

**TO THE WHOLESALE DISTRIBUTOR:**

This folder is issued for your convenience and guidance in stocking American-Ideal Boilers. It contains a complete set of "Shipping Details," which list the sections and parts that make up each type and size of our various boilers, and which specify the manner in which each boiler is packed and shipped from our Plant.

You will note that on one side of the pages are listed all the shipping units and the number of such units required for each boiler assemblage. For example, by locating the boiler number in the right hand column, and then reading down you will find what type and how many sections, and what crates, boxes and bundles are required to assemble that particular boiler.

On the reverse side of the sheets the contents of each crate and box are shown.

It is therefore unnecessary to open any container to ascertain its contents, or to transfer parts from one box to another to make up a boiler for shipment. Experience has demonstrated that opening of containers for any purpose results in confusion, unbalanced stocks, and leads to incorrect or short shipments that are both annoying and costly. We recommend that your warehouse make it a rule to keep regular boiler stocks separate from repair stocks; also that the opening of boxes or crates carried as regular boiler stocks should not be permitted.

We hope and believe that these "Shipping Details" will be found of great help to your warehouse personnel in stocking, handling and re-shipping our boilers.

**AMERICAN & Standard**  
**RADIATOR & Sanitary**  
CORPORATION

# SEVERN BOILERS

## Sections and Parts Required

Coal (Hand Fired) Oil or Stoker

STEAM AND WATER

SERIES 1-B

| Complete Boilers Consist of Following Units:                                                                                                                  | No. of Units for Each Boiler |     |     |     |     |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----|-----|-----|-----|-----|
|                                                                                                                                                               | #17                          | #21 | #25 | #29 | #33 | #37 |
| F —Front Section—Uncrated.....                                                                                                                                | 1                            | 1   | 1   | 1   | 1   | 1   |
| NC—Center Section (4'')—Uncrated.....                                                                                                                         | 0                            | 1   | 0   | 1   | 0   | 1   |
| C —Center Section (8'')—Uncrated.....                                                                                                                         | 0                            | 0   | 1   | 1   | 2   | 1   |
| CX—Center Connecting Section (8'')—Uncrated..                                                                                                                 | 1                            | 1   | 1   | 1   | 1   | 2   |
| BO—Back Section (Coal, Oil and Stoker)—<br>Uncrated.....                                                                                                      | 1                            | 1   | 1   | 1   | 1   | 1   |
| Combination Base Crate (Contents listed other<br>side this sheet) (Different for Coal, Oil or Stoker)                                                         | 1                            | 1   | 1   | 1   | 1   | 1   |
| Door Crate (Coal Boilers Only—Contents listed<br>other side this sheet).....                                                                                  | 1                            | 1   | 1   | 1   | 1   | 1   |
| Trim Box—Steam: Used only for No. 17 Boiler<br>Coal, Oil and Stoker (Contents listed other side)                                                              | 1                            | 1   | 1   | 1   | 1   | 1   |
| Trim Box—Steam: Interchangeable for No. 21<br>to No. 37 Steam Boilers: Coal, Oil and Stoker<br>(Contents listed other side).....                              |                              |     |     |     |     |     |
| —Or—                                                                                                                                                          |                              |     |     |     |     |     |
| Trim Box—Water: Interchangeable for all Water<br>Boilers: Coal, Oil and Stoker (Contents listed<br>other side).....                                           |                              |     |     |     |     |     |
| Automatic Regulator Box—Steam<br>—Or—                                                                                                                         | 1                            | 1   | 1   | 1   | 1   | 1   |
| Automatic Regulator Box—Water<br>Required for use on Hand Fired Coal Boilers<br>only—Interchangeable for all assemblages<br>(Contents listed other side)..... |                              |     |     |     |     |     |
|                                                                                                                                                               |                              |     |     |     |     |     |
| Fire Tool Bundle—Coal, 2 Pieces, Marked for Size<br>Boiler.....                                                                                               | 1                            | 1   | 1   | 1   | 1   | 1   |
| Fire Tool Bundle—Oil and Stoker—<br>1 Piece, Marked for Size Boiler.....                                                                                      | 1                            | 1   | 1   | 1   | 1   | 1   |

**PARTS FURNISHED ON SPECIAL ORDER ONLY**

**CXT—8" Center Connecting Section for Tankless Built-in Water Heater.**  
**Water Heater—Tankless or Regular.**

**NOTE:** Code letters are cast on head end of all sections. Other Units (crates, boxes and bundles) are marked for boiler size if not common to all assemblages.

See other side for Contents of Crates and Boxes included in above list.

# SEVERN BOILERS

Contents of Crates and Boxes, as listed on other side

| *COMBINATION BASE CRATE |     |       |                                                |                |     |       |                              |
|-------------------------|-----|-------|------------------------------------------------|----------------|-----|-------|------------------------------|
| Type of Boiler          |     |       | Description of Parts                           | Type of Boiler |     |       | Description of Parts         |
| Coal                    | Oil | Stkr. |                                                | Coal           | Oil | Stkr. |                              |
| 1                       | -   | -     | Base Assembled Complete                        | 2              | 2   | 2     | †Steel Draw-Up Blocks        |
| -                       | 1   | -     | Base Assembled Complete                        | 2              | 2   | 2     | †Draw-Up Washers (48-WT-248) |
| -                       | -   | 1     | Base Assembled Complete                        | 1              | 1   | 1     | Bag Small Parts              |
| -                       | 1   | -     | Service Door Assembly                          | -              | 1   | 1     | Cleanout Door Assembly       |
| -                       | -   | 1     | Fire Door Assembly                             | -              | 1   | 1     | Flue Pipe Collar (7-CB-44)   |
| -                       | 1   | -     | Combustion Chamber Baffle and Bracket Assembly | 1              | 1   | 1     | No. 5 Flue Brush             |
| -                       | 1   | -     | for #17-21-25 Oil Boilers                      | 1              | 1   | 1     | 2 Lb. Can Boiler Putty       |
| -                       | 1   | -     | Front Base Plate Extension                     | 1              | 1   | 1     | ½ Pt. Can Red Oxide          |
| 2                       | 2   | 2     | Upper (Short) Tie Rods                         | 1              | 1   | 1     | 7" Nipple Setting Gauge      |
| 2                       | 2   | 2     | Lower (Long) Tie Rods                          | 1              | 1   | 1     | Bag Pipe Plugs               |
| 1                       | -   | -     | Shaker Handle                                  | 1              | 1   | 1     | Erecting Directions          |
| 1                       | -   | -     | Regulator Lever                                | 1              | -   | -     | Upper Regulator Rod W/Clevis |
| 1                       | -   | -     | Draft Control Rod (Lower)                      | 2              | 2   | 2     | 7" Nipples                   |
| 1                       | -   | -     | Platwork Box (Included In Crate)               | 4              | 4   | 4     | 2" Nipples                   |
| -                       | 1   | 1     | Platwork Box (Included In Crate)               | 3              | 3   | 3     | 7" Nipples                   |
| -                       | -   | -     | Contents as Follows:                           | 6              | 6   | 6     | 2" Nipples                   |
| 1                       | -   | -     | Fire Door Treadle (7-2B-67)                    | 4              | 4   | 4     | 7" Nipples                   |
| 1                       | -   | -     | Fire Door Treadle Rod (7-2B-59)                | 8              | 8   | 8     | 2" Nipples                   |
| 1                       | -   | -     | Ashpit Door Treadle (7-2B-66)                  | 5              | 5   | 5     | 7" Nipples                   |
| 2                       | 2   | 2     | Hinge Plates (7-2B-63)                         | 10             | 10  | 10    | 2" Nipples                   |

\*Contents of crate differs for coal, oil or stoker. When shipping be sure to select containers marked for type of boiler furnished.  
†Omitted for No. 17 Boiler.

