

GUARANTEE

We guarantee the operation and economy of our systems when installed in accordance with the simple requirements and instructions furnished by us. We guarantee all our specialties as to workmanship and material and will replace free of charge any part or parts that prove defective. F. O. B. Destination.

TESTIMONIALS

Every Johnson Vapor System installed has proven a success. We have achieved most remarkable results. It will give us great pleasure to give you names of users and facts for your personal investigation.

DALTON-INGERSOLL MFG. Co.

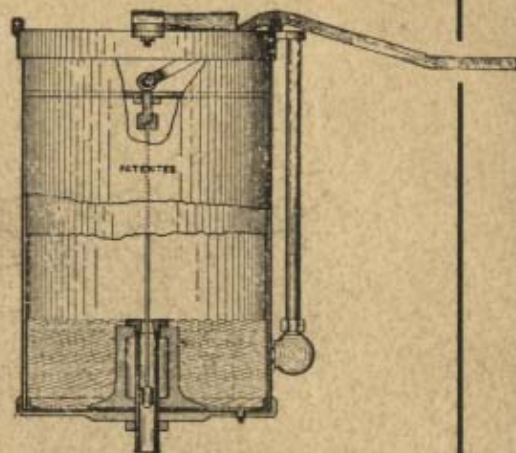
BOSTON, MASS.

JOHNSON VAPOR HEATING SYSTEMS

COMFORT

FLEXIBILITY

EFFICIENCY



JOHNSON VAPOR CONTROLLER
"THE HEART OF ANY VAPOR SYSTEM"

SOLE AGENTS FOR NEW ENGLAND

DALTON-INGERSOLL MFG. Co.

169-175 HIGH STREET

BOSTON, MASS.

BULLETIN No. TWO

JOHNSON

VAPOR

HEATING

SYSTEMS

OPERATE NATURALLY WITHOUT
PUMPS, AUTOMATIC AIR VALVES,
OR OTHER MECHANICAL DE-
VICES AND ARE NOISELESS IN
OPERATION. ∴ ∴ ∴ ∴

MINIMUM FIRST COST,
FUEL CONSUMPTION AND
MAINTENANCE

WE BELIEVE THE JOHNSON
VAPOR HEATING SYSTEMS
COMPRISE THAT WHICH IS BEST
AND EFFICIENT IN THE ART OF
HEATING. ∴ ∴ ∴ ∴ ∴

JOHNSON VAPOR HEATING CO.

BOSTON, MASS.

JOHNSON VAPOR HEATING SYSTEMS

WHAT WE CAN DO

Economically heat structures of every class, regardless of location or exposure, requiring artificial heat.

Change present systems to Johnson Systems and make a saving in the operation and give added comfort that will more than offset the cost of installation.

Design and have installed new systems at about the cost of ordinary systems. Control the heat so that fuel burns only in proportion to the heating being done at the time.

Give heat 24 hours a day, using less fuel than is now used, banking fire every night for 6 to 8 hours.

Heat whole or part of radiator and control it absolutely, insuring even, comfortable heat under all varying weather conditions.

Humidify the air in the room being heated.

JOHNSON VAPOR HEATING SYSTEMS

THE SYSTEM

Is the simplest possible, and requires less piping than any other.

Has no complicated parts or mechanical devices to get out of order or require attention.

All that is necessary is to put fuel and water in the boiler and remove the ashes.

The boiler will then burn only as much fuel as will economically generate a few ounces of vapor.

The consumption of fuel and supply of vapor are absolutely and instantly controlled.

The system can be designed to use any kind of fuel, such as coal, gas, oil, etc.

