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# Monarch

**MALLEABLE**  
The "Stay Satisfactory" Range

Catalog  
Number  
Twelve

MALLEABLE  
IRON RANGE CO.  
BEAVER DAM, WIS.

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## INTRODUCTORY

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**T**HIS catalog is issued primarily to serve as an assistance to dealers in ordering MONARCH Ranges. It also explains briefly the many exclusive features of the MONARCH finish and equipment. It is not intended that this book support by extended arguments the selection of the materials in the MONARCH or its method of construction.

That Malleable Construction as exemplified in MONARCH Ranges is essential where the maximum of satisfaction and long economical service is demanded, is now well established. For the benefit of any not yet convinced of the soundness of these claims we publish other printed literature containing detailed arguments and proofs.

Long ago the Malleable Iron Range Company entered upon a policy of factory expansion which has resulted in a plant of a size and equipment capable of manufacturing every part entering into the construction of the MONARCH Range. The apparent advantages of making every part of the entire range in one plant together with the economies attending the concentration of all efforts on this one grade of range thus developing each workman into an expert at his task, has made it possible to produce the MONARCH at a price comparing favorably with the prices of ordinary ranges.

The method of marketing adopted many years ago stands today unchanged. MONARCH Ranges are sold only through reputable dealers who are given exclusive territory and amply protected against price cutting competition.

Retail Dealers selling MONARCH Ranges have the assistance of an Advertising and Sales Service Department which has developed through years of experience a most effective and comprehensive plan of range selling. The "Monarch Plan," our booklet on this subject will be sent to any dealer upon request.

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## A DETAILED DESCRIPTION OF MONARCH Malleable Ranges

**I**T is directly due to the use of Malleable Iron that the MONARCH Range gives the same economical and satisfactory service after years of use as when new.

It is not the intention to make here an extended argument for the advantages gained by the use of Malleable Iron in each place it appears.

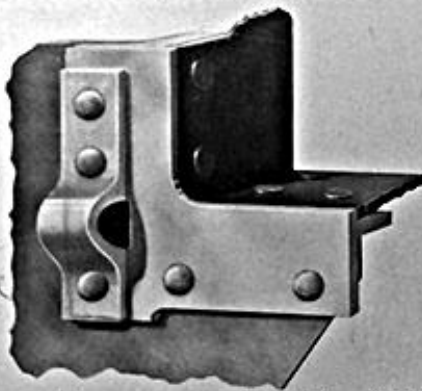
It is sufficient to state that Malleable Iron is used in MONARCH Ranges wherever there is a need for greater strength than grey iron possesses.

The entire range top, comprising the frame, reservoir top, anchor plates and covers are made of Malleable Iron. The direct draft damper and frame are malleable iron. All doors and the body frames against which they fit are malleable. The iron parts of the reservoir, the pouch-feed, parts of the duplex draft, the boot of the rear flue, the protecting bar brackets and all hinges, the knobs, etc., are made unbreakable through the use of our uniformly high grade of malleable iron. If Grey Iron castings could be used in the same places without *cracking* or *breaking* they doubtless would serve the purpose just as well.

Both the Malleable and Grey Iron castings are the exclusive output of our own Foundries. By this specializing in one type of work we secure a uniformity and a quality of iron exactly adapted to the requirements of range work, impossible where castings are made in job foundries.

Every seam and joint in a MONARCH Range is made permanently air tight with rivets. Malleable iron door frames are provided around every opening into the body forming a solid base to which the steel plates may be tightly riveted. Such care and skill is used in the making of each joint that not a particle of stove putty or cement is used in the entire range.

**Body Material** The body and inside lining, in fact all sheet metal parts of MONARCH Ranges are Copper Bearing Steel Plate. The infusion of copper into the material from which these



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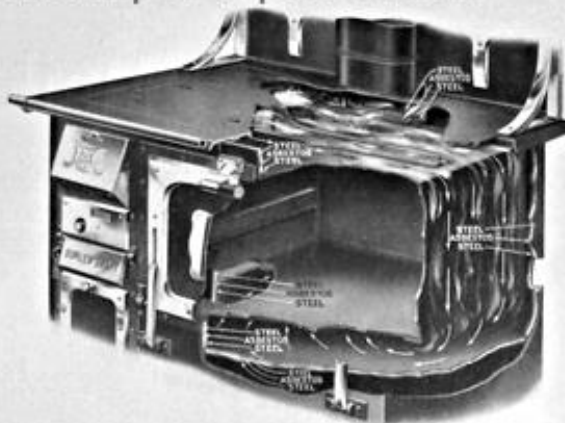
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plates are rolled makes an effective resistance against damage from rust and corrosion. This applies to all parts including the Wells-ville Polished Plate used in the outer walls of the body and in the high closet.

### *Triple Walls*

While we have in the Copper Bearing Steel Plate the most durable body material available we reinforce it in a way that should easily resist the most severe conditions, and give to the steel part

of the range a length of life easily equal to that of the iron parts. At every point in the flues from fire-box to pipe collar the MONARCH has an asbestos triple wall — Steel, asbestos and steel, securely riveted together. Not a single inch remains unprotected.



The Malleable Iron Top of a MONARCH Range is first polished to a high finish and

### *Mirco-Process Top*

then treated by our exclusive MIRCO-PROCESS. This process has been developed by ourselves and represents the farthest advance science has made in protecting from rust or corrosion iron castings which are subjected to high degrees of heat, such as a range top receives in daily service. The process gives to the top frame, reservoir top, anchor plates and lids a uniform blue-black color. The top presents not only a splendidly attractive appearance on the sales floor but the fact that it will retain its handsome finish with but little

attention and without the use of stove blacking, makes it a most desirable feature to a customer.

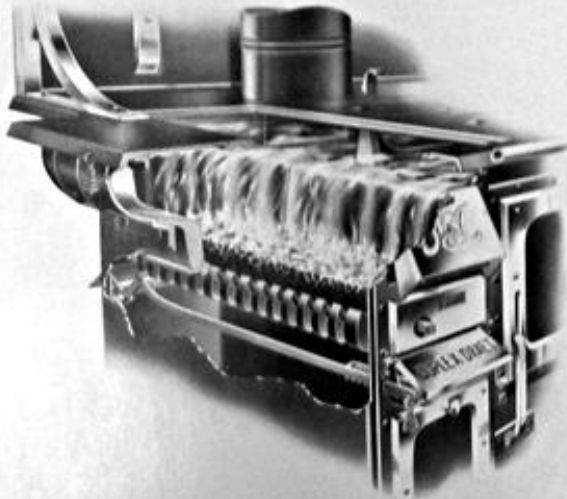
### *Duplex Draft*

Another feature exclusive to the MONARCH Range. By a simple mechanism that cannot get out of



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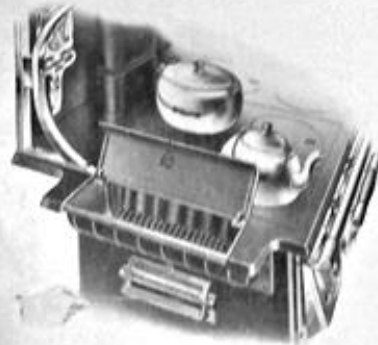
order a single pull of the handle opens simultaneously draft doors on the front and back of the range, admitting draft under both ends of the fire-box at the same time. In practical use its effect is easily seen. The fire burns evenly throughout the entire length of the fire-box.

MONARCH *Fire-Box*  
Ranges may be had with the Hot Blast type of fire-box adaptable for soft coal and wood or a special fire-box designed particularly for hard coal and

lignite. Both equipments of grate bars and linings fit the same grate frame. The fire-box linings are heavy castings readily removable. The left-hand linings and the back wall are each composed of three pieces. For illustrations of these fire-boxes see page 58.

The MONARCH Pouch-feed is very commodious and convenient.

A Poker Door is provided just underneath the pouch-feed at the grate bar level. Its malleable iron frame is riveted to the range body. This door is convenient in lighting the fire and in cleaning the grates with a poker.



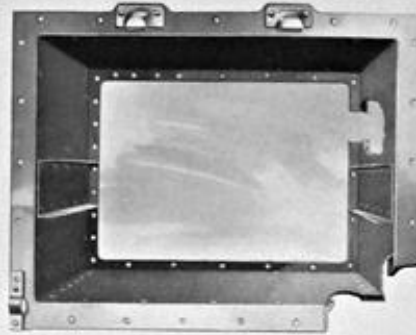
In the MONARCH oven the advantage of malleable construction is most *Oven* emphatic. Instead of simply flanging the steel of the oven and riveting to

the range body the MONARCH oven has angle iron frames securely riveted to the oven and in turn to the steel plates of the body, both at front and back. It is through the use of this rigid construction and the carefully fitted malleable iron door that the MONARCH oven is practically air tight, both with respect to the flues of the range and the outside atmosphere.





**Monarch Ovens** Are made in four sizes, 15, 17, 19 and 21 inches, the odd widths permitting a very convenient arrangement of the ordinary baking pans. All ovens are 13 inches high and 21 inches deep. The oven door is held tight to the iron frame by means of a spring catch. A secondary catch allows the oven door to remain about one half inch open. A cold oven door handle is secured through the use of hard wood, finely finished with black enamel.



**Reservoirs** MONARCH Ranges are offered with a contact style of reservoir at either end of the range. The left-hand reservoir contacts with the fire box lining and the right-hand style with a heavy Copper Bearing Steel heating plate riveted to the end of the range. Each reservoir has a pure copper tank and malleable iron top flush with the range top which in the case of the right-hand reservoir extends the full depth of the range. Both reservoirs are completely encased with frames of malleable iron and panels of steel plate. Both the MONARCH Right Hand Reservoir and the MONARCH Left Hand Reservoir are rapid and satisfactory water heaters.

**Waterfronts** There is a waterfront that will give satisfactory heating service with any style of MONARCH Range. The Pin Extension waterfront No. 87 D is adapted for all ranges with regular fire-box and without pouch-feed.



The projecting pins so increase the heating surface that an ample supply of hot water is maintained with an ordinary wood or soft coal fire.

The plain waterfront No. 87 $\frac{1}{2}$ -D is identical with the one preceding except that the absence of the lugs gives it a smaller heating surface. It is regular equipment in the special Hard Coal Fire-box without Pouch Feed.

For pouch-feed ranges there is the L waterfront No. 87 $\frac{3}{4}$ -D. It replaces the left hand and rear end lining thus offering a large heating surface. It cannot be used in ranges with an extension fire-box unless the use of the extension is discontinued, but style No. 87 $\frac{1}{4}$ -D illustrated on page 61 will serve in such cases.

Waterback No. 88-D illustrated on page 61 is used only where it is desired to use a pressure boiler with a range having left-hand reservoir. It fits between the

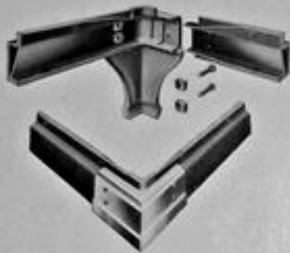


fire-box and the oven but is so designed that it will not interfere with the heating of the oven.

All waterfronts are tapped for one inch pipe except No. 87¼-D which takes three quarter inch.



### *Cabinet and Leg Bases*



The MONARCH Base Sections though light and trim are exceptionally strong and rigid.

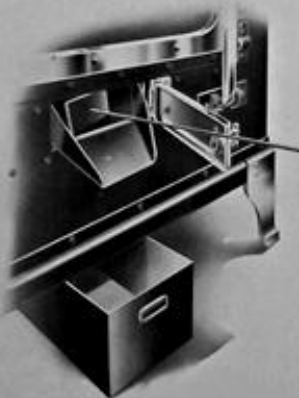
The steel members are made up of a heavy strip of Wellsville Polished Steel stamped into shape and backed with a reinforcing strip electrically welded to it. The corners of the cabinet base and the legs of the leg base are cast iron, nickel plated and bolted to the steel side strips. Both of these bases are of a pleasing design and take up no more floor space than the range without base.

### *Ash Pit and Dust Cup*

The accompanying illustration shows the ash sheds which guide all ashes into the ash pan. The malleable iron door to the ash pit fits tightly against its frame making the compartment dust tight.



A nickel plated iron cup fits below the ash door to catch any dust that might be dragged out with the ash pan.



### *Soot Chute*

A pressed steel chute is provided to fit into the cleanout door when cleaning out the lower flue. As seen from the illustration this chute carries the soot clear of the range face dropping it into the ash pan which stands under the leg base or in the lower warming oven of a cabinet base range.

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## Oven Door Thermometer

An oven thermometer has come to be considered as standard equipment for all first-class ranges. Every MONARCH Family Range or gas section is provided with a thermometer of a make selected for its accuracy and reliability.

## Towel Rack

A Towel Rack on the front of the high closet provides a drying bar where it will get the heat from the range top.

The solid nickel plated bar is removable, resting in sockets which are a part of the hinges of the high closet drop door.

## Check Draft

On the MONARCH Range the Check Damper is a part of and is operated by the handle of the Cold Air Check in the closet joint of pipe. The convenience of this feature when

compared with the customary paddle damper out of reach above the range closet makes it an attractive feature.



## End Shelf

Instead of the usual uneven and "hard-to-keep-clean" open work end shelf the MONARCH has a smooth and solid MIRCO-PROCESSED shelf extending the full depth of the range top.

