

Bayley Blower Company

784 Greenbush Street Branches in Principal Cities Milwaukee, Wis.

BUILDERS OF HEATING, VENTILATING, COOLING, PURIFYING, HUMIDIFYING AND AIR WASHING EQUIPMENT; EXHAUST AND DRYING APPARATUS, MECHANICAL DRAFT AND BLAST, FANS AND BLOWERS OF ALL TYPES

BAYLEY PLEXIFORM FAN:

Used to supply air for heating systems or heating and ventilating systems for manufacturing and process industries, for drying systems, or for forced or induced draft systems for boiler plants.

The Plexiform Fan is suitable for handling cool or warm air, as well as high or low temperature gases. It will deliver the maximum quantity of air in applications where medium or low pressure is required.

For applications where space is limited, or where economy of power is desirable, this fan is especially recommended.

The fan wheel, of distinct Bayley design, has great strength without excess weight. Due to its reinforced construction and equal distribution of stresses, vibration is reduced to a minimum. Crystallization of parts, so called, is thus avoided. Large and unobstructed inlets and outlets, and the absence of arbitrary air cut-offs, insure free and noiseless delivery of air.

Bayley Plexiform Fans are furnished in either single or double width wheel types of any required housing construction, and discharge positive sleeve or ball bearings as specified.

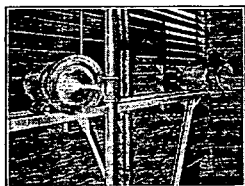


TURBO AIR WASHER AND HUMIDIFIER:

The Bayley Air Washing System is offered for all public and industrial buildings, where a central system of air washing and humidifying is desired.

Competitive air washing and humidifying equipment requires frequent cleaning of the spray nozzles, as the particles of dirt in the recirculated water rapidly clogs the orifices.

The Turbo Atomizer used in the Bayley Washer, produces a steady, fine spray. Water at low pressure is delivered to the center of a rapidly revolving cone-shaped rotor provided with atomizing pins set in its periphery. This atomizer cannot clog, requires very little attention, and will operate successfully under low water pressure. The spray is uniform, and there are never any spaces in the Air Washer that are not completely filled with a fine mist. Bayley Turbo Air Washer and Conditioners may be used for washing, cooling, humidifying, or dehumidifying, as required.

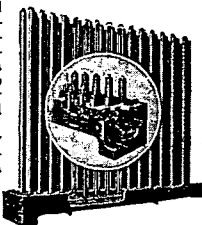


The Bayley Turbo Air Washer Showing Turbo Atomizer and Eliminator

CHINOOK HEATING SECTIONS:

The Chinook Section is used with fan type heating, ventilating, and drying systems. It circulates either high or low pressure steam by gravity or under a vacuum. The heater may also be used to circulate hot water for heating purposes, or cold water for cooling purposes.

The Chinook base is of grey cast iron, having walls of sufficient thickness to withstand a working pressure of 175 lb. per sq. in. The casting is divided into two chambers by a horizontal partition. Steam enters the lower or steam chamber from which it rises through 3/4-in. wrought pipes, which are located within the 1 1/4-in. wrought pipes leading from the upper chamber. Thus the steam in the steam chamber passes up through the small pipes (which are open at the top) into the larger pipes, where condensation takes place, the water and air falling into the upper chamber and draining away through the return outlet. Each tube is evenly heated through its entire length, and air binding cannot occur. The Chinook is the only heater in which a leak can be repaired in the middle of the tank without breaking steam connections or taking down a single section.



Shipped assembled in smaller sizes, and knocked down in the larger units. May be installed in horizontal or vertical position.

BAYLEY TYPE EXHAUST FAN:

An exhaust unit for handling refuse from sawmills, planing mills, cotton gins, textile mills and wood working plants, designed for high efficiency at moderate speed. Its outstanding features are the blast wheel which is built up from a accurately machined and balanced center, insuring well balanced wheel and making replacement of accidentally broken blades a simple matter.



CHINOOKFIN HEATERS:

Chinookfin Heaters are constructed along the lines original with the Bayley Blower Company, as described under Chinook Heating Sections.

The Chinookfin unit illustrated is particularly adapted to use in offices and entrances to buildings, as well as the main portions of industrial plants. It may be connected to the outside air, and thus will ventilate as well as heat the space in which it is installed.

The heaters are sturdy, efficient, easily installed, and occupy no valuable floor or wall space. They require no special structure to carry them, and they may be attached to walls or columns, suspended from the floor above, or from the heating main, as circumstances will permit.

It is not necessary when this heater is used, to recirculate air at room temperature. Air directly from out of doors may be led to the unit, thus making it a ventilating as well as a heating unit. The entire unit is tested to a working pressure of 80 lb.

The Bayley Blower Company offer in addition to the Chinookfin described, larger sizes of industrial unit heaters. The well known B.T.U. Heater is popular in railroad roundhouses and shops. The I.C.U. Heater is also an industrial unit of somewhat lighter construction, which is adapted to use in industrial buildings of all sorts.

Single Unit of the Supported Type with Air Connection from the Floor Line

BAYLEY GYRO AIR AND GAS SCRUBBERS:

Bayley Air and Gas Scrubber is designed for cleaning boiler gas, blast furnace gas, and process gases of any kind, either hot or cold. The scrubbing medium is water, or if added humidity is undesirable, a non-volatile fluid.

Gas enters the scrubber through the scrubber wheel, which is conical in shape, and fitted with concentric rows of pins. Water at low pressure is directed upon the center of the wheel and thrown by the centrifugal force of the rapidly revolving wheel against and along the first row of pins.

The final row or ring of pins throws the water with the entrained solid matter from the gases against a splash plate, which directs it to the bottom of the scrubber. The cleansing of air or gas is thus accomplished by passing air or gas through the scrubber wheel in intimate contact with water, so that dust particles are thoroughly saturated with water and thrown off by the scrubber wheel against the splash plate, finally to settle down to the bottom of the scrubber tank.

The equipment is particularly adapted to all applications where dust may be recovered either for its value or because it forms a nuisance. Typical applications are starch mills and grain elevators.



Bayley Scrubber Designed for Cold Gas—Special Scrubber for Hot Gas Offered for Temperatures Up to 1700 deg. Fahr.

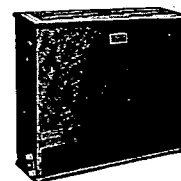
The Buckeye Blower Company

Columbus, Ohio

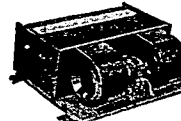
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Manufacturers of BUCKEYE Heating and Ventilating and Air Conditioning Apparatus



The Heatavent has been developed for use in School Rooms and places where quiet running, temperature control, quick heating, and positive ventilation are requisites. This machine is equipped with the oval tube radiator which will not burst when frozen.



The Thermovent has been developed for larger installations requiring from 2000 to 10,000 c.f.m. as churches, auditoriums, garages. Horizontal type for ceiling hanging, vertical type for floor setting. Equipped with or without mixing dampers.



The Thermofan is a propeller fan type of unit for industrial work. Can be used for fresh air supply or recirculating jobs equipped with or without ducts to floor.



Multiblade Fans for heating, ventilating, drying, dust removal and allied uses in all sizes up to 100,000 c.f.m. and up to 6 in. static pressure.

Ozonation and humidity treatment available for all unit applications. Engineering service available in all branch offices.