

# BOILERSMITH<sup>CO</sup>

## SCOTPAK

WT3HS-150-O-150



Note: Pressuretrol Train and hinges are now as shown inside.

**INNOVATIVE TWIN  
HEAD BOILERS FROM**

■ CANADA'S 🔧 BOILER 🔧 MAKER ■

## WTB SERIES

**PACKAGED  
FIRETUBE  
DESIGN**

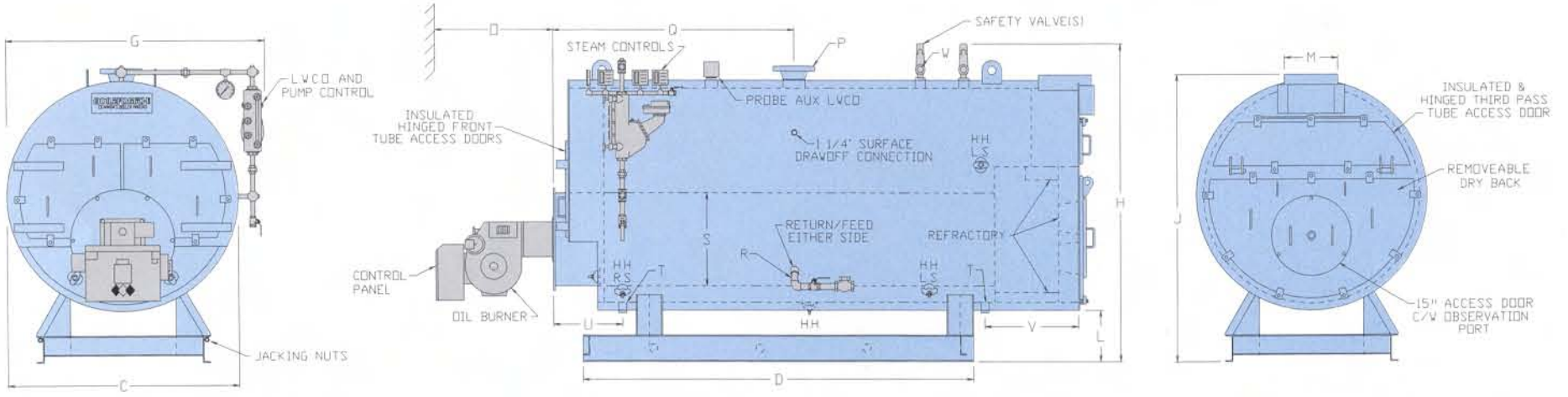


**15 & 150# STEAM**      **REFINED THREE-PASS**

# WT3 SCOTPAK SERIES

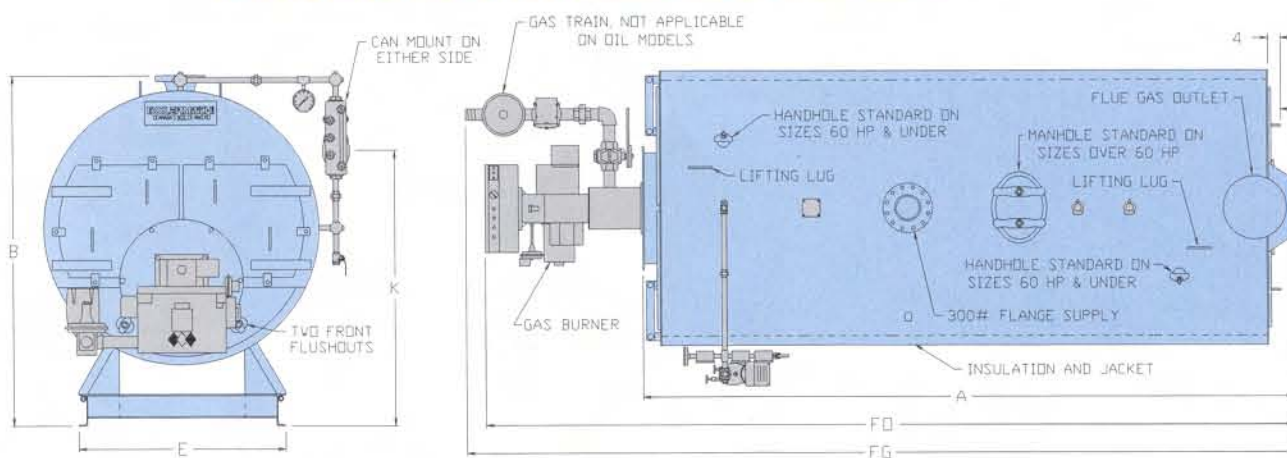
**TWIN HEAD DESIGN**      **40 TO 300 HP**

