

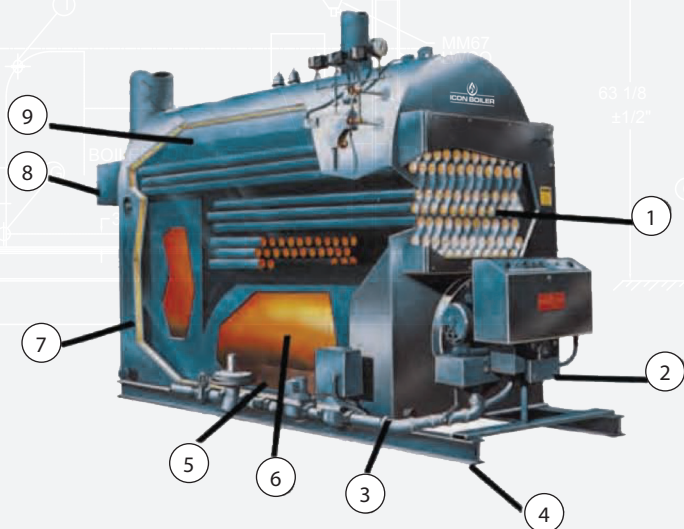


# ICON BOILER



## **OSPREY** **3-PASS FIREBOX BOILER**

Designed for Maximum Efficiency, Reliability and Durability  
in Today's Most Demanding Environments.



1. Tubes Roller Expanded - All boiler tubes are secured by roller expanding and flaring for tight seal.
2. Forced draft burner design for efficient operation and ease of maintenance. Standard burners are specifically matched with the firebox volume and size to provide complete efficient combustion. Forced draft firing requires only a stub stack to the outside.
3. All steel/welded construction to ASME Code Section IV for low pressure heating boilers.
4. Structural steel base provides even distribution of weight and allows for ventilation under the boiler.
5. Combustion chamber floor is poured with high temperature castable refractory securely anchored to the base plate.
6. Large firebox volume insures complete combustion with clean firing, smooth starts and quiet operation.
7. Two-inch fiber insulation with 8 lb. density provides minimal jacket heat loss and jacket rigidity.
8. Large steam diengaging area and storage volume insures steady water level with a dry steam supply.
9. Rear smokebox with vertical vent connection and tube access cover.

	75	124	201	260	306	364	441	508	624	751	1021	1245
STEAM OUTLET	3"	3"	4"	4"	4"	4"	6"	6"	6"	6"	8"	8"
FEEDWATER CONN	3"	1"	4"	4"	4"	4"	6"	6"	6"	6"	8"	8"
LWCO CONN	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"
SAFETY VALVE CONN	2"	2"	2"	2"	2"	2"	2 1/2"	2 1/2"	3"	3"	2 1/2"	2 1/2"
BOILER DRAIN/BLOWDOWN CONN	2"	2"	2"	2"	2"	2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"
HANDHOLE	3"X4"	3"X4"	3"X4"	3"X4"	3"X4"	3"X4"	3"X4"	3"X4"	3"X4"	3"X4"	3"X4"	3"X4"
SIGHT/CLEANOUT PORT	1 1/4"	1 1/4"	1 1/4"	1"	1 1/4"	1 1/4"	17"	17"	17"	17"	17"	17"
STACK CONN	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
HORSEPOWER	15	25	40	52	61	73	88	100	125	150	204	249
DESIGN PRESSURE (STEAM)	15 PSI	15 PSI	15 PSI	15 PSI	15 PSI	15 PSI	15 PSI	15 PSI	15 PSI	15 PSI	15 PSI	15 PSI
GROSS OUTPUT	502 MBH	4151 MBH	1339 MBH	1740 MBH	2042 MBH	2440 MBH	2946 MBH	3348 MBH	4184 MBH	5021 MBH	6836 MBH	8335 MBH
STEAM (FROM AND AT 212°)	517 LB/HR	4278 LB/HR	1380 LB/HR	1793 LB/HR	2105 LB/HR	2515 LB/HR	3036 LB/HR	3450 LB/HR	4312 LB/HR	5175 LB/HR	7045 LB/HR	8590 LB/HR
HEAT RELEASE (FURNACE ONLY, BTU/FT³)	64,243	330,907	115,461	116,287	69,159	106,746	63,204	99,714	95,982	90,030	70,215	92,740
RATED INPUT	628 MBH	5189 MBH	1674 MBH	2175 MBH	2552 MBH	3050 MBH	3682 MBH	4184 MBH	5230 MBH	6277 MBH	8544 MBH	10419 MBH
HEATING SURFACE (ASME)	75 FT²	124 FT²	201 FT²	260 FT²	306 FT²	364 FT²	441 FT²	508 FT²	624 FT²	751 FT²	1021 FT²	1258 FT²
FURNACE HEATING SURFACE	23.41 FT²	32.92 FT²	21.34 FT²	23.86 FT²	57.06 FT²	34.32 FT²	74.48 FT²	43.37 FT²	55.02 FT²	68.42 FT²	130.53 FT²	90.82 FT²
FURNACE VOLUME: FURNACE ONLY	9.77 FT³	15.68 FT³	14.50 FT³	18.71 FT³	36.90 FT³	28.62 FT³	57.26 FT³	41.96 FT³	54.49 FT³	69.72 FT³	121.69 FT³	112.80 FT³
STEAMING VOLUME	4.85 FT³	-	14.90 FT³	7.52 FT³	9.19 FT³	10.09 FT³	19.41 FT³	17.43 FT³	21.14 FT³	25.22 FT³	42.52 FT³	44.68 FT³
STEAM RELEASE AREA	7.71 FT²	-	16.75 FT²	14.76 FT²	17.53 FT²	20.44 FT²	25.34 FT²	27.24 FT²	33.04 FT²	39.42 FT²	46.44 FT²	52.58 FT²
WATER CAPACITY (FULL, GAL/LBS)	149/1238	204/1700	327/2724	375/3123	496/4123	513/4271	703/5851	715/5950	867/7207	1033/8592	1471/12258	1690/14058
WATER CAPACITY (NWL, GAL/LBS)	112/935	-	271/2254	319/2655	427/3551	438/3643	558/4643	585/4865	708/5892	844/7022	1152/9605	1356/11278
SHIPPING WEIGHT	2750 LBS	3800 LBS	5100 LBS	5600 LBS	6000 LBS	7400 LBS	9100 LBS	11,200 LBS	13,200 LBS	16,900 LBS	18,600 LBS	23,400 LBS
DESIGN TEMPERATURE	250 F°	250 F°	250 F°	250 F°	250 F°	250 F°	250 F°	250 F°	250 F°	250 F°	250 F°	250 F°

