

SPX Flow Tech SHA - Xidu

PHE Plate Arrangement

Thermaliser

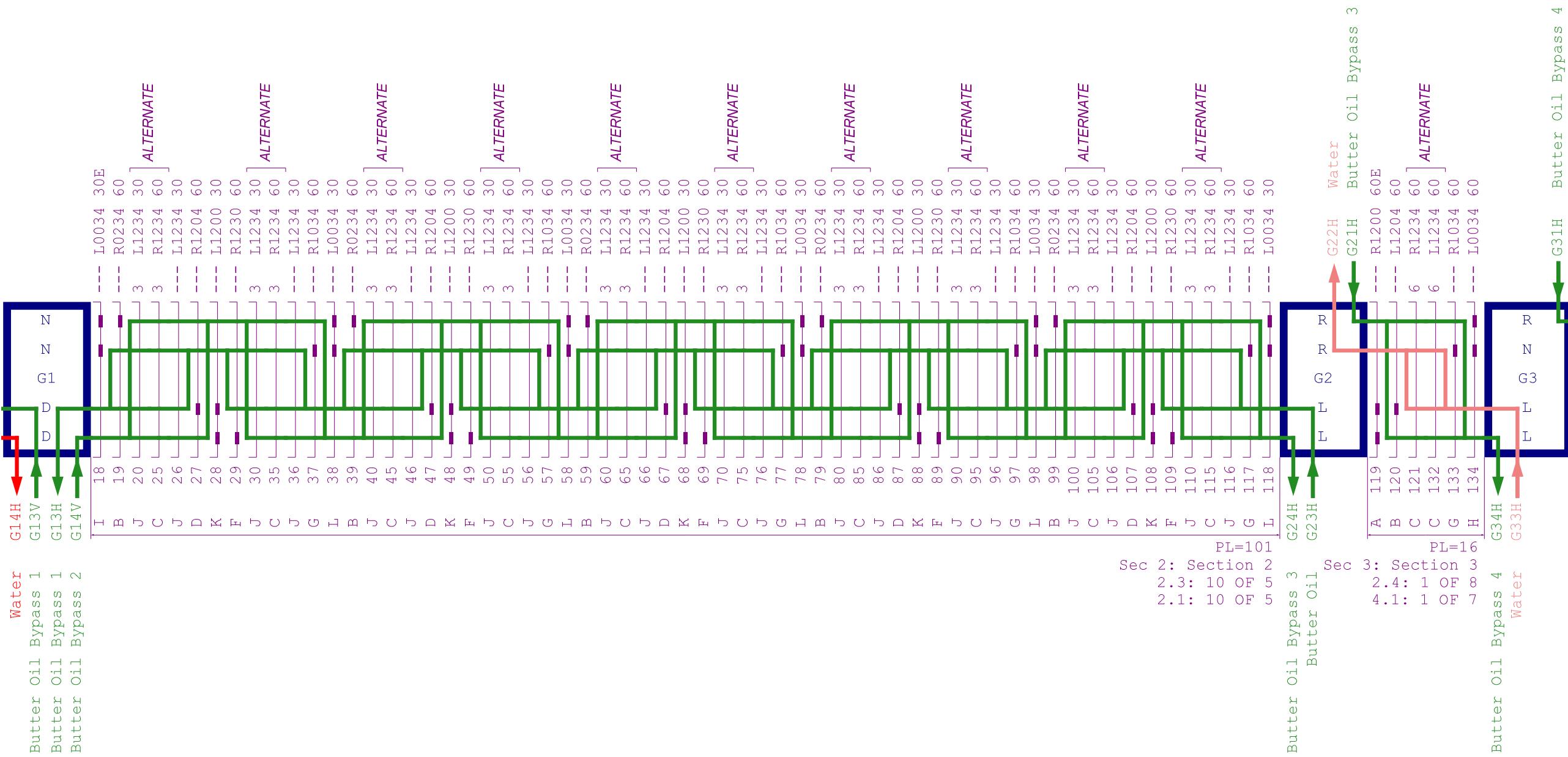
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ASK005P3WV01-004-S01

PHE Type H17 RKS-10X/5
Serial No.
Assembly Drawing:
Archive method:

Drawn by
Approved by
Rev. No.