## INNOVATIVE PACKAGED FIRETUBE BOILERS



**VIEWS SHOWING OIL BURNER AND STEAM TRIM**

**REAR VIEW**



**FRONT VIEW GAS/STEAM**

**TOP (PLAN) VIEW**

**GAS FIRED**  
**OIL FIRED**  
**GAS/OIL FIRED**

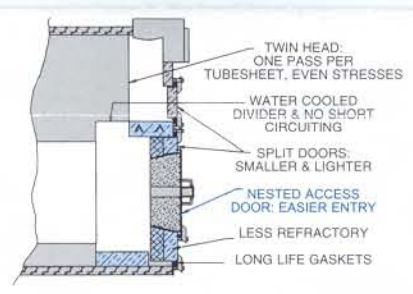
**MODEL No. DESIGNATION**  
**WT3HS - 100 - O - 150**

HS - HIGH PRESSURE STEAM  
LS - LOW PRESSURE STEAM  
LW - LOW PRESSURE WATER

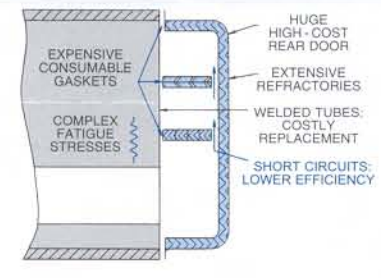
O - OIL FUEL  
G - GAS FUEL  
GO - GAS/OIL FUEL  
P - PROPANE

