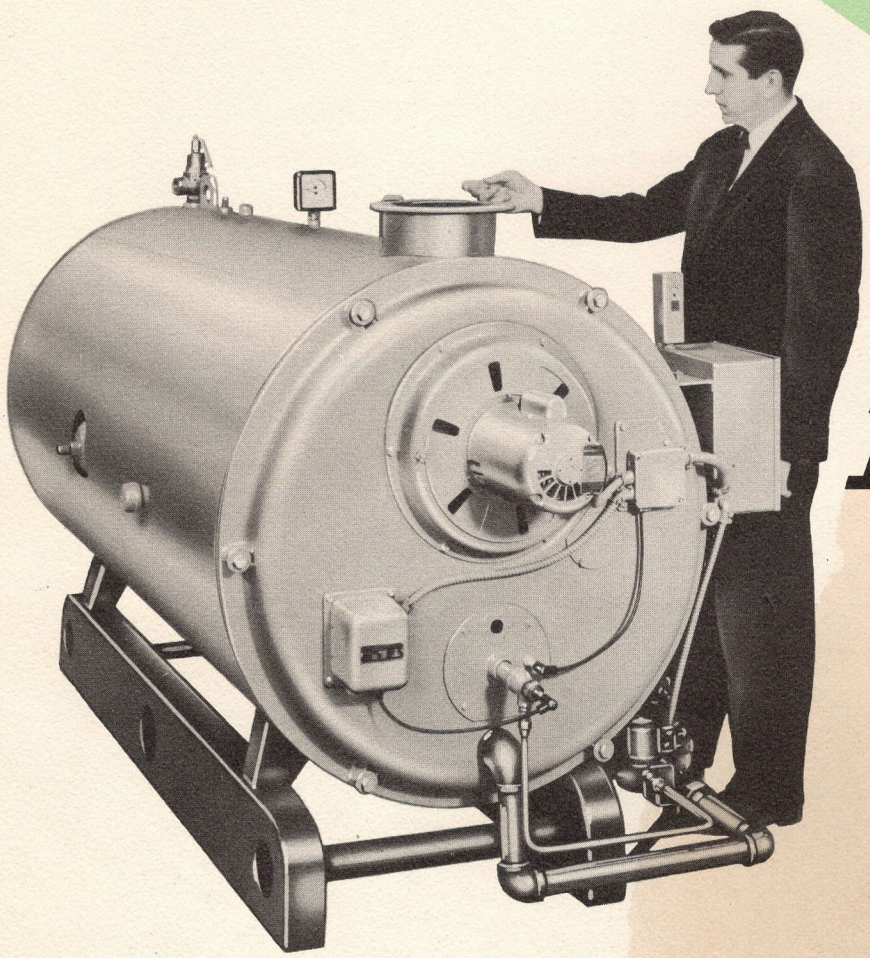
Presenting..... **gas-fired**

Progress commercial heating boilers

A product of Cleaver-Brooks Company . . .
For the first time an industrial-type-quality, packaged boiler for commercial *steam and hot water* application



Cleaver-Brooks
Progress
Packaged Boiler

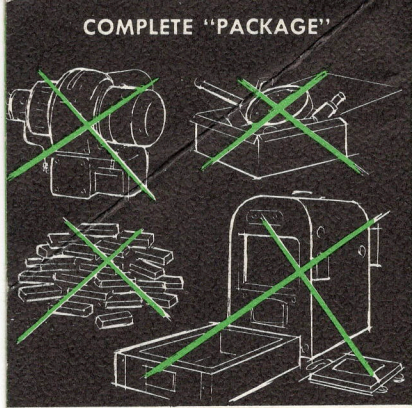
SEVEN SIZES
Up to 2,010,000 BTU Output
Steam or Hot Water, Gas, Oil or Combination Oil - Gas Fired

Only PROGRESS by Cleaver-Brooks brings you:

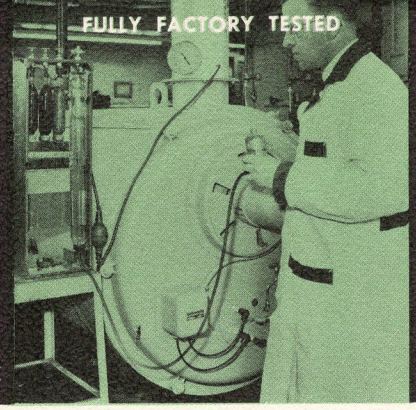
- **Industrial quality** never before available in the commercial heating field.
- **Extensive packaged boiler experience** — Cleaver-Brooks is the originator and America's leading producer of packaged boilers of all types, 15 to 600 hp.
- **Undivided responsibility** on burner, boiler, controls, insulation and jacketing. The PROGRESS boiler is completely factory assembled and ready to pipe and wire.
- **Complete factory testing** from the ASME shell to the full firing test and electrical component checkout.

Plus.....

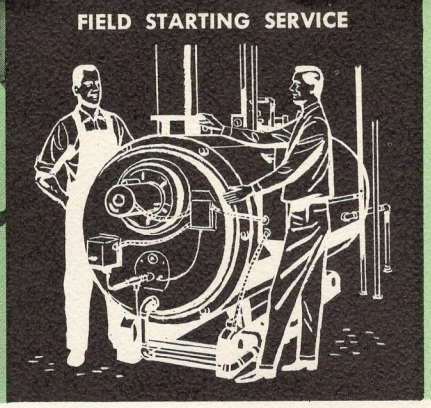
Field starting service — After installation by your heating contractor, your PROGRESS boiler receives final check and adjustment, by authorized service representatives, *plus instructing of attendant*, without additional cost.



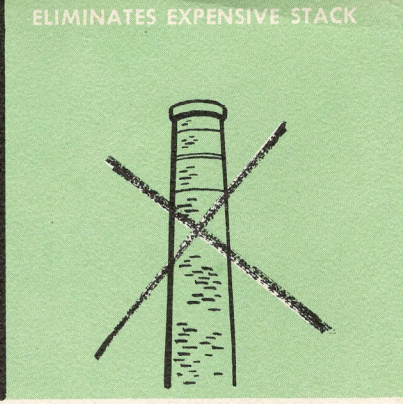
PROGRESS boiler is one complete "package" — instead of many assorted items — your assurance of guaranteed trouble-free performance.



In addition to ASME tests, the Progress boiler is fully fire tested and control system is thoroughly checked before shipment.



Includes final check and adjustment of boiler plus instructing of attendant by authorized service representative — without additional cost.



Forced draft design eliminates expensive brick chimney construction and maintenance. A low-cost roof vent carries away combustion gases.