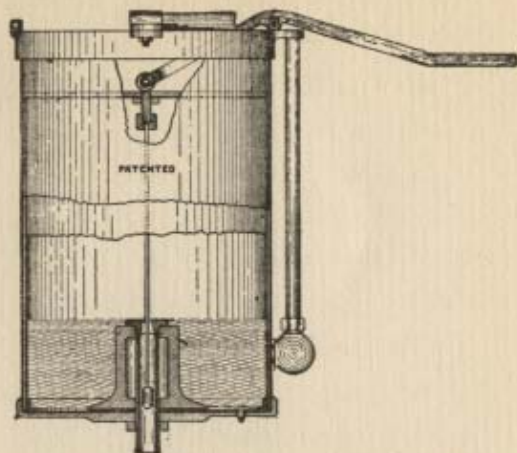
We use only a few ounces pressure.

A vapor system is not a vapor system if one pound or more pressure is used.

JOHNSON VAPOR HEATING SYSTEMS

THE CONTROLLER

"THE HEART OF ANY VAPOR SYSTEM"



Johnson Vapor Controller consists of an outer receptacle, an open bottom inner receptacle, an open connection in bottom of outer receptacle which connects with steam space of boiler which it is to control and a check valve to protect water seal from any excessive pressure.

Inner receptacle is spaced from outer receptacle and this space is occupied by a water seal. When steam or vapor is generated in boiler same passes through system and into inner receptacle above water seal, and as pressure increases water seal is forced downward in this receptacle and upward in space between the two receptacles, causing a resistance which forces inner receptacle to rise, thereby working regulating lever which, in turn, works chains connected to dampers.

JOHNSON VAPOR HEATING SYSTEMS

The controller is the principal part of any vapor system. Unless a controller has ample motive power—is positive in operation—simple in construction, and not liable to get out of order, a vapor system will not be a success. Controlling the pressure gives uniform heat and saves fuel.

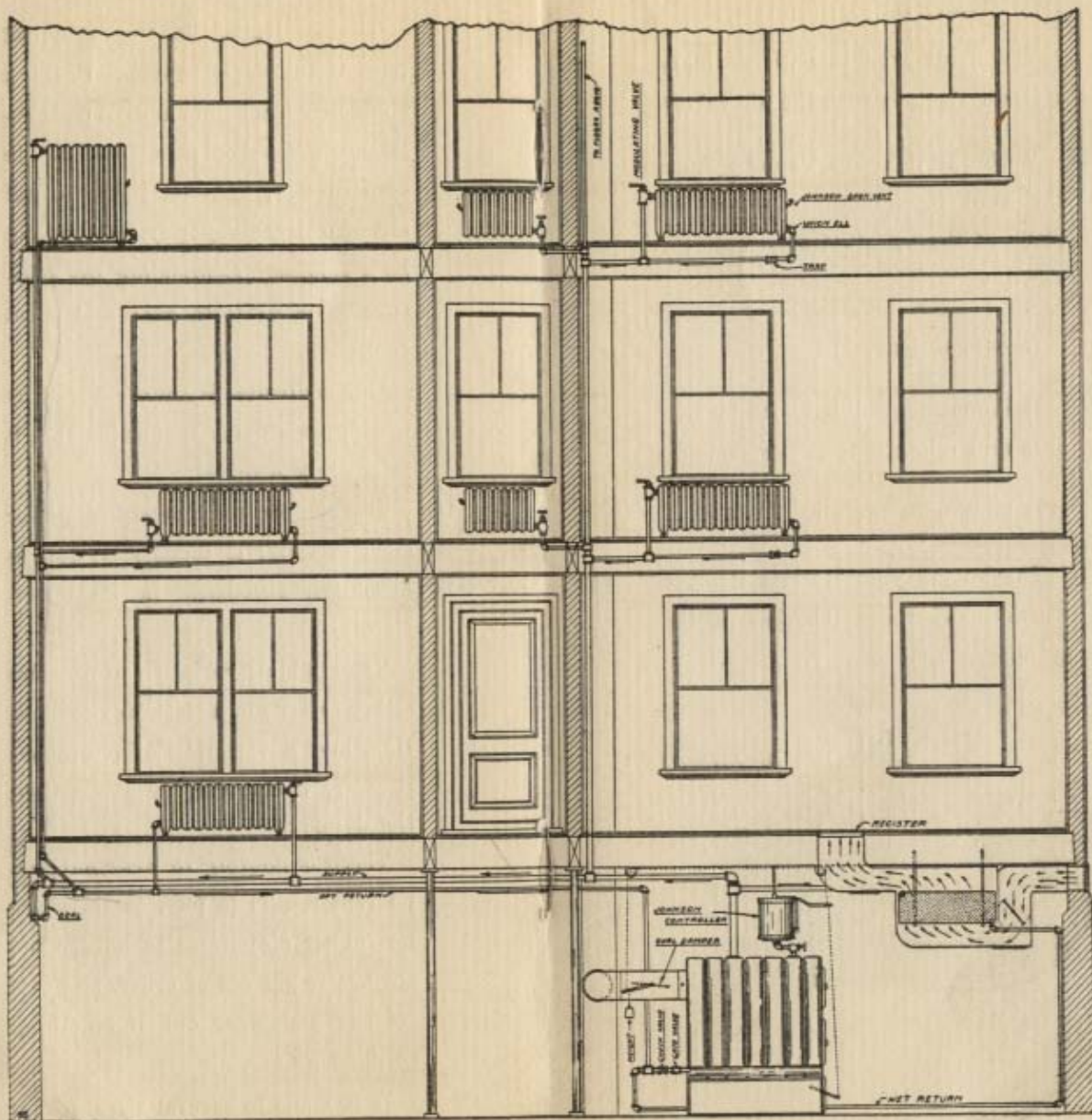
Our controller is fully covered by broad, basic patents, showing that it is entirely original.

