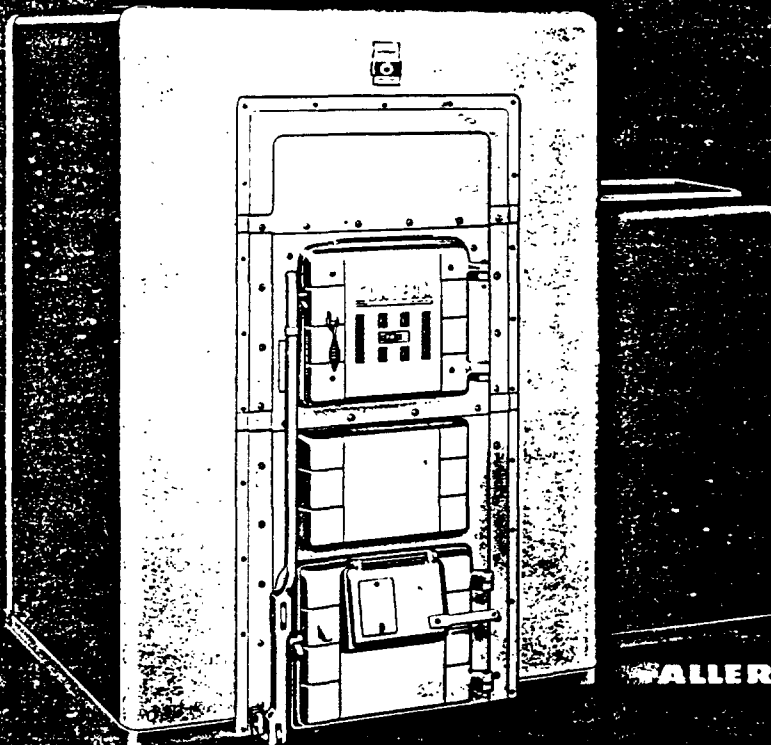


SUNBEAM

WINTER AIR CONDITIONERS

FOR PERFORMANCE • DURABILITY • BEAUTY



ALLERTON

BOILER FOR COAL • HAND FIRED OR STOKER

AMERICAN
HEATING EQUIPMENT
COSTS NO MORE THAN OTHERS

SUNBEAM

**AMERICAN Standard
RADIATOR & Sanitary**

Heating Corporation Division

**AMERICAN Standard
RADIATOR & Sanitary
CORPORATION**

LOOK FOR THIS NAMEPLATE ON THE ALLERTON

03613

CONSTRUCTION FEATURES

"ALLERTON"—Coal Fired Model

RADIATOR is larger, more massive. Provides additional heating surface, greater efficiency, increased ratings. Constructed of No. 12 gauge boiler plate steel, riveted and welded.

CONNECTING COLLARS are of cast iron construction and are securely bolted at close intervals to form leak-proof joints. Collars join with a tight tongue and groove joint.

RADIATOR SMOKE COLLAR is of cast iron construction. It is connected to the radiator gas tight by the insertion of an asbestos gasket and by bolts spaced at close intervals. Notice that collar is located at the base of radiator so that gases travel through the entire radiator before passing into the flue.

"V" TYPE BAFFLE causes the hot gases to heat the entire radiator uniformly before they pass up the flue.