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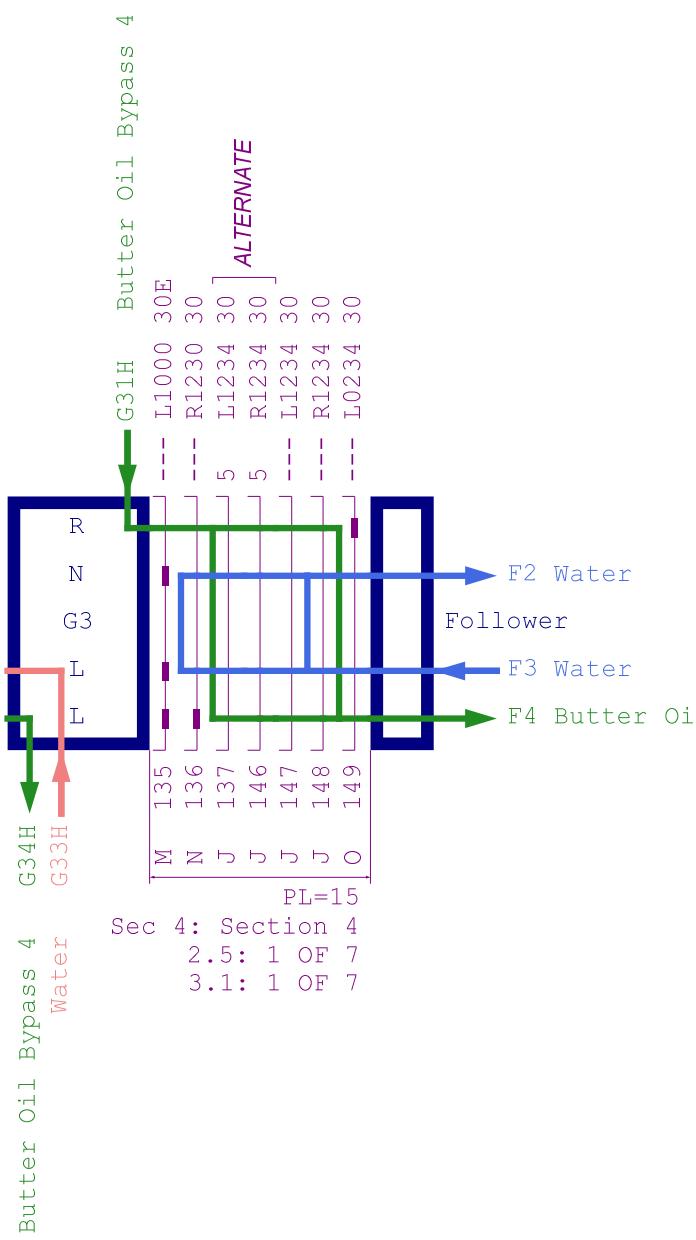
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PHE Duties:				
Duty	Liquid	Flowrate	Pressure Loss	Heatrate Temperature Range
		kg/h	kPa	kW °C
requested (4/10/25)				
Water	2500	4.56	7.27	75-72.5
Butter O...	2500	368		67-72
				45-67
				72-50
				50-49
				49-45
Water	1190	0.765	5.81	40-44.2
Water	1188	0.232	1.45	44-45.1
Simulation for Original requested (4/10/25)				
Water	2300	3.91	7.15	75-72.3
Butter O...	2500	368		67.1-72
				45-67.1
				72-49.9
				49.9-49
				49-45
Water	1190	0.765	5.86	40-44.2
Water	200	0.0192	1.3	44-49.6
Fluid Volumes in PHE				
1: 4.66	1	Water		
2: 68.2	1	Butter Oil		
3: 4.37	1	Water		
4: 3.85	1	Water		
Component Summary				
Sec ID	Qty	Material No	Plate Description	
1 H17				
1	1	G0929KEXPX5XA	P&G ASY H17 (60) END R1200 316L SS 0...	
1	1	G0929FHXPX5XA	P&G ASY H17 (60) FLOW R0234 316L SS 0...	
1	6	G0929F4XPX5XA	P&G ASY H17 (60) FLOW R1234 316L SS 0...	
1	4	G0929F4XPX5XA	P&G ASY H17 (60) FLOW R1234 316L SS 0...	
1	1	G0929FAXPX5XA	P&G ASY H17 (60) FLOW R1204 316L SS 0...	
1	1	G0929FJXPX5XA	P&G ASY H17 (60) FLOW R0034 316L SS 0...	
1	1	G0929FDXPX5XA	P&G ASY H17 (60) FLOW R1230 316L SS 0...	
1	1	G0929FBXPX5XA	P&G ASY H17 (60) FLOW R1034 316L SS 0...	
1	1	G0929FEXPX5XA	P&G ASY H17 (60) FLOW R1200 316L SS 0...	
2 H17				
2	1	G0921KEXPX5XA	P&G ASY H17 (30) END R1200 316L SS 0...	
2	5	G0929FHXPX5XA	P&G ASY H17 (60) FLOW R0234 316L SS 0...	
2	40	G0921F4XPX5XA	P&G ASY H17 (30) FLOW R1234 316L SS 0...	
2	30	G0929F4XPX5XA	P&G ASY H17 (60) FLOW R1234 316L SS 0...	
2	5	G0929FAXPX5XA	P&G ASY H17 (60) FLOW R1204 316L SS 0...	
2	5	G0921FJXPX5XA	P&G ASY H17 (30) FLOW R0034 316L SS 0...	
2	5	G0929FDXPX5XA	P&G ASY H17 (60) FLOW R1230 316L SS 0...	
2	5	G0929FBXPX5XA	P&G ASY H17 (60) FLOW R1034 316L SS 0...	
2	4	G0921FEXPX5XA	P&G ASY H17 (30) FLOW R1200 316L SS 0...	
2	1	G0921FEXPX5XA	P&G ASY H17 (30) FLOW R1200 316L SS 0...	
3 H17				
3	1	G0929KEXPX5XA	P&G ASY H17 (60) END R1200 316L SS 0...	
3	1	G0929FHXPX5XA	P&G ASY H17 (60) FLOW R0234 316L SS 0...	
3	6	G0929F4XPX5XA	P&G ASY H17 (60) FLOW R1234 316L SS 0...	
3	6	G0929F4XPX5XA	P&G ASY H17 (60) FLOW R1234 316L SS 0...	
3	1	G0929FBXPX5XA	P&G ASY H17 (60) FLOW R1034 316L SS 0...	
3	1	G0929FEXPX5XA	P&G ASY H17 (60) FLOW R1200 316L SS 0...	
4 H17				
4	1	G0921KNXPX5XA	P&G ASY H17 (30) END R0030 316L SS 0...	
4	1	G0921FDXPX5XA	P&G ASY H17 (30) FLOW R1230 316L SS 0...	
4	6	G0921F4XPX5XA	P&G ASY H17 (30) FLOW R1234 316L SS 0...	
4	6	G0921F4XPX5XA	P&G ASY H17 (30) FLOW R1234 316L SS 0...	
4	1	G0921FAXPX5XA	P&G ASY H17 (30) FLOW R1204 316L SS 0...	
Sec Qty	Material No	Gasket Description		
Sec Qty	Material No	Pos	Fitting	Description