It requires no "outside" power such as water or electricity, and is absolutely automatic in its operation.

The slightest variation in pressure either retards or accelerates combustion, and a variation of one ounce pressure opens wide or closes tight the dampers.

There is nothing to wear out and no repair bills to pay, as there are no rubber diaphragms to harden, no springs to get out of order, no floats to leak and wear out and nothing to deteriorate with use.

It is made in several sizes, to apply to any size or make of boiler.



TYPICAL METHODS OF MAKING RADIATOR CONNECTIONS

JOHNSON VAPOR HEATING SYSTEMS

VENT OR HUMIDIFIER

The great trouble with ordinary steam systems is with the air valves.

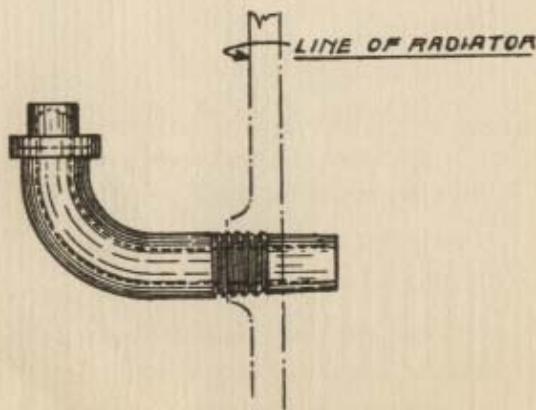
With the Johnson Vapor System the vent or humidifier takes the place of the so-called automatic air valve.

It cannot leak.

It cannot be meddled with by tenants and others. It is permanent.

It humidifies the air.

The humidifying feature alone is worth many times the cost of the system.



JOHNSON OPEN VENT

JOHNSON VAPOR HEATING SYSTEMS

MODULATION

Our modulation system does just what we say it will—it modulates.

This system with Johnson controller makes the ideal system of heating—it is more flexible than steam or water systems. In fact, modulation was never before entirely successful.

Our modulation system will operate with just a little heat turned on at the radiators, enough to be comfortable without overheating, or waste of fuel in moderate weather, with ample heat for the coldest days by simply turning the graduated modulating valve in room as heat is required.

It is simple and positive in operation.

It is noiseless in action.

It will not get out of order.