100 - HORSEPOWER  
150 - DESIGN PRESSURE PSIG

**TWIN HEAD ADVANTAGE**



**COMPETITOR'S MULTIPASS SINGLE TUBE SHEET DRYBACK DISADVANTAGE**



### 150# STEAM WT3 SCOTPAK SERIES SPECIFICATIONS

	40	50	60	70	80	90	100	125	150	175	200	225	250	275	300
HORSEPOWER	40	50	60	70	80	90	100	125	150	175	200	225	250	275	300
GROSS OUTPUT - MBH	1339	1674	2008	2343	2678	3012	3347	4184	5021	5858	6694	7531	8368	9205	10042
GROSS OUTPUT - LBS STEAM /HR	1380	1725	2070	2415	2760	3105	3450	4313	5175	6038	6900	7763	8625	9488	10350
FIRING RATE INPUT - GAS	1613	2017	2419	2823	3227	3629	4033	5041	6049	7058	8065	9073	10082	11090	12099
FIRING RATE INPUT - OIL USGPH	11.5	14.4	17.3	20.2	23.0	25.9	28.8	36.0	43.2	50.4	57.6	64.8	72.0	79.2	86.4
HEATING SURFACE - SQ FT	200	250	300	350	400	450	500	625	750	875	1000	1125	1250	1375	1500
WATER CAPACITY - FULL	293	369	441	505	579	654	728	901	1074	1247	1420	1593	1766	1939	2112
WATER CAPACITY - NVL	241	304	364	401	461	521	581	725	869	1013	1157	1301	1445	1589	1733
SHIPPING WEIGHT	4750	5350	6250	9150	9700	11350	11900	13250	15750	17200	18500	20400	21700	23000	24250
ALL DIMENSIONS WITHOUT DECIMALS ARE TO THE NEAREST INCH															
OTHER INTERMEDIATE MODELS AVAILABLE															
A BARE BOILER LENGTH	96	115	131	121	134	118	127	151	154	173	193	174	190	205	221
B BARE BOILER HEIGHT	72	72	72	80	80	86	86	86	91	91	91	98	98	98	98
C BARE BOILER WIDTH	53	53	53	59	59	65	65	65	70	70	70	77	77	77	77
D BASE LENGTH	58	75	93	81	94	72	81	103	103	120	140	120	135	150	164
E BASE WIDTH	44	44	44	50	50	54	54	54	60	60	60	66	66	66	66
FG OVERALL LENGTH - GAS	120	154	170	160	177	161	170	194	197	216	239	221	237	252	268
FD OVERALL LENGTH - OIL	122	141	157	147	163	147	156	180	183	202	225	206	222	241	257
G OVERALL WIDTH	60	60	60	66	66	72	72	72	77	77	77	84	84	84	84
H OVERALL HEIGHT	77	77	78	86	86	92	95	92	97	97	100	107	107	107	107
J HEIGHT TO FLUE GAS VENT	71	71	71	79	79	85	85	85	90	90	90	97	97	97	97
K HEIGHT TO NVL	58	58	58	64	64	70	70	74	74	74	74	80	80	80	80
L FLOOR TO JACKET	16	16	16	18	18	18	18	18	18	18	18	18	18	18	18
M OUTLET DIAMETER	10	12	12	12	12	14	14	16	16	16	18	18	20	20	22
N TUBE REMOVAL - REAR	61	78	96	82	95	73	82	106	103	122	142	121	135	150	164
D TUBE REMOVAL - FRONT	60	77	95	83	96	74	83	107	104	123	143	122	136	151	165
P SUPPLY SIZE	3	3	3	4	4	4	4	6	6	6	6	6	6	6	6
O SUPPLY LOCATION	49	57	65	55	61	55	60	70	75	85	95	79	91	99	107
R FEED/RETURN CONNECTION No & SIZE	2x1	2x1	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2
S FURNACE DIAMETER	22	22	22	24	24	28	28	28	30	30	30	32	32	32	32
T BLOWOFF/DRAIN CONNECTION No & SIZE	2x1.5	2x1.5	2x1.5	2x1.5	2x1.5	2x1.5	2x1.5	2x1.5	2x1.5	2x1.5	2x1.5	2x1.5	2x1.5	2x1.5	2x1.5
U FRONT BLOWOFF/DRAIN LOCATION	19	19	19	19	19	21	21	21	23	23	23	23	23	23	23
V REAR BLOWOFF/DRAIN LOCATION	20	20	20	22	22	26	26	26	28	28	28	28	28	28	28
W SAFETY VALVE OUTLET - No & SIZE	1x1.25	1x1.25	1x1.5	1x1.5	1x1.5	1x1.5	1x2	1x1.25	1x1.25	2x1.5	1x1.5	1x1.5	2x2	2x2	2x2

BOILER TUBES CAN BE DRAWN FROM EITHER END SPACE REQUIRED IS INDICATED BY DIM N or D  
 DESIGN PRESSURES AVAILABLE AT 15# AND UP TO 250# STEAM  
 HH=HANDHOLE, BS=BOTH SIDES, LS=LEFT SIDE, RS=RIGHT SIDE  
 OTHER MODELS AVAILABLE UP TO 800 HP TO BURN ALL FUELS  
 WE ASSUME NO RESPONSIBILITY FOR ERRORS IN DATA  
 CERTIFIED DIMENSIONS, SPECIFICATIONS AND DRAWINGS AVAILABLE ON REQUEST

FIRING SEQUENCE IS LO-HI-LO-OFF UP TO AND INCLUDING 200 HP  
 FIRING SEQUENCE IS FULL MODULATION ABOVE 200 HP  
 FULL MODULATION FIRING IS AVAILABLE FOR 200 HP AND BELOW  
 CONNECTIONS 4" AND LARGER ARE 300# FLANGES, ALL OTHERS ARE THREADED  
 WATER COLUMN ASSEMBLY CAN BE READILY REMOVED TO EASE INSTALLATION  
 GAS TRAINS CAN BE PIPED ALONG SIDE OF SKID



