



CONDENSING GAS FIRED  
FLOOR OR WALL MOUNTED  
BOILER

**Model**  
**UCS-240**

**PARTS, KITS &  
OPTIONAL ACCESSORIES**

ORDERING INSTRUCTIONS  
ORDER PARTS THROUGH YOUR NEAREST SUPPLIER.  
WHEN ORDERING PARTS, OBTAIN MODEL NUMBER AND SERIAL NUMBER  
FROM DATA PLATE ON YOUR BOILER.  
INCLUDE FOLLOWING INFORMATION WHEN ORDERING.

PART NUMBER\_\_\_\_\_

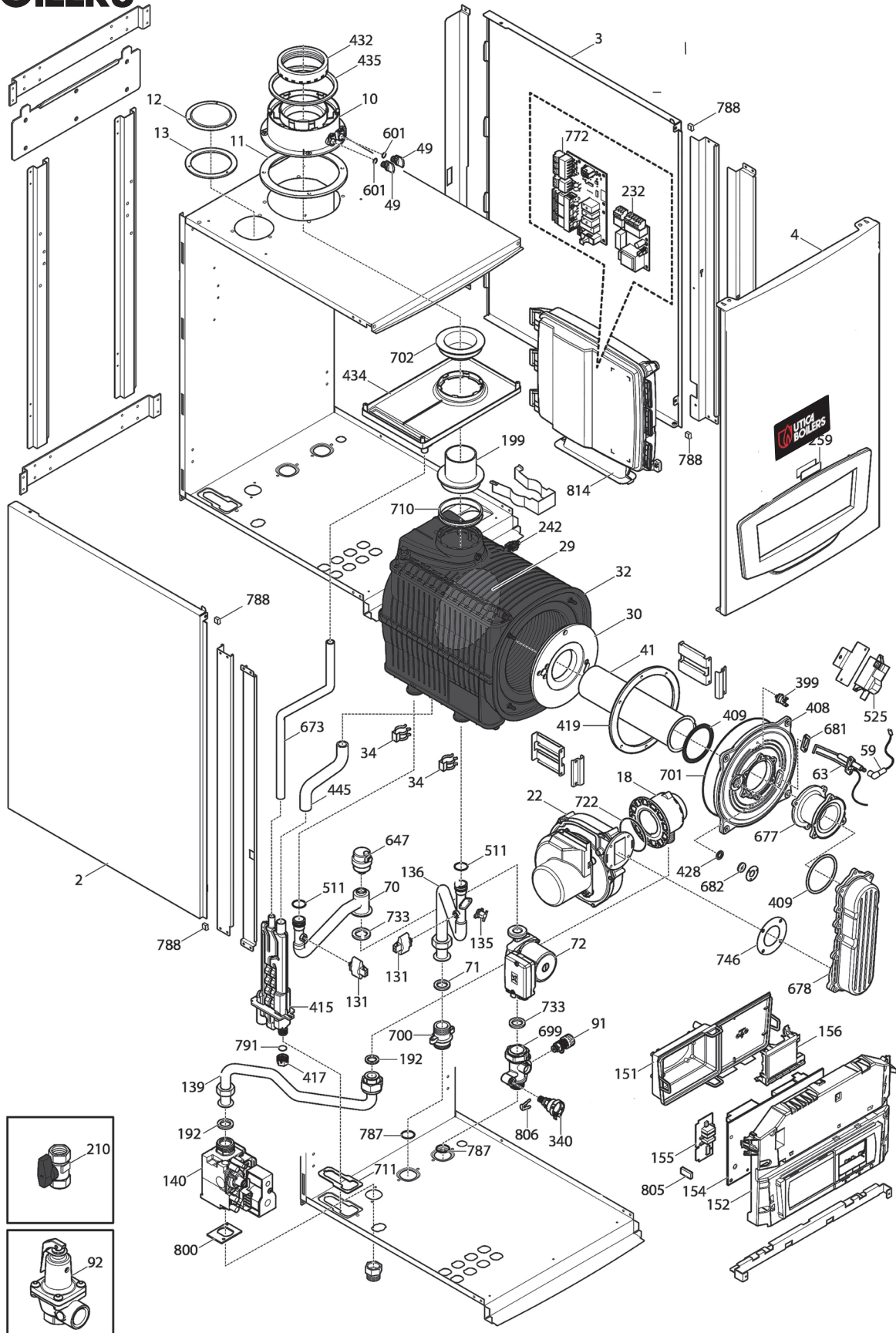
PART DESCRIPTION\_\_\_\_\_

BOILER MODEL NUMBER\_\_\_\_\_

BOILER SERIAL NUMBER\_\_\_\_\_



**MANUFACTURED BY:**  
**ECR INTERNATIONAL**  
2201 Dwyer Avenue, Utica NY 13501  
web site: [www.ecrinternational.com](http://www.ecrinternational.com)



## DESCRIPTION OF PARTS

| ITEM | PN                                       | DESCRIPTION                      |
|------|------------------------------------------|----------------------------------|
| 2    | SEE KIT 550003296                        | LEFT PANEL KIT ASSEMBLY          |
| 3    | SEE KIT 550003297                        | RIGHT PANEL KIT ASSEMBLY         |
| 4    | SEE KIT 550003298                        | FRONT PANEL ASSEMBLY             |
| 10   | SEE KIT 550003264                        | FLUE CONNECTION ASSEMBLY         |
| 11   | SEE KIT 550003264                        | GASKET ADAPTER                   |
| 12   | SEE KIT 550003264                        | PLATE BLANKING                   |
| 13   | SEE KIT 550003264                        | SUCTION CAP GASKET               |
| 18   | SEE KIT 550003265                        | KIT GPL DUO-TEC MP 70            |
| 22   | SEE KIT 550003245                        | FAN 250W 120V 60 HZ              |
| 29   | SEE KIT 550003256                        | COMBUSTION CHAMBER REAR INSUL.   |
| 30   | SEE KIT 550003257                        | FRONTAL INSULATING PANEL         |
| 32   | SEE KIT 550003256                        | HEAT EXCHANGER ISOTHERMIC        |
| 34   | BD000005652731                           | EXCHANGER CLIP                   |
| 41   | SEE KIT 550003246                        | BURNER 65 KW                     |
| 49   | SEE KIT 550003264                        | FLUE TEST CAP                    |