Cleaver-Brooks

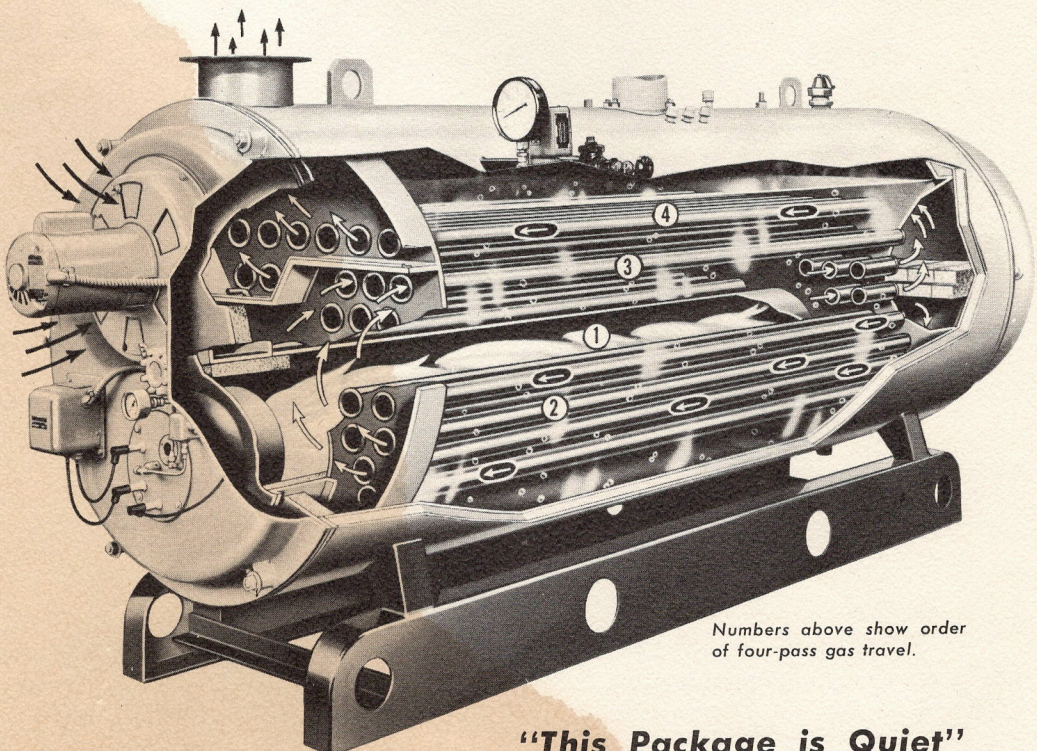
Progress

Packaged Boiler

SIMPLIFIES BOILER PLANNING AND PURCHASE

Planning and purchase of a PROGRESS boiler is simple and fast. You get a *complete* package! Ready for installation, service connections and operation. Nothing is left to chance . . . no extra parts . . . no delays. Complete satisfaction!

in step with PROGRESS . . .



Numbers above show order of four-pass gas travel.

● FOUR-PASS DESIGN WITH FORCED DRAFT

Proved the most efficient combination to transmit greatest percentage of heat to boiler water. Forced draft blower provides correct amount of air for complete combustion and eliminates need or cost of high, expensive chimney.

Combustion gases are forced at high velocity through four passes, producing high heat transfer. This longer gas travel (see cut-away view) literally scrubs heat from the flame — means lower fuel costs.

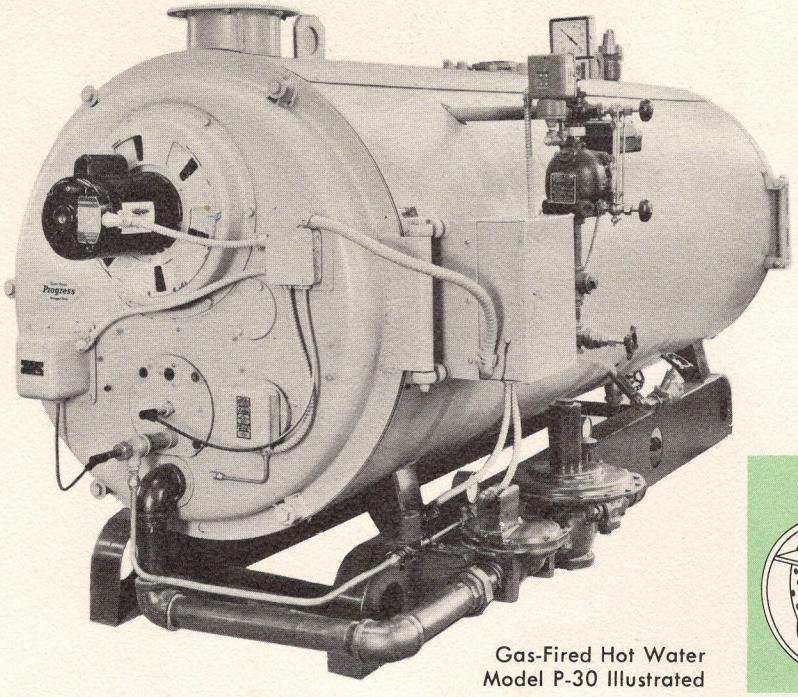
● SOFT FLAME START — CLEAN BURNING

The gradual-opening diaphragm valve and positive electric-gas pilot ignition assures clean, quiet light-off.

