TECHNICAL SPECIFICATIONS

CLAYTON HIGH TEMPERATURE FLUID HEATERS:

* SAVE FUEL

The unique counter flow, controlled flow design provides higher fuel to steam efficiencies than traditional boilers.

* ARE SAFE FOR PERSONNEL & EQUIPMENT

The Clayton units inherently eliminate the potential for hazardous steam explosions due to their smaller physical size and low water volume.

* PROVIDE RAPID RESPONSE

With low water volume and physical size, Clayton units can respond very quickly to load changes

* PROVIDE FAST START-UP AND LOAD REPONSE

The units will provide full output from a cold start within ten minutes, without thermal stress.

* ARE COMPACT AND LIGHTWEIGHT

The Clayton design typically occupies one-third of the floor space and is 75% lighter than a conventional boiler.

* ENSURE HIGH QUALITY STEAM

Provide greater than 99.5% quality steam.

* AFFORD FUEL VERSATILITY

Natural gas, propane, light or heavy oil burners are available or in combination.

* HAVE ADVANCED CONTROLS

Programmable Logic Controllers (PLC) are standard for accurate and reliable operation.

* ARE AVAILABLE WITH LOW NOX

Industry leading Low NOx burners are available to meet strict environmental regulations.

 ARE BACKED BY Fast, Expert Factory-Direct service that is available 24 hours per day throughout the U.S., Canada, Mexico, Europe, Asia and service distributors worldwide.





MODEL E204-DZ FLUID HEATER 200 BHP

CLAYTON FLUID HEATER

SPECIFICATIONS

MODEL E204								MODE	L SEG2	204-FI	МВ
	MODEL	E204	MODEL SE204		MODEL EG204-FMB			with Low NOx Burner			
	Stand	dard	with Super	ith Super Economizer		with Low NOx Burner			and Super Economizer		
BOILER HORSEPOWER	200		200		200		200				
HEAT INPUT, BTU/hr Oil	8,066,265		7,784,884		NA		NA				
Gas	8,164,634		7,876,471		8,265,432		7,876,471				
NET HEAT OUTPUT, BTU/hr	6,695,000		6,695,000		6,695,000		6,695,000				
EQUIVALENT OUTPUT (from and at 212°F											
feedwater and 0 PSIG steam)	6,900 lbs/hr		6,900 lbs/hr		6,900 lbs/hr			6,900 lbs/hr			
DESIGN PRESSURE (see note 1)	15 - 500 psig		15 - 500 psig		15 - 500 psig			15 - 500 psig			
STEAM OPERATING PRESSURE	13 - 450 psig		13 - 450 psig		13 - 450 psig			13 - 450 psig			
(determined by design pressure)											
OIL CONSUMPTION	57.4 gph		55.4 gph		NA			NA			
at maximum steam output (see note 2)											
GAS CONSUMPTION	8,165 cfh		7,876 cfh		8,265 cfh		7,876 cfh				
at maximum steam output (see note 3)											
BURNER CONTROLS											
modulating	5 to 1 Turndown		5 to 1 Turndown		4 to 1 Turndown		4 to 1 Turndown				
EFFICIENCY											
oil-fired efficiency %	83%		86%		NA		NA				
gas-fired efficiency %	82%		85%		81%		85%				
ELECTRIC MOTORS, HP	Blower	Pump	Blower	Pump	Blower	Pump	Cooling	Blower	Pump	Co	oling
design pressure 15-300 psig	10	7.5	10	7.5	15	7.5	5	15	7.5		5
design pressure 301-500 psig	10	10	10	10	15	10	5	15	10		5
ELECTRIC FLA, based on 460 V (see note 4)											
design pressure 15-300 psig	30		30		37			35			
design pressure 301-500 psig	33		33		41			38			
GAS SUPPLY PRESSURE REQUIRED	5 to 10 psig		5 to 10 psig		5 to 10 psig			5 to 10 psig			
ATOMIZING AIR REQUIRED (see note 5)											
Capacity	25 scfm		25 scfm		NA			NA			
Minimum pressure	70 psig		70 psig		NA		NA				
AIR SUPPLY REQUIRED (FMB -see note 6)	N/A		N/A		5 scfm @ 3 to 150 psig		5 scfm @ 3 to 150 psig				
WATER SUPPLY REQUIRED	1,060 gph		1,060 gph		1,060 gph		1,060 gph				
HEATING SURFACE	473 sq.ft.		610 sq.ft.		473 sq.ft.		610 sq.ft.				
EXHAUST STACK DIAMETER, o.d.	17.88 in.		17.88 in.		17.88 in.		17.88 in.				
APPROXIMATE OVERALL DIMENSIONS											
length	114 in.		114 in.		140 in.		140 in.				
width	93 in.		93 in.		113 in.		113 in.				
height	102 in.		121 in.		107 in.		124 in.				
WEIGHT											
installed - wet	8,427 lbs		9,641 lbs		8,627 lbs			9,841 lbs			
shipping	7,410 lbs		8,390 lbs		7,610 lbs			8,590 lbs			
FW pump skid	1,050 lbs		1,050 lbs		1,050 lbs		1,050 lbs				

- 1) Design pressures are available up to 3000 psig. Consult factory for details.
- 2) Based on No. 2 fuel oil with a High Heat Value (HHV) of 140,600 BTU/Gal.
- 3) Based on Natural Gas with a High Heat Value (HHV) of 1,000 BTU/Ft.3
- 4) Continuous running. For 575 V multiply by 0.8; for 380 V multiply by 1.1; for 230 V multiply by 2.0; for 208 V multiply by 2.2.
- 5) Atomizing air required for oil burner.
- 6) Compressed air required for FMB.
- The description and specifications shown were in effect at the time this publication was approved for printing. Clayton Industries, whose policy is one of continuous improvement, reserves the right to discontinue models, or change specifications or design, without notice.



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