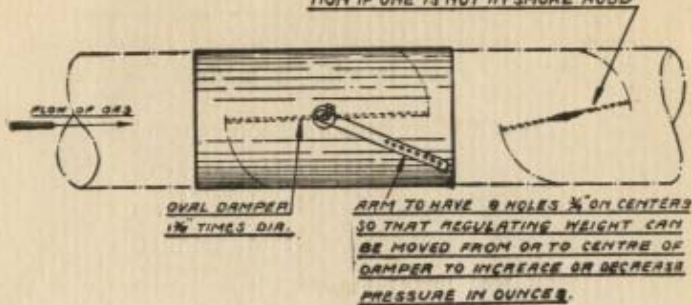
It produces the maximum results with the minimum cost.

It is the acme of perfection in a heating apparatus.

There are many modulating systems in use today, but they all fail to modulate on account of the lack of control of the pressure.

JOHNSON VAPOR HEATING SYSTEMS

PLACE HAND DAMPER IN SMOKE CONNECTION IF ONE IS NOT IN SMOKE HOOD



It is essential that a proper working damper be used in conjunction with our controller and we are prepared to furnish dampers of any size similar to drawing at a small cost.

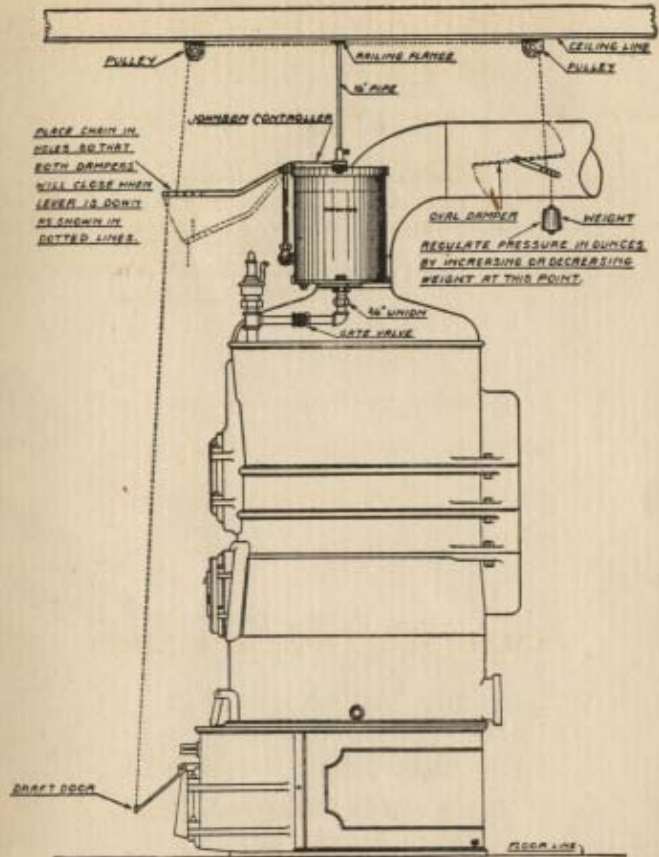
JOHNSON VAPOR HEATING SYSTEMS

can be used with direct, indirect, or direct indirect radiation. It can also be used with indirect radiation in conjunction with a fan system.

All our specialties are made under the most highly developed scientific methods of test and manufacture, insuring standardization, uniform working results, and great durability.

JOHNSON VAPOR HEATING SYSTEMS

HOW TO CONNECT CONTROLLER



The above drawing shows typical method of connecting our controller to a boiler. It can be connected to any type or make of boiler and if head room above boiler is limited, we will furnish drawings showing how same can be connected.

JOHNSON VAPOR HEATING SYSTEMS

WHO INSTALLS OUR SYSTEM

Our system is so simple that any steamfitter can install it. We do not install systems ourselves, but do furnish necessary data and instructions so that any contractor can figure same, or will get figures from capable and reliable contractors, and have them install the apparatus.



**Johnson Vapor Heating
Specialties can be applied
to any heating system in
less than a day—greatly
increase efficiency—elim-
inate water line troubles
—humidifies the air.**



JOHNSON VAPOR HEATING CO.

BOSTON, MASS.