| 59   | BD7214720V                               | CABLE ELECTRODE IGNITION         |
| 63   | SEE KIT 550003249                        | ELECTRODE - IGNITION             |
| 70   | SEE KIT 550003255                        | RETURN PIPE ASSY                 |
| 71   | SEE KIT 550003260                        | SEALING WASHER - G1              |
| 72   | SEE KIT 550003248                        | PUMP UPER 25-78 115V 60 HZ       |
| 91   | SEE KIT 550003252                        | DRAINING TAP                     |
| 92   | BD721851901V                             | PRESSURE RELIEF VALVE            |
| 131  | BD722601801V &<br>SEE KIT 550003254      | NTC SENSOR                       |
| 135  | BD710626001V &<br>SEE KIT 550003254      | SUPPLY HIGH LIMIT                |
| 136  | SEE KIT 550003254                        | FLOW PIPE                        |
| 138  | SEE KIT 550003244 &<br>SEE KIT 550003254 | SEALING WASHER G3/4 GAS          |
| 139  | SEE KIT 550003261                        | PIPE GAS VALVE/MIXER             |
| 140  | SEE KIT 550003244                        | GAS VALVE SIT 848 120V-60HZ      |
| 151  | SEE KIT 550003271                        | CONTROL COVER                    |
| 152  | SEE KIT 550003271                        | CONTROL                          |
| 154  | SEE KIT 550003268                        | PCB PCU-04                       |
| 155  | SEE KIT 550003269                        | SAFETY PCB                       |
| 156  | SEE KIT 550003270                        | PCB DISPLAY                      |
| 192  | SEE KIT 550003261                        | SEALING WASHER G 3/4             |
| 199  | SEE KIT 550003256                        | JOINT EXCHANGER/DISCHARGE DUCT D |
| 210  | BD000005643331                           | GAS SHUT OFF VALVE               |
| 232  | SEE KIT 550003267                        | PCB INTERFACE                    |
| 242  | SEE KIT 550003256                        | NTC SENSOR                       |
| 340  | SEE KIT 550003253                        | PRESSURE SENSOR                  |

