

Variasi XV		03 Agustus 2008 16:00																			
LS	t (menit)	High Stage (R-22)								Low Stage (R-404A)											
		Temperatur (°C)				Pressure (Bar)				Arus Ampere HS	Voltage	Temperatur (°C)				Pressure (Bar)				Arus Ampere LS	Voltage
		XV out HS	XV in HS	Comp out	Comp in HS	HP XV HS	LP Comp H	HP Comp H	LP XV HS			XV out LS	XV in LS	Comp out	Comp in LS	HP XV LS	LP Comp L	HP Comp L	LP XV LS		
0	5	-6.3	33.1	87.9	31.8	14	0.7	15.2	1.3	2.8	210	-29	28	76.6	37.7	13.4	0.2	13.6	0.5	2.4	210
	10	-6.3	33.1	87.9	31.8	14	0.7	15.2	1.3	2.8	210	-29	28	76.6	37.7	13.4	0.2	13.6	0.5	2.4	210
	15	-6.3	33.1	87.9	31.8	14	0.7	15.2	1.3	2.8	210	-29	28	76.6	37.7	13.4	0.2	13.6	0.5	2.4	210
	20	-6.3	33.1	87.9	31.8	14	0.7	15.2	1.3	2.8	210	-29	28	76.6	37.7	13.4	0.2	13.6	0.5	2.4	210
	25	-6.3	33.1	87.9	31.8	14	0.7	15.2	1.3	2.8	210	-29	28	76.6	37.7	13.4	0.2	13.6	0.5	2.4	210
1	30	-5.7	33.5	90.1	32.7	14.2	0.75	15.4	1.4	2.8	210	-22	29.7	83	37.9	14.1	0.6	14.2	1.25	2.8	210
	35	-5.3	33.5	90.5	32.8	14.2	0.75	15.4	1.4	2.8	210	-21.5	29.8	82.8	37.6	14.1	0.6	14.2	1.25	2.8	210
	40	-4.7	33.9	91	33.2	14.2	0.75	15.4	1.4	2.8	210	-21.5	29.7	80.7	37.1	14.1	0.6	14.2	1.25	2.8	210
	45	-4.7	33.9	91.1	33.1	14.2	0.75	15.4	1.4	2.8	210	-21.5	29.7	80.7	36.8	14.1	0.6	14.2	1.25	2.8	210
	50	-4.9	33.4	90.9	32.8	14.2	0.75	15.4	1.4	2.8	210	-21.5	29.7	80.7	36.8	14.1	0.6	14.2	1.25	2.8	210
2	55	-5	33.4	91.1	33.3	14	0.8	15.2	1.4	2.8	210	-15.5	30.6	78.9	33.4	14.4	1.1	14.6	1.95	3.2	210
	60	-5.4	33.4	91.2	33.3	14	0.8	15.2	1.4	2.8	210	-15.5	30.5	79	33	14.4	1.1	14.6	1.95	3.2	210
	65	-5.1	33.4	91.4	33.2	14	0.8	15.2	1.4	2.8	210	-15.5	30.5	78.8	33.1	14.4	1.1	14.6	1.95	3.2	210
	70	-4.6	33.7	91.4	33.2	14	0.8	15.2	1.4	2.8	210	-15.5	30.6	78.9	33	14.4	1.1	14.6	1.95	3.2	210
	75	-4.6	33.6	91.4	33.3	14	0.8	15.2	1.4	2.8	210	-15.5	30.5	78.8	33	14.4	1.1	14.6	1.95	3.2	210
3	80	-4.6	33.6	91.4	33.3	14	0.8	15	1.4	2.6	210	-9.4	30.8	75.9	30.9	14.2	1.5	14.6	2.5	3.6	210
	85	-4.5	33.6	91.5	33.5	14	0.8	15	1.4	2.6	210	-9.7	30.8	75	30.7	14.2	1.5	14.6	2.5	3.6	210
	90	-4.6	33.6	91.5	33.8	14	0.8	15	1.4	2.6	210	-9.3	31	74.1	30.5	14.2	1.5	14.6	2.5	3.6	210
	95	-4.4	33.6	91.3	33.5	14	0.8	15	1.4	2.6	210	-9.4	30.8	73.9	30.8	14.2	1.5	14.6	2.5	3.6	210
	100	-4.6	33.6	91.4	33.5	14	0.8	15	1.4	2.6	210	-9.4	30.8	74.1	30.7	14.2	1.5	14.6	2.5	3.6	210
