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

## \*\*\* Mechanical Data \*\*\*

Customer: Albanesi / 75256 Engineer: rtrivedi / GT: SGT800/ Date of Calcs: 12/15/17

Number of Operating Cases: 40

Section No. Tube Tube Fin Cons. Pitch Tube Passes Tubes Hdr Rows 0.D. Wall Configuration TransxLong Length /mod /row Length (mm) (mm) ( m.x.ht.x.th) (mmxmm) (m)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* GRID inlet Tmax= 580C/Tmin= 562C \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

A. GRID

в.	BRNR1												
	******		Box 1	(4	Modules) inlet Tm		Tmax=	max=740.0C/Tmin=562.0C			******		
1.	HPSH1 :	2 38.10	3.251	В	0.0× 0.	000×0.	999	71.12x	73.03	16.2	1	45	3327
С.	HPDS1												
2.	HPSH2	2 44.45	5.664	R	271.7x12.	700×1.	999	83.82×13	14.30	16.2	2	37	3251
з.	HPSH3 :	1 44.45	5.461	R	287.4×12.	700×1.	999	83.82x		16.2	1	38	3327
1	LIDEU1 .	4 20 10	2 667	D	207 4412	700-1	aaa	02 024		16 2	4	20	2227

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

5. HPEV2 4 38.10 2.667 R 287.4×12.700×1.000 83.82× --3327 16.2 1 38 6. HPEV3 2.667 R 287.4x12.700x1.000 83.82x --4 38.10 16.2 38 3327

7. HPEV4 4 38.10 2.667 R 287.4x12.700x1.000 83.82x --16.2 3327 \*\*\*\*\*\*\*\*\*\*\*\* Box 2 (5 Modules) inlet Tmax=303.0C/Tmin=288.0C \*\*\*\*\*\*\* 8. HPEC1 3 38.10 3302 2.667 R 287.4x12.700x1.000 81.28x 73.03 16.2

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

\* ACCESS LANE \* 13. HPEC6 3 38.10 2.667 R 287.4x12.700x1.000 81.28x 73.03 16.2 39 3302 2.667 14. HPEC7 3 38.10 R 287.4x12.700x1.000 81.28x 73.03 3302 16.2 15. LPEV1 3 38.10 2.667 R 216.5x12.700x1.000 81.28x101.60 16.2 39 3302 16. LPEV2 4 38.10 2.667 R 287.4x12.700x1.000 81.28x --16.2 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 Hg <sup>.</sup> (mm×mm)		Long	Tube _ength (m)	Surface Area (m2)
41.	HPSH1 HPSH2 HPSH3	_	38.10 44.45 44.45	3.251 5.664 5.461	B 0.0x 0.00x0.0 R 271.7x12.70x1.0 R 287.4x12.70x1.0	000 4.0×6.35	71.12x 83.82x 83.82x	73.03 114.30 		172 1629 880
										2681
44. 45.	HPEV1 HPEV2 HPEV3 HPEV4	_	38.10 38.10 38.10 38.10	2.667 2.667 2.667 2.667	R 287.4x12.70x1.0 R 287.4x12.70x1.0 R 287.4x12.70x1.0 R 287.4x12.70x1.0	000 4.0×6.35 000 4.0×6.35	83.82x 83.82x 83.82x 83.82x	  	16.15 16.15 16.15 16.15	3075 3075 3075 3075
										12300

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Draft Script (Page 1 of 2)



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51. HPEC1
              38.10
                     2.667
                            R 287.4×12.70×1.000
                                               4.0×6.35
                                                          81.28×
                                                                  73.03 16.15
                                                                                 2367
52. HPEC2
                           R 287.4×12.70×1.000
           3
              38.10
                     2.667
                                                4.0x6.35
                                                          81.28x
                                                                  73.03
                                                                        16.15
                                                                                 2367
53. HPEC3
                           R 287.4×12.70×1.000
           3
              38.10
                     2,667
                                                4.0×6.35
                                                          81.28x
                                                                  73.03
                                                                        16.15
                                                                                 2367
54. HPEC4
              38.10
                     2.667
                            R 287.4×12.70×1.000
                                                4.0×6.35
                                                          81.28x
                                                                  73.03
                                                                         16.15
                                                                                 2367
55. HPEC5
                     2.667
                           R 287.4×12.70×1.000
                                                4.0x6.35
                                                          81.28x
                                                                  73.03
                                                                        16.15
                                                                                 2367
              38.10
56. HPEC6
              38.10
                                                                        16.15
           3
                                                                  73.03
                     2.667
                           R 287.4×12.70×1.000
                                                4.0x6.35
                                                                                 2367
                                                          81.28x
57. HPEC7
              38.10
                     2.667
                           R 287.4×12.70×1.000
                                                4.0×6.35
                                                          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:

Total number of tubes:

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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