



PLAINTIFF'S EXHIBIT

ASI-923

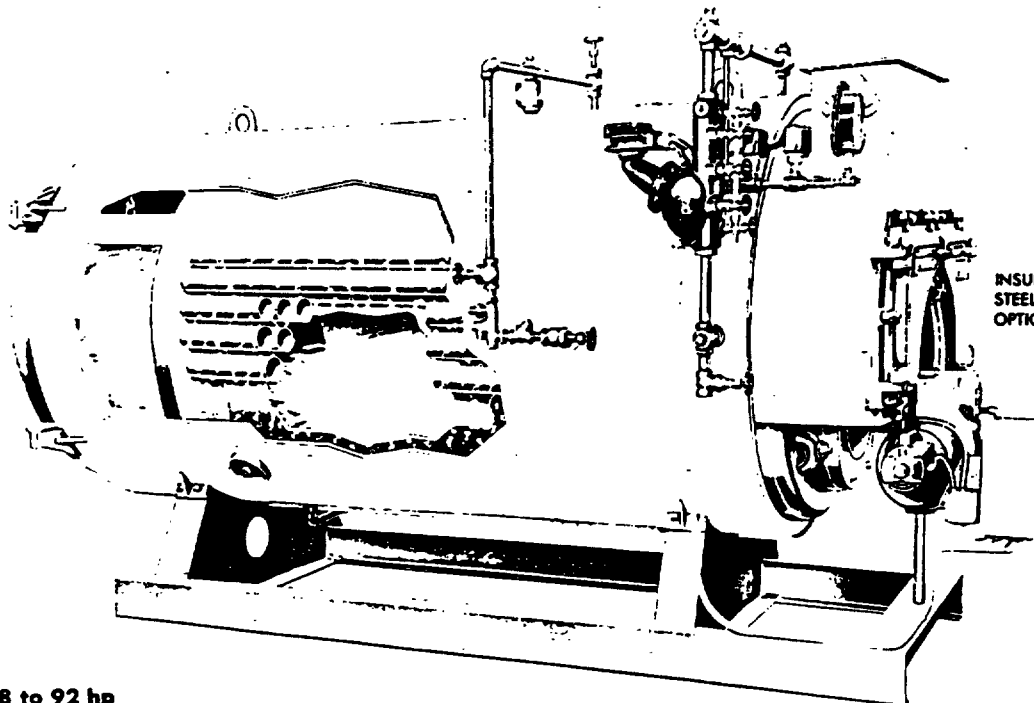
high pressure forced draft package units • light oil, gas or oil-gas combination

MARCH, 1958



ASME Code construction

INSULATED STEEL JACKET OPTIONAL

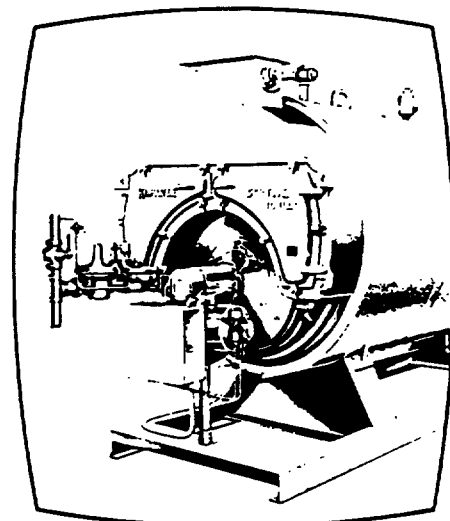


18 to 92 hp
125—150 lb wp ... high temperature water above 250° F

Designed to fit the needs of today's long low buildings and limited space, these package units are compact and complete ... ready for operation after making service connections. Units offer choice of light oil, L. P. or natural gas. Combination oil-gas burners also available, meet requirements in areas requiring oil standby.

