22, 24, 26 CHANNEL - air 32 CHANNEL - fresh air 32 | GASKET 6 GASKET - air vent 30 GASKET - door 22 GASKET - evaporator door 28 GASKET - flange 16 GASKET - grille 34 GASKET - power connector 16 GASKET - rubber extrusion 28 GASKET - unit 28 GRILLE - condenser 28, 34 GRILLE - evaporator 32 GRIP - cable 6 GROMMET 6, 8 | NAMEPLATE - data download USDA 26 NAMEPLATE - Do Not Open Below 0 C 30 NAMEPLATE - IR logo 36 NAMEPLATE - R404A 36 NAMEPLATE - Scrubber A5 36 NAMEPLATE - Temperature Conversion 36 NAMEPLATE - Thermo King 36 NAMEPLATE - TK 28, 36 NAMEPLATE - USDA Connections 36 NAMEPLATE - Warning 36 NAMEPLATE - Warning English 36 NAMEPLATE - Warning, Fan Start 36 NAMEPLATE - Warning, Hot Components 36 NAMEPLATE - Warning, Low Oxygen |
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| C CABLE 18 CABLE - compressor 18 CABLE - data 24 CABLE - data download 20, 24 CABLE - power 18 CABLE - retriever 22 CABLE - serial 22 CABLE - serial 22 CABLE - NTC 26 CAP - charge port 14 CAP - dust 22, 24, 26 CAP - fitting 12, 16 CAP - screw 8 CAP - tube 10 CHAIN - cap 22, 24, 26 CHANNEL - air 32 CHANNEL - Fresh air 32 CHANNEL - Z 32 CLAMP - dehydrator 12 | GASKET 6 GASKET - air vent 30 GASKET - door 22 GASKET - evaporator door 28 GASKET - flange 16 GASKET - grille 34 GASKET - power connector 16 GASKET - rubber extrusion 28 GASKET - unit 28 GRILLE - condenser 28, 34 GRILLE - evaporator 32 GRIP - cable 6 GROMMET 6, 8 H HANDLE - air vent 30 HARNESS - condenser fan 6, 18 | NAMEPLATE - data download USDA 26 NAMEPLATE - Do Not Open Below 0 C 30 NAMEPLATE - IR logo 36 NAMEPLATE - R404A 36 NAMEPLATE - Scrubber A5 36 NAMEPLATE - Temperature Conversion 36 NAMEPLATE - Thermo King 36 NAMEPLATE - TK 28, 36 NAMEPLATE - USDA Connections 36 NAMEPLATE - Warning 36 NAMEPLATE - Warning English 36 NAMEPLATE - Warning, Fan Start 36 NAMEPLATE - Warning, Hot Components 36 NAMEPLATE - Warning, Low Oxygen 36 NAMEPLATE - Warning, Scroll |
| C CABLE 18 CABLE - compressor 18 CABLE - data 24 CABLE - data download 20, 24 CABLE - power 18 CABLE - retriever 22 CABLE - serial 22 CABLE - NTC 26 CAP - charge port 14 CAP - dust 22, 24, 26 CAP - fitting 12, 16 CAP - screw 8 CAP - tube 10 CHAIN - cap 22, 24, 26 CHANNEL - air 32 CHANNEL - fresh air 32 CHANNEL - Z 32 CLAMP - dehydrator 12 CLAMP - tube 12, 14 | GASKET 6 GASKET - air vent 30 GASKET - door 22 GASKET - evaporator door 28 GASKET - flange 16 GASKET - grille 34 GASKET - power connector 16 GASKET - rubber extrusion 28 GASKET - rubber extrusion 28 GASKET - unit 28 GRILLE - condenser 28, 34 GRILLE - evaporator 32 GRIP - cable 6 GROMMET 6, 8 H HANDLE - air vent 30 HARNESS - condenser fan 6, 18 HARNESS - evaporator 18 | NAMEPLATE - data download USDA 26 NAMEPLATE - Do Not Open Below 0 C 30 NAMEPLATE - IR logo 36 NAMEPLATE - R404A 36 NAMEPLATE - Scrubber A5 36 NAMEPLATE - Temperature Conversion 36 NAMEPLATE - Thermo King 36 NAMEPLATE - TK 28, 36 NAMEPLATE - USDA Connections 36 NAMEPLATE - Warning 36 NAMEPLATE - Warning English 36 NAMEPLATE - Warning, Fan Start 36 NAMEPLATE - Warning, Hot Components 36 NAMEPLATE - Warning, Low Oxygen 36 NAMEPLATE - Warning, Scroll Compressor 36 |