| STEAM TRIM BOX FOR No. 17 BOILER |     |       |                               |
|----------------------------------|-----|-------|-------------------------------|
| Type of Boiler                   |     |       | Description of Parts          |
| Coal                             | Oil | Stkr. |                               |
| 1                                | 1   | 1     | Set of No. 158 Water Column   |
| 1                                | 1   | 1     | Trim: ¾ x 8 B. L. Glass       |
| 1                                | 1   | 1     | No. S-3½-7 P & V Steam Gauge  |
| 1                                | 1   | 1     | 1" Pop Safety Valve           |
| 1                                | 1   | 1     | 2½" Pipe Plug                 |
| 1                                | 1   | 1     | 1½" x 1½" Pipe Bushing        |
| 1                                | 1   | 1     | 1½" x 1" Safety Valve Bushing |

| WATER TRIM BOX FOR ALL WATER BOILERS |     |       |                                                   |
|--------------------------------------|-----|-------|---------------------------------------------------|
| Type of Boiler                       |     |       | Description of Parts                              |
| Coal                                 | Oil | Stkr. |                                                   |
| 1                                    | 1   | 1     | No. AW-3½-77 Comb. Altitude Gauge and Thermometer |
| 2                                    | 2   | 2     | ¾" Pipe Plugs                                     |
| 2                                    | 2   | 2     | ½" Pipe Plugs                                     |
| 1                                    | 1   | 1     | 1" Pipe Plug                                      |
| 1                                    | 1   | 1     | 1½" Chk. Pipe Plug                                |
| 1                                    | 1   | 1     | 1½" Chk. Pipe Plug                                |
| 1                                    | 1   | 1     | 2½" Pipe Plug                                     |

| STEAM TRIM BOX FOR No. 21 TO No. 37 BOILERS |     |       |                              |
|---------------------------------------------|-----|-------|------------------------------|
| Type of Boiler                              |     |       | Description of Parts         |
| Coal                                        | Oil | Stkr. |                              |
| 1                                           | 1   | 1     | Set of No. 158 Water Column  |
| 1                                           | 1   | 1     | Trim: ¾ x 8 B. L. Glass      |
| 1                                           | 1   | 1     | No. S-3½-7 P & V Steam Gauge |
| 1                                           | 1   | 1     | 1½" Pop Safety Valve         |
| 1                                           | 1   | 1     | 2½" Pipe Plug                |
| 1                                           | 1   | 1     | 1½" x 1½" Pipe Bushing       |

| WATER REGULATOR BOX FOR HAND FIRED (COAL) BOILERS ONLY |                                     |
|--------------------------------------------------------|-------------------------------------|
| Description of Parts                                   |                                     |
| 1                                                      | No. 80197 Water Regulator           |
| 2                                                      | No. 16-S-90 Counterweights W/Screws |
| 2                                                      | 1" Pipe Plugs                       |

| DOOR CRATE (Hand Fired Coal Boiler) |                        |
|-------------------------------------|------------------------|
| Description of Parts                |                        |
| 1                                   | Smokehood Assembly     |
| 1                                   | Cleanout Door Assembly |
| 1                                   | Fire Door Assembly     |

| STEAM REGULATOR BOX FOR HAND FIRED (COAL) BOILERS ONLY |                                     |
|--------------------------------------------------------|-------------------------------------|
| Description of Parts                                   |                                     |
| 1                                                      | No. 30525 Steam Regulator           |
| 2                                                      | No. 16-S-90 Counterweights W/Screws |
| 1                                                      | ½" Close Nipple                     |
| 3                                                      | 1" Pipe Plugs                       |

# ARCOLINER BOILERS

## Sections and Parts Required

Coal (Hand Fired) and Stoker

STEAM AND WATER

Series 1-BD

Section Code Letters: DF—Front; DC—Center; DCX—Center Connecting;  
DXU—Next-to-back Connecting; DB—Back

| *Sections Required |             |    |    |     |     |    |
|--------------------|-------------|----|----|-----|-----|----|
| Boiler No.         |             | DF | DC | DCX | DXU | DB |
| Coal               | Stoker      |    |    |     |     |    |
| 153-D              | .....       | 1  | 0  | 0   | 1   | 1  |
| 154-D              | CD-154..... | 1  | 1  | 0   | 1   | 1  |
| 155-D              | CD-155..... | 1  | 1  | 1   | 1   | 1  |
| 156-D              | CD-156..... | 1  | 2  | 1   | 1   | 1  |

**NOTE:** Code letters are cast on head end of all sections.

\*On Hand Fired Boilers sections are shipped assembled complete with grates.  
On Stoker Boilers sections are shipped assembled without grates.

| Complete Boilers Consist of Following Units:                                                                                                                                                    | No. of Units for Each Boiler |        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------|
|                                                                                                                                                                                                 | Hand Fired Coal              | Stoker |
| Section Assemblage—Complete with Grates .....                                                                                                                                                   | 1                            | 0      |
| Section Assemblage—Less Grates .....                                                                                                                                                            | 0                            | 1      |
| Plate Work Crate—Different for Hand Fired Coal and Stoker—(Contents listed on other side) ..                                                                                                    | 1                            | 1      |
| Trim Box—Steam Different for Hand Fired Coal and Stoker—(Contents listed on other side) .<br>—Or—<br>Trim Box—Water Different for Hand Fired Coal and Stoker—(Contents listed on other side) .. | 1                            | 1      |
| Fire Tool Bundle (Coal—2 pieces; Stoker—1 piece) ..                                                                                                                                             | 1                            | 1      |
| Built-in Water Heater—On Special Order Only ...                                                                                                                                                 | 1                            | 1      |

See other side for Contents of Plate Work Crate and Steam and Water Trim Boxes.

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# ARCOLINER BOILERS

Contents of Crate and Boxes as listed on other side

| *PLATE WORK CRATE |       |                           |
|-------------------|-------|---------------------------|
| Type of Boiler    |       | Description of Parts      |
| Coal              | Stkr. |                           |
| 1                 | 1     | Cleanout Door Assembly    |
| 1                 | 1     | Fire Door Assembly        |
| 1                 | -     | Ashpit Door Assembly      |
| 1                 | -     | Ashpit Door Sill          |
| 1                 | -     | Smokehood Assembly        |
| -                 | 1     | Smoke Collar              |
| 1                 | -     | Draft Pouch Assembly      |
| 1                 | -     | Shaker Handle             |
| 1                 | 1     | Bag Bolts and Small Parts |

| *STEAM TRIM BOX |       |                                  |
|-----------------|-------|----------------------------------|
| Type of Boiler  |       | Description of Parts             |
| Coal            | Stkr. |                                  |
| 1               | -     | Automatic Steam Regulator        |
| 2               | -     | Counter Weights                  |
| 1               | 1     | Set Water Column Trim (8½ Glass) |
| 1               | 1     | Steam Gauge                      |
| 1               | 1     | Pop Safety Valve and Bushing     |
| 1               | -     | ½" Close Nipple                  |
| 1               | 1     | 1½" x ½" Bushing                 |
| 1               | -     | 1½" x ¼" Bushing                 |
| 1               | 1     | 1½" Radiator Plug                |
| 2               | 2     | ¾" Pipe Plugs                    |
| -               | 1     | Flue Brush                       |

| *WATER TRIM BOX |       |                                            |
|-----------------|-------|--------------------------------------------|
| Type of Boiler  |       | Description of Parts                       |
| Coal            | Stkr. |                                            |
| 1               | -     | Automatic Water Regulator                  |
| 2               | -     | Counter Weights                            |
| 1               | 1     | Combination Altitude Gauge and Thermometer |
| 2               | 2     | ⅜" Countersunk Plugs                       |
| 2               | 2     | ½" Countersunk Plugs                       |
| 1               | 1     | 1¼" Countersunk Plug                       |
| 2               | 2     | ¾" Pipe Plugs                              |
| 1               | 2     | 1½" Radiator Plugs                         |
| -               | 1     | Flue Brush                                 |

\*Contents of Boxes and Crates differ for Coal and Stoker. When shipping be sure to select containers marked for type of boiler furnished.

# OAKMONT OIL BOILERS

## Sections and Parts Required

Oil Fired

STEAM AND WATER

SERIES 1-B

| Complete Boilers Consist of Following Units:                                                                                                   | No. of Units for Each Boiler |     |     |     |     |     |
|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----|-----|-----|-----|-----|
|                                                                                                                                                | #84                          | #85 | #86 | #87 | #88 | #89 |
| F —Front Section—Uncrated .....                                                                                                                | 1                            | 1   | 1   | 1   | 1   | 1   |
| C —7" Center Section—Uncrated .....                                                                                                            | 0                            | 0   | 0   | 0   | 1   | 1   |
| CX—7" Center Connecting Section—Uncrated ..                                                                                                    | 1                            | 1   | 2   | 2   | 2   | 2   |
| NC—3½" Center Section—Uncrated .....                                                                                                           | 0                            | 1   | 0   | 1   | 0   | 1   |
| B —Back Section—Uncrated .....                                                                                                                 | 1                            | 1   | 1   | 1   | 1   | 1   |
| Combination Crate—Different for each size<br>Boiler—(Contents listed other side this sheet) ..                                                 | 1                            | 1   | 1   | 1   | 1   | 1   |
| Trim Box—Steam (Contents listed other side<br>this sheet) .....                                                                                | 1                            | 1   | 1   | 1   | 1   | 1   |
| —Or—<br>Trim Box—Water (Contents listed other side<br>this sheet) .....                                                                        |                              |     |     |     |     |     |
| Built-in Water Heater—(furnished when speci-<br>fied on order) .....                                                                           | 1                            | 1   | 1   | 1   | 1   | 1   |
| Blind Flange—for built-in water heater opening<br>—(Interchangeable; furnished for all Boilers<br>when built-in heater is not specified) ..... | 1                            | 1   | 1   | 1   | 1   | 1   |

**NOTE:** Code letters are cast on head end of all sections. Other Units (crates and boxes) are marked for boiler size if not common to all assemblages.

