

Henry Furnace & Foundry Co.

Cleveland, Ohio Miles Furnace Fan Division
MILES FORCED DRAFT AND CONTROL UNIT

MILES COMBUSTION, PRESSURE AND TEMPERATURE CONTROL UNIT

Reduces costs, maintains uniform steam pressure and temperature and increases efficiency. Permits burning of cheaper grades of coal, slack, run of mine, buckwheat and rice.

Miles Combustion, Pressure and Temperature Control Unit is first, a forced draft unit, consisting of motor driven fan and pivoted damper actuated by steam pressure in the boiler, made in seven sizes to deliver air volumes as required and capable of overcoming various amounts of resistance. Second, it is an air pressure and control unit which effects an instant and minute control of the air volume and static pressure in response to pre-determined steam pressure or water temperature by means of the Miles Patented Air and Pressure Control Unit.

A pivoted shut-off damper yields to air pressure from the fan to an open position, and yields also to pressure due to steam or water temperature to a closed position. These counteracting pressures actuate the damper to the exact position which controls air volume and pressure under the grates and this in turn controls the fire.

So delicate is it in operation that the steam pressure will maintain a steady heating load with a variation in pressure of not to exceed two ounces over an extended period.



When a Miles Combustion, Pressure and Temperature Control Unit is installed, the chimney is eliminated as a draft producing factor. It becomes merely a vehicle for carrying off the products of combustion.

Automatic control and mechanical force supply the correct amount of air for any and every condition.

The Miles Control Unit may be installed on either side of boiler or furnace or in the rear.

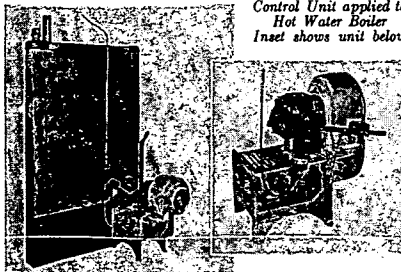
Only the Miles forced draft control has the patented graduated air supply feature which coordinates steam pressure and air volume to produce the required combustion. This unique device is in action at all times when heat is required, and supplies air constantly so that ashes are kept cooled below fusing point—hence no clinkers. Write for complete information.

DATA SHEET

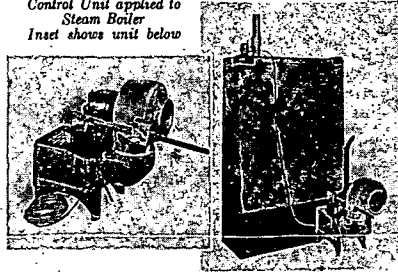
Miles Draft Control Unit for Steam and Hot Water Boilers and Warm Air Furnaces

No. of Unit	H.P. of Motor	Steam Radiation		Warm Air Furnace Btu Capacity
		Anthracite Buckwheat Bit. Nut	Anthracite Rice Bit. Slack	
Self-contained				
3-B	1/50	670	500	167,000
3-HW	1/15	1330	1000	332,000
4-A	1/20	1850	1380	462,000
4-B	1/10	3500	2625+	875,000
5-A	1/10	4150	3100	1,040,000
5-B	1/3	8000	6000+	2,000,000
6-A	1/4	9000	7250	2,250,000
6-B	1/2	13300	10,000+	3,320,000

Miles Combustion, Pressure and Temperature Control Unit applied to Hot Water Boiler
Inset shows unit below



Miles Combustion, Pressure and Temperature Control Unit applied to Steam Boiler
Inset shows unit below



See also Page 843

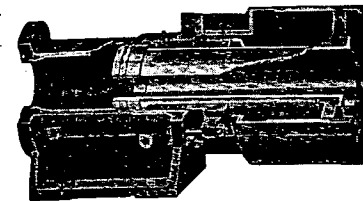
Over Fifty Years In Business

AMERICAN DISTRICT STEAM COMPANY
NORTH TONAWANDA, N.Y.

Branches and Agents in Principal Cities

STEAM DISTRIBUTION EQUIPMENT

ADSCO Piston-Ring Expansion Joint



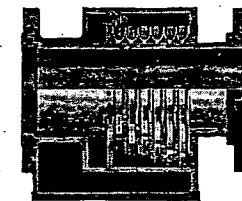
The ADSCO Piston-Ring Expansion Joint can be packed under full operating pressure without interruption to service. The piston rings hold the line pressure during the repacking operation. The ADSCO Piston-Ring Expansion Joint is available in all sizes in single and double slip design; semi-steel or cast steel bodies for all pressures up to 400 lb. and temperatures to 750 F., with flanged ends or ends beveled for welding. Write for Bulletin No. 35-15.

ADSCO Rotary Condensation Meter



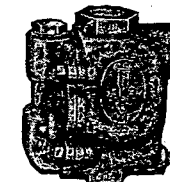
For measuring the steam condensation of a heating system or heating equipment. Used by District Heating Companies as a basis of charge for steam sold—institutional groups for steam cost distribution—and industrial firms for steam consumed in process work. Accurate within 1 per cent. Dependable. Compact. Reads directly in pounds of condensed steam. Furnished with semi-steel or aluminum body and cover in seven sizes; 250, 500, 750, 1500, 3000, 6000 and 12,000 lb. capacity per hour. Write for Bulletin No. 35-80.

ADSCO Packless Expansion Joint, U-Ring Type



The ADSCO Packless Expansion Joint, U-Ring Type is based on an entirely new principle for controlling pipe expansion. The expansion element is a series of die-formed "U-Rings" of stainless alloy steel, welded without transverse seams. The joint is installed with the element compressed. Under full operating conditions, the element is in a neutral position, free from strain. Available with all steel body, fully enclosed element, for pressures to 400 lb. and 800 F., with flanged ends or ends beveled for welding. Write for Bulletin No. 35-50.

ADSCO Vertical Steam Trap



Vacuum Service
To 16 lb. pressure
Gravity Service
0 to 125 lb. pressure

The ADSCO Vertical Steam Trap is a continuous flow, float type, trap with direct vertical inlet and outlet connections and an optional 90 deg. inlet connection. All working parts are mounted on the cover, all piping connections on the body. It has a reversible valve and reversible seat, giving a double life trap at no extra cost. The cover can be removed quickly and the mechanism serviced easily without disturbing the piping. Write for Bulletin No. 35-85A.