| C CABLE 18 CABLE - compressor 18 CABLE - data 24 CABLE - data download 20, 24 CABLE - power 18 CABLE - retriever 22 CABLE - serial 22 CABLE - serial 22 CABLE - NTC 26 CAP - charge port 14 CAP - dust 22, 24, 26 CAP - fitting 12, 16 CAP - screw 8 CAP - tube 10 CHAIN - cap 22, 24, 26 CHANNEL - air 32 CHANNEL - Fresh air 32 CHANNEL - Z 32 CLAMP - dehydrator 12 CLAMP - tube 12, 14 COIL 14 | GASKET 6 GASKET - air vent 30 GASKET - door 22 GASKET - evaporator door 28 GASKET - flange 16 GASKET - grille 34 GASKET - power connector 16 GASKET - rubber extrusion 28 GASKET - rubber extrusion 28 GASKET - unit 28 GRILLE - condenser 28, 34 GRILLE - evaporator 32 GRIP - cable 6 GROMMET 6, 8 H HANDLE - air vent 30 HARNESS - condenser fan 6, 18 HARNESS - evaporator 18 HARNESS - evaporator fan 8 | NAMEPLATE - data download USDA 26 NAMEPLATE - Do Not Open Below 0 C 30 NAMEPLATE - IR logo 36 NAMEPLATE - R404A 36 NAMEPLATE - Scrubber A5 36 NAMEPLATE - Temperature Conversion 36 NAMEPLATE - Thermo King 36 NAMEPLATE - TK 28, 36 NAMEPLATE - USDA Connections 36 NAMEPLATE - Warning 36 NAMEPLATE - Warning English 36 NAMEPLATE - Warning, Fan Start 36 NAMEPLATE - Warning, Hot Components 36 NAMEPLATE - Warning, Low Oxygen 36 NAMEPLATE - Warning, Scroll Compressor 36 NAMEPLATE - Weld 36 |
| C CABLE 18 CABLE - compressor 18 CABLE - data 24 CABLE - data download 20, 24 CABLE - power 18 CABLE - retriever 22 CABLE - serial 22 CABLE - NTC 26 CAP - charge port 14 CAP - dust 22, 24, 26 CAP - fitting 12, 16 CAP - screw 8 CAP - tube 10 CHAIN - cap 22, 24, 26 CHANNEL - air 32 CHANNEL - fresh air 32 CHANNEL - Z 32 CLAMP - dehydrator 12 CLAMP - tube 12, 14 | GASKET 6 GASKET - air vent 30 GASKET - door 22 GASKET - evaporator door 28 GASKET - flange 16 GASKET - grille 34 GASKET - power connector 16 GASKET - rubber extrusion 28 GASKET - rubber extrusion 28 GASKET - unit 28 GRILLE - condenser 28, 34 GRILLE - evaporator 32 GRIP - cable 6 GROMMET 6, 8 H HANDLE - air vent 30 HARNESS - condenser fan 6, 18 HARNESS - evaporator 18 HARNESS - evaporator fan 8 HEAT EXCHANGER - economizer 12 HEATER 18 HINGE - air vent 30 | NAMEPLATE - data download USDA 26 NAMEPLATE - Do Not Open Below 0 C 30 NAMEPLATE - IR logo 36 NAMEPLATE - R404A 36 NAMEPLATE - Scrubber A5 36 NAMEPLATE - Temperature Conversion 36 NAMEPLATE - Thermo King 36 NAMEPLATE - TK 28, 36 NAMEPLATE - USDA Connections 36 NAMEPLATE - Warning 36 NAMEPLATE - Warning English 36 NAMEPLATE - Warning, Fan Start 36 NAMEPLATE - Warning, Hot Components 36 NAMEPLATE - Warning, Low Oxygen 36 NAMEPLATE - Warning, Scroll Compressor 36 |
