

TECHNICAL DATA SHEET

Range : Delta - Heat Exchange Modules

Type : Indirect fired front plate heat exchange modules for use within Air Handling Units

General Data		Frame 1		
		(Duty/output 100kW - 175kW)		
		125	150	175
Heat input	kW	149	179	208
Heat output	kW	125	150	175
Heat output	k/Cal	107,500	129,000	150,500
Heat output	Btu	426,500	511,800	597,100
Nominal efficiency @ full load	%	>84	>84	>84
Fuel consumption natural gas (I _{2H}) @ full load	m ³ /h	14.87	17.85	20.82
Fuel consumption (35 second Oil) @ full load	l/h	13.94	16.73	19.52
Temperature rise (max)	°C	50.00	50	50
Temperature rise (min)	°C	20.00	20	20
Air volume (max - without bypass)	m ³ /s	5.08	6.20	7.11
Air volume (min)	m ³ /s	2.03	2.44	2.85
Pressure drop @ 20°C (maximum air volume)	Pa	Subject to application		
Pressure drop @ 50°C (minimum air volume)	Pa	Subject to application		
Electrical supply	V-ph-Hz	230-1-50	230-1-50	230-1-50
Maximum running current	A	0.95	0.95	0.95
Start current	A	2.85	2.85	2.85
Flue diameter	mm	175	175	175
Height (min)	mm	Refer to GA Drawing		
Width (min)	mm	Refer to GA Drawing		
Depth (min)	mm	Refer to GA Drawing		
Weight	kg	315	330	360

General Data		Frame 2				
		(Duty/output 176kW - 300kW)				
		200	225	250	275	300
Heat input	kW	238	268	298	327	357
Heat output	kW	200	225	250	275	300
Heat output	k/Cal	172,000	193,500	215,000	236,500	258,000
Heat output	Btu	682,400	767,700	853,000	938,300	1,023,600
Nominal efficiency @ full load	%	>84	>84	>84	>84	>84
Fuel consumption natural gas (I _{2H}) @ full load	m ³ /h	23.80	26.77	29.73	32.72	35.70
Fuel consumption (35 second Oil) @ full load	l/h	22.31	25.10	27.89	30.68	33.47
Temperature rise (max)	°C	50	50	50	50	50
Temperature rise (min)	°C	20	20	20	20	20
Air volume (max - without bypass)	m ³ /s	8.13	9.15	10.16	11.18	12.20
Air volume (min)	m ³ /s	3.25	3.66	4.07	4.47	4.88
Pressure drop @ 20°C (maximum air volume)	Pa	Subject to application				
Pressure drop @ 50°C (minimum air volume)	Pa	Subject to application				
Electrical supply	V-ph-Hz	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50
Maximum running current	A	2.10	2.10	2.10	2.10	2.00
Start current	A	4.80	4.80	4.80	4.80	9.50
Flue diameter	mm	225	225	225	225	225
Height (min)	mm	Refer to GA Drawing				
Width (min)	mm	Refer to GA Drawing				
Depth (min)	mm	Refer to GA Drawing				
Weight	kg	410	425	450	500	565

General Data		Frame 3			
		(Duty/output 301kW - 500kW)			

		350	400	450	500
Heat input	kW	417	476	536	595
Heat output	kW	350	400	450	500
Heat output	k/Cal	301,000	344,000	387,000	430,000
Heat output	Btu	1,194,200	1,364,800	1,535,400	1,706,000
Nominal efficiency @ full load	%	>84	>84	>84	>84
Fuel consumption natural gas (I _{2H}) @ full load	m ³ /h	41.64	47.61	53.56	59.48
Fuel consumption (35 second Oil) @ full load	l/h	39.04	44.62	50.20	55.78
Temperature rise (max)	°C	50	50	50	50
Temperature rise (min)	°C	20	20	20	20
Air volume (max - without bypass)	m ³ /s	13.55	16.26	18.29	20.33
Air volume (min)	m ³ /s	5.68	6.50	7.32	8.13
Pressure drop @ 20°C (maximum air volume)	Pa	Subject to application			
Pressure drop @ 50°C (minimum air volume)	Pa	Subject to application			
Electrical supply	V-ph-Hz	230-1-50	415-3-50	415-3-50	415-3-50
Maximum running current	A	2.00	3.00	3.00	3.00
Start current	A	9.50	13.80	13.80	13.80
Flue diameter	mm	300	300	300	300
Height (min)	mm	Refer to GA Drawing			
Width (min)	mm	Refer to GA Drawing			
Depth (min)	mm	Refer to GA Drawing			
Weight	kg	705	950	950	990