# WTB SCOTPAK SERIES

## SCOTPAK SERIES OVERVIEW

- \* REDESIGNED \*
- \* LARGER FURNACES \*
- \* ENHANCED EFFICIENCY \*
- \* BETTER TUBE ACCESS \*

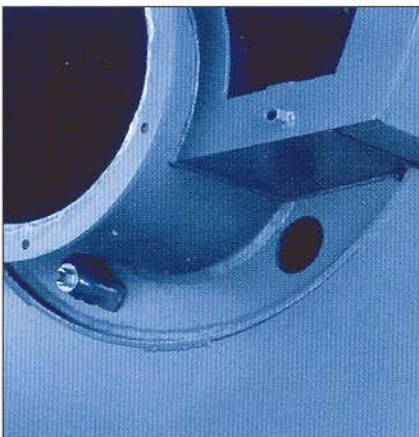
- Undesirable, throw-away, non-repairable construction is avoided (as seen on some watertubes and exotic designs)
- Our FIRETUBE design has 100% water-cooled heat transfer surface; no hot fins to burn away
- High efficiency is obtained without using a fourth pass; fourth pass tubes have often been subject to premature failure
- FIVE square feet of heating surface for each boiler horsepower
- Time-tested design, 35 years in the field and now with refined features
- Hinged front doors provide fast access to tubes without disconnection of pipes, fuel lines or electrical cables AND without disturbing firing equipment
- Shipped completely assembled and factory test-fired



- Ample steam space and steam release area yield dryer steam and minimize scaling of system components

## EXCELLENT REAR ACCESS

- Separate rear doors offer simpler, faster access
- An extra 15-inch quick access inspection port is nested in the lower rear door
- Split rear doors reduce refractory use and attendant maintenance costs
- Refractories are of the field-replaceable, castable variety; no special expensive blocks or bricks

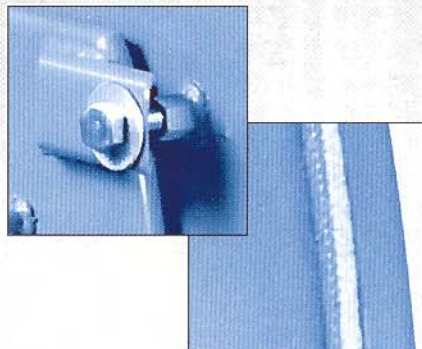


- Extra handholes are provided in a superior location in the front tube sheet below the furnace
- Offset handhole plate studs ease insertion and removal

## UNIQUE TWIN HEAD DESIGN

- Two rear tubesheets, one for each pass; uneven stresses eliminated
- Water-cooled pass divider plate; this prevents short circuiting even if refractory needs repair
- Twin tube sheets eliminate need for welded tube attachment (welded tubes are more difficult to replace)

- Large 5/8" BOLTS are used on all doors; fewer are required; opening/closure is faster; easily damaged studs are avoided



- All fireside doors have long-life gaskets, fit for repeated use

## STANDARD STEAM TRIM

- Safety valve(s)
- Water glass set
- Pressure gauge
- Gauge cock
- Pressuretrol line drain
- Trycocks
- Pressuretrol – high limit
- Pressuretrol – operating
- Pressuretrol – high fire control (modulating as required)
- McDonnell Miller 157 low water cutoff and pump control c/w water column blowdown valve
- Warrick 2 probe auxiliary low water cutoff c/w probe relay
- Feed check and shutoff valves

## OPTIONS AND ALTERNATIVES

- We specialize in customizing your boiler. The Scotpak can be equipped to suit a wide variety of installations and specifications. We will help direct you to the most cost-effective models and features.

**BOILERSMITH**  
CANADA'S BOILER MAKER

P.O. Box 70, 156 Main Street South  
Seaford, Ontario N0K 1W0  
Tel: (519) 527-0600 Fax: (519) 527-0150

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