4	105	-5.4	32.5	91	33.2	13.8	0.7	14.8	1.3	2.6	210	1	30.2	72.2	29.9	13.8	1.8	14	3	4	210
	110	-5.5	32.5	91	33	13.8	0.7	14.8	1.3	2.6	210	1.5	29.7	70.8	29.7	13.8	1.8	14	3	4	210
	115	-6	32.3	90.8	32.9	0	0.7	14.8	1.3	2.6	210	1	29.5	71.3	30.2	13.8	1.8	14	3	4	210
	120	-5.7	32.2	90.5	32.6	0	0.7	14.8	1.3	2.6	210	1.5	29.6	70.3	30.2	13.8	1.8	14	3	4	210
	125	-5.7	32.4	90.8	32.9	0	0.7	14.8	1.3	2.6	210	1.3	29.7	71.1	30.2	13.8	1.8	14	3	4	210
5	130	-5.9	31.9	89.9	32.7	0	0.7	14.6	1.3	2.6	210	8.6	28.4	69.1	29.9	13.4	1.8	13.4	3.6	4	210
	135	-6	31.8	90	32.6	0	0.7	14.6	1.3	2.6	210	8.4	28.4	68.6	30.2	13.4	1.8	13.4	3.6	4	210
	140	-6.1	31.9	90	32.6	0	0.7	14.6	1.3	2.6	210	8.6	28.6	68.4	30.6	13.4	1.8	13.4	3.6	4	210
	145	-6.3	31.8	90	32.5	0	0.7	14.6	1.3	2.6	210	8.4	28.7	68.6	31	13.4	1.8	13.4	3.6	4	210
	150	-6.1	31.8	90	32.6	13.8	0.7	14.6	1.3	2.6	210	8.5	28.5	68.7	30.4	13.4	1.8	13.4	3.6	4	210

Variasi XV		03 Agustus 2008 16:00																			
HS	t (menit)	High Stage (R-22)								Low Stage (R-404A)											
		Temperatur (°C)				Pressure (Bar)				Arus Ampere HS	Voltage	Temperatur (°C)				Pressure (Bar)				Arus Ampere LS	Voltage
		XV out HS	XV in HS	Comp out	Comp in HS	HP XV HS	LP Comp H	HP Comp H	LP XV HS			XV out LS	XV in LS	Comp out	Comp in LS	HP XV LS	LP Comp L	HP Comp L	LP XV LS		
0	5	-6.3	33.1	87.9	31.8	14	0.7	15.2	1.3	2.8	210	-29	28	76.6	37.7	13.4	0.2	13.6	0.5	2.4	210
	10	-6.3	33.1	87.9	31.8	14	0.7	15.2	1.3	2.8	210	-29	28	76.6	37.7	13.4	0.2	13.6	0.5	2.4	210
	15	-6.3	33.1	87.9	31.8	14	0.7	15.2	1.3	2.8	210	-29	28	76.6	37.7	13.4	0.2	13.6	0.5	2.4	210
	20	-6.3	33.1	87.9	31.8	14	0.7	15.2	1.3	2.8	210	-29	28	76.6	37.7	13.4	0.2	13.6	0.5	2.4	210
	25	-6.3	33.1	87.9	31.8	14	0.7	15.2	1.3	2.8	210	-29	28	76.6	37.7	13.4	0.2	13.6	0.5	2.4	210
1	30	-2.9	33.2	92.9	29.2	14.4	1.4	15.4	2.2	3.2	210	-31	22.4	71.9	32.5	10.6	0.1	11	0.5	2.4	210
	35	-3.1	33.1	92.4	29	14.4	1.4	15.4	2.2	3.2	210	-31	22.2	72.4	32.7	10.6	0.1	11	0.5	2.4	210
	40	-3.2	32.9	92.2	28.9	14.4	1.4	15.4	2.2	3.2	210	-31	21.8	72.6	32.7	10.6	0.1	11	0.5	2.4	210
	45	-3.1	33	92	28.7	14.4	1.4	15.4	2.2	3.2	210	-31	22	72.4	32.5	10.6	0.1	11	0.5	2.4	210
	50	-3.2	33	92.3	28.9	14.4	1.4	15.4	2.2	3.2	210	-31	22	72.4	32.5	10.6	0.1	11	0.5	2.4	210
2	55	0	33.2	91.3	27.1	14.6	1.9	15.6	2.9	3.4	210	-33	18.2	72	30.3	8.5	0.05	9	0.4	2.4	210
