



- NOTES:**
- 1 Pump assembly supplied by MAYEKAWA includes the regulator
  - 2 Recycle is required to control compressor capacity at minimum load
  - 3 For operation P and T, refer to Table

DP CLEAN: 0.2-0.3 BAR  
 DP DIRTY: 1 BAR

please make sure compressor skid PFD to be matched with STD skid regarding scope of supply. For example do we have dual filter, or change over valve or TCV in STD skid which are shown in PFD

Inlet nozzle size is 6". is it acceptable to use reducer to change to 6"?

outlet size is 4". is it acceptable to use reducer to change to 6"?

Please use Kettle reboiler without drum

outlet size is 4" and quantity of nozzles is 2. is it acceptable to use reducer to change to 1.5"?

this is inlet process line

this is outlet process line

Please recheck necessity of recycle valve as we have 30~100% capacity control. Please advise if by pass valve is needed or not. and advise if this valve could be manual (this is preferable).

Please recheck necessity of receiver. receiver is not available in client PID. IF MME advise to use, please specify the size

there is one 6" nozzle at inlet as per HTRI design. if you advise to use 2 inlet nozzles 3", please let us know.

Comp. Oil Flow: 53.2 Lpm  
 14.1 GPM

STREAM	50	51	52	53	54
Vapour	0.00	0.00	0.00	0.00	0.00
Temper	68.60	68.58	68.40	50.00	50.00
Pressure	20.29	25.59	25.59	24.59	23.89
Mass Flow	53.20	53.20	53.20	53.20	53.20
Volume	615.65	615.62	615.29	590.85	590.85
Heat Flow	0	0	0	0	0
Compo	OIL	OIL	OIL	OIL	OIL
MW	500	500	500	500	500
Cp	-	-	-	-	-
Z Factor	-	-	-	-	-
Density	1005.00	1005.00	1005.00	1020.00	1020.00
Viscosity	12.00	12.00	12.00	18.36	18.36

STREAM	Unit	1	2	3	4	5	6	7	8	30	31
Vapour Fraction		1.00	1.00	1.0000	1.0000	0.0000	0.0000	0.4308	1.0000	0.0000	0.0000
Temperature	C	-0.16	68.60	68.58	68.58	56.48	56.48	0.88	-0.01	15.20	5.00
Pressure	bara	4.65	20.29	20.28	20.28	19.76	19.76	4.86	4.72	5.00	4.80
Mass Flow	kg/h	2,808.00	6,010.20	2,808.00	2,808.00	2,808.00	2,808.00	2,808.00	2,808.00	40,600.00	40,600.00
Heat Flow	kW	-1,894.90	-1,832.00	-1,832.00	-1,832.00	-2,061.10	-2,061.10	-2,061.10	-1,894.00	-	-
Component(s)		PROPANE	PROPANE & OIL	PROPANE	PROPANE	PROPANE	PROPANE	PROPANE	PROPANE	STYRENE IN	STYRENE OUT
MW	kg/kgmol	44.096	-	44.096	44.096	44.096	44.096	44.096	44.096	-	-
Cp/Cv		1.2189	-	1.3823	1.3823	-	-	-	-	-	-
Z Factor		0.8951	-	0.7256	0.7256	-	-	-	-	-	-
Density	kg/m3	10.11	-	43.38	43.38	436.70	436.70	-	10.27	909.60	918.00
Viscosity	cp	0.0078	-	0.0106	0.0106	0.0690	0.0590	-	0.0078	0.820	0.960

Client: ENER TEKNOLOJI  
 P. O. No.: PO-ENER-MME-2024-100-002  
 Project: DELTA  
 Service: REFRIGERATION PACKAGE  
 Location: IRAQ  
 Job No.: MPG009  
 Unit Item Number: 0  
 Compressor Model: 250LUD-L  
 Refrigerant: PROPYLENE

REVISION	DATE	DESCRIPTION
0	3/7/2024	Issued for Approval

BY: Vendor 2  
 APP: Vendor 1  
 DATE: 3/7/2024  
 DWG: MPG009-20085  
 REV: 0