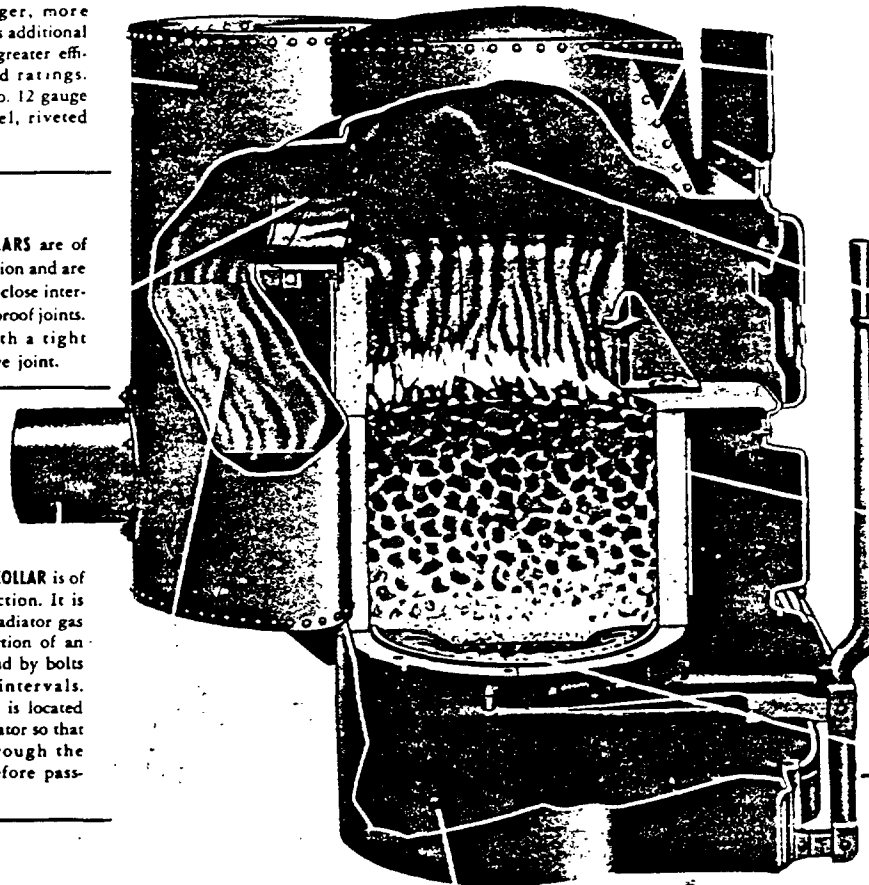
JOINTLESS LEAK-PROOF ASH PIT is made possible by the welding of the base of the ash pit to the shell.

RIVETED-WELDED HEAD AND POUCH—Long life and leak-proof construction is obtained by riveting and welding the pouch and by riveting and welding the head to the top of the shell.

SHELL is constructed of No. 12 gauge boiler plate, riveted and welded. Construction of shell eliminates two vertical joints within the warm-air chamber.

FULL HEIGHT FIRE BOX is 13" high. Holds a deep bed of fuel. Permits long firing period. Provides economy of fuel consumption and slow, complete combustion.

NEW DUPLEX GRATE has center dumping feature. Grate assembly is revolved easily by upright shaker handle. Ashes sift through grate and clinkers settle into "basket" where they are easily dumped without loss of live coals.

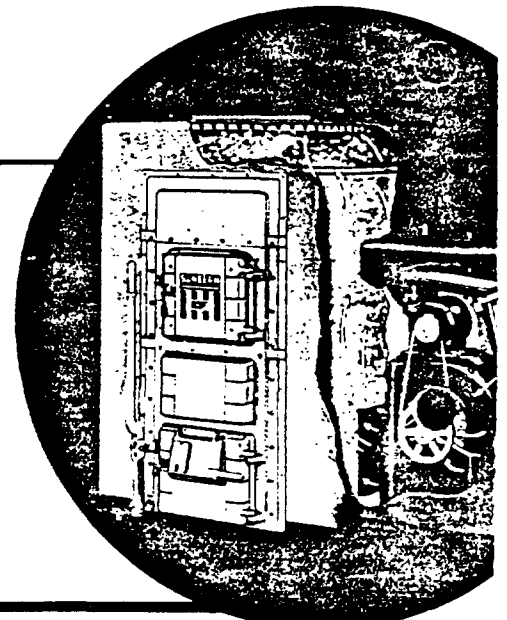


The "ALLERTON" in Two-Tone Placid Blue

If you are seeking a fine quality Winter Air Conditioner at low cost—the beautiful Allerton is a sound selection. • Skillfully engineered, it has a rugged, heavy steel Heating Element and many other quality advantages that assure years of highly efficient, economical service. You'll also enjoy the plus beauty of the Allerton's smart Placid Two-Tone Blue jacket, so handsome it harmonizes with the finest surroundings. • The Allerton is available in four sizes, in models for Coal (stoker or hand-fired,) or Oil (Gun and Rotary type burners.)