| C CABLE 18 CABLE - compressor 18 CABLE - data 24 CABLE - data download 20, 24 CABLE - power 18 CABLE - retriever 22 CABLE - serial 22 CABLE - serial 22 CABLE - NTC 26 CAP - charge port 14 CAP - dust 22, 24, 26 CAP - fitting 12, 16 CAP - screw 8 CAP - tube 10 CHAIN - cap 22, 24, 26 CHANNEL - air 32 CHANNEL - fresh air 32 CHANNEL - Z 32 CLAMP - dehydrator 12 CLAMP - tube 12, 14 COIL 14 COIL - condenser 6, 12 | GASKET 6 GASKET - air vent 30 GASKET - door 22 GASKET - evaporator door 28 GASKET - flange 16 GASKET - grille 34 GASKET - power connector 16 GASKET - rubber extrusion 28 GASKET - rubber extrusion 28 GASKET - unit 28 GRILLE - condenser 28, 34 GRILLE - evaporator 32 GRIP - cable 6 GROMMET 6, 8 H HANDLE - air vent 30 HARNESS - condenser fan 6, 18 HARNESS - evaporator 18 HARNESS - evaporator fan 8 HEAT EXCHANGER - economizer 12 HEATER 18 HINGE - air vent 30 HINGE - top 22 | NAMEPLATE - data download USDA 26 NAMEPLATE - Do Not Open Below 0 C 30 NAMEPLATE - IR logo 36 NAMEPLATE - R404A 36 NAMEPLATE - Scrubber A5 36 NAMEPLATE - Temperature Conversion 36 NAMEPLATE - Thermo King 36 NAMEPLATE - TK 28, 36 NAMEPLATE - USDA Connections 36 NAMEPLATE - Warning 36 NAMEPLATE - Warning English 36 NAMEPLATE - Warning, Fan Start 36 NAMEPLATE - Warning, Hot Components 36 NAMEPLATE - Warning, Low Oxygen 36 NAMEPLATE - Warning, Scroll Compressor 36 NAMEPLATE - Weld 36 NUT 6, 8, 12, 14, 16, 20, 28, 30 NUT - adapter 12 |
| C CABLE 18 CABLE - compressor 18 CABLE - data 24 CABLE - data download 20, 24 CABLE - power 18 CABLE - retriever 22 CABLE - serial 22 CABLE - serial 22 CABLE - NTC 26 CAP - charge port 14 CAP - dust 22, 24, 26 CAP - fitting 12, 16 CAP - screw 8 CAP - tube 10 CHAIN - cap 22, 24, 26 CHANNEL - air 32 CHANNEL - fresh air 32 CHANNEL - Z 32 CLAMP - dehydrator 12 CLAMP - tube 12, 14 COIL 14 COIL - condenser 6, 12 COIL - evaporator 8, 14 | GASKET 6 GASKET - air vent 30 GASKET - door 22 GASKET - evaporator door 28 GASKET - flange 16 GASKET - grille 34 GASKET - power connector 16 GASKET - rubber extrusion 28 GASKET - rubber extrusion 28 GASKET - unit 28 GRILLE - condenser 28, 34 GRILLE - evaporator 32 GRIP - cable 6 GROMMET 6, 8 H HANDLE - air vent 30 HARNESS - condenser fan 6, 18 HARNESS - evaporator 18 HARNESS - evaporator fan 8 HEAT EXCHANGER - economizer 12 HEATER 18 HINGE - air vent 30 HINGE - top 22 HOSE - drain 34 | NAMEPLATE - data download USDA 26 NAMEPLATE - Do Not Open Below 0 C 30 NAMEPLATE - IR logo 36 NAMEPLATE - R404A 36 NAMEPLATE - Scrubber A5 36 NAMEPLATE - Temperature Conversion 36 NAMEPLATE - Thermo King 36 NAMEPLATE - TK 28, 36 NAMEPLATE - USDA Connections 36 NAMEPLATE - Warning 36 NAMEPLATE - Warning English 36 NAMEPLATE - Warning, Fan Start 36 NAMEPLATE - Warning, Hot Components 36 NAMEPLATE - Warning, Low Oxygen 36 NAMEPLATE - Warning, Scroll Compressor 36 NAMEPLATE - Weld 36 NUT 6, 8, 12, 14, 16, 20, 28, 30 |
