
The
Doody System
of
Vapor Heating

Winter
Comfort

C. H. Goss Company
St. Johnsbury, Vermont

The Doody System
of
Vapor Heating

A Description
& a Few Inter-
esting Pictures
of Buildings
Where Our
System is in Use

The Doody Vapor Heating
Company, Inc.

Boston : Mass.

The Doody System



THE Doody Vapor Heating Attachment regulates the drafts and controls the operation of the system. It is the most essential requirement of a perfect system of Vapor Heating.

It is strongly constructed of heavy cast iron and will not deteriorate with use. Even the balancing float is cast iron and cannot fail in its operation.

Regulation of the draft is entirely automatic, exceedingly sensitive, and therefore most economical.

The water in the gauge glass indicates the amount of Vapor in the system in ounces.

The Doody System

The **Doody System of Vapor Heating** is recognized as the best, most efficient, and most economical method of Heating, and unquestionably leads all competitors.

Sensitive Automatic Regulation. No Pressure. No Vacuum. Operates at Atmosphere. No Leaks. No Air Valve Troubles. No Pipe Hammer. An Abundance of Dependable Heat in the Very Coldest Weather, Together with the Greatest Economy of Fuel.

The **Doody Vapor Regulator** has such control over the dampers in the smoke pipe and boiler draft door, that a fractional movement of the dampers is secured from the full width to one-quarter inch opening.

The regulation is so sensitive that this movement takes place as the rooms are warmed, as the radiator valves are turned on or off, and also with the variations of the outside temperature.

There is no other regulator that will give the same fractional movement to the dampers.

This sensitive and positive damper regulation ensures a slow, steady, and uniform combustion, placing at

The Doody System

your service every possible heat unit, and guaranteeing sufficient vapor at all times, according to varying weather conditions.

Operation

As the water in the boiler becomes heated, vapor rises from it and passes up into the supply pipes and radiators naturally.

By means of our vapor vent, there is no air resistance to the natural flow of the vapor upwards, and it rises freely into the supply pipes and radiators, requiring neither pressure, pull, nor vacuum to assist it.

When the entire radiation is fully heated, condensation in the system will be less rapid. An excess of vapor will accumulate in the boiler, sufficient to cause our Vapor Heating Attachment to close the drafts and check the fire immediately, thus preventing unnecessary pressure at the boiler.

When this excess vapor is consumed, the drafts will again open; and so this process of constant con-

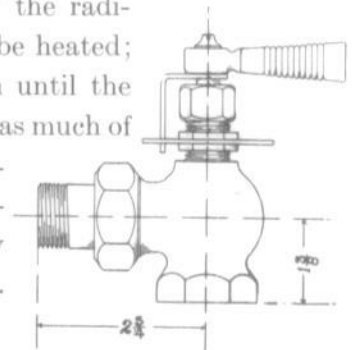
The Doody System

trol goes on, holding the boiler at the vapor point continuously.

As the valves at the radiators are opened or closed throughout the system, the automatic control of the production of vapor continues at the boiler, and a little more or less vapor is produced, as may be required.

Radiator Control

It is possible, with the **Doody System**, to heat the whole, or any portion of the surface of any radiator. On cold days, for instance, the radiators can be fully heated. In mild weather, a small portion of the radiator — a sufficient portion to heat the room comfortably and yet not overheat it — can be used; with weather a little colder, a larger surface of the radiator can be heated; and so on until the whole, or as much of the radiator is heated as may be needed.



The Doody System

The **Doody Modulating Valve** is a special patented valve adapted for vapor heating only, and meets the varying demands of the weather in each room by permitting personal, independent regulation of the heat in each radiator.

This valve is placed conveniently at the top of the radiator and is attractive in design and finish. Although "quick opening", it has fractional adjustments, and one-half turn of the handle opens or closes the valve fully.

It regulates the amount of vapor desired in the radiator, so that you may have just the degree of heat in any room that is needed in spring or fall, or in the chill mornings or evenings, at a slight turn of the valve handle.

This personal regulation of the heat in the radiator affects very sensitively the automatic control of the dampers at the boiler. The lessening of the demand at the radiator will create a vapor pressure of an ounce or two in the boiler which is sufficient to close the dampers.