| ITEM | PN                                                                                     | DESCRIPTION               |
|------|----------------------------------------------------------------------------------------|---------------------------|
| 399  | BD711427701V                                                                           | SAFETY THERMOSTAT 260°C   |
| 408  | SEE KIT 550003257                                                                      | COMB.CHAMBER UPPER COVER  |
| 409  | SEE KIT 550003246 &<br>SEE KIT 550003258 &<br>SEE KIT 550003259                        | BURNER GASKET ASS.        |
| 415  | SEE KIT 550003247                                                                      | SIPHON BODY H220          |
| 417  | SEE KIT 550003247                                                                      | GASKET PLUG               |
| 419  | SEE KIT 550003257                                                                      | COMBUSTION CHAMBER GASKET |
| 428  | SEE KIT 550003251                                                                      | GASKET                    |
| 432  | SEE KIT 550003264                                                                      | FLUE SPIGOT GASKET        |
| 434  | SEE KIT 550003263                                                                      | CONDENSY TRAY             |
| 435  | SEE KIT 550003264                                                                      | AIR IN TAKE GASKET D.215  |
| 445  | SEE KIT 550003262                                                                      | PIPE EXCHANGER/SIPHON     |
| 511  | SEE KIT 550003255                                                                      | OR 20,24X2,62 EPDM        |
| 514  | SEE KIT 550003254                                                                      | GASKET                    |
| 525  | SEE KIT 550003250                                                                      | SPARK GENERATOR           |
| 601  | SEE KIT 550003264                                                                      | O-RING 8,73X1,78          |
| 647  | BD000005652731 &<br>SEE KIT 550003255                                                  | AUTO AIR VENT             |
| 673  | SEE KIT 550003262                                                                      | CONDENSY PIPE/SIPHON      |
| 675  | SEE KIT 550003254                                                                      | JOINT EXCH DUOZ           |
| 677  | SEE KIT 550003259                                                                      | EXTENTION 4 EL.           |
| 678  | SEE KIT 550003258                                                                      | AIR GAS COLLECTOR         |
| 681  | SEE KIT 550003249                                                                      | IGNITION ELECTRODE GASKET |
| 682  | SEE KIT 550003251                                                                      | SIGHT GLASS               |
| 699  | SEE KIT 550003252                                                                      | INLET ELEMENT G1          |
| 700  | SEE KIT 550003260                                                                      | NIPPLE 1/4"MM WITH SCREWS |
| 701  | SEE KIT 550003257                                                                      | GASKET D.6                |
| 702  | SEE KIT 550003263                                                                      | GASKET CONDENSY BOX       |
| 710  | SEE KIT 550003256                                                                      | GASKET                    |
| 711  | SEE KIT 550003247                                                                      | JOINT SIPHON              |
| 722  | SEE KIT 550003245 &<br>SEE KIT 550003265                                               | O-RING 70X3               |
| 731  | SEE KIT 550003254                                                                      | JOINT EXCH DUOZ           |
| 733  | SEE KIT 550003248 &<br>SEE KIT 550003252 &<br>SEE KIT 550003254 &<br>SEE KIT 550003255 | GASKET G1 1/2 WRC         |
| 746  | SEE KIT 550003245 &<br>SEE KIT 550003258                                               | VENTURI GASKET            |
| 772  | SEE KIT 550003266                                                                      | PCB SCU-S02               |
| 787  | SEE KIT 550003252 &<br>SEE KIT 550003260                                               | GASKET                    |
| 788  | SEE KIT 550003276                                                                      | PANEL SEAL                |
| 791  | SEE KIT 550003247                                                                      | SIPHON CAP GASKET         |
| 800  | SEE KIT 550003244                                                                      | GASKET GAS VALVE M-M      |
| 805  | SEE KIT 550003272                                                                      | CONFIGURATION KEY         |
| 806  | SEE KIT 550003253                                                                      | CLIP D.10 BITRON          |
| 814  | BD764986901V                                                                           | SECONDARY ELECTRIC BOX    |

