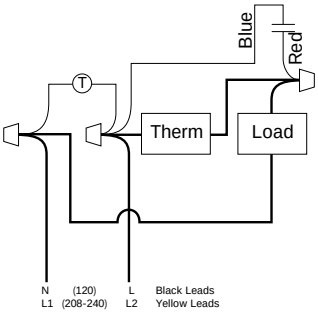
http://waterheatertimer.org/Paragon-timers-and-manuals.html

INSTRUCTIONS for Installing JW TYPE TIMER

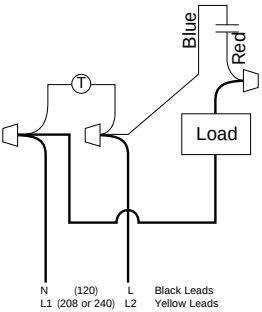
WIRING SUGGESTIONS

Below are two suggested wiring diagrams. The one to be followed depends upon the type of building in which the control system is being installed.

It will be noted that a line switch is recommended ahead of the entire control system so that the system can readily be shut down if necessary. It is also advisable, if more that one fan is being controlled by the same control system, to install a line switch behind the control system, but ahead of each fan. This will eliminate shutting down the entire system if one fan becomes faulty.



Use this wiring method when installing control system in buildings where animal heat is only source of heat.



Use this wiring method when the timer is the only control used.

HOW TO SET THE TIMER

Turn the dial knob in either direction until the number of minutes it is desired to have the fan run out of each ten is under the brass pointer. For example, if it is desired to run the fan three minutes out of each ten, turn the dial until the number "3" is under the brass pointer. For constant operation, turn the dial until the word ON comes under the pointer. The fan can be shut off completely by turning the OFF position to the pointer. Note that when the timer and thermostat are wired as shown in the first diagram, the fan can operate through the thermostat contacts, even though the timer is turned to OFF.

HOW THE TIMER OPERATES

The Model JW Type will repeat a set program continuously. The ten minute timer, as recommended for farm ventilating, will close a circuit every ten minutes. The length of time the circuit remains closed depends on the setting of the timer.

The timer closes the circuit, thus starting the fan, as the brass pointer turns past the "three o'clock" position. The circuit opens and stops the fan as the OFF position of the dial turns past the "three o'clock" position. The circuit can be opened to stop the fan by turning the adjusting knob one complete revolution in either direction. IMPORTANT: THE CIRCUIT CAN BE CLOSED ONLY BY PERMITTING THE TIMER MOTOR TO OPERATE THE MECHANISM UNTIL THE BRASS POINTER PASSES THE "THREE O'CLOCK" POSITION.

HOW TO DETERMINE TIMER SETTING

DAIRY BARNS

Multiply the number of 1000 pound cows in the barn by 250 and divide product by the fan CFM (manufacturer's rating). The resulting number is the timer setting.

LAYING HOUSES

Multiply the number of four pound birds by 5 and divide product by fan CFM (manufacturers rating). The resulting number is the timer setting.

NOTE: In the two above cases, if the number is larger than 10, the fans are too small for effective ventilation. If the setting is less than one-half, the fan capacity is too large for winter ventilation.

BROILER HOUSES

Multiply the age of the birds (in weeks) by the number of birds and divide by the fan CFM (manufacturers rating). The resulting figure is the timer setting for that age. This will be increased as the birds grow.

HATCHERIES

Multiply the fan CFM (manufacturers rating) by 20 and divide product into the number of eggs in incubators. This setting should never be decreased for any given number of eggs, but may be increased in mild weather. In summer, turn the timer to the ON position as the fan will run continuously.

NOTE: All of the above timer setting recommendations are based on normal winter ventilation. The settings should be increased in spring and fall. During sustained extremely cold weather, the settings should be decreased (except as noted) or the ventilating system shut down entirely.

Do not use the JW Type Timer to control a load greater than 1/2 horsepower.

The JW Type Timer, in various time ranges, is used for different purposes. The above information regarding operation and setting of the timer is applicable to these timers.

PARAGON
Electrical Products

Maple Chase Company
2820 Thatcher Road
Downers Grove, Illinois 60515
Made in Mexico

An Invensys company

Telephone + 1 800 732 8400
ISO 9002 registered

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