

*** Vogt Power International ***
 Louisville, KY
 SELECTION/PERFORMANCE TRS 1.9.8

*** Mechanical Data ***

Customer: Albanesi / 7525G
 Engineer: rtrivedi / GT: SGT800/ Date of Calcs: 12/15/17
 Number of Operating Cases: 40

Section	No. Rows	Tube O.D. (mm)	Tube Wall (mm)	Fin Configuration (m.x.ht.x.th)	Cons. TransxLong (mmxmm)	Pitch Tube Length (m)	Passes /mod	Tube Hdr /row Length (mm)
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***** GRID inlet Tmax= 580C/Tmin= 562C *****

A. GRID

***** Burner inlet Tmax= 580C, outlet Tmax= 740C/Tmin= 562C *****

B. BRNR1

***** Box 1 (4 Modules) inlet Tmax=740.0C/Tmin=562.0C *****

1. HPSH1	2	38.10	3.251	B 0.0x 0.000x0.000	71.12x 73.03	16.2	1	45 3327
C. HPDS1								
2. HPSH2	2	44.45	5.664	R 271.7x12.700x1.000	83.82x114.30	16.2	2	37 3251
3. HPSH3	1	44.45	5.461	R 287.4x12.700x1.000	83.82x --	16.2	1	38 3327
4. HPEV1	4	38.10	2.667	R 287.4x12.700x1.000	83.82x --	16.2	1	38 3327

***** ACCESS LANE *****

5. HPEV2	4	38.10	2.667	R 287.4x12.700x1.000	83.82x --	16.2	1	38 3327
6. HPEV3	4	38.10	2.667	R 287.4x12.700x1.000	83.82x --	16.2	1	38 3327
7. HPEV4	4	38.10	2.667	R 287.4x12.700x1.000	83.82x --	16.2	1	38 3327

***** Box 2 (5 Modules) inlet Tmax=303.0C/Tmin=288.0C *****

8. HPEC1	3	38.10	2.667	R 287.4x12.700x1.000	81.28x 73.03	16.2	4	39 3302
9. HPEC2	3	38.10	2.667	R 287.4x12.700x1.000	81.28x 73.03	16.2	5	39 3302
10. HPEC3	3	38.10	2.667	R 287.4x12.700x1.000	81.28x 73.03	16.2	5	39 3302
11. HPEC4	3	38.10	2.667	R 287.4x12.700x1.000	81.28x 73.03	16.2	5	39 3302
12. HPEC5	3	38.10	2.667	R 287.4x12.700x1.000	81.28x 73.03	16.2	5	39 3302

***** ACCESS LANE *****

13. HPEC6	3	38.10	2.667	R 287.4x12.700x1.000	81.28x 73.03	16.2	5	39 3302
14. HPEC7	3	38.10	2.667	R 287.4x12.700x1.000	81.28x 73.03	16.2	5	39 3302
15. LPEV1	3	38.10	2.667	R 216.5x12.700x1.000	81.28x101.60	16.2	1	39 3302
16. LPEV2	4	38.10	2.667	R 287.4x12.700x1.000	81.28x --	16.2	1	39 3302

***** Stack ID: 3.0m, Height 40.0m, Inlet Tmax=224.0C/Tmin=122.0C *****

Total number of tube rows: 49

Total number of widths: 1

Total number of tubes: 1902

Total heating surface area (m2): 36545

Note: reported above are tube construction pitches.

-- Non-standard tube/header configuration used. Consult APE for tube pitches.

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*** Surface Area Summary ***

UEID	No. Rows	Tube O.D. (mm)	Tube Wall (mm)	Fin Configuration (m.x.ht.x.th)	Fin Seg Width /Fin Root Hgt (mmxmm)	Cons.Pitch TransxLong (mmxmm)	Tube Length (m)	Surface Area (m2)
38. HPSH1	2	38.10	3.251	B 0.0x 0.00x0.000	0.0x0.00	71.12x 73.03	16.15	172
41. HPSH2	2	44.45	5.664	R 271.7x12.70x1.000	4.0x6.35	83.82x 114.30	16.15	1629
42. HPSH3	1	44.45	5.461	R 287.4x12.70x1.000	4.0x6.35	83.82x --	16.15	880
								2681
43. HPEV1	4	38.10	2.667	R 287.4x12.70x1.000	4.0x6.35	83.82x --	16.15	3075
44. HPEV2	4	38.10	2.667	R 287.4x12.70x1.000	4.0x6.35	83.82x --	16.15	3075
45. HPEV3	4	38.10	2.667	R 287.4x12.70x1.000	4.0x6.35	83.82x --	16.15	3075
46. HPEV4	4	38.10	2.667	R 287.4x12.70x1.000	4.0x6.35	83.82x --	16.15	3075
								12300

51. HPEC1	3	38.10	2.667	R	287.4x12.70x1.000	4.0x6.35	81.28x	73.03	16.15	2367
52. HPEC2	3	38.10	2.667	R	287.4x12.70x1.000	4.0x6.35	81.28x	73.03	16.15	2367
53. HPEC3	3	38.10	2.667	R	287.4x12.70x1.000	4.0x6.35	81.28x	73.03	16.15	2367
54. HPEC4	3	38.10	2.667	R	287.4x12.70x1.000	4.0x6.35	81.28x	73.03	16.15	2367
55. HPEC5	3	38.10	2.667	R	287.4x12.70x1.000	4.0x6.35	81.28x	73.03	16.15	2367
56. HPEC6	3	38.10	2.667	R	287.4x12.70x1.000	4.0x6.35	81.28x	73.03	16.15	2367
57. HPEC7	3	38.10	2.667	R	287.4x12.70x1.000	4.0x6.35	81.28x	73.03	16.15	2367

16569

58. LPEV1	3	38.10	2.667	R	216.5x12.70x1.000	4.0x6.35	81.28x	101.60	16.15	1839
59. LPEV2	4	38.10	2.667	R	287.4x12.70x1.000	4.0x6.35	81.28x	--	16.15	3156

4995

Total number of widths: 1

Total number of tubes: 1902

Total heating surface area (m2): 36545

Note: reported above are tube construction pitches.

-- Non-standard tube/header configuration used. Consult APE for tube pitches.