## KITS - HEAT EXCHANGER & COMPONENTS

| KIT 550003256 - HEAT EXCHANGER REPLACEMENT<br>KIT INCLUDES: |                                  |     |
|-------------------------------------------------------------|----------------------------------|-----|
| POS                                                         | DESCRIPTION                      | QTY |
| 32                                                          | HEAT EXCHANGER                   | 1   |
| 29                                                          | COMBUSTION CHAMBER REAR INSUL.   | 1   |
| 242                                                         | NTC SENSOR                       | 1   |
| 710                                                         | GASKET                           | 1   |
| 199                                                         | JOINT EXCHANGER/DISCHARGE DUCT D | 1   |
| NA                                                          | INSTRUCTIONS - 240011705         | 1   |

| KIT 550003246 - BURNER REPLACEMENT<br>KIT INCLUDES: |                             |     |
|-----------------------------------------------------|-----------------------------|-----|
| POS                                                 | DESCRIPTION                 | QTY |
| 41                                                  | BURNER 65 KW BURNER         | 1   |
| 409                                                 | BURNER GASKET ASSY.         | 1   |
| NA                                                  | KIT INSTRUCTIONS 2400011700 | 1   |

| KIT 550003257 - COMBUSTION CHAMBER REPLACEMENT<br>KIT INCLUDES: |                                |     |
|-----------------------------------------------------------------|--------------------------------|-----|
| POS                                                             | DESCRIPTION                    | QTY |
| 408                                                             | COMBUSTION CHAMBER UPPER COVER | 1   |
| 419                                                             | COMBUSTION CHAMBER GASKET      | 1   |
| 701                                                             | GASKET D.6                     | 1   |
| 30                                                              | COVER INSULATION               | 1   |
| NA                                                              | INSTRUCTIONS - 240011706       | 1   |

| KIT 550003249 - IGNITION ELECTRODE REPLACEMENT<br>KIT INCLUDES: |                            |     |
|-----------------------------------------------------------------|----------------------------|-----|
| POS                                                             | DESCRIPTION                | QTY |
| 63                                                              | IGNITION ELECTRODE         | 1   |
| 681                                                             | IGNITION ELECTRODE GASKET  | 2   |
| NA                                                              | KIT INSTRUCTIONS 240011681 | 1   |

| KIT 550003250 - SPARK GENERATOR REPLACEMENT<br>KIT INCLUDES: |                            |     |
|--------------------------------------------------------------|----------------------------|-----|
| POS                                                          | DESCRIPTION                | QTY |
| 525                                                          | SPARK GENERATOR 115V       | 1   |
| NA                                                           | KIT INSTRUCTIONS 240011682 | 1   |

| KIT 550003251 - SIGHT GLASS REPLACEMENT<br>KIT INCLUDES: |                            |     |
|----------------------------------------------------------|----------------------------|-----|
| POS                                                      | DESCRIPTION                | QTY |
| 682                                                      | SIGHT GLASS                | 1   |
| 428                                                      | GASKET                     | 1   |
| NA                                                       | KIT INSTRUCTIONS 240011683 | 1   |

## KITS - OTHER MAJOR COMPONENTS

| KIT 550003245 - BLOWER REPLACEMENT<br>KIT INCLUDES: |                            |     |
|-----------------------------------------------------|----------------------------|-----|
| POS                                                 | DESCRIPTION                | QTY |
| 22                                                  | FAN 250W 120V 60HZ         | 1   |
| 746                                                 | VENTURI GASKET             | 1   |
| 722                                                 | O-RING 70X3                | 1   |
| NA                                                  | KIT INSTRUCTIONS 240011699 | 1   |

| KIT 550003248 - PUMP REPLACEMENT<br>KIT INCLUDES: |                            |     |
|---------------------------------------------------|----------------------------|-----|
| POS                                               | DESCRIPTION                | QTY |
| 72                                                | PUMP 115V 60HZ             | 1   |
| 733                                               | GASKET 1/2                 | 2   |
| NA                                                | KIT INSTRUCTIONS 240011722 | 1   |