	60	-0.1	33.2	90	26.7	14.6	1.9	15.6	2.9	3.4	210	-34	17.1	72.4	28.9	8.5	0.05	9	0.4	2.4	210
	65	-0.2	33.1	89.9	26.8	14.6	1.9	15.6	2.9	3.4	210	-35	16.7	73	28.7	8.5	0.05	9	0.4	2.4	210
	70	-0.2	33.1	90.1	26.8	14.6	1.9	15.6	2.9	3.4	210	-34	16.9	72.4	29	8.5	0.05	9	0.4	2.4	210
	75	-0.2	33.1	90.1	26.8	14.6	1.9	15.6	2.9	3.4	210	-34	16.9	72.4	29	8.5	0.05	9	0.4	2.4	210
3	80	1.6	32.9	87.9	25.6	14.6	2.4	15.8	3.5	3.6	210	-36	13.6	71.7	27.8	6.8	-0.07	7.4	0.2	2.4	210
	85	1.6	33.1	86.9	25.5	14.6	2.4	15.8	3.5	3.6	210	-36	13.4	71.2	27.9	6.8	-0.07	7.4	0.2	2.4	210
	90	1.8	32.7	86.6	25.3	14.6	2.4	15.8	3.5	3.6	210	-37	12.9	70.5	27.7	6.8	-0.07	7.4	0.2	2.4	210
	95	1.4	32.8	86.7	25.3	14.6	2.4	15.8	3.5	3.6	210	-36	12.8	70.8	27.7	6.8	-0.07	7.4	0.2	2.4	210
	100	1.6	32.8	86.7	25.3	14.6	2.4	15.8	3.5	3.6	210	-36	12.8	70.8	27.7	6.8	-0.07	7.4	0.2	2.4	210
4	105	3.3	32.6	83.9	24.7	14.4	2.8	15.6	4.2	3.8	210	-37	11.7	70.3	27.7	6.4	-0.07	6.8	0.2	2.4	210
	110	3.4	32.5	83.3	24.6	14.4	2.8	15.6	4.2	3.8	210	-37	11.8	70.4	27.6	6.4	-0.07	6.8	0.2	2.4	210
	115	3.5	32.5	83.2	24.6	14.4	2.8	15.6	4.2	3.8	210	-38	11.6	70.3	27.7	6.4	-0.07	6.8	0.2	2.4	210
	120	3.4	32.5	83.1	24.5	14.4	2.8	15.6	4.2	3.8	210	-38	11.6	70.3	27.6	6.4	-0.07	6.8	0.2	2.4	210
	125	3.4	32.5	83.1	24.6	14.4	2.8	15.6	4.2	3.8	210	-38	11.6	70.3	27.6	6.4	-0.07	6.8	0.2	2.4	210
5	130	5.9	32.5	80.9	24.5	14.6	3.2	15.8	4.8	4	210	-38	12	69.8	27.7	6.4	-0.09	6.8	0.15	2.4	210
	135	6	32.6	80.3	24.3	14.6	3.2	15.8	4.8	4	210	-38	11.6	70	27.6	6.4	-0.09	6.7	0.15	2.4	210
	140	5.9	32.7	80.1	24.4	14.6	3.2	15.8	4.8	4	210	-38	11.5	70.2	27.6	6.4	-0.09	6.7	0.15	2.4	210
	145	5.9	32.6	80.2	24.3	14.6	3.2	15.8	4.8	4	210	-38	11.8	69.7	27.6	6.4	-0.09	6.7	0.15	2.4	210
	150	5.9	32.6	80.2	24.3	14.6	3.2	15.8	4.8	4	210	-38	12.3	70.4	28.3	6.4	-0.09	6.7	0.15	2.4	210

Data Variasi XV 11 Agustus 2008 16:00

Variasi XV LS	t (menit)	High Stage (R-22)										Low Stage (R-404A)													
		Temperatur (°C)					Pressure (Bar)					Arus Ampere	Voltage	Temperatur (°C)					Pressure (Bar)					Arus Ampere	Voltage
		XV out	XV in	Comp out	Comp in	HP	LP	HP	LP	HP	LP			XV out	XV in	Comp out	Comp in	HP	LP	HP	LP	HP	LP		
0	5	-6.7	33.3	87	32.4	14	0.7	15.2	1.3	2.8	210	-28	31.2	77.7	39.1	15	0.2	15.2	0.65	2.4	210				
	10	-6.7	33.3	87	32.4	14	0.7	15.2	1.3	2.8	210	-28	31.2	77.7	39.1	15	0.2	15.2	0.65	2.4	210				