See other side for Contents of Crates and Boxes included in above list.

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# OAKMONT OIL BOILERS

Contents of Crates and Boxes, as listed on other side

| COMBINATION CRATE |                                                                                     |
|-------------------|-------------------------------------------------------------------------------------|
|                   | Description of Parts                                                                |
| 1                 | Base Assembly                                                                       |
| 4                 | Tie Rods                                                                            |
| 1                 | Flue Brush Handle                                                                   |
| 1                 | Combustion Chamber Baffle Assembly<br>(Furnished on No. 84 and No. 85 Boilers Only) |
| 1                 | Plate Box (Included in Combination Crate)<br>Contains Following Parts:              |
| 1                 | Cleanout Door Assembly                                                              |
| 1                 | Service Door Assembly                                                               |
| 1                 | Smoke Collar                                                                        |
| 2                 | Hinge Plates                                                                        |
| 1                 | By-Pass Cover                                                                       |
| 1                 | Protectostat Flange                                                                 |
| 4                 | Assembly Draw-up Washers                                                            |
| 1                 | Flue Brush                                                                          |
| 1                 | Bag Bolts and Small Parts                                                           |
| 1                 | 7" Nipple Setting Gauge                                                             |
|                   | Boiler Assembly Nipples:                                                            |
| 2                 | 7" for No. 84 Boiler                                                                |
| 4                 | 2" for No. 84 Boiler                                                                |
| 3                 | 7" for Nos. 85 and 86 Boilers                                                       |
| 6                 | 2" for Nos. 85 and 86 Boilers                                                       |
| 4                 | 7" for Nos. 87 and 88 Boilers                                                       |
| 8                 | 2" for Nos. 87 and 88 Boilers                                                       |
| 5                 | 7" for No. 89 Boiler                                                                |
| 10                | 2" for No. 89 Boiler                                                                |
| 1                 | 2 lb. Can Boiler Putty                                                              |
| 1                 | ½ Pt. Red Oxide                                                                     |

| STEAM TRIM BOX |                                  |
|----------------|----------------------------------|
|                | Description of Parts             |
| 1              | Set Water Column Trim (8" Glass) |
| 1              | P. and V. Steam Gauge            |
| 1              | 1" x ½" Pipe Bushing             |
| 1              | 1" Pipe Coupling                 |
| 1              | 1" x 1½" Pipe Nipple             |
| 2              | ¾" x 1¼" Pipe Nipples            |
| 2              | ¾" Pipe Couplings                |
| 1              | Pop Safety Valve and Bushing     |

| WATER TRIM BOX |                                      |
|----------------|--------------------------------------|
|                | Description of Parts                 |
| 1              | Comb. Altitude Gauge and Thermometer |
| 1              | 1" x ½" Pipe Bushing                 |
| 1              | 1" Pipe Coupling                     |
| 1              | 1" x 1½" Pipe Nipple                 |
| 2              | ¾" Pipe Plugs                        |
| 3              | ½" Pipe Plugs                        |
| 1              | 1¼" Countersunk Plug                 |
| 1              | 2½" Pipe Plug                        |

# No. 2 REDFLASH BOILERS

## Sections and Parts Required

Coal (Hand Fired) and Stoker

STEAM AND WATER

SERIES 13-B

| Complete Boiler Consists of Following Units:                                                                                       | No. of Units for Each Boiler |      |      |      |       |       |            |            |
|------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------|------|------|-------|-------|------------|------------|
|                                                                                                                                    | #2-6<br>*                    | #2-7 | #2-8 | #2-9 | #2-10 | #2-11 | #2-12<br>* | #2-13<br>* |
| A —Front Section ( 5'')—Uncrated .....                                                                                             | 0                            | 1    | 0    | 1    | 0     | 1     | 0          | 1          |
| F —Front Section (10'')—Uncrated .....                                                                                             | 1                            | 0    | 1    | 0    | 1     | 0     | 1          | 0          |
| FCX—Front Center Connecting Section—<br>(Uncrated) .....                                                                           | 0                            | 1    | 0    | 1    | 0     | 1     | 0          | 1          |
| C —Center Section—Uncrated .....                                                                                                   | 0                            | 1    | 1    | 2    | 2     | 2     | 2          | 2          |
| CX —Center Connecting Section—Uncrated .....                                                                                       | 1                            | 0    | 1    | 0    | 1     | 1     | 1          | 1          |
| RCX—Rear Center Connecting Section—Uncrated .....                                                                                  | 0                            | 0    | 0    | 0    | 0     | 0     | 1          | 1          |
| BX —Back Connecting Section—Uncrated .....                                                                                         | 1                            | 1    | 1    | 1    | 1     | 1     | 1          | 1          |
| Combination Front Door & Base Crate (Same for<br>Hand Fired and Stoker)—Contents listed other<br>side .....                        | 1                            | 1    | 1    | 1    | 1     | 1     | 1          | 1          |
| Smokehood Crate—(Same for Hand Fired Coal<br>and Stoker)—Contents listed other side .....                                          | 1                            | 1    | 1    | 1    | 1     | 1     | 1          | 1          |
| Plate Box (Includes Tie Rods up to 8 Secs.). Differ-<br>ent for Hand Fired Coal and Stoker. Contents<br>listed on other side ..... | 1                            | 1    | 1    | 1    | 1     | 1     | 1          | 1          |
| Trim Box—Steam or Water—(Different for Hand<br>Fired Coal and Stoker). Contents of each listed<br>on other side .....              | 1                            | 1    | 1    | 1    | 1     | 1     | 1          | 1          |
| Fire Tool Bundle—Coal, 2 Pieces; Stoker, 1 Piece ..                                                                                | 1                            | 1    | 1    | 1    | 1     | 1     | 1          | 1          |
| Tie Rod Bundle—8 Secs. and Larger—Same for<br>Hand Fired Coal and Stoker .....                                                     | 0                            | 0    | 1    | 1    | 1     | 1     | 1          | 1          |
| Side Base Panels, Hand Fired or Stoker .....                                                                                       | 2                            | 2    | 2    | 2    | 2     | 2     | 2          | 2          |
| Stoker Parts Box, All Sizes—Contents other side ..                                                                                 | 0                            | 1    | 1    | 1    | 1     | 1     | 1          | 1          |
| Grate Bars Supplied with Hand Fired Boilers:                                                                                       |                              |      |      |      |       |       |            |            |
| Left Hand Grate (#24-S-86) .....                                                                                                   | 4                            | 5    | 6    | 7    | 4     | 5     | 0          | 0          |
| Right Hand Grate (#24-S-136) .....                                                                                                 | 0                            | 0    | 0    | 0    | 4     | 4     | 0          | 0          |

**NOTE:** Code letters are cast on head end of all sections. Other Units (crates, boxes and bundles) are marked for boiler size if not common to all assemblages.

**\*NOTE:** No. 2-6 Boiler furnished Hand Fired only. Nos. 2-12 and 2-13 for Stoker only. Others listed are for both Coal and Stoker.

See other side for Contents of Crates and Boxes included in above list.

