

Process Heating Systems



DELTAPAC

HORIZONTAL THREE PASS OIL/GAS FIRED THERMIC FLUID HEATER

CAPACITY RANGE
4.0 - 45.0 LAC KCAL

STANDARD DESIGN TEMPERATURE
UPTO 300° C

Technical Specifications

DESCRIPTION	UNITS	DP-0400	DP-0600	DP-1000	DP-1500	DP-2000	DP-2500	DP-4000	DP-4500
Capacity	kcal/hr	400000	6,00,000	1,000,000	1,500,000	2,000,000	2,500,000	4,000,000	4,500,000
Max.outlet temperature SS	deg C	280							
Des Flow Of Thermic Fluid	m3/h	20	30	50	80	100	125	240	250
Max. Head Available At Heater Outlet	mlc/bar	20/1.45							
Thermic Fluid Temperature Rise S	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	180.75	240.99	301.24		
-Natural Gas	Nm3/h	55.36	83.04	138.41	207.61	276.82	346.02	553.6	622.8
-LPG	Nm3/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/nm3	8,500.00							
-LPG	kcal/nm3	24,940.00							
Thermal Efficiency-Iso/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%Hz +/-3%, 3 Phase							
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/Iod	kW	6.75	13.0	21.5	29.0	35.0	33.0	64.5	77.7
-NG / 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 Capacit Of D/e Tank	liters	500	500	1000	1500	2000	3000		
Volumetric Of Coll	liters	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 PONTS INLET/OUTLET							
Thermic Fluid Heater Inlet/outlet Header	mm NB	80	80	100	150	150	200	DATA WILL BE PROVIDED ON REQUIREMENT	
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		
Duffer 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		
CO ² Smothering Inlet	mm NB	15	15	15	15	15	15		
Flue Gas Outlet	mm NB	200	250	500 x 250	600 x 330	700 x 350	800 x 400		
Gas Train Inlet	mm NB	Ro 1" (F)	Ro 1" (F)	RP 1 1/2" (F)	DIN 50 ND-16	DIN 50 ND-16	DIN 50 ND-16		

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



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