	15	-6.7	33.3	87	32.4	14	0.7	15.2	1.3	2.8	210	-28	31.2	77.7	39.1	15	0.2	15.2	0.65	2.4	210				
	20	-6.7	33.3	87	32.4	14	0.7	15.2	1.3	2.8	210	-28	31.2	77.7	39.1	15	0.2	15.2	0.65	2.4	210				
	25	-6.7	33.3	87	32.4	0	0.7	15.2	1.3	2.8	210	-28	31.2	77.7	39.1	15	0.2	15.2	0.65	2.4	210				
1	30	-6.1	33.7	88.7	33.1	14	0.75	15.4	1.4	2.8	210	-19.5	33.3	82.3	40.3	16	0.75	16.2	1.4	2.8	210				
	35	-5.5	34.1	89.9	34.1	14	0.75	15.4	1.4	2.8	210	-19.5	33.7	82.7	40.9	16	0.75	16.2	1.4	2.8	210				
	40	-5	34	89.8	34.1	14	0.75	15.4	1.4	2.8	210	-19.5	33.7	82.3	40.9	16	0.75	16.2	1.4	2.8	210				
	45	-5.1	33.7	90.7	33.6	14	0.75	15.4	1.4	2.8	210	-19.5	33.6	82.4	40.7	16	0.75	16.2	1.4	2.8	210				
	50	-5.7	33.8	90.9	34	14	0.75	15.4	1.4	2.8	210	-19.5	33	83.5	40.3	16	0.75	16.2	1.4	2.8	210				
2	55	-5.8	33.3	91.2	34.1	14	0.75	15	1.4	2.8	210	-15.5	32	85.1	40	16	1.2	16.2	1.85	3.2	210				
	60	-5.9	33.2	91.7	34.3	14	0.75	15	1.4	2.8	210	-15.5	33	84.5	39.3	16	1.2	16.2	1.85	3.2	210				
	65	-5.9	33.2	91.7	34.2	14	0.7	15	1.3	2.8	210	-15.5	33	84.5	38.3	16	1.2	16.2	1.85	3.2	210				
	70	-5.9	33.2	91.7	34.3	14	0.7	15	1.3	2.8	210	-16.5	33	84.2	38.3	16	1.2	16.2	1.85	3.2	210				
	75	-5.9	33	91.7	34.4	14	0.7	15	1.3	2.8	210	-16.5	33.1	83.8	38	16	1.2	16.2	1.85	3.2	210				
3	80	-5.6	33.2	92	33.9	14	0.75	15.2	1.4	2.6	210	-4.7	33.3	83.8	37.2	16	1.5	16	2.5	3.4	210				
	85	-5.9	33	92.1	34.4	14	0.75	15.2	1.4	2.6	210	-4.4	32.7	82.2	36	16	1.5	16	2.5	3.4	210				
	90	-5.6	33	92.1	34.1	14	0.75	15.2	1.4	2.6	210	-5	33.2	81.8	35.8	16	1.5	16	2.5	3.4	210				
	95	-5.7	33.2	92.1	34.4	14	0.75	15.2	1.4	2.6	210	-7	33.4	80.8	35.4	16	1.5	16	2.5	3.4	210				
	100	-5.4	33.3	92.2	34.4	14	0.75	15.2	1.4	2.6	210	-5	33.4	79.9	35.3	16	1.5	16	2.5	3.4	210				
4	105	-5.8	32.7	92.3	34.9	14	0.75	15.2	1.4	2.6	210	5	32.2	78.3	34.3	15.4	1.9	15.4	3.2	4	210				
	110	-5.7	33.1	92.7	34.4	14	0.75	15.2	1.4	2.6	210	4.4	32.7	78	34.3	15.4	1.9	15.4	3.2	4	210				
	115	-5.7	33.2	92.4	34.3	14	0.75	15.2	1.4	2.6	210	4.8	32.1	77	34.3	15.4	1.9	15.4	3.2	4	210				
	120	-5.5	33.4	92.1	34.6	14	0.75	15.2	1.4	2.6	210	4.8	32.6	76.2	34.3	15.4	1.9	15.4	3.2	4	210				
	125	-5.4	33.3	92.2	33.9	14	0.75	15.2	1.4	2.6	210	4.4	32.7	75.5	34.3	15.4	1.9	15.4	3.2	4	210				
5	130	-5.9	32.8	92	34.1	14	0.7	15.2	1.4	2.6	210	11	32.3	74.5	33.7	15.4	2.1	15.4	3.7	4.4	210				