Iron Fireman C-120 or C-240 burner controls are housed in an integral control panel. Units have all necessary operating controls including electronic combustion control system. Forced draft fan supplies all air for combustion under pressure ... only stub stack required. Boiler is famous Kewanee Scotch type with hinged rear door* and cast iron flue doors for easy cleaning and inspection—ample steam space and water content—generous heating surface for fast pick-up. Units are factory assembled ... fire-tested, if desired. If preferred, boilers and burners can be shipped separately to job-site. For burner details, see Bulletin 3319-3

*Bolted rear cover plate on two larger sizes



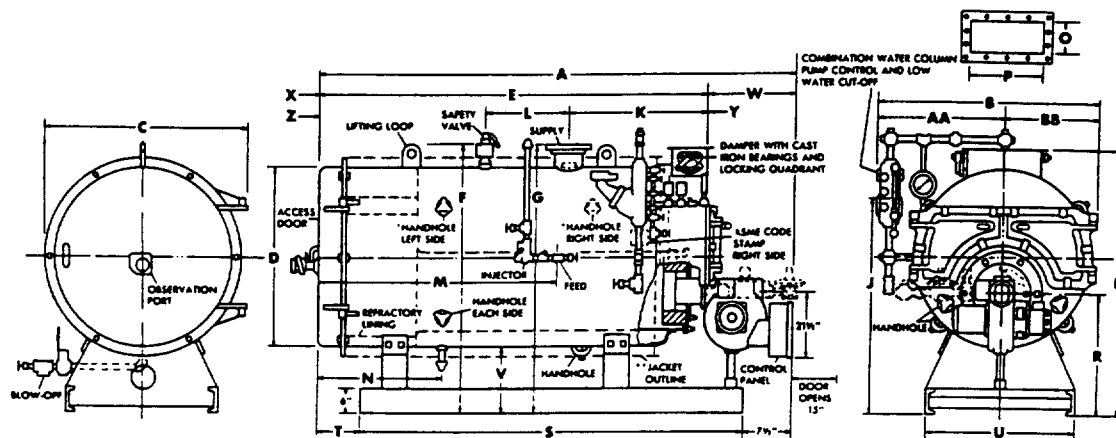
combination oil-gas unit

ratings

unit number	KIF-18-C	KIF-29-C	KIF-39-C	KIF-45-C	KIF-59-C	KIF-65-C	KIF-78-C	KIF-92-C
rating — horsepower	18	29	39	45	59	65	78	92
— MBtuh	606	967	1316	1530	1971	2191	2625	3091
— steam per hour — 212° F	lb 624	996	1256	1577	2031	2258	2705	3185
firing rate — No 2 oil **	gph 5.4	8.6	11.7	13.6	17.5	19.5	23.4	27.5
— gas ***	MBtuh 757	1208	1645	1912	2463	2738	3281	3863
heating surface	sq ft 99	158	215	250	322	358	429	500
furnace volume — plain furnace	cu ft 16.9	21.4	29.6	32.0	47.9	50.8	62.5	67.7
— corrugated furnace	cu ft							
safety valve capacity	lb steam per hr 792	1264	1720	2000	2576	2864	3432	4000

*Certified output **Based on 140,000 Btu oil ***5" W.C. minimum gas pressure at inlet to burner control manifold

**forced draft package units • high pressure
light oil, gas or oil-gas combination**



NOTE When selecting Package Unit, specify: (a) Unit Number, (b) Operating Pressure, (c) Type (steam or hot water), (d) Burner Model desired (oil, gas or oil-gas combination), (e) Gas (type and pressure available) consult local utility.

*HANDHOLES FURNISHED ON KIF-18-C THRU KIF-45-C
HANDHOLE FURNISHED ON KIF-59-C THRU KIF-92-C
**OPTIONAL
NOTE KIF-18-C THRU KIF-45-C ILLUSTRATED

dimensions (feet—inches)