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# No. 2 REDFLASH BOILERS

Contents of Crates and Boxes, as listed on other side

| COMBINATION FRONT DOOR<br>AND BASE CRATE |      |                                    |
|------------------------------------------|------|------------------------------------|
| Type of Boiler                           |      | Description of Parts               |
| Coal                                     | Stk. |                                    |
| 1                                        | 1    | R. H. Cleanout Door Assembly       |
| 1                                        | 1    | L. H. Cleanout Door Assembly       |
| 1                                        | 1    | Fire Door Assembly                 |
| 1                                        | 1    | Slice Door Assembly                |
| 3                                        | 3    | Hinges for Cleanout and Fire Doors |
| 1                                        | 1    | Hinge for Slice Door               |
| 2                                        | 2    | Door Catches (Single)              |
| 1                                        | 1    | Door Catch (Double)                |
| 1                                        | 1    | Set of Hinge Bolts and Hinge Pins  |
| 1                                        | 1    | Front Base Panel Assembly          |
| 1                                        | 1    | Rear Base Panel                    |

| *STEAM TRIM BOX |      |                                  |
|-----------------|------|----------------------------------|
| Type of Boiler  |      | Description of Parts             |
| Coal            | Stk. |                                  |
| 1               | 0    | Automatic Steam Regulator        |
| 2               | 0    | Counter Weights                  |
| 1               | 1    | Set Water Column Trim (9¼ Glass) |
| 1               | 1    | Pop Safety Valve and Bushing     |
| 1               | 1    | Steam Gauge                      |
| 1               | 1    | ½" x ¼" Bushing                  |
| 1               | 0    | 2" x ¼" Bushing (for Regulator)  |
| 1               | 0    | ½" Pipe Nipple (for Regulator)   |
| 0               | 1    | 1" Pipe Plug                     |
| 1               | 1    | 1½" Radiator Plug                |
| 0               | 1    | 2" Radiator Plug                 |
| 1               | 1    | 1½" Countersunk Plug             |
| 1               | 1    | 2½" Pipe Plug                    |

| *WATER TRIM BOX |      |                                            |
|-----------------|------|--------------------------------------------|
| Type of Boiler  |      | Description of Parts                       |
| Coal            | Stk. |                                            |
| 1               | 0    | Automatic Water Regulator                  |
| 2               | 0    | Counter Weights                            |
| 1               | 1    | Combination Altitude Gauge and Thermometer |
| 2               | 2    | 1½" Radiator Plug                          |
| 0               | 1    | 2" Radiator Plug                           |
| 1               | 1    | 1½" Countersunk Plugs                      |
| 2               | 2    | ½" Countersunk Plugs                       |
| 2               | 2    | ¾" Countersunk Plugs                       |
| 1               | 1    | 2½" Pipe Plug                              |
| 0               | 1    | 1" Pipe Plug                               |
| 1               | 0    | 2" x 1½" Bushing                           |

| SMOKEHOOD CRATE |      |                                                   |
|-----------------|------|---------------------------------------------------|
| Type of Boiler  |      | Description of Parts                              |
| Coal            | Stk. |                                                   |
| 1               | 1    | Smokehood Complete with Check Draft Door Assembly |

| *PLATE BOX     |      |                                                                          |
|----------------|------|--------------------------------------------------------------------------|
| Type of Boiler |      | Description of Parts                                                     |
| Coal           | Stk. |                                                                          |
| 1              | 0    | Draft Pouch Assembly                                                     |
| 1              | 0    | Set of Grate Connecting Arms                                             |
| 1              | 0    | Set of Angle Lever Plates                                                |
| 0              | 1    | Set of Angle Levers and Links                                            |
| 1              | 1    | Set of Assembly Blocks                                                   |
| 1              | 1    | Bag Bolts and Small Parts                                                |
| 1              | 0    | Connecting Arm Cover Plate Assembly for 6 to 9 Section Coal Boilers Only |
| 1              | 0    | Regulator Lever                                                          |
| 1              | 0    | Regulator Rod Assembly                                                   |
| 1              | 0    | Shaker Handle                                                            |
| 1              | 1    | 7" Nipple Setting Gauge                                                  |
| 4              | 4    | Tie Rods for 6 and 7 Section Boilers Only                                |
|                |      | Boiler Assembly Nipples:                                                 |
| 2              | -    | 7" for 6 Sec. Boilers                                                    |
| 4              | -    | 2½" for 6 Sec. Boilers                                                   |
| 3              | 3    | 7" for 7 and 8 Sec. Boilers                                              |
| 6              | 6    | 2½" for 7 and 8 Sec. Boilers                                             |
| 4              | 4    | 7" for 9 and 10 Sec. Boilers                                             |
| 8              | 8    | 2½" for 9 and 10 Sec. Boilers                                            |
| 5              | 5    | 7" for 11 Sec. Boilers                                                   |
| 10             | 10   | 2½" for 11 Sec. Boilers                                                  |
| -              | 5    | 7" for 12 Sec. Boilers                                                   |
| -              | 10   | 2½" for 12 Sec. Boilers                                                  |
| -              | 6    | 7" for 13 Sec. Boilers                                                   |
| -              | 12   | 2½" for 13 Sec. Boilers                                                  |
| 1              | 1    | 2 to 5 lbs. Boiler Putty                                                 |
| 1              | 1    | ½ or 1 Pt. Red Oxide                                                     |

| STOKER PARTS BOX |                                |
|------------------|--------------------------------|
|                  | Description of Parts           |
| 1                | Draft Opening Cover Plate      |
| 1                | Conn. Arm Cover Plate Assembly |
| 2                | Angle Lever Plates with Covers |

\*Contents of Steam Trim Box, Water Trim Box and Plate Box differ for Coal and Stoker. The Combination Front Door and Base Crate and Smokehood Crate are the same for both. When shipping be sure to select containers marked for type of boiler furnished.

# No. 3 REDFLASH BOILERS

## Sections and Parts Required

Coal (Hand Fired) and Stoker STEAM AND WATER SERIES 10-B AND 11-B

| Complete Boilers Consist of Following Units:                                                                 | No. of Units for Each Boiler |           |           |      |       |       |       |       |       |            |
|--------------------------------------------------------------------------------------------------------------|------------------------------|-----------|-----------|------|-------|-------|-------|-------|-------|------------|
|                                                                                                              | #3-6<br>*                    | #3-7<br>* | #3-8<br>* | #3-9 | #3-10 | #3-11 | #3-12 | #3-13 | #3-14 | #3-15<br>* |
| F —Front Section—Uncrated.....                                                                               | 1                            | 1         | 1         | 1    | 1     | 1     | 1     | 1     | 1     | 1          |
| FCX—Front Center Connecting Section—Uncrated.....                                                            | 1                            | 1         | 1         | 1    | 1     | 1     | 1     | 1     | 1     | 1          |
| C —Center Section—Uncrated.....                                                                              | 2                            | 2         | 2         | 2    | 3     | 4     | 4     | 5     | 5     | 6          |
| CX —Center Connecting Section—Uncrated.....                                                                  | 0                            | 1         | 1         | 2    | 2     | 2     | 2     | 2     | 3     | 3          |
| RC —Rear Center Section—Uncrated.....                                                                        | 0                            | 0         | 1         | 1    | 1     | 1     | 1     | 1     | 1     | 1          |
| RCX—Rear Center Connecting Section—Uncrated.....                                                             | 1                            | 1         | 1         | 1    | 1     | 1     | 2     | 2     | 2     | 2          |
| B —Back Section—Uncrated.....                                                                                | 1                            | 1         | 1         | 1    | 1     | 1     | 1     | 1     | 1     | 1          |
| Front Door Crate—Same for Coal and Stoker (Contents listed other side).....                                  | 1                            | 1         | 1         | 1    | 1     | 1     | 1     | 1     | 1     | 1          |
| Smokehood Crate—Same for Coal and Stoker (Contents listed other side).....                                   | 1                            | 1         | 1         | 1    | 1     | 1     | 1     | 1     | 1     | 1          |
| Plate Box—Different for Coal & Stoker (Contents listed other side).....                                      | 1                            | 1         | 1         | 1    | 1     | 1     | 1     | 1     | 1     | 1          |
| Trim Box—Steam or Water—(Different for Hand Fired Coal and Stoker) (Contents of each listed other side)..... | 1                            | 1         | 1         | 1    | 1     | 1     | 1     | 1     | 1     | 1          |
| Fire Tool Bundle—Coal, 3 Pieces; Stoker, 1 Piece.....                                                        | 1                            | 1         | 1         | 1    | 1     | 1     | 1     | 1     | 1     | 1          |
| Tie Rod Bundle—Same for Hand Fired and Stoker.....                                                           | 1                            | 1         | 1         | 1    | 1     | 1     | 1     | 1     | 1     | 1          |
| Stoker Parts Box (Contents listed on other side)—All Sizes.....                                              | 0                            | 0         | 0         | 1    | 1     | 1     | 1     | 1     | 1     | 0          |
| Front Base Panel (#32-S-9).....                                                                              | 1                            | 1         | 1         | 1    | 1     | 1     | 1     | 1     | 1     | 1          |
| Rear Base Panel (#32-S-10).....                                                                              | 1                            | 1         | 1         | 1    | 1     | 1     | 1     | 1     | 1     | 1          |
| Side Base Panels—(1 Plain; 1 with opening).....                                                              | 2                            | 2         | 2         | 2    | 2     | 2     | 2     | 2     | 2     | 2          |
| Base Extension—4 Sec. (#32-S-68) for 11, 12, 13, 14 Section Boilers.....                                     | 2                            | 2         | 2         | 2    | 2     | 2     | 2     | 2     | 2     | 2          |
| Base Extension—1 Sec. (#32-S-104) for 15 Section Boiler only. (Included with 4 Section Extension).....       | 2                            | 2         | 2         | 2    | 2     | 2     | 2     | 2     | 2     | 2          |
| Grate Bars Supplied with Hand Fired Boilers:                                                                 |                              |           |           |      |       |       |       |       |       |            |
| Left Hand Grate (#32-S-70).....                                                                              | 4                            | 3         | 3         | 4    | 4     | 5     | 5     | 6     | 6     | 7          |
| Right Hand Grate (#32-S-71).....                                                                             | 0                            | 2         | 3         | 3    | 4     | 4     | 5     | 5     | 6     | 6          |

NOTE: Code Letters are cast on head end of all sections. Other Units (crates, boxes and bundles) are marked for boiler size if not common to all assemblages.