| C CABLE 18 CABLE - compressor 18 CABLE - data 24 CABLE - data download 20, 24 CABLE - power 18 CABLE - retriever 22 CABLE - serial 22 CABLE - serial 22 CABLE - NTC 26 CAP - charge port 14 CAP - dust 22, 24, 26 CAP - fitting 12, 16 CAP - screw 8 CAP - tube 10 CHAIN - cap 22, 24, 26 CHANNEL - air 32 CHANNEL - fresh air 32 CHANNEL - Z 32 CLAMP - dehydrator 12 CLAMP - tube 12, 14 COIL 14 COIL - condenser 6, 12 COIL - evaporator 8, 14 COIL - valve 14, 18 | GASKET 6 GASKET - air vent 30 GASKET - door 22 GASKET - evaporator door 28 GASKET - flange 16 GASKET - grille 34 GASKET - power connector 16 GASKET - rubber extrusion 28 GASKET - rubber extrusion 28 GASKET - unit 28 GRILLE - condenser 28, 34 GRILLE - evaporator 32 GRIP - cable 6 GROMMET 6, 8 H HANDLE - air vent 30 HARNESS - condenser fan 6, 18 HARNESS - evaporator 18 HARNESS - evaporator fan 8 HEAT EXCHANGER - economizer 12 HEATER 18 HINGE - air vent 30 HINGE - top 22 HOSE - drain 34 HOSE - sensor 8 | NAMEPLATE - data download USDA 26 NAMEPLATE - Do Not Open Below 0 C 30 NAMEPLATE - IR logo 36 NAMEPLATE - R404A 36 NAMEPLATE - Scrubber A5 36 NAMEPLATE - Temperature Conversion 36 NAMEPLATE - Thermo King 36 NAMEPLATE - TK 28, 36 NAMEPLATE - USDA Connections 36 NAMEPLATE - Warning 36 NAMEPLATE - Warning English 36 NAMEPLATE - Warning, Fan Start 36 NAMEPLATE - Warning, Hot Components 36 NAMEPLATE - Warning, Low Oxygen 36 NAMEPLATE - Warning, Scroll Compressor 36 NAMEPLATE - Weld 36 NUT 6, 8, 12, 14, 16, 20, 28, 30 NUT - adapter 12 NUT - clamp 12 |
| C CABLE 18 CABLE - compressor 18 CABLE - data 24 CABLE - data download 20, 24 CABLE - power 18 CABLE - retriever 22 CABLE - serial 22 CABLE - serial 22 CABLE - NTC 26 CAP - charge port 14 CAP - dust 22, 24, 26 CAP - fitting 12, 16 CAP - screw 8 CAP - tube 10 CHAIN - cap 22, 24, 26 CHANNEL - air 32 CHANNEL - fresh air 32 CHANNEL - Z 32 CLAMP - dehydrator 12 CLAMP - tube 12, 14 COIL 14 COIL - condenser 6, 12 COIL - evaporator 8, 14 COIL - valve 14, 18 COMPRESSOR - scroll 12, 16, 18 | GASKET 6 GASKET - air vent 30 GASKET - door 22 GASKET - evaporator door 28 GASKET - flange 16 GASKET - grille 34 GASKET - power connector 16 GASKET - rubber extrusion 28 GASKET - rubber extrusion 28 GASKET - unit 28 GRILLE - condenser 28, 34 GRILLE - evaporator 32 GRIP - cable 6 GROMMET 6, 8 H HANDLE - air vent 30 HARNESS - condenser fan 6, 18 HARNESS - evaporator 18 HARNESS - evaporator fan 8 HEAT EXCHANGER - economizer 12 HEATER 18 HINGE - air vent 30 HINGE - top 22 HOSE - drain 34 | NAMEPLATE - data download USDA 26 NAMEPLATE - Do Not Open Below 0 C 30 NAMEPLATE - IR logo 36 NAMEPLATE - R404A 36 NAMEPLATE - Scrubber A5 36 NAMEPLATE - Temperature Conversion 36 NAMEPLATE - Thermo King 36 NAMEPLATE - TK 28, 36 NAMEPLATE - USDA Connections 36 NAMEPLATE - Warning 36 NAMEPLATE - Warning English 36 NAMEPLATE - Warning, Fan Start 36 NAMEPLATE - Warning, Hot Components 36 NAMEPLATE - Warning, Low Oxygen 36 NAMEPLATE - Warning, Scroll Compressor 36 NAMEPLATE - Weld 36 NUT 6, 8, 12, 14, 16, 20, 28, 30 NUT - adapter 12 NUT - o-ring seal 14 |