unit number	KIF-18-C	KIF-29-C	KIF-39-C	KIF-45-C	KIF-59-C	KIF-65-C	KIF-78-C	KIF-92-C
A—length overall	8-9	11-3	11-6	12-7	13-3	14-2	13-2½	14-5½
B—width overall	4-6	4-6	5-0	5-0	5-6	5-6	6-1	6-1
C—boiler—width	4-0½	4-0½	4-6½	4-6½	5-0½	5-0½	5-5	5-5
D—inside diameter	3-6	3-6	4-0	4-0	4-6	4-6	5-0	5-0
E—length	6-10½	9-4½	9-9½	10-10½	11-7	12-6	11-7	12-10
F—lifting loop height	5-4½	5-4½	5-10½	5-10½	6-5	6-5	6-10	6-10
G—steam supply height	4-11½	4-11½	5-5½	5-5½	6-0	6-0	7-0	7-0
H—smoke outlet height	5-6	5-6	5-11½	5-11½	6-5½	6-5½	7-1½	7-1½
J—water line height	4-3	4-3	4-7½	4-7½	5-0½	5-0½	5-7½	5-7½
K—steam supply	2-3	2-9	2-11	2-11	3-0	3-6	3-1	3-7
L—safety valve	1-8	1-8	1-8	1-8	3-6	3-6	4-3	4-4
M—feed water, each side	4-5	6-4½	6-8	7-9	6-7	7-0	6-6	7-1
N—blow-off	2-6	2-6	2-9	2-9	3-0	3-0	4-0	4-0
O—smoke outlet—inside width	0-8	0-8	0-10	0-10	0-11	0-11	1-0	1-0
P—inside length	0-10	0-10	1-1	1-1	1-2	1-2	1-5	1-5
R—furnace height	2-5½	2-5½	2-6½	2-6½	2-10	2-10	3-1½	3-1½
S—base—length	7-5	9-11	9-10½	10-11½	11-5	12-4	11-1	12-3½
T—location	0-8½	0-8½	1-0	1-0	1-2½	1-2½	1-6	1-6½
U—width	3-0	3-0	3-6	3-6	4-0	4-0	5-0	5-0
V—floor to boiler	1-4	1-4	1-4	1-4	1-4	1-4	1-6	1-6
W—burner front to boiler	1-10½	1-10½	1-8½	1-8½	1-8	1-8	1-7½	1-7½
X—rear door clearance	3-6	3-6	4-0	4-0	4-6	4-6	4-4	4-4
Y—tube replacement space—front	3-5½	5-11	5-9½	6-10½	7-2	8-1	6-11	8-1½
Z—rear	2-2½	4-8	4-5½	5-6½	5-8	6-7		
AA—width	2-7½	2-7½	2-10½	2-10½	3-1½	3-1½	3-5	3-5
BB—width	1-10½	1-10½	2-1½	2-1½	2-4½	2-4½	2-8	2-8

data

unit number	KIF-18-C	KIF-29-C	KIF-39-C	KIF-45-C	KIF-59-C	KIF-65-C	KIF-78-C	KIF-92-C
vent diameter	8	10	12	13	14	14	15	16
steam supply size	in. 2	2	2	2	3	3	4*	4*
blow-off size	in. 1	1	1	1	1½	1½	2	2
feed water size	in. ¾	¾	¾	¾	¾	¾	1½	1½
gas inlet	in. 1½	1½	1½	2	2	2	2½	2½
**outside surface to cover	sq ft 63	90	107	121	145	158	178	197
approximate weight—125 lb wp	lb 4150	5100	6250	7000	9000	9500	11700	12400
—150 lb wp	lb 4250	5200	6300	7050	9100	9650	12600	13000

*300 lb American Standard Flange

**Front of boiler and smokebox NOT included

Standard equipment—Boilers mounted on steel skids, gas-tight front steel smokebox with insulated cast iron gasketed flue door. Factory installed rear combustion chamber. Hinged rear combustion chamber door with pyrex observation port on KIF-18-C thru KIF-65-C, rear cover plate with access panel and pyrex observation port on KIF-78-C and KIF-92-C. Spinner blades, quadrant lock damper, boiler lifting loops and flue cleaner with handle. Manhole on KIF-59-C thru KIF-92-C. Note Refractory lined burner mounting plate furnished by burner manufacturer.

Standard steam trimmings—Safety valve(s), steam gage and cock, combination water column, pump control and low water cut-off with wheel operated gage and try cock assembly, blow off valves, globe and check valves for boiler feed line, injector, iron piping and fittings attaching trimmings to boiler.

Standard water trimmings—Water relief valve(s), low water cut-off, blow-off valves, iron piping and fittings attaching trimmings to boiler.

Standard equipment subject to change without notice.



AMERICAN-Standard
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