\*NOTE: Nos. 3-6, 3-7, 3-8 and 3-15 Boilers furnished hand fired only. All others for both hand fired Coal and Stoker.

★ Same for Hand Fired Coal and Stoker.

See other side for contents of crates and boxes included in above list.

# No. 3 REDFLASH BOILERS

Contents of Crates and Boxes, as listed on other side

| FRONT DOOR CRATE |       |                                    |
|------------------|-------|------------------------------------|
| Type of Boiler   |       | Description of Parts               |
| Coal             | Stkr. |                                    |
| 1                | 1     | R. H. Cleanout Door Assembly       |
| 1                | 1     | L. H. Cleanout Door Assembly       |
| 1                | 1     | Fire Door Assembly                 |
| 1                | 1     | Slice Door Assembly                |
| 3                | 3     | Hinges for Cleanout and Fire Doors |
| 1                | 1     | Hinge for Slice Door               |
| 2                | 2     | Door Catches (Single)              |
| 1                | 1     | Door Catch (Double)                |
| 1                | 1     | Set Hinge Bolts and Hinge Pins     |

| *STEAM TRIM BOX |       |                                       |
|-----------------|-------|---------------------------------------|
| Type of Boiler  |       | Description of Parts                  |
| Coal            | Stkr. |                                       |
| 1               | 0     | Automatic Steam Regulator             |
| 1               | 0     | Counterweight                         |
| 1               | 1     | Set Water Column Trim (11 1/4" Glass) |
| 1               | 1     | Pop Safety Valve and Bushing          |
| 1               | 1     | Steam Gauge                           |
| 1               | 1     | 1 1/4" x 1/4" Bushing                 |
| 1               | 0     | 2" x 1" Bushing                       |
| 0               | 1     | 1" Pipe Plug                          |
| 1               | 2     | 2" Radiator Plugs                     |
| 1               | 1     | 1 1/2" Radiator Plugs                 |
| 1               | 1     | 1 1/2" Countersunk Plug               |

| *WATER TRIM BOX |       |                                      |
|-----------------|-------|--------------------------------------|
| Type of Boiler  |       | Description of Parts                 |
| Coal            | Stkr. |                                      |
| 1               | 0     | Hand Control Post and Clamp          |
| 1               | 1     | Comb. Altitude Gauge and Thermometer |
| 1               | 0     | 2" x 3/4" Bushing                    |
| 1               | 1     | 1 1/4" x 1/2" Bushing                |
| 1               | 1     | 2 1/2" Pipe Plug                     |
| 1               | 2     | 2" Radiator Plugs                    |
| 1               | 1     | 1 1/2" Radiator Plug                 |
| 1               | 1     | 1 1/2" Countersunk Plug              |
| 2               | 2     | 1/2" Countersunk Plugs               |
| 2               | 2     | 3/8" Countersunk Plugs               |
| 0               | 1     | 1" Pipe Plug                         |

| SMOKEHOOD CRATE |       |                                                    |
|-----------------|-------|----------------------------------------------------|
| Type of Boiler  |       | Description of Parts                               |
| Coal            | Stkr. |                                                    |
| 1               | 1     | Smokehood Complete, with Check Draft Door Assembly |

| STOKER PARTS BOX |                                                                                                                                                                                                         |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  | Description of Parts                                                                                                                                                                                    |
| 1                | No. 3 Ashpit Door with Hinge and Catch<br>Angle Lever Plates Complete<br>Necessary Supplies for Above Parts<br><br>NOTE: Stoker Parts Box is interchangeable for both No. 3 and No. 4 Redflash Boilers. |
| 2                |                                                                                                                                                                                                         |
| 1                |                                                                                                                                                                                                         |

| *PLATE BOX     |       |                                                |
|----------------|-------|------------------------------------------------|
| Type of Boiler |       | Description of Parts                           |
| Coal           | Stkr. |                                                |
| 1              | 0     | Ashpit Door with Hinge and Catch               |
| 2              | 0     | Angle Lever Plates                             |
| 1              | 0     | Set of Grate Connecting Arms                   |
| 1              | 0     | Set of Angle Levers and Links                  |
| 0              | 1     | No. 3 Draft Cover Plate (9 to 11 Secs.)        |
| 0              | 1     | No. 4 Draft Cover Plate (12 to 14 Secs.)       |
| 1              | 1     | Set of Assembly Draw-up Blocks                 |
| 1              | 1     | Set of Assembly Clamp Blocks                   |
| 1              | 0     | No. 3 Draft Pouch Assembly (6 to 11 Sections)  |
| 1              | 0     | No. 4 Draft Pouch Assembly (12 to 15 Sections) |
| 1              | 0     | Regulator Lever                                |
| 1              | 0     | Regulator Rod Assembly                         |
| 1              | 0     | Shaker Handle                                  |
|                |       | Boiler Assembly Nipples:                       |
| 5              | -     | 6" for 6 Sec. Boilers                          |
| 10             | -     | 3" for 6 Sec. Boilers                          |
| 6              | -     | 6" for 7 Sec. Boilers                          |
| 12             | -     | 3" for 7 Sec. Boilers                          |
| 7              | -     | 6" for 8 Sec. Boilers                          |
| 14             | -     | 3" for 8 Sec. Boilers                          |
| 8              | 8     | 6" for 9 Sec. Boilers                          |
| 16             | 16    | 3" for 9 Sec. Boilers                          |
| 9              | 9     | 6" for 10 Sec. Boilers                         |
| 18             | 18    | 3" for 10 Sec. Boilers                         |
| 10             | 10    | 6" for 11 Sec. Boilers                         |
| 20             | 20    | 3" for 11 Sec. Boilers                         |
| 11             | 11    | 6" for 12 Sec. Boilers                         |
| 22             | 22    | 3" for 12 Sec. Boilers                         |
| 12             | 12    | 6" for 13 Sec. Boilers                         |
| 24             | 24    | 3" for 13 Sec. Boilers                         |
| 13             | 13    | 6" for 14 Sec. Boilers                         |
| 26             | 26    | 3" for 14 Sec. Boilers                         |
| 14             | -     | 6" for 15 Sec. Boilers                         |
| 28             | -     | 3" for 15 Sec. Boilers                         |
| 1              | 1     | 6" Nipple Setting Gauge                        |
| 1              | 1     | 5 to 11 lbs. Boiler Putty                      |
| 1              | 1     | 1 Pt. or 1 1/2 Pts. Red Oxide                  |
| 1              | 1     | Bag Bolts and Small Parts                      |

\*Contents of Steam Trim Box, Water Trim Box and Plate Box differ for Coal and Stoker. Front Door Crate and Smokehood Crate are the same for both. When shipping be sure to select containers marked for type of boiler furnished.