## KITS - GAS VALVE & COMPONENTS

| KIT 550003244 - GAS VALVE REPLACEMENT<br>KIT INCLUDES: |                             |     |
|--------------------------------------------------------|-----------------------------|-----|
| POS                                                    | DESCRIPTION                 | QTY |
| 138                                                    | SEALING WASHER G3/4 GAS     | 1   |
| 140                                                    | GAS VALVE 120V-60HZ         | 1   |
| 800                                                    | GASKET GAS VALVE            | 1   |
| NA                                                     | KIT INSTRUCTIONS 2400011698 | 1   |

| KIT 550003261 - GAS PIPE REPLACEMENT<br>KIT INCLUDES: |                          |     |
|-------------------------------------------------------|--------------------------|-----|
| POS                                                   | DESCRIPTION              | QTY |
| 139                                                   | PIPE GAS VALVE/MIXER     | 1   |
| 192                                                   | SEALING WASHER G 3/4     | 2   |
| NA                                                    | INSTRUCTIONS - 240011723 | 1   |

## KITS - AIR & GAS COMPONENTS

| KIT 550003265 - MIXER REPLACEMENT<br>KIT INCLUDES: |                          |     |
|----------------------------------------------------|--------------------------|-----|
| POS                                                | DESCRIPTION              | QTY |
| 18                                                 | GAS AIR MIXER            | 1   |
| 722                                                | O-RING 70X3              | 1   |
| NA                                                 | INSTRUCTIONS - 240011724 | 1   |

| KIT 550003258 - AIR GAS COLLECTOR REPLACEMENT<br>KIT INCLUDES: |                          |     |
|----------------------------------------------------------------|--------------------------|-----|
| POS                                                            | DESCRIPTION              | QTY |
| 678                                                            | AIR GAS COLLECTOR        | 1   |
| 409                                                            | BURNER GASKET ASSY.      | 1   |
| 746                                                            | VENTURI GASKET           | 1   |
| NA                                                             | INSTRUCTIONS - 240011725 | 1   |

| KIT 550003259 - AIR GAS COLLECTOR EXTENSION<br>REPLACEMENT KIT INCLUDES: |                          |     |
|--------------------------------------------------------------------------|--------------------------|-----|
| POS                                                                      | DESCRIPTION              | QTY |
| 677                                                                      | EXTENTION 4 EL.          | 1   |
| 409                                                                      | BURNER GASKET ASSY.      | 1   |
| NA                                                                       | INSTRUCTIONS - 240011726 | 1   |

| KIT 550003264 - FLUE CONNECTION REPLACEMENT<br>KIT INCLUDES: |                          |     |
|--------------------------------------------------------------|--------------------------|-----|
| POS                                                          | DESCRIPTION              | QTY |
| 10                                                           | FLUE CONNECTION ASSEMBLY | 1   |
| 11                                                           | GASKET ADAPTER           | 1   |
| 12                                                           | PLATE BLANKING           | 1   |
| 13                                                           | SUCTION CAP GASKET       | 1   |
| 432                                                          | FLUE SPIGOT GASKET       | 1   |
| 435                                                          | AIR IN TAKE GASKET D.215 | 1   |
| 49                                                           | FLUE TEST CAP            | 2   |
| 601                                                          | O-RING 8,73X1,78         | 2   |
| NA                                                           | INSTRUCTIONS - 240011727 | 1   |

## KITS - PIPING

| KIT 550003254 - SUPPLY PIPING REPLACEMENT<br>KIT INCLUDES: |                         |     |
|------------------------------------------------------------|-------------------------|-----|
| POS                                                        | DESCRIPTION             | QTY |
| 136                                                        | SUPPLY PIPE             | 1   |
| 138                                                        | SEALING WASHER G3/4 GAS | 1   |
| 514                                                        | GASKET                  | 1   |
| 731                                                        | GASKET 32X39X2          | 1   |
| 675                                                        | JOINT EXCH DUOZ         | 1   |
| 135                                                        | THERMOSTAT LIMIT        | 1   |
| 131                                                        | SUPPLY HIGH LIMIT       | 1   |