Inner Casing Construction

The galvanized iron Inner Casing of the Allerton serves a dual purpose. It brings return air in close contact with the Heating Element, and keeps the jacket cool. • Air from the blower is diverted two ways: The major part enters the opening in the Inner Casing and passes upward wiping the Heating Element. The remainder of the air travels between the jacket and the Inner Casing absorbing heat, and through holes in the latter, joins the air from the heating compartment, at the top. • As a result of this method of handling air from the Blower, practically no heat is lost, and the circulating air between the jacket and Inner Casing keeps the jacket relatively cool.



STOKER FIRED MODEL

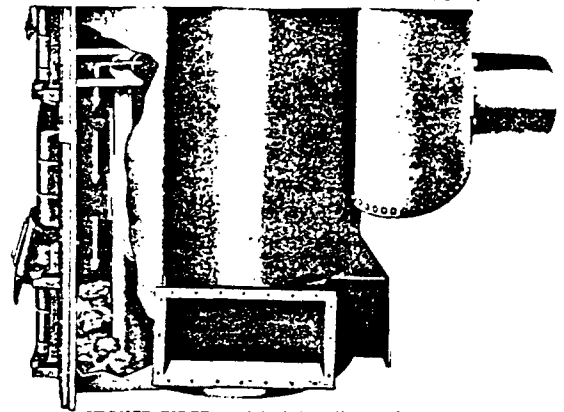
With Clinker Disposal Pouch

The Allerton will accommodate bin feed or hopper feed stokers of any standard make. The stoker screw tube can be installed from front, rear or either side without cutting of the shell by the installer. Chutes are provided at both sides and at the rear of the heating element. Metal covers and gaskets are provided to seal the chutes not used. (Nos. D-5522-9 and D-5522-12 are not furnished with chute at the rear.)

Where a bin feed stoker is to be installed with the screw tube below the base of the unit, the coal, hand fired model must be used.

A clinker disposal pouch is standard equipment on stoker models. Hot clinkers are dropped into ash pit through an opening in the feed section plate. Clinker gases are then vented to the flue with other products of combustion. When stoker screw tube is installed from front, clinkers cannot be removed through ash pit door opening.

The stoker model is equipped with a fire brick lining around the fire box section. Grate assembly is omitted. Standard coal burning doors are furnished.



STOKER FIRED model of the Allerton. Illustration shows clinker disposal pouch also chutes, welded to shell, through which the screw tube is inserted. The size of the chutes is 17" wide by 8 1/4" high. Bottom of opening is 4 1/4" above floor level.