# No. 4 REDFLASH BOILERS

## Sections and Parts Required

Coal (Hand Fired) and Stoker

STEAM AND WATER

SERIES 8-B

| Complete Boilers Consist of Following Units:                                                  | No. of Units for Each Boiler |           |           |       |       |       |       |       |            |
|-----------------------------------------------------------------------------------------------|------------------------------|-----------|-----------|-------|-------|-------|-------|-------|------------|
|                                                                                               | #4-7<br>*                    | #4-8<br>* | #4-9<br>* | #4-10 | #4-11 | #4-12 | #4-13 | #4-14 | #4-15<br>* |
| F —Front Section—Uncrated .....                                                               | 1                            | 1         | 1         | 1     | 1     | 1     | 1     | 1     | 1          |
| FCX—Front Center Connecting Section—Uncrated .....                                            | 1                            | 1         | 1         | 1     | 1     | 1     | 1     | 1     | 1          |
| C —Center Section—Uncrated .....                                                              | 1                            | 2         | 2         | 2     | 3     | 3     | 4     | 4     | 4          |
| CX —Center Connecting Section—Uncrated .....                                                  | 1                            | 1         | 1         | 2     | 2     | 3     | 3     | 4     | 4          |
| RC —Rear Center Section—Uncrated .....                                                        | 1                            | 1         | 1         | 2     | 1     | 2     | 1     | 2     | 2          |
| RCX—Rear Center Connecting Section—Uncrated .....                                             | 1                            | 1         | 2         | 1     | 2     | 1     | 2     | 1     | 2          |
| B —Back Section—Uncrated .....                                                                | 1                            | 1         | 1         | 1     | 1     | 1     | 1     | 1     | 1          |
| ★ { Front Door Crate (Contents listed on other side)                                          | 1                            | 1         | 1         | 1     | 1     | 1     | 1     | 1     | 1          |
| Smokehood Crate (Contents listed other side)                                                  | 1                            | 1         | 1         | 1     | 1     | 1     | 1     | 1     | 1          |
| Plate Box (Contents listed other side)—Different for Hand Fired Coal and Stoker .....         | 1                            | 1         | 1         | 1     | 1     | 1     | 1     | 1     | 1          |
| Trim Box—Steam or Water—Different for Coal and Stoker—(Contents other side) ..                | 1                            | 1         | 1         | 1     | 1     | 1     | 1     | 1     | 1          |
| Fire Tool Bundle (Coal, 3 Pieces; Stoker, 1 Piece)                                            | 1                            | 1         | 1         | 1     | 1     | 1     | 1     | 1     | 1          |
| Tie Rod Bundle—Same for Coal and Stoker ..                                                    | 1                            | 1         | 1         | 1     | 1     | 1     | 1     | 1     | 1          |
| Stoker Parts Box—All Sizes (Contents listed other side) .....                                 | 0                            | 0         | 0         | 1     | 1     | 1     | 1     | 1     | 0          |
| ★ { Front Base Panel (#40-S-100) .....                                                        | 1                            | 1         | 1         | 1     | 1     | 1     | 1     | 1     | 1          |
| Rear Base Panel (#40-S-9) .....                                                               | 1                            | 1         | 1         | 1     | 1     | 1     | 1     | 1     | 1          |
| Side Base Panels (1 Plain; 1 with Opening) ..                                                 | 2                            | 2         | 2         | 2     | 2     | 2     | 2     | 2     | 2          |
| ★ { Base Extension—5 Sec. (#40-S-59) For 11, 12, 13, 14, 15 Section Boilers .....             | 2                            | 2         | 2         | 2     | 2     | 2     | 2     | 2     | 2          |
| Base Extension—1 Sec. (#40-S-96) Included with 5 Sec. Extension for 15 Sec. Boiler only ..... | 2                            | 2         | 2         | 2     | 2     | 2     | 2     | 2     | 2          |
| Grate Bars Supplied with Hand Fired Boilers:                                                  |                              |           |           |       |       |       |       |       |            |
| Left Hand Grate (#40-S-67) .....                                                              | 3                            | 3         | 4         | 4     | 5     | 5     | 6     | 6     | 7          |
| Right Hand Grate (#40-S-68) .....                                                             | 2                            | 3         | 3         | 4     | 4     | 5     | 5     | 6     | 6          |

NOTE: Code letters are cast on head end of all sections. Other Units (crates, boxes and bundles) are marked for boiler size if not common to all assemblages.

\*NOTE: Nos. 4-7, 4-8, 4-9 and 4-15 Boilers furnished hand fired only. All others for both hand fired and stoker.

★ Same for Hand Fired Coal and Stoker.

See other side for Contents of Crates and Boxes in above list.

# No. 4 REDFLASH BOILERS

Contents of Crates and Boxes, as listed on other side

| FRONT DOOR CRATE |      |                                    |
|------------------|------|------------------------------------|
| Type of Boiler   |      | Description of Parts               |
| Coal             | Stk. |                                    |
| 1                | 1    | R. H. Cleanout Door Assembly       |
| 1                | 1    | L. H. Cleanout Door Assembly       |
| 1                | 1    | R. H. Fire Door Assembly           |
| 1                | 1    | L. H. Fire Door Assembly           |
| 4                | 4    | Hinges for Cleanout and Fire Doors |
| 2                | 2    | Door Catches (Double)              |
| 1                | 1    | Set Hinge Bolts and Hinge Pins     |

| STOKER PARTS BOX |                                                                                      |
|------------------|--------------------------------------------------------------------------------------|
|                  | Description of Parts                                                                 |
| 1                | No. 3 Ashpit Door with Hinge and Catch                                               |
| 2                | Angle Lever Plates Complete                                                          |
| 1                | Necessary Supplies for Above Parts                                                   |
|                  | Note: Stoker Parts Box is interchangeable for both No. 3 and No. 4 Redflash Boilers. |

| *STEAM TRIM BOX |      |                                       |
|-----------------|------|---------------------------------------|
| Type of Boiler  |      | Description of Parts                  |
| Coal            | Stk. |                                       |
| 1               | 0    | Automatic Steam Regulator             |
| 1               | 0    | Counterweight                         |
| 1               | 1    | Set Water Column Trim (11 1/4" Glass) |
| 1               | 1    | Pop Safety Valve and Bushing          |
| 1               | 1    | Steam Gauge                           |
| 1               | 1    | 1 1/4" x 1/4" Bushing                 |
| 1               | 0    | 2" x 1" Bushing                       |
| 1               | 2    | 2" Radiator Plug                      |
| 1               | 1    | 1 1/2" Radiator Plug                  |
| 1               | 1    | 1 1/2" Countersunk Plug               |
| 0               | 1    | 1" Pipe Plug                          |

| *WATER TRIM BOX |      |                                      |
|-----------------|------|--------------------------------------|
| Type of Boiler  |      | Description of Parts                 |
| Coal            | Stk. |                                      |
| 1               | 0    | Hand Control Post and Clamp          |
| 1               | 1    | Comb. Altitude Gauge and Thermometer |
| 1               | 0    | 2" x 3/4" Bushing                    |
| 1               | 1    | 1 1/4" x 1/2" Bushing                |
| 1               | 1    | 3" Pipe Plug                         |
| 1               | 2    | 2" Radiator Plug                     |
| 1               | 1    | 1 1/2" Radiator Plug                 |
| 1               | 1    | 1 1/2" Countersunk Plug              |
| 2               | 2    | 1/2" Countersunk Plugs               |
| 2               | 2    | 3/8" Countersunk Plugs               |
| 0               | 1    | 1" Pipe Plug                         |

| SMOKEHOOD CRATE |      |                                                   |
|-----------------|------|---------------------------------------------------|
| Type of Boiler  |      | Description of Parts                              |
| Coal            | Stk. |                                                   |
| 1               | 1    | Smokehood Complete with Check Draft Door Assembly |

| *PLATE BOX     |      |                                  |
|----------------|------|----------------------------------|
| Type of Boiler |      | Description of Parts             |
| Coal           | Stk. |                                  |
| 1              | 0    | Ashpit Door with Hinge and Catch |
| 2              | 0    | Angle Lever Plates               |
| 1              | 0    | Set of Grate Connecting Arms     |
| 1              | 0    | Set of Angle Levers and Links    |
| 0              | 1    | No. 4 Draft Cover Plate          |
| 1              | 1    | Set of Assembly Draw-Up Blocks   |
| 1              | 1    | Set of Assembly Clamp Blocks     |
| 1              | 0    | Draft Pouch Assembly             |
| 1              | 0    | Regulator Lever                  |
| 1              | 0    | Regulator Rod Assembly           |
| 1              | 0    | Shaker Handle                    |
| 1              | 1    | Flue Brush                       |
|                |      | Boiler Assembly Nipples:         |
| 6              | -    | 6" for 7 Sec. Boilers            |
| 12             | -    | 4" for 7 Sec. Boilers            |
| 7              | -    | 6" for 8 Sec. Boilers            |
| 14             | -    | 4" for 8 Sec. Boilers            |
| 8              | -    | 6" for 9 Sec. Boilers            |
| 16             | -    | 4" for 9 Sec. Boilers            |
| 9              | 9    | 6" for 10 Sec. Boilers           |
| 18             | 18   | 4" for 10 Sec. Boilers           |
| 10             | 10   | 6" for 11 Sec. Boilers           |
| 20             | 20   | 4" for 11 Sec. Boilers           |
| 11             | 11   | 6" for 12 Sec. Boilers           |
| 22             | 22   | 4" for 12 Sec. Boilers           |
| 12             | 12   | 6" for 13 Sec. Boilers           |
| 24             | 24   | 4" for 13 Sec. Boilers           |
| 13             | 13   | 6" for 14 Sec. Boilers           |
| 26             | 26   | 4" for 14 Sec. Boilers           |
| 14             | -    | 6" for 15 Sec. Boilers           |
| 28             | -    | 4" for 15 Sec. Boilers           |
| 1              | 1    | 6" Nipple Setting Gauge          |
| 1              | 1    | 6 to 13 lbs. Boiler Putty        |
| 1              | 1    | 1 Pt. or 1 1/2 Pts. Red Oxide    |
| 1              | 1    | Bag Bolts and Small Parts        |

\*Contents of Steam Trim Box, Water Trim Box and Plate Box differ for Coal and Stoker. Front Door Crate and Smokehood Crate are the same for both. When shipping be sure to select containers marked for type of boiler furnished.