	135	-6	32.8	92	34	14	0.7	15.2	1.4	2.6	210	11	32.5	74.5	33.8	15.4	2.1	15.4	3.7	4.4	210				
	140	-5.8	32.9	92.1	34	14	0.7	15.2	1.4	2.6	210	10.8	32.5	74	34	15.4	2.1	15.4	3.7	4.4	210				
	145	-6.2	32.7	92.2	34.1	14	0.7	15.2	1.4	2.6	210	10.8	32.5	74	34.3	15.4	2.1	15.4	3.7	4.4	210				
	150	-6.2	32.7	92.2	34.2	14	0.7	15.2	1.4	2.6	210	10.8	32.5	74.1	34.6	15.4	2.1	15.4	3.7	4.4	210				

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Variasi XV HS	t (menit)	High Stage (R-22)										Low Stage (R-404A)													
		Temperatur (°C)					Pressure (Bar)					Arus Ampere	Voltage	Temperatur (°C)					Pressure (Bar)					Arus Ampere	Voltage
		XV out	XV in	Comp out	Comp in	HP	LP	HP	LP	HP	LP			XV out	XV in	Comp out	Comp in	HP	LP	HP	LP	HP	LP		
0	5	-6.7	33.3	87	34.4	14	0.7	15.2	1.3	2.8	210	-28	31.2	77.7	39.1	15	0.2	15.2	0.65	2.4	210				
	10	-6.7	33.3	87	34.4	14	0.7	15.2	1.3	2.8	210	-28	31.2	77.7	39.1	15	0.2	15.2	0.65	2.4	210				
	15	-6.7	33.3	87	34.4	14	0.7	15.2	1.3	2.8	210	-28	31.2	77.7	39.1	15	0.2	15.2	0.65	2.4	210				
	20	-6.7	33.3	87	34.4	14	0.7	15.2	1.3	2.8	210	-28	31.2	77.7	39.1	15	0.2	15.2	0.65	2.4	210				
	25	-6.7	33.3	87	34.4	0	0.7	15.2	1.3	2.8	210	-28	31.2	77.7	39.1	15	0.2	15.2	0.65	2.4	210				
1	30	-3.7	34	94.1	30.7	14.6	1.3	15.8	2	3	210	-28	26	78.3	34.7	11.8	0.2	12.2	0.6	2.4	210				
	35	-3.8	33.7	94.1	30.5	14.6	1.3	15.8	2	3	210	-29	25.6	78.4	34.6	11.8	0.2	12.2	0.6	2.4	210				
	40	-4.1	33.4	93.9	30.6	14.6	1.3	15.8	2	3	210	-29	25	78.6	34.4	11.8	0.2	12.2	0.6	2.4	210				
	45	-4.1	33.7	93.8	30.5	14.6	1.3	15.8	2	3	210	-29	24.7	78.5	34	11.8	0.2	12.2	0.6	2.4	210				
	50	-3.7	33.8	93.6	30.5	14.6	1.3	15.8	2	3	210	-29	24.7	78.1	33.8	11.8	0.2	12.2	0.6	2.4	210				
2	55	-1.1	34.5	94.4	29.2	15.2	1.8	16.4	2.7	3.2	210	-30	21.6	77.9	32.1	8.8	0.1	9.2	0.5	2.4	210				
	60	-0.7	34.9	94.2	29.1	15.2	1.8	16.4	2.7	3.2	210	-30	20.9	76.7	31.2	8.8	0.1	9.2	0.5	2.4	210				
	65	-0.6	34.6	93.4	28.8	15.2	1.8	16.4	2.7	3.2	210	-31	19.7	76.6	30.3	8.8	0.1	9.2	0.5	2.4	210				
	70	-0.9	34.4	93.1	28.4	15.2	1.8	16.4	2.7	3.2	210	-31	18	76.3	29.5	8.8	0.1	9.2	0.5	2.4	210				
	75	-1.4	34.4	93	28.3	15.2	1.8	16.4	2.7	3.2	210	-32	17.5	76.2	29.4	8.8	0.1	9.2	0.5	2.4	210				
3	80	0.8	34.6	91.9	27.5	15.2	2.2	16.4	3.3	3.6	210	-32	15.3	74.4	28.7	7.2	0	7.6	0.4	2.4	210				