The Doody System

Humidity

Scientists tell us, and experience proves, that artificial heat of any kind absorbs the natural moisture in the atmosphere, thus making our houses and other heated buildings more or less unhealthful in the winter.

The **Doody System of Vapor Heating** provides the necessary humidity by means of our Vapor Vent through which moisture passes continually into the atmosphere in an invisible jet.

The moisture that is given off through a continuously open Vent from the time the boiler is filled with fresh water, is as pure as that which arises from the tea kettle you use every day.

As the **Doody System of Vapor Heating** is open to the atmosphere at all times there can be none of the disagreeable odors that often escape from the ordinary system that is only open at varying times.

Other systems try to force the air downward through other radiators and piping to the



The Doody System

basement. This force is power, and power means the consumption of fuel.

The **Doody Vapor Vent** takes the place of the ordinary air valve and leaves the system open to the atmosphere from every point at all times. This vent is placed in our special union return fitting, ensuring that the radiator will become fully heated before vapor is admitted into the room.



It eliminates the possibility of air binding, holding water in the radiator, back pressure, and other obstructive elements found in steam heating systems.

The ordinary air valve is difficult of adjustment, while the Doody Vapor Vent, once connected to the radiator takes care of itself.



The Doody System

Economy

Only when fuel consumption is reduced to the minimum consistent with efficient service, can it be said that a heating system is economical.

The economy in the **Doody System of Vapor Heating** is obtained by perfect automatic regulation of the dampers, resulting in only sufficient coal consumption to keep the vapor constant and reducing the draft instantly whenever the volume of vapor rises beyond what is necessary to fill the radiators.

The sensitiveness of this regulation of the dampers makes it impossible for coal to be consumed faster than heat is demanded.

That the use of our system results in a fuel saving of from ten to thirty-five per cent is the testimony of many of our customers. There can be no waste, as the fire cannot burn beyond the point at which it is regulated.

A heating system must be perfect or it cannot be a VAPOR System.

The Doody System

To Change Steam Systems to Vapor

The **Doody System of Vapor Heating** may be applied to either one or two pipe steam heating systems already installed, with few changes in the piping.

It is not necessary to draw fires, blow off boilers, and freeze everyone out in midwinter. In many of our installations the occupants of the building only know of the change by the improved service.

We make personal examination of such systems to report on the cost of the changes necessary to fulfill our guarantee.

The **Doody System of Vapor Heating** is the simplest and most economical system in use today.

Before deciding on a heating apparatus, interview an owner of a Doody Vapor System. These interviews bring us new customers.

The Doody System

Directions for Operating the Doody Vapor Regulator

Be sure that the valve on the connection to the regulator is open.

Before starting the fire see that the water in the gauge glass stands at the level marked "Water line" on the scale.

Adjust the dampers to close at one ounce or upward as desired. Adjust the chains so that the damper in the smoke pipe will close before the damper in the boiler draft door.

Do not leave the ash pit door open.

Keep the dampers and pulleys easy running and free from friction.

Do not carry a fire so hot that it will cause the float to rise against its seat when all dampers are closed. This is unnecessary and wasteful and a little care will avoid it.



The Doody System

Some Further Advantages

The **Doody System of Vapor Heating** is the ideal system for all kinds of buildings, including homes, schools, churches, apartment houses, banks, public buildings, etc.

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Our specialties mean comfort in all weather, regulating the temperature and maintaining a uniform heat twenty-four hours each day.

■ ■ ■

It is not necessary to open the dampers in the morning and force the fire to answer a call for "more heat." It will be as comfortable in the morning as it was the day before.

■ ■ ■

Slow combustion consumes all the fuel. Opening the drafts wide to force the fire causes unnecessary clinkers, and thereby a waste of from sixty to eighty per cent in fuel. Proper damper regulation will prevent this waste and increase the number of heating hours.

The Doody System

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The System is absolutely noiseless, as it operates practically at atmosphere.

■ ■ ■

The air vents allow the vapor to rise to the radiators in a natural manner; and as the system is open to the atmosphere at every point, there are no foul gases or impure air to enter the room.