Frame 4

General Data		(Duty/output 501kW - 750kW)				
		550	600	650	700	750
Heat input	kW	655	714	773	833	893
Heat output	kW	550	600	650	700	750
Heat output	k/Cal	473,000	516,000	559,000	602,000	645,000
Heat output	Btu	1,876,600	2,047,200	2,217,800	2,388,400	2,559,000
Nominal efficiency @ full load	%	>84	>84	>84	>84	>84
Fuel consumption natural gas (I _{2H}) @ full load	m ³ /h	65.46	71.38	77.36	83.28	89.27
Fuel consumption (35 second Oil) @ full load	l/h	61.36	66.93	72.51	78.09	83.67
Temperature rise (max)	°C	50	50	50	50	50
Temperature rise (min)	°C	20	20	20	20	20
Air volume (max - without bypass)	m ³ /s	22.36	24.39	26.42	28.46	30.49
Air volume (min)	m ³ /s	8.94	9.76	10.57	11.38	12.16
Pressure drop @ 20°C (maximum air volume)	Pa	Subject to application				
Pressure drop @ 50°C (minimum air volume)	Pa	Subject to application				
Electrical supply	V-ph-Hz	415-3-50	415-3-50	415-3-50	415-3-50	415-3-50
Maximum running current	A	4.80	4.80	4.80	4.80	5.90
Start current	A	25.00	25.00	25.00	25.00	27.70
Flue diameter	mm	355	355	355	355	410
Height (min)	mm	Refer to GA Drawing				
Width (min)	mm	Refer to GA Drawing				
Depth (min)	mm	Refer to GA Drawing				
Weight	kg	1110	1250	1332	1450	1555

Frame 5

General Data		(Duty/output 751kW - 1000kW)				
		800	850	900	950	1000
Heat input	kW	952	1012	1071	1131	1190
Heat output	kW	800	850	900	950	1000
Heat output	k/Cal	688,000	731,000	774,000	817,000	860,000

Heat output	Btu	2,729,600	2,900,200	3,070,800	3,241,400	3,412,000
Nominal efficiency @ full load	%	>84	>84	>84	>84	>84
Fuel consumption natural gas (I _{2H}) @ full load	m ³ /h	95.17	101.17	107.12	113.07	118.96
Fuel consumption (35 second Oil) @ full load	l/h	89.24	94.82	100.40	105.98	111.56
Temperature rise (max)	°C	50	50	50	50	50
Temperature rise (min)	°C	20	20	20	20	20
Air volume (max - without bypass)	m ³ /s	32.52	34.55	36.59	38.62	40.65
Air volume (min)	m ³ /s	13.01	13.82	14.63	15.45	16.26
Pressure drop @ 20°C (maximum air volume)	Pa	Subject to application				
Pressure drop @ 50°C (minimum air volume)	Pa	Subject to application				
Electrical supply	V-ph-Hz	415-3-50	415-3-50	415-3-50	415-3-50	415-3-50
Maximum running current	A	5.90	5.90	5.90	5.90	8.80
Start current	A	27.70	27.70	27.70	27.70	57.20
Flue diameter	mm	410	410	410	410	410
Height (min)	mm	Refer to GA Drawing				
Width (min)	mm	Refer to GA Drawing				
Depth (min)	mm	Refer to GA Drawing				
Weight	kg	1800	1905	2100	2200	2250

Options and upgrades

Fully Cased (insulated stand alone modules)
 Internal/external finishes/weatherproofing
 LPG Burners
 Bio Diesel Burners
 On/off controls
 High/low controls
 Modulating controls
 Condensate drain lines
 High temperature (process application) upgrade
 Hours run facility
 Additional air proving device
 Controls upgrade
 Combustion chamber material
 Heat exchanger material