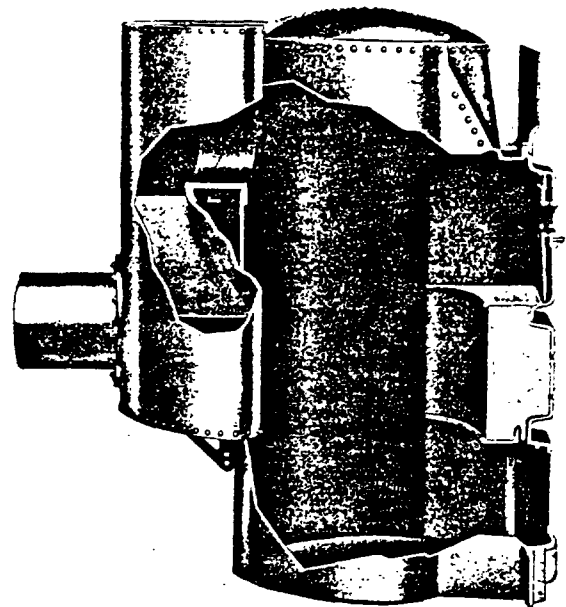
GUN AND ROTARY TYPE OIL BURNING MODELS

The Allerton Winter Air Conditioner is available in gun and rotary type oil burning models. Any standard make of oil burner can be accommodated. When the Allerton is furnished for gun type burner, mineral wool is supplied for insulating the space between the front casting and shell, as illustrated at right. The insulation is supported and kept in place by a horizontal plate and a liner of heat-resisting steel.

ROTARY OIL BURNING MODELS

The Allerton rotary oil burner model (not illustrated) is furnished with a hearth plate which rests on a cast iron ring held in position by brackets and sealed with asbestos rope. The sides of the heating element are protected from flame impingement by an inner lining of special heat-resisting steel. Insulating mineral wool is furnished as in the gun type model.

The heating elements of both the gun and rotary type oil burning models are constructed of No. 8 gauge boiler plate and are riveted and welded for leak proof construction and to permanently withstand the strain of expansion and contraction caused by intermittent oil firing. The heating elements of the Allerton are built to merit the reputation for long life, high heating capacity and trouble-free service that has been established by other Sunbeam Winter Air Conditioners.



GUN TYPE OIL BURNER MODEL

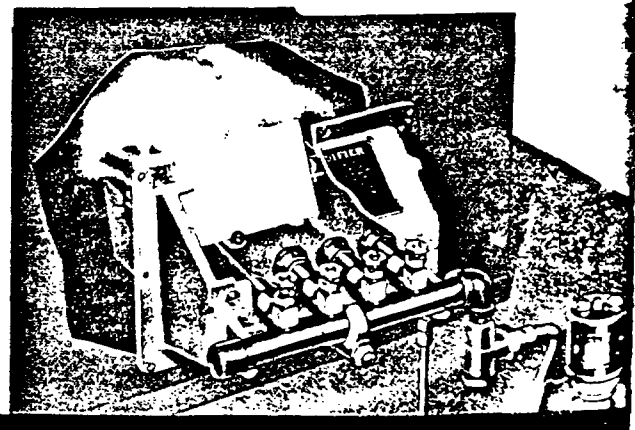
AUTOMATIC SPRAY TYPE HUMIDIFIER

(Optional at Extra Cost)

This type of spray humidifier is designed for installation in the plenum chamber of Sunbeam Winter Air Conditioners and is automatically controlled by a room humidistat. It operates on the principle of breaking up the water into a fine spray and thus making it easier for the air to absorb the moisture. The amount of water atomized can be adjusted by changing the position of the atomizing plate.

The spray humidifier is equipped with four nozzles. If one nozzle clogs it is turned off and the next one turned on until all are clogged. All four nozzles are cleaned at one time—a simple operation.

NOTE: Plenum chamber not furnished with Humidifier or Conditioner.



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AUTOMATIC FLOAT TYPE HUMIDIFIER

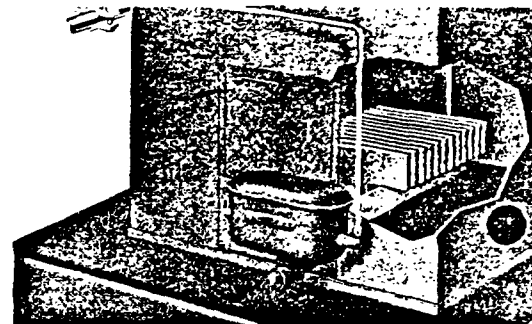
(Optional at Extra Cost)

This humidifier comes complete with all parts necessary for installation in the plenum chamber of Sunbeam Winter Air Conditioners.