■ ■ ■

The **Doody System of Vapor Heating** is vented at every point and the air is not forced through the return pipes or so-called air line, and cannot be confined in any portion of the system to retard the vapor.

■ ■ ■

The **Doody Regulator** is connected with the steam space of the boiler, and not with the water; therefore, there is no danger of forcing the water from the boiler through the regulator in case of excess pressure.



The Doody System

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Simplicity of construction as well as the durability of our specialties add to their merit.

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Requirements for Installation

The boiler should be of a good reliable make and have a large steam space above the water line.

Two light, free-working dampers should be provided; one in the smoke pipe, and the other in the boiler draft door. Both dampers should close by gravity and be connected to the vapor attachment by brass chains running over pulleys not less than three inches in diameter.

Connection of the vapor attachment to the steam space of the boiler should be made by a three-quarter inch pipe pitching toward the boiler.

The boiler should be covered with asbestos not less than one and one-half inches thick.



The Doody System

Radiators and Piping

The radiators should be of the hot water type, tapped three-quarter inch inlet at the top and three-quarter inch outlet at the bottom, opposite ends.

The main supply pipes should be run in such manner that they will be free from water at all times. At all points where drips are used they should be taken from the bottom of the pipe and connected below the water line of the boiler to the return pipe.

As much pitch as possible should be given to pipes. When graded upward from the boiler, a pitch not less than one and one-half inches in ten feet should be given.

If mains are reduced in size when pitching downward, an eccentric fitting should be used to keep the main free from water.

Return pipes from radiators should be connected below the water line of the boiler to the main return.

All basement piping should be covered with asbestos covering of good quality.

The Doody System

The Doody Vapor Heating Company, Inc., guarantees all specialties manufactured and used in connection with the DOODY SYSTEM OF VAPOR HEATING to the extent of furnishing new parts for those found defective in manufacture.

This Company guarantees to maintain a temperature of seventy degrees in zero weather with Doody Vapor Heating Systems installed under their supervision, provided due intelligence is used in the operation.

We reserve the right to specify the size of boiler, amount of radiation, and sizes and location of piping, etc.

The Doody System

A Few Brookline Installations

Woodburne Co., 8 Park Drive
Dr. Thomas E. Chandler, Clinton Road
Henry D. Bennett, Walnut St.
Church of The Assumption

Apartments at

1595 Beacon St.
176 Wintrop Road
18 Brown St.
1056 Commonwealth Avenue
1082 Commonwealth Avenue
1064 Beacon St., Brookline



Baptist Church, Beacon Street, Brookline, Mass.

THE BAPTIST CHURCH,
BROOKLINE.

THE DOODY VAPOR HEATING COMPANY,
Boston, Mass.

Gentlemen: I take pleasure in saying that your Vapor Heating System installed in our church in 1911, and in continuous use ever since, has proved entirely satisfactory. It does all that you claim for it. The tendency of the water to suddenly leave the boilers—a dangerous feature inherent in our system, leading to a broken section at one time, demanding constant attention to avoid an accident—has been entirely overcome. The water stands at all times as quiet and steady as in a bucket. Our engineer is greatly pleased with the System, and the Committee feels that the expenditure has been amply justified.

Very truly yours,

JOHN C. PACKARD,
Chairman Property Committee.

The Doody System

Some Cambridge Installations

Remington Gables, Cambridge
Linnaean Hall
Agassiz Hall
Brattle Building, Harvard Square
Dr. F. D. Magee, Mass. Avenue
Apartment House, Langdon Street
Geo. L. Dow, Harvard Square
H. N. Stearns, Harvard Square
Edward Cohen, Western Square
St. Mary's Church and School
W. F. Bradbury, Mass. Avenue
Apartment House, 10 Avon Street
Apartment House, 33 Concord Avenue
Apartment House, 13 Shepard Street
Apartment House, 25 Hammond Street



MR. STEINHARDT SAYS:

The system is economical, requires but little attention, and I am so well satisfied with it that I have recommended it to my friends.

I take pleasure in sending you this expression of my perfect satisfaction with your Vapor Heating System.

Very truly yours,

LOUIS STEINHARDT.



Residence of Louis Steinhardt
Cambridge, Mass.