"This Package is Quiet"

EXCLUSIVE SILENT FORCED-DRAFT AIR SYSTEM OPERATES AT A REMARKABLE NEW LOW DECIBEL RATING

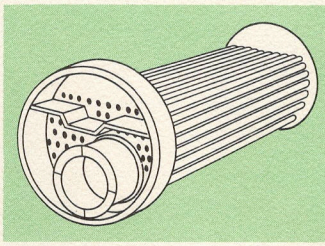
The PROGRESS Boiler is known for its unusually silent operation. An exclusive caseless fan design draws combustion air into the large plenum chamber of the front head, which confines and deadens fan and air noises. At the peak load it more than meets the low sound levels required for schools, hospitals and institutions.



Gas-Fired Hot Water
Model P-30 Illustrated

BUILT TO QUALITY STANDARDS OF INDUSTRIAL BOILERS

PROGRESS boilers are built in one of America's most progressive manufacturing plants — home of Cleaver-Brooks industrial boilers, long established as the standard of the industry. Quality control is maintained throughout every phase of component selection, fabrication, assembly and testing. Truly the measure of a sound investment for any buyer.



FULL FIVE SQUARE FEET OF HEATING SURFACE PER BOILER HP

The liberal design of the PROGRESS boiler provides one of the reasons why Cleaver-Brooks boilers give owners longer service life and require less maintenance.

. . . way ahead in design

- **GAS BURNER**

  Gas burner is the multiple-jet, high radiant type approved for operation with natural, manufactured or mixed gases. The burner operates on the on-off principle.

- **UNDERWRITERS' APPROVED**

  Not just burner approval, but complete unit approval which includes all controls and wiring.

- **CONTROLS**

  Water column, low-water cut-off, steam pressure or theraltimeter gauge, ASME relief valves, limit controls are all nationally known quality products.

  Electronic combustion safety control assures safe shut-down. All electrical equipment is wired in conformity with the National Electric Code. Oil, heat and moisture-resistant wiring throughout.

- **LOW STACK TEMPERATURE**

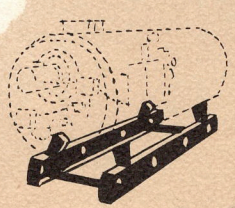
  PROGRESS boilers have stack temperatures from 15 to 30% lower than conventional units. This fact contributes to high efficiency. The PROGRESS boiler is guaranteed to operate at a minimum efficiency of 80%.

- **FACTORY INSPECTION AND TESTING**

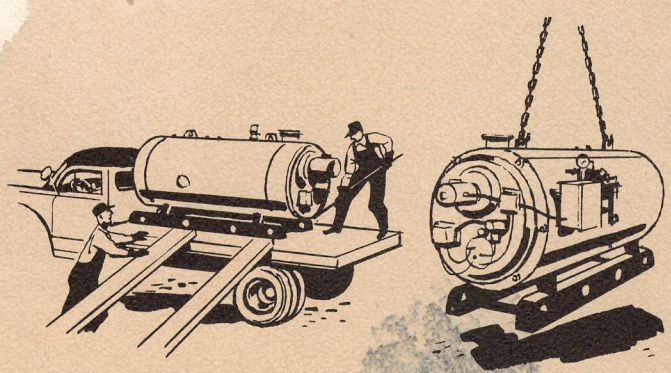
  In addition to the certification by Insurance Inspectors covering conformity to A.S.M.E. Code, all PROGRESS boilers are tested by actual firing and must meet the same standards as established for all Cleaver-Brooks Industrial Units.

Cleaver-Brooks
Progress
Packaged Boiler

backed by the experience of producing thousands of packaged boilers.



Base frame sets solidly on any floor. No sub-base need be built before arrival of boiler.