	85	1	34.8	91.5	27	15.2	2.2	16.4	3.3	3.6	210	-33	14.8	74.2	28.7	7.2	0	7.6	0.4	2.4	210				
	90	0.6	34.6	89.7	27	15.2	2.2	16.4	3.3	3.6	210	-33	14.6	74.1	28.4	7.2	0	7.6	0.4	2.4	210				
	95	0.5	34.2	89.5	26.9	15.2	2.2	16.4	3.3	3.6	210	-33	13.8	73.7	28.2	7.2	0	7.6	0.4	2.4	210				
	100	0.3	34.5	89.2	26.9	15.2	2.2	16.4	3.3	3.6	210	-33	13.5	73.5	27.9	7.2	0	7.6	0.4	2.4	210				
4	105	3.1	34.9	88.2	26.6	15.2	2.6	16.5	3.9	4	210	-34	13.3	72	27.9	6.6	0	7	0.35	2.2	210				
	110	3.1	34.8	87.7	26.5	15.2	2.6	16.5	3.9	4	210	-34	13	71.7	27.6	6.6	0	7	0.35	2.2	210				
	115	3	34.6	87.1	26.4	15.2	2.6	16.5	3.9	4	210	-34	12.5	71.4	27.4	6.6	0	7	0.35	2.2	210				
	120	3	34.5	87.1	26.2	15.2	2.6	16.5	3.9	4	210	-34	13.2	71.4	27.4	6.6	0	7	0.35	2.2	210				
	125	2.8	34.5	86.9	26.2	15.2	2.6	16.5	3.9	4	210	-34	13	71.2	27.4	6.6	0	7	0.35	2.2	210				
5	130	5.5	34.9	84.8	26	15.3	3.1	16.6	4.5	4	210	-34	13	71.1	27.4	6.6	0	6.7	0.4	2.2	210				
	135	6	34.9	84.8	26	15.3	3.1	16.6	4.5	4	210	-34	12.9	71	27.2	6.6	0	6.7	0.4	2.2	210				
	140	5.9	34.8	84.6	25.9	15.3	3.1	16.6	4.5	4	210	-34	12.9	70.8	27.3	6.6	0	6.7	0.4	2.2	210				
	145	5.8	34.8	84.4	25.8	15.3	3.1	16.6	4.5	4	210	-34	12.7	70.3	27	6.6	0	6.7	0.4	2.2	210				
	150	5.9	34.8	84.1	25.9	15.3	3.1	16.6	4.5	4	210	-34	13.1	70.4	27.6	6.6	0	6.7	0.4	2.2	210				

data campuran r22(700gr) : c2h6-co2 (75gr : 50gr)

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Var. XV LS	time (menit)	t.ruang (°C)	t.kabin (°C)	High Stage (R-22: 700gr)								Low Stage (Ethane:75gr - CO2:50gr)								Voltage (volt)	Arus (ampere)	Daya (kw)
				Temperature (°C)				Pressure (bar abs)				Temperature (°C)				Pressure (bar abs)						
				Evaporator in	Suction H	Discharge	Condensor out	Condensor out	Suction H	Discharge	Evaporator in	Suction L	Discharge L	Condens	Evaporat	Discharge LS	Suction L	Condensor	Evaporator in LS			
HS ON	0	32.5	30.7	28.4	28.4	28.2	30	11.4	11.4	12.2	12.2	31.3	31	31.2	30.9	8.2	8.2	8.5	8.5	224.6	0.23	0.005
Normally Closed	5	33.5	28.7	-0.6	29.3	36.8	32.4	13.4	1	14.4	1.6	31.8	31.6	31.4	31.1	8.2	8.2	8.5	8.5	223.6	2.24	0.468
	10	33.8	28.8	-1.3	29.3	49.1	32.7	13.6	1	15	1.6	33	32.5	32.1	32	8.2	8.2	8.5	8.5	223	2.09	0.437
	15	33.4	228.8	-14.1	29.2	52.5	32.2	13.4	1	14.2	1.5	33.4	32.7	32.1	31.6	8.2	8.2	8.6	8.6	223.6	2.07	0.435
LS ON (HS Steady)	20	33.1	28.8	-1