The Doody System



Banking House of
Kidder, Peabody & Co.
Devonshire Street
Boston, Mass.

The Doody System

Cambridge Installations

— Continued

Bromley Court, Cambridge
Stratheona Apartments, Ash Street
Apartment House, G. A. Giles, Agent
Twenty Associates Building
Squirrel Brand Factory
J. B. Byrne, Magazine Street, Apartment House
Central Real Estate Trust
Harvard Co-operative Society
Brooks Apartments, Porter Road
Apartment House, 14 Centre Street
Kenilworth Realty Trust
Apartment House, 16 Hancock Street
St. Mary's Catholic Association
Residence, 31 Buckingham Street



May 17, 1916.

THE DOODY VAPOR HEATING COMPANY, INC.
Boston, Mass.

Gentlemen: I thank you for your inquiry of May 15th and am pleased to state I have mentioned the Doody System in my estimate.

Wherever possible I use your system and the satisfaction to the owner as well as myself, justifies the time spent in convincing him of the merits of a Doody System.

Very truly yours,

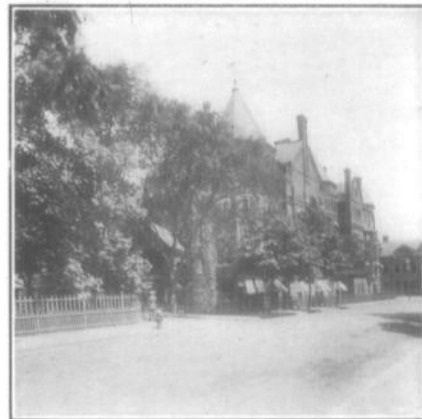
JAMES S. CASSEDY,

President National Assoc. of Master Plumbers.



St. Mary's Convent,
Cambridge, Mass.

The Doody System



Homeopathic Hospital, Boston, Mass.

Cambridge, Mass.

The Rector writes:—

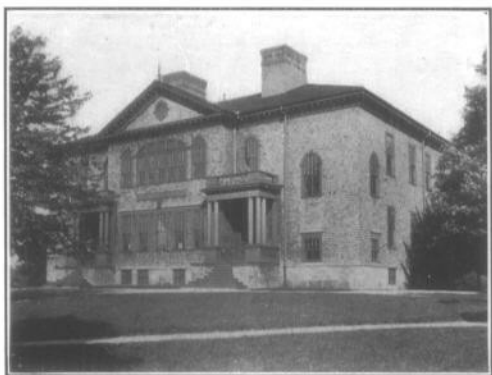
"We are heating all our buildings with your Vapor System. It gives us great satisfaction, and has eliminated all annoyances such as noise, air valve troubles, and leaks.

"In a word, it has fully justified all your claims and made good all your promises."

St. Mary's Church, Cambridge, Mass.



The Doody System



The Crane Grammar School, Canton, Mass.

Partial List Recent Installations

George R. Wallace, Fitchburg, Mass.
Snider & Rudnick, Boston, Mass.
Grishaver & Gerrish, Boston, Mass.
Homeopathic Hospital, Boston, Mass.
Ernest Dumas, Lowell, Mass.
Mrs. Harriet Nevins, Methuen, Mass.
Berkshire Industrial Farm, Canaan, N. Y.
H. J. Luce, Oneida, N. Y.
C. P. Brate, Albany, N. Y.
Harvey S. Greene, Cohoes, N. Y.
Ruby Hardware Co., Oneida, N. Y.
Andrew S. Wentworth, Watertown, Mass.
Eric Peterson, Boston, Mass.
Richard C. Saunders, Providence, R. I.
Hopkins Trust, Boston, Mass.
City Hall, Waltham, Mass.
H. E. Clark, Newton, Mass.
Dorchester Associates, Dorchester, Mass.
New Park Hotel, Worcester, Mass.
Apartment House Corporation, Providence, R. I.
W. A. Bellows, Pawtucket, R. I.
Mt. Vernon Trust Co., Mt. Vernon, N. Y.
Dr. H. Benz, 965 Simpson St., N. Y. City
Rentel Construction Co., Bronx, N. Y.
Hollings Hotel, N. Y. City
American Express Co., Albany, N. Y.
Miss Ida C. Potts, Hudson, N. Y.
H. A. Seymour, Chatham, N. Y.
Seth Wheeler, Albany, N. Y.
Mr. Ellis, 206 State St., Albany, N. Y.
Taft & Waite, Allston, Mass.
C. H. Bunker, Arlington, Mass.
A. E. Buffam, Cohasset, Mass.