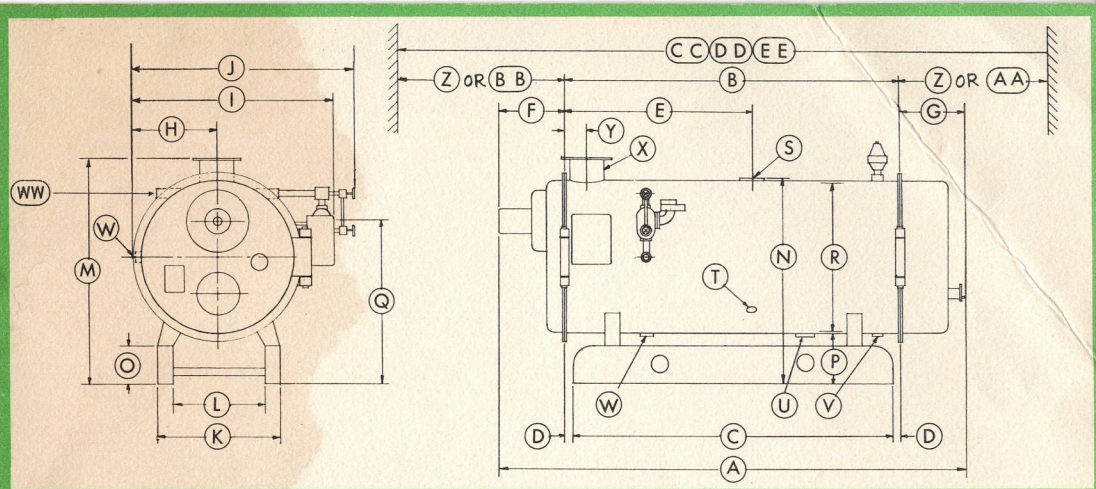


Convenient lifting rings assure easy handling when using overhead lifting equipment, or unit can be easily skidded into position.

Cleaver-Brooks
Progress
Packaged Boiler

CONDENSED INFORMATION TO HELP YOU PLAN YOUR PROGRESS BOILER INSTALLATION

A competent engineer in your area or one of our Sales Engineers will help analyze your needs and plan your Progress boiler installation.



Boiler Model No.		P-15	P-20	P-25	P-30	P-40	P-50	P-60
Boiler Horsepower		15	20	25	30	40	50	60
LENGTHS								
Overall	A	7′-11½″	7′-11½″	9′-6″	9′-6″	11′-8½″	11′-1¾″	11′-1¾″
Shell (over Ring Flanges)	B	5′-2⅝″	5′-2⅝″	6′-8⅝″	6′-8⅝″	8′-10⅝″	7′-8″	7′-8
Base Frame	C	4′-11″	4′-11″	6′-5″	6′-5″	8′-7″	7′-6¾″	7′-6¾″
Ring Flange to Base	D	1 13/16″	1 13/16″	1 13/16″	1 13/16″	1 13/16″	⅝″	⅝″
Ring Flange to Water or Steam Outlet	E	3′-0″	3′-0″	3′-9″	3′-9″	4′-9″	3′-10″	3′-10″
Front Head Extension	F	16⅜″	16⅜″	16⅞″	16⅞″	17⅜″	21″	21″
Rear Head Extension	G	16½″	16½″	16½″	16½″	16½″	20¾″	20¾″
WIDTHS								
Center to Outside of Lagging	H	20″	20″	20″	20″	20″	26⅝″	26⅝″
Overall of Hot Water Boiler	I	4′-0″	4′-0″	4′-0″	4′-0″	4′-0″	5′-1″	5′-1″
Overall of Steam Boiler	J	4′-4″	4′-4″	4′-4″	4′-4″	4′-4″	5′-5″	5′-5″
Base Outside	K	28½″	28½″	28½″	28½″	28½″	36⅞″	36⅞″
Base Inside	L	22″	22″	22″	22″	22″	29⅝″	29⅝″
HEIGHTS								
Base to Vent Outlet	M	4′-5½″	4′-5½″	4′-5½″	4′-5½″	4′-5½″	5′-10″	5′-10″
Base to Water or Steam Outlet	N	4′-1″	4′-1″	4′-1″	4′-1″	4′-1″	5′-4¾″	5′-4¾″
Base	O	9″	9″	9″	9″	9″	12″	12″
Base to Bottom of Shell	P	11¾″	11¾″	11¾″	11¾″	11¾″	15¾″	15¾″
Normal Water Line—Steam Boiler	Q	3′-3¼″	3′-3¼″	3′-3¼″	3′-3¼″	3′-3¼″	4′-4″	4′-4″
Inside Diameter of Shell	R	36″	36″	36″	36″	36″	48″	48″
BOILER CONNECTION								
Water or Steam Outlet	S	4″	4″	4″	4″	6″*	6″*	6″*
Feed Water Tapping Right and Left	T	1″	1″	1″	1″	1″	1¼″	1¼″
Return Tapping	U	3″	3″	4″	4″	4″	4″	4″
Drain Tapping	V	1″	1″	1″	1″	1″	1¼″	1¼″
Side Arm Heater Tapping	W	1½″	1½″	1½″	1½″	1½″	2″	2″
Water Feeder Tapping	WW	1″	1″	1″	1″	1″	1″	1″
VENT STACK								
Vent Diameter	X	6″	6″	8″	8″	8″	10″	10″
Ring Flange to Center of Vent	Y	5″	5″	5″	5″	5″	6″	6″