| KIT 550003255 - RETURN PIPING REPLACEMENT<br>KIT INCLUDES: |                    |     |
|------------------------------------------------------------|--------------------|-----|
| POS                                                        | DESCRIPTION        | QTY |
| 70                                                         | RETURN PIPE ASSY   | 1   |
| 733                                                        | GASKET G1 1/2 WRC  | 1   |
| 511                                                        | OR 20,24X2,62 EPDM | 1   |
| 647                                                        | AUTO AIR VENT      | 1   |
| 34                                                         | EXCHANGER CLIP     | 1   |

| KIT 550003260 - SUPPLY CONNECTION FITTING<br>REPLACEMENT KIT INCLUDES: |                          |     |
|------------------------------------------------------------------------|--------------------------|-----|
| POS                                                                    | DESCRIPTION              | QTY |
| 700                                                                    | NIPPLE G1"MM WITH SCREWS | 1   |
| 787                                                                    | GASKET                   | 1   |
| 71                                                                     | SEALING WASHER - G1      | 1   |

| KIT 550003252 - RETURN INLET ASSEMBLY REPLACEMENT<br>KIT INCLUDES: |                            |     |
|--------------------------------------------------------------------|----------------------------|-----|
| POS                                                                | DESCRIPTION                | QTY |
| 699                                                                | INLET ELEMENT G1           | 1   |
| 91                                                                 | DRAINING TAP               | 1   |
| 733                                                                | GASKET                     | 1   |
| 787                                                                | CHAMBER GASKET             | 1   |
| NA                                                                 | KIT INSTRUCTIONS 240011703 | 1   |

## KITS - CONDENSATE COMPONENTS

| <b>KIT 550003247 - CONDENSATE TRAP REPLACEMENT<br/>KIT INCLUDES:</b> |                            |            |
|----------------------------------------------------------------------|----------------------------|------------|
| <b>POS</b>                                                           | <b>DESCRIPTION</b>         | <b>QTY</b> |
| 415                                                                  | SIPHON BODY                | 1          |
| 791                                                                  | SIPHON CAP                 | 1          |
| 417                                                                  | GASKET PLUG                | 1          |
| 711                                                                  | JOINT SIPHON               | 1          |
| NA                                                                   | KIT INSTRUCTIONS 240011701 | 1          |

| <b>KIT 550003262 - CONDENSATE PIPE REPLACEMENT<br/>KIT INCLUDES:</b> |                          |            |
|----------------------------------------------------------------------|--------------------------|------------|
| <b>POS</b>                                                           | <b>DESCRIPTION</b>       | <b>QTY</b> |
| 673                                                                  | CONDENSATE PIPE/SIPHON   | 1          |
| 445                                                                  | PIPE EXCHANGER/SIPHON    | 1          |
| NA                                                                   | INSTRUCTIONS - 240011728 | 1          |

| <b>KIT 550003263 - CONDENSATE TRAY REPLACEMENT<br/>KIT INCLUDES:</b> |                          |            |
|----------------------------------------------------------------------|--------------------------|------------|
| <b>POS</b>                                                           | <b>DESCRIPTION</b>       | <b>QTY</b> |
| 434                                                                  | CONDENSATE TRAY          | 1          |
| 702                                                                  | CONDENSATE GASKET        | 1          |
| NA                                                                   | INSTRUCTIONS - 240011729 | 1          |

## KITS - CONTROL BOARDS

| KIT 550003266 - PCB SCU-SO2 REPLACEMENT<br>KIT INCLUDES: |                          |     |
|----------------------------------------------------------|--------------------------|-----|
| POS                                                      | DESCRIPTION              | QTY |
| 772                                                      | PCB SCU-SO2              | 1   |
| NA                                                       | INSTRUCTIONS - 240011707 | 1   |

| KIT 550003267 - PCB INTERFACE REPLACEMENT<br>KIT INCLUDES: |                          |     |
|------------------------------------------------------------|--------------------------|-----|
| POS                                                        | DESCRIPTION              | QTY |
| 232                                                        | PCB INTERFACE            | 1   |
| NA                                                         | INSTRUCTIONS - 240011708 | 1   |

| KIT 550003268 - PCB PCU-04 REPLACEMENT<br>KIT INCLUDES: |                          |     |
|---------------------------------------------------------|--------------------------|-----|
| POS                                                     | DESCRIPTION              | QTY |
| 154                                                     | PCB PCU-04               | 1   |
| NA                                                      | INSTRUCTIONS - 240011709 | 1   |

| KIT 550003269 - SAFETY PCB REPLACEMENT<br>KIT INCLUDES: |                          |     |
|---------------------------------------------------------|--------------------------|-----|
| POS                                                     | DESCRIPTION              | QTY |
| 155                                                     | SAFETY PCB               | 1   |
| NA                                                      | INSTRUCTIONS - 240011710 | 1   |

| KIT 550003272 - CONFIGURATION KEY<br>KIT INCLUDES: |                          |     |
|----------------------------------------------------|--------------------------|-----|
| POS                                                | DESCRIPTION              | QTY |
| 805                                                | CONFIGURATION KEY        | 1   |
| NA                                                 | INSTRUCTIONS - 240011712 | 1   |



## KITS - SENSOR

| KIT 550003253 - PRESSURE SENSOR REPLACEMENT<br>KIT INCLUDES: |                            |     |
|--------------------------------------------------------------|----------------------------|-----|
| POS                                                          | DESCRIPTION                | QTY |
| 340                                                          | PRESSURE SENSOR            | 1   |
| 806                                                          | CLIP                       | 1   |
| NA                                                           | KIT INSTRUCTIONS 240011704 | 1   |

## KITS -CONTROL & JACKET PANELS

| KIT 550003270 - PCB DISPLAY REPLACEMENT<br>KIT INCLUDES: |                          |     |
|----------------------------------------------------------|--------------------------|-----|
| POS                                                      | DESCRIPTION              | QTY |
| 156                                                      | PCB DISPLAY              | 1   |
| NA                                                       | INSTRUCTIONS - 240011711 | 1   |

| PANEL ASSEMBLIES |                                                              |     |               |     |
|------------------|--------------------------------------------------------------|-----|---------------|-----|
| KIT #            | DESCRIPTION                                                  | POS | DESCRIPTION   | QTY |
| 550003271        | CONTROL ASSEMBLY                                             | 151 | CONTROL COVER | 1   |
|                  |                                                              | 152 | CONTROL       | 1   |
| 550003296        | LEFT PANEL ASSEMBLY INCLUDES:                                | 2   | LEFT PANEL    | 1   |
|                  |                                                              | 788 | PANEL SEAL    | 2   |
| 550003297        | RIGHT PANEL ASSEMBLY INCLUDES:                               | 3   | RIGHT PANEL   | 1   |
|                  |                                                              | 788 | PANEL SEAL    | 2   |
| 550003298        | FRONT PANEL ASSEMBLY INCLUDES:<br>BEZEL, INSULATION AND LOGO | 4   | FRONT PANEL   | 1   |

## WIRING - REPLACEMENT

| POS         | PN        | DESCRIPTION                      |
|-------------|-----------|----------------------------------|
| NOT SHOWN   | 721796800 | FAN WIRING                       |
| NOT SHOWN   | 721804700 | IGNITOR WIRING                   |
| NOT SHOWN   | 721807000 | GAS VALVE WIRING                 |
| NOT SHOWN   | 721807500 | POWER SUPPLY PUMP WIRING         |
| NOT SHOWN   | 721838500 | SAFETY TH/FAN WIRING             |
| NOT SHOWN   | 721814100 | SENSORS WIRING                   |
| NOT SHOWN   | 722266400 | CONTROL BOX/PCB SCU CONNECTING   |
| NOT SHOWN   | 722267400 | SECONDARY ELECTRIC BOX POWER WI  |
| NOT SHOWN   | 722410200 | POWER SUPPLY PUMP UP26-96F WIRIN |
| NOT SHOWN   | 722577700 | PCB POWER WIRING SECONDARY BOX   |
| NOT SHOWN   | 722577800 | POWER SUPPLY WIRING              |
| NOT SHOWN   | 765517700 | PCB/SWITCH WIRING                |
| - NOT SHOWN |           |                                  |



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web site: [www.ecrinternational.com](http://www.ecrinternational.com)