The Doody System

Recent Installations

— *Continued*

N. L. Anthony, Providence, R. I.
Geo. H. Capen, Canton, Mass.
H. H. Carter, 100 Federal St., Boston, Mass.
Wm. H. Draper, Canton, Mass.
T. Coupe, Lawrence, Mass.
City Water Works, Pawtucket, R. I.
G. M. Hyams, Dorchester, Mass.
Hoosic Whisick Club, Canton, Mass.
Town Hall, Lancaster, Mass.
Public Library, Lancaster, Mass.
Joseph W. Lund, Boston, Mass.
W. S. Langley, Newport, R. I.
J. Madden, Brimmer St., Boston, Mass.
C. J. McClatchey, Attleboro, Mass.
W. B. Donham, Old Col. Tr. Co., Boston
J. W. Moody, Lowell, Mass.
Mrs. Willis Shepard, Canton, Mass.
D. S. Salisbury, Providence, R. I.
O. L. Story Scenic Co., Somerville, Mass.
Geo. Chandler, Marshfield, Mass.
A. N. Park, Somerville, Mass.
Central Fire Station, Lawrence, Mass.
Geo. M. Cushing, Milton, Mass.
Henry C. Nevins' Home, Methuen, Mass.
A. F. Hayden, 84 State St., Boston, Mass.
Frank W. Kimball, Dedham, Mass.
Dr. Chas. I. Swan, Stoughton, Mass.
Dr. Collins, Nashua, N. H.
P. M. Leavitt, Canton, Mass.
Edward F. Maguire, Brighton, Mass.
Geo. Huey, Hudson, Mass.
James P. Lynch, Canton, Mass.



Apartment Building, Beacon Street
Brookline, Mass.

The Doody System

Recent Installations

— Continued

W. B. Crocker Estate, Boston, Mass.
Irving & Casson, Boston, Mass.
Beverly Building, Beverly, Mass.
Concord Country Club, Concord, Mass.
Wm. Frye White, Medford, Mass.
Turnbull House, 111 Beacon St., Boston, Mass.
Stateway Apartments, Portland, Me.
Henry P. Stone, Providence, R. I.
Rev. J. P. Sheehan, Winchester, Mass.
Ray T. Ames, Marshfield, Mass.
A. C. Chandler, Marshfield, Mass.
H. H. Savage, 15 School St., Boston, Mass.
Sacred Heart Church, Fall River, Mass.
Dr. J. W. Findon, Albany, N. Y.
E. A. Earp, Peabody, Mass.
E. C. Richards, Portland, Me.
L. F. Buff, Jamaica Plain, Mass.
Wm. Seeley, Peabody, Mass.
Henderson & Ross, Brookline, Mass.
Wm. H. Sergeant, Mt. Vernon, N. Y.
Joseph Gardella, Haverhill, Mass.
Baker Apartments, Newtonville, Mass.
Boston Lodge of Elks, Boston, Mass.
Geo. A. Kinner, Danbury, Conn.
John Beckett, Jr., Danbury, Conn.
Arthur G. Stuart, Danbury, Conn.
Henry Bernd, Danbury, Conn.
W. F. Tomlinson, Danbury, Conn.
Wooster G. Baldwin, Danbury, Conn.
Southern N. E. Tel. Co., Danbury, Conn.
L. H. Sully, Somerville, Mass.
Victor T. Lang, Jefferson, N. H.
Odd Fellows Building, St. Johnsbury, Vt.
H. J. Balch, St. Johnsbury, Vt.
E. N. Randall, St. Johnsbury, Vt.
Residence of Miss Hall, St. Johnsbury, Vt.
Rectory of Notre Dame des Victoires, St. Johnsbury, Vt.
Residence of Mrs. Williams, St. Johnsbury, Vt.

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