

PROCESS HEATING SYSTEM



DELTAPAC SERIES

HORIZONTAL THREE PASS THERMIC FLUID HEATER

Capacity Range

4.0 TO 45.0 Lac Kcal / hr

Standard Design Temperature

up to 300°C

Technical Specifications DELTAPAC

Deltapac - 3 pass high Efficiency Thermal Oil Heater with jacket design & Monobloc Burner

OPERATING PARAMETER	UNIT	DP-0400	DP-0600	DP-1000	DP-1500	DP-2000	DP-2500	DP-4000	DP-4500	
Capacity	kcal/hr	400,000	600,000	1,000,000	1,500,000	2,000,000	2,500,000	4,000,000	4,500,000	
Max. Outlet temperature ΔT	deg C	280								
Design Flow of Thermic Fluid	m ³ /h	20	30	50	80	100	125	240	250	
Max. Head available at Heater Outlet	m/c/bar	20 / 1.45								
Thermic fluid temperature rise ΔT	deg C	40	40	40	40	40	40	33	36	
FUEL FIRING PARAMETER										
Fuel Consumption - HSD	kg/h	44.30	66.45	110.74	166.11	221.48	276.85	435.7	490.2	
- LDO	kg/h	45.60	68.40	114.00	171.00	228.00	285.00	461.4	519.0	
- FO	kg/h	48.20	72.30	120.50	180.74	240.99	301.24			
- Natural Gas	Nm ³ /h	55.36	83.04	138.41	207.61	276.82	346.02	553.6	622.8	
- LPG	Nm ³ /h	18.87	28.30	47.17	70.76	94.34	117.93	188.7	212.3	
Fuel NCV - HSD	kcal/h	10,500.00								
- LDO	kcal/h	10,200.00								
- FO	kcal/h	9,650.00								
- Natural Gas	kcal/nm ³	8,500.00								
- LPG	kcal/nm ³	24,940.00								
Thermal Efficiency - LDO/HSD	% on NCV	86 +/- 2								
- FO	% on NCV	86 +/- 2								
- Natural Gas/LPG	% on NCV	85 +/- 2								
Burner control		Single / Two Stage			33 - 100 % Stepless					
ELECTRICAL CONNECTED LOAD		Electric Supply - 415 or 380 Volt AC +/- 6%, 50 Hz +/- 3%, 3								
Burner Motor #	kW	0.75	1.50	4.0	5.5	7.5	5.5	18.5	21.7	
Fuel pump motor	kW	Part of Burner								
Oil Preheater (Inbuilt in Burner)	kW	3.0	3.0	6.0	12.0	12.0	12.0			
Thermic fluid circulation pump motor	kW	5.5	11.0	11.0	11.0	15.0	15.0	45	55	
Total (incl Control Panel) - HSD/LDO	kW	6.75	13.0	21.5	29.0	35.0	33.0	64.5	77.7	
- N.Gas/LPG	kW	6.8	13.0	15.5	29.0	35.0	33.0	64.5	77.7	
- FO	kW	9.75	16	21.5	29.0	35.0	33.0	64.0	77.2	
DIMENSIONS										
Length/ Height ##	metres	2.66	2.96	3.16	3.86	4.31	4.71	7.5	8.5	
Diameter	metres	1.59	1.62	1.90	2.17	2.40	2.64			
Type of Heater Installation @		Vertical or Horizontal								
Main unit weight (Dry) (W/O Burner)	kg	2200	3000	4200	5800	7700	10500	16000	19000	
DE tank weight (Dry)	kg	300	300	450	570	770	910			
Volumetric capacity of D/E tank	litres	500	500	1000	1500	2000	3000			
Volumetric capacity of coil	litres	318	360	675	1250	1600	2040	4000	5900	
Design Code		DIN 4754 / BS 1113								
Material - Tube		BS 3059, PART I, ST 320, ERW								
- Jacket		CARBON STEEL								
- DE Tank		CARBON STEEL								
TERMINAL POINTS INLET / OUTLET										
Thermic Fluid Heater Inlet/Outlet header	mm NB	80	80	100	150	150	200			
DE Tank Inlet / Outlet	mm NB	80/80	80/80	100/100	150/150	150/150	150/150			
Over flow DE tank Outlet	mm NB	50	50	50	50	50	50			
Buffer tank drain Outlet	mm NB	20	20	20	20	25	25			
Relief Valve Inlet / Outlet	mm NB	25/50	25/50	25/50	25/50	25/50	25/50			
Fuel filter Inlet	mm NB	25	25	50	50	50	50			
Fuel Bypass / Recirculation Outlet	mm NB	15	15	15	15	15	15			
CO2 smothering Inlet	mm NB	15	15	15	15	15	15			
Flue gas Outlet	mm NB	Ø200	Ø250	500 x 250	600 x 350	700 x 350	800 x 400			
Gas train Inlet	mm NB	Rp 1" (F)	Rp 1" (F)	RP 1 1/2" (F)	DIN 50 ND-16	DIN 50 ND-16	DIN 50 ND-16			



BALKRISHNA BOILERS PVT. LTD.

Plot No. 78/8, Phase-I, GIDC, Vatva. Opp. Abad Bread,
Ahmedabad-382445. Gujrat (India).

Phone : (O) 079 - 25894701 ● Fax : (079) 25894702

- E-mail : info@balkrishna.com , office@balkrishna.com
- URI : www.balkrishna.com , www.indianboilers.com

Our Dealer Network :-

Baroda, Pali, Balotra, Jaipur, Jodhpur, Gudgaon, Aurangabad,
Calcutta, Trichy, Ankleshwer, Rajkot, Hyderabad, Solapur,

OUR PRODUCT :

- Wood, Coal, Gas, Oil & Multi fuel Fired
- Steam Boiler
- Thermic fluid Heater
- Hot Air Generator
- Hot Water Boiler
- Air Pollution Control
- Water Treatment
- Power Generation
- Boiler Accessories
- Steam Accessories

Note : In view our constant endeavors to improve of our products, we reserve the right to alter or change specification without prior notice