1	1	CN66G083	G13V	51mm Clamp (Complete in) SS 316 I...
1	1	CN66G083	G14H	51mm Clamp (Complete in) SS 316 I...
1	1	BX80001340	H4	51mm Clamp (Complete in) SS 316 I...
1	1	BX80001340	H3	51mm Clamp (Complete in) SS 316 I...
2	1	CN66G083	G13H	51mm Clamp (Complete in) SS 316 I...
2	1	CN66G083	G14V	51mm Clamp (Complete in) SS 316 I...
2	1	CN66G083	G23H	51mm Clamp (Complete in) SS 316 I...
2	1	CN66G083	G24H	51mm Clamp (Complete in) SS 316 I...
3	1	CN66G083	G21H	51mm Clamp (Complete in) SS 316 I...
3	1	CN66G083	G22H	51mm Clamp (Complete in) SS 316 I...
3	1	CN66G083	G33H	51mm Clamp (Complete in) SS 316 I...
3	1	CN66G083	G34H	51mm Clamp (Complete in) SS 316 I...
4	1	CN66G083	G31H	51mm Clamp (Complete in) SS 316 I...
4	1	BX80001340	F4	51mm Clamp (Complete in) SS 316 I...
4	1	BX80001340	F3	51mm Clamp (Complete in) SS 316 I...
4	1	BX80001340	F2	51mm Clamp (Complete in) SS 316 I...

Sec	Qty	Material No	Description
1	1	CX501133	H17 RKS-10X/5
1	1		
1	1		

General details	
Plate pack dimension	
Sec 1	Max 760 mm, Min 746 mm
Sec 2	Min 97 mm
Sec 3	Min 423 mm
Approximate net weight	Min 134 mm
Total media volume App.	530 kg
81.1 l	

Design Conditions			
Pressure, kPa			
Design			
Vacuum			
Test opt...			
Sec 1, Water (4-4)	1000	0	1300
Sec 1, Butter Oil (3-3)	1000	0	1300
Sec 2, Butter Oil (4-4)	1000	0	1300
Sec 2, Butter Oil (3-3)	1000	0	1300
Sec 3, Butter Oil (1-4)	1000	0	1300
Sec 3, Water (3-2)	1000	0	1300
Sec 4, Butter Oil (1-4)	1000	0	1300
Sec 4, Water (3-2)	1000	0	1300
Max Working pressure	1000	kPa	
Max Differential test pressure	1300	kPa	
Max Balanced test pressure	1300	kPa	
Working temperature	Max 95 °C, Min 0 °C		
Design Code	Chinese Standard (NB/T 47004)		

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