| 0 | SHROUD - fan 8 |
|---|-------------------------------------|
| OIL - compressor 16 | SPACER 12, 16 |
| O-RING 12, 14 | SPACER - compressor 12 |
| O-RING - suction 16 | SPRING 30 |
| | SPRING - heater 18 |
| P | SWITCH - hpco 14, 16, 18 |
| PANEL - USDA receptacle 18, 26, 32 | SWITCH - Ipco 14, 18 |
| PIN - hinge 22, 30 | |
| PLATE - air vent 30 | Т |
| PLATE - cable storage 28 | TANK - receiver 12 |
| PLATE - guard 28 | TEE 12, 14 |
| PLATE - rear 32 | TEE - drain hose 34 |
| PLUG 16 | TERMINAL - pin 18 |
| PLUG - fusible 12 | TRANSFORMER 20 |
| PLUG - power 18 | TRIM - edge guard 8 |
| POCKET - sensor 28 | TUBE - equalizer 14 |
| PROTECTOR - edge 30 | TUBE - exchanger to coil 14 |
| TROTEOTOR dage 50 | TUBE - expansion valve to exchanger |
| R | . 14 |
| RAIL - din 20 | TUBE - expansion valve to tee 14 |
| RECEPTACLE 26 | TUBE - filter 12 |
| RIVET 22 | TUBE - filter to tee 12 |
| RIVET - cap 26 | TUBE - heat exchanger to evaporator |
| RIVET - channel 32 | 14 |
| RIVET - grille 32 | TUBE - liquid injection 14 |
| RIVET - housing 8 | TUBE - receiver to condenser 12 |
| RIVET - inlet 32 | TUBE - receiver to dehydrator 12 |
| RIVET - plate 32 | TUBE - suction 14 |
| RIVET - plate 32 | TUBE - suction to ball valve 14 |
| RIVOT 32 | TUBE - tee to distributor 14 |
| 10001 32 | TUBE - tee to exchanger 12 |
| S | TUBE - tee to valve 12 |
| SCREW 8, 20, 22, 30 | TUBE - tx bulb 14 |
| SCREW - bracket 8, 18, 28 | TUBE - valve to coil 12 |
| SCREW - clamp 12 , 14 | TUBE - valve to expansion 14 |
| SCREW - coil 6, 8 | · |
| SCREW - compressor 16 | V |
| SCREW - cover 28 | VALVE 14, 16 |
| SCREW - dehydrator 12 | VALVE - ball 14 |
| SCREW - discharge valve 16 | VALVE - digital 18 |
| SCREW - door 28 | VALVE - discharge 16 |
| SCREW - flange 16 | VALVE - expansion 14 |
| SCREW - grille 28 | VALVE - solenoid 12, 18 |
| SCREW - ground 16 | VALVE - suction 16 |
| SCREW - handle 30 | VENT - air 30 |
| SCREW - motor 6, 8 | |
| SCREW - plate 28, 30, 32 | W |
| SCREW - vent 30 | WASHER 6, 28, 30 |
| SEAL - teflon fiber 12 | WASHER - ground 16 |
| SEALER - silicone grease pack 16 | WASHER - insulating 12, 32 |
| SEALER - thread 16 | WASHER - insulation 28 |
| SENSOR - air supply 18 | WASHER - insulator 8, 18, 30 |
| SENSOR - compressor 18 | WASHER - sealing 16 |
| SENSOR - gas 8, 10 | WASHER - vibration damper 16 |
| SENSOR - humidity 8, 18 | |
| SENSOR - kit 8, 18 | |
| SENSOR - pocket 18 | |
| SENSOR - thermistor 26 | |

SHOULDER 14