# No. 5 REDFLASH BOILERS

## Sections and Parts Required

Coal (Hand Fired) and Stoker

STEAM AND WATER

SERIES 3-B

| Complete Boilers Consist of Following Units:                                             | No. of Units for Each Boiler |           |       |       |       |       |       |       |       |       |
|------------------------------------------------------------------------------------------|------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                                                                          | #5-8<br>*                    | #5-9<br>* | #5-10 | #5-11 | #5-12 | #5-13 | #5-14 | #5-15 | #5-16 | #5-17 |
| F — Front Section .....                                                                  | 1                            | 1         | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     |
| FCX — Front Center Connecting Section .....                                              | 1                            | 1         | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     |
| C — Center Hand Fired Assembly .....                                                     | 2                            | 2         | 3     | 3     | 3     | 4     | 4     | 5     | 4     | 5     |
| Section/Stoker Assembly .....                                                            | —                            | —         | 3     | 3     | 4     | 5     | 5     | 6     | 5     | 6     |
| CX — Center Connecting Section .....                                                     | 1                            | 2         | 2     | 3     | 3     | 3     | 3     | 3     | 4     | 3     |
| RC — Rear Center Section .....                                                           | 1                            | 1         | 1     | 1     | 1     | 1     | 1     | 1     | 2     | 2     |
| RCX — Rear Center Connecting Section .....                                               | 1                            | 1         | 1     | 1     | 1     | 2     | 2     | 2     | 2     | 3     |
| BW — Bridgwall Section—Hand Fired Coal Only .....                                        | 0                            | 0         | 0     | 0     | 1     | 1     | 1     | 1     | 1     | 1     |
| B — Back Section .....                                                                   | 1                            | 1         | 1     | 1     | 0     | 0     | 0     | 0     | 0     | 0     |
| BD — Back Section with Cleanout Doors .....                                              | 0                            | 0         | 0     | 0     | 1     | 1     | 1     | 1     | 1     | 1     |
| Front Door Crates—Same for Coal and Stoker (Contents listed other side) ..               | 1                            | 1         | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     |
| Smokehood Crates—Same for Coal and Stoker (Contents listed other side) ..                | 1                            | 1         | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     |
| Plate Box—Different for Coal & Stoker (Contents listed other side) .....                 | 1                            | 1         | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     |
| Trim Box—Steam or Water—Different for Coal and Stoker—(Contents listed other side) ..... | 1                            | 1         | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     |
| Fire Tool Bundle (Coal, 3 Pieces; Stoker, 1 Piece) .....                                 | 1                            | 1         | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     |
| Tie Rod Bundle—Same for Coal & Stoker .....                                              | 1                            | 1         | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     |
| Stoker Parts Box—All Sizes—(Contents listed other side) .....                            | 0                            | 0         | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     |
| Front Base Panel (#50-S-11) .....                                                        | 1                            | 1         | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     |
| Rear Base Panel (#50-S-12) .....                                                         | 1                            | 1         | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     |
| Side Base Panels—Coal or Stoker .....                                                    | 2                            | 2         | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     |
| Base Extensions #50-S-23 .....                                                           | 0                            | 0         | 2     | 2     | 2     | 2     | 0     | 0     | 0     | 0     |
| Base Extensions #50-S-24 .....                                                           | 0                            | 0         | 0     | 0     | 0     | 0     | 2     | 2     | 2     | 0     |
| Base Extensions #50-S-45 .....                                                           | 0                            | 0         | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 2     |
| Bridgwall Base Panel #50-S-41—Hand Fired Coal .....                                      | 0                            | 0         | 0     | 0     | 1     | 1     | 1     | 1     | 1     | 1     |
| Grate Bars and Dead Plates Supplied with Hand Fired Boilers:                             |                              |           |       |       |       |       |       |       |       |       |
| Left Hand Grate (#50-S-13) .....                                                         | 3                            | 4         | 4     | 5     | 4     | 4     | 4     | 5     | 5     | 5     |
| Right Hand Grate (#50-S-14) .....                                                        | 3                            | 3         | 4     | 4     | 3     | 4     | 4     | 4     | 4     | 4     |
| Dead Plates #50-S-65—Single .....                                                        | 0                            | 0         | 0     | 0     | 1     | 1     | 0     | 0     | 1     | 0     |
| Dead Plates #50-S-66—Double .....                                                        | 0                            | 0         | 0     | 0     | 0     | 0     | 1     | 1     | 1     | 2     |
| Dead Plates #50-S-64—Rear .....                                                          | 0                            | 0         | 0     | 0     | 1     | 1     | 1     | 1     | 1     | 1     |

NOTE: Code letters are cast on head end of all sections. Other Units (crates, boxes, and bundles) are marked for boiler size if not common to all assemblages.

\*NOTE: Nos. 5-8 and 5-9 Boilers furnished hand fired only. All others for both hand fired and stoker.

★ Same for Hand Fired Coal or Stoker.

See other side for Contents of Crates and Boxes in above list.

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# No. 5 REDFLASH BOILERS

Contents of Crates and Boxes, as listed on other side

| *STEAM TRIM BOX |      |                                       |
|-----------------|------|---------------------------------------|
| Type of Boiler  |      | Description of Parts                  |
| Coal            | Stk. |                                       |
| 1               | 0    | Automatic Steam Regulator             |
| 1               | 0    | Counterweight                         |
| 1               | 1    | Set Water Column Trim (11 1/4" Glass) |
| 1               | 1    | Pop Safety Valve and Bushing          |
| 1               | 1    | Steam Gauge                           |
| 1               | 1    | 1 1/4" x 1/4" Bushing                 |
| 1               | 0    | 2" x 1" Bushing                       |
| 1               | 1    | 3" Pipe Plug                          |
| 1               | 2    | 2" Radiator Plug                      |
| 1               | 1    | 2" Countersunk Plug                   |
| 0               | 1    | 1" Pipe Plug                          |

| *WATER TRIM BOX |      |                                      |
|-----------------|------|--------------------------------------|
| Type of Boiler  |      | Description of Parts                 |
| Coal            | Stk. |                                      |
| 1               | 0    | Hand Control Post and Clamp          |
| 1               | 1    | Comb. Altitude Gauge and Thermometer |
| 1               | 1    | 1 1/4" x 1/2" Bushing                |
| 1               | 0    | 2" x 3/4" Bushing                    |
| 1               | 1    | 3 1/2" Pipe Plug                     |
| 1               | 1    | 3" Pipe Plug                         |
| 1               | 2    | 2" Radiator Plugs                    |
| 1               | 1    | 2" Countersunk Plug                  |
| 2               | 2    | 1/2" Countersunk Plugs               |
| 2               | 2    | 3/8" Countersunk Plugs               |
| 0               | 1    | 1" Pipe Plug                         |

|   |  | STOKER PARTS BOX                                                                                   |
|---|--|----------------------------------------------------------------------------------------------------|
|   |  | Description of Parts                                                                               |
| 1 |  | For 10 and 11 Section Boilers:                                                                     |
| 1 |  | R. H. Ashpit Door                                                                                  |
| 1 |  | L. H. Ashpit Door                                                                                  |
| 1 |  | Set Ashpit Door Hinges and Catches                                                                 |
| 1 |  | Set Angle Lever Plates with Slot Covers                                                            |
| 1 |  | For 12 to 17 Section Boilers:                                                                      |
| 1 |  | Same as Shown, but including Cleanout Door Assembly Complete with Hinge and Catch for Back Section |

| SMOKEHOOD CRATE |      |                                                   |
|-----------------|------|---------------------------------------------------|
| Type of Boiler  |      | Description of Parts                              |
| Coal            | Stk. |                                                   |
| 1               | 1    | Smokehood Complete with Check Draft Door Assembly |

| FRONT DOOR CRATE |      |                                    |
|------------------|------|------------------------------------|
| Type of Boiler   |      | Description of Parts               |
| Coal             | Stk. |                                    |
| 1                | 1    | R. H. Cleanout Door Assembly       |
| 1                | 1    | L. H. Cleanout Door Assembly       |
| 1                | 1    | R. H. Fire Door Assembly           |
| 1                | 1    | L. H. Fire Door Assembly           |
| 4                | 4    | Hinges for Cleanout and Fire Doors |
| 2                | 2    | Door Catches (Single)              |
| 1                | 1    | Door Catch (Double)                |
| 1                | 1    | Set Hinge Bolts and Hinge Pins     |