*Flanged, 150# ASA

Boiler Model No.		P-15	P-20	P-25	P-30	P-40	P-50	P-60
INSTALLATION CLEARANCES								
Door Swing—Front & Rear	Z	3′-6″	3′-6″	3′-6″	3′-6″	3′-6″	4′-7″	4′-7″
Tube Removal—Rear	AA	4′-6″	4′-6″	6′-0″	6′-0″	8′-2″	7′-0″	7′-0″
Tube Removal—Front	BB	3′-8″	3′-8″	5′-2″	5′-2″	7′-4″	6′-2″	6′-2″
Minimum Length of Boiler Room for Door Swing and for Tube Removal from Rear of Boiler	CC	13′-3″	13′-3″	16′-3″	16′-3″	20′-7″	19′-2″	19′-2″
Minimum Length of Boiler Room for Door Swing and for Tube Removal from Front of Boiler	DD	12′-5″	12′-5″	15′-5″	15′-5″	19′-9″	18′-4″	18′-4″
Minimum Length of Boiler Room for Door Swing and for Tube Removal thru Door	EE	12′-3″	12′-3″	13′-9″	13′-9″	15′-11″	16′-10″	16′-10″

Boiler Model No.	P-15	P-20	P-25	P-30	P-40	P-50	P-60
RATINGS							
BTU Output Gross MBH	500	670	835	1000	1340	1,670	2,010
EDR Steam Gross	2085	2790	3480	4170	5580	6,970	8,370
EDR Water Gross (150 BTU)	3350	4460	5570	6700	8930	11,150	13,400
Heating Surface (sq. ft.)*	86	111	144	162	220	266	324
FUEL CONSUMPTION							
Oil—Gallon per Hour (#2 CS1248)	4.5	6.	7.5	9.	12.	15	18
Gas—Cu/Ft per Hour							
500 BTU Mfg Gas	1260	1680	2100	2520	3360	4,200	5,040
800 BTU Mixed Gas	787	1050	1263	1575	2100	2,620	3,140
1000 BTU Nat. Gas	630	840	1050	1260	1680	2,100	2,520
Therms per Hour	6.3	8.4	10.5	12.6	16.8	21.0	25.2
Min. Gas Pressure required at Entrance to Pressure Regulator	4″	4″	4″	4″	4″	4″	4″
Max. Gas Pressure allowed at Entrance to Pressure Regulator	8 oz.	8 oz.	8 oz.	8 oz.	8 oz.	8 oz.	8 oz.
Size Gas Connection at Boiler	1¼″	1¼″	1½″	2″	2″	2″	2″
Power Requirements (hp)	½	½	¾	¾	1	1½	2
Shipping Weight (approx. lbs.)	2640	2700	3150	3250	3950	6,650	6,950

*Calculated on water side of tube.

NOTE: Accompanying dimensions, while sufficiently accurate for layout purposes, must be confirmed for construction by certified dimension print.

Cleaver-Brooks
Progress
Packaged Boiler

SALES AND SERVICE IN PRINCIPAL CITIES

A product of Cleaver-Brooks Company
Milwaukee 12, Wisconsin, U.S.A.
Cable Address: CLEBRO—Milwaukee—all codes

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