A series of ceramic plates set in the pan increase the evaporating surface and efficiency and distinguish this humidifier from ordinary types. The ceramic plates are of the highest quality, large pored and well spaced to assure positive evaporation. The evaporator pan and the ceramic plate holder are porcelain enameled inside and out to guard against oxidization and assure easy cleaning.

Each size pan is supplied with a certain number of ceramic plates as standard equipment, but is so designed that more plates may be added at a slight additional cost should the owner desire more humidity.

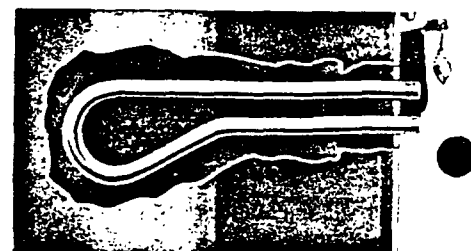
NOTE: Plenum chamber not furnished with Humidifier or Conditioner.



AUXILIARY HOT WATER HEATER COILS

For Use in Coal Burning Models Only

Illustrated at the right is the auxiliary hot water coil available for installation in the Allerton coal burning models at a slight additional cost. This galvanized coil will furnish much of the hot water required in a home, during the winter months when the Allerton is under fire. There are no joints which might leak, as the coil is formed of one continuous pipe. The auxiliary hot water coil is installed through openings provided in the front of heating element beside the feed door, as illustrated in the picture opposite.



CONTROL EQUIPMENT

Temperature Control Equipment, for any degree of regulation that may be desired by any home owner, is available with Sunbeam Winter Air Conditioning Units. Control combinations are provided which give control of temperature from one central point in a home, or from several different rooms.

The individual instruments, which are included in the various combinations, are generally considered the finest available. The proper combination of controls for each and every temperature regulation requirement is listed in the current Trade Price List for Sunbeam Winter Air Conditioning Units.

CAPACITIES AND BLOWER-MOTOR-FILTER SPECIFICATIONS—"ALLERTON"

Number	Btu Capacities at Register				Blower—Motor—Filter Specifications				
	Soft Coal Hand Fired	Hard Coal or Coke Hand Fired	Coal Stoker Fired	Oil Fired	Air Volume CFM Range*	Blower No.	Diam. of Wheel Ins.	Motor H. P.	Number and size of Filters
D-5522-9	101,500	88,750	95,000	95,000	700 950	D-1-9	9	1/4	1 (20"x 25")
D-5522-12	110,900	88,750	119,450	109,000	800 1500	D-1-12	12	1/4	2 (16"x 25")
D-5524	130,900	104,700	140,950	128,550	1000 1600	D-1-12	12	1/4	2 (16"x 25")
D-5527	157,400	125,900	169,500	154,600	1300 1700	D-1-12	12	1/2	2 (16"x 25")

*Available air volume in ample size ducts.

DIMENSIONS—"ALLERTON"

Number	**Overall Width Ins.	Height of Heating Compartment Ins.	Height of Blower Compartment Ins.	Width of Blower Compartment Ins.**	Overall Depth Ins.	Air Discharge Opening Ins.	Air Intake Opening Ins.	Smoke Collar Diameter Ins.	Approx. Distance from Floor to Center of Smoke Collar Ins.	Recom- mended Chimney Flue Sizes & Heights	Approx. Shipping Weight in lbs.
D-5522-9	60	58	35	18	43	22x 22	14 1/2 x 26 1/2	8	20" H	8"x 12"-30'	1291
D-5522-12	65	58	41	23	43	22x 22	19 1/2 x 25 1/2	8	20" H	8"x 12"-30'	1327
D-5524	68	58	41	23	46	23x 23	19 1/2 x 25 1/2	8	20" H	8"x 12"-30'	1415
D-5527	70	61	41	23	48 1/4	24x 24	19 1/2 x 25 1/2	9	22" H	12"x 12"-35'	1571

**Allow Clearance at side equal to width of blower compartment for removal of filters, blower, and motor.

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