| *PLATE BOX     |      |                                                                       |
|----------------|------|-----------------------------------------------------------------------|
| Type of Boiler |      | Description of Parts                                                  |
| Coal           | Stk. |                                                                       |
| 1              | 0    | R. H. Ashpit Door                                                     |
| 1              | 0    | L. H. Ashpit Door                                                     |
| 1              | 0    | Set Ashpit Door Hinges and Catches                                    |
| 1              | 0    | Set Grate Connecting Arms                                             |
| 1              | 0    | Set Angle Lever Plates                                                |
| 1              | 0    | Set Angle Levers and Links                                            |
| 0              | 1    | No. 4 Draft Cover Plate                                               |
| 1              | 1    | Set Assembly Draw-up Blocks                                           |
| 1              | 1    | Set Assembly Clamp Blocks                                             |
| 1              | 0    | Draft Pouch Assembly                                                  |
| 1              | 0    | Regulator Lever                                                       |
| 1              | 0    | Regulator Rod Assembly                                                |
| 1              | 0    | Shaker Handle                                                         |
| 1              | 1    | Flue Brush                                                            |
| 7              | -    | Boiler Assembly Nipples:                                              |
| 14             | -    | 7" for 8 Sec. Boilers                                                 |
| 8              | -    | 4" for 8 Sec. Boilers                                                 |
| 16             | -    | 7" for 9 Sec. Boilers                                                 |
| 9              | 9    | 4" for 9 Sec. Boilers                                                 |
| 18             | 18   | 7" for 10 Sec. Boilers                                                |
| 10             | 10   | 4" for 10 Sec. Boilers                                                |
| 20             | 20   | 7" for 11 Sec. Boilers                                                |
| 11             | 11   | 4" for 11 Sec. Boilers                                                |
| 22             | 22   | 7" for 12 Sec. Boilers                                                |
| 12             | 12   | 4" for 12 Sec. Boilers                                                |
| 24             | 24   | 7" for 13 Sec. Boilers                                                |
| 13             | 13   | 4" for 13 Sec. Boilers                                                |
| 26             | 26   | 7" for 14 Sec. Boilers                                                |
| 14             | 14   | 4" for 14 Sec. Boilers                                                |
| 28             | 28   | 7" for 15 Sec. Boilers                                                |
| 15             | 15   | 4" for 15 Sec. Boilers                                                |
| 30             | 30   | 7" for 16 Sec. Boilers                                                |
| 16             | 16   | 4" for 16 Sec. Boilers                                                |
| 32             | 32   | 7" for 17 Sec. Boilers                                                |
| 1              | 1    | 4" for 17 Sec. Boilers                                                |
| 1              | 1    | 7" Nipple Setting Gauge                                               |
| 1              | 1    | 10 to 23 lbs. Boiler Putty                                            |
| 1              | 1    | 1 Pt. to 2 Pts. Red Oxide                                             |
| 1              | 1    | Bag Bolts and Small Parts                                             |
| 1              | 1    | For 12 Sec. and Larger Boilers:                                       |
| 1              | 1    | Cleanout Door Assembly for Back Section Complete with Hinge and Catch |

\*Contents of Steam Trim Box, Water Trim Box and Plate Box differ for Coal and Stoker. Front Door Crate and Smokehood Crate are the same for both. When shipping be sure to select containers marked for type of boiler furnished.

# 29-Inch IDEAL WATER TUBE BOILERS

## Sections and Parts Required

Oil and Stoker

STEAM AND WATER

SERIES 12-B

| Complete Boilers Consist of<br>Following Units:                                                                                           | No. of Units for Each Boiler |       |       |       |       |       |
|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------|-------|-------|-------|-------|
|                                                                                                                                           | #0629                        | #0729 | #0829 | #0929 | #1029 | #1129 |
| AO—Front Section—Uncrated.....                                                                                                            | 1                            | 1     | 1     | 1     | 1     | 1     |
| BO—Front Center Section—Uncrated.....                                                                                                     | 0                            | 0     | 1     | 1     | 1     | 1     |
| CO—Center Section—Uncrated.....                                                                                                           | 3                            | 4     | 4     | 5     | 6     | 7     |
| UO—Rear Center Uptake Section—Uncrated.....                                                                                               | 1                            | 1     | 1     | 1     | 1     | 1     |
| H —Back Section—Uncrated.....                                                                                                             | 1                            | 1     | 1     | 1     | 1     | 1     |
| Front Door Crate (Contents listed on other<br>side).....                                                                                  | 1                            | 1     | 1     | 1     | 1     | 1     |
| Smokehood Crate (Contents listed on other<br>side).....                                                                                   | 1                            | 1     | 1     | 1     | 1     | 1     |
| Plate Box (Contents listed on other side)....                                                                                             | 1                            | 1     | 1     | 1     | 1     | 1     |
| Steam Trim Box (Contents listed other side)<br>—Or—<br>Water Trim Bag (Packed in Front Door<br>Crate) (Contents listed on other side).... | 1                            | 1     | 1     | 1     | 1     | 1     |
| Tie Rod Bundle.....                                                                                                                       | 1                            | 1     | 1     | 1     | 1     | 1     |
| Flue Brush Handle.....                                                                                                                    | 1                            | 1     | 1     | 1     | 1     | 1     |

**NOTE:** Code Letters are cast on head end of all sections. Other Units (crates, boxes and bundles) are marked for boiler size if not common to all assemblages.

See other side for Contents of crates, bags and boxes included in above list.

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# 29-Inch IDEAL WATER TUBE BOILERS

Contents of Crates and Boxes, as listed on other side

| FRONT DOOR CRATE |                                |
|------------------|--------------------------------|
| Type of Boiler   | Description of Parts           |
| Oil or Stoker    |                                |
| 1                | R. H. Cleanout Door Assembly   |
| 1                | L. H. Cleanout Door Assembly   |
| 2                | Cleanout Door Hinges           |
| 1                | Cleanout Door Catch            |
| 1                | Service Door Assembly          |
| 1                | Service Door Hinge             |
| 1                | Service Door Catch             |
| 1                | Set Hinge Pins for Front Doors |

| SMOKEHOOD CRATE |                                                |
|-----------------|------------------------------------------------|
| Type of Boiler  | Description of Parts                           |
| Oil or Stoker   |                                                |
| 1               | Smokehood Assembly                             |
| 1               | Base Front Frame                               |
| 1               | Front Plate                                    |
| 1               | Rear Plate with Bolts                          |
| 1               | Cover Plate for Opening in Front or Rear Plate |

| STEAM TRIM BOX |                                   |
|----------------|-----------------------------------|
| Type of Boiler | Description of Parts              |
| Oil or Stoker  |                                   |
| 1              | Set Water Column Trim (9¼" Glass) |
| 1              | Pop Safety Valve and Bushing      |
| 1              | Steam Gauge                       |
| 1              | ½" x ¼" Bushing                   |
| 1              | 2" Radiator Plug                  |
| 5              | 1" Pipe Plugs                     |
| 2              | ¾" Pipe Plugs                     |

| PLATE BOX      |                                |
|----------------|--------------------------------|
| Type of Boiler | Description of Parts           |
| Oil or Stoker  |                                |
| 1              | Set of Assembly Draw-up Blocks |
| 1              | Set of Assembly Clamp Blocks   |
| 2              | Coil Opening Covers and Straps |
| 1              | Flue Brush                     |
|                | Boiler Assembly Nipples:       |
| 5              | 5" for 6 Sec. Boilers          |
| 10             | 3" for 6 Sec. Boilers          |
| 6              | 5" for 7 Sec. Boilers          |
| 12             | 3" for 7 Sec. Boilers          |
| 7              | 5" for 8 Sec. Boilers          |
| 14             | 3" for 8 Sec. Boilers          |
| 8              | 5" for 9 Sec. Boilers          |
| 16             | 3" for 9 Sec. Boilers          |
| 9              | 5" for 10 Sec. Boilers         |
| 18             | 3" for 10 Sec. Boilers         |
| 10             | 5" for 11 Sec. Boilers         |
| 20             | 3" for 11 Sec. Boilers         |
| 1              | 3 to 5 lbs. Boiler Putty       |
| 1              | Pt. Red Oxide                  |
| 1              | Bag Bolts and Small Parts      |

| *WATER TRIM BAG |                      |
|-----------------|----------------------|
| Type of Boiler  | Description of Parts |
| Oil or Stoker   |                      |
| 2               | 2" Radiator Plugs    |
| 5               | 1" Pipe Plugs        |
| 3               | ½" Pipe Plugs        |
| 4               | ¾" Pipe Plugs        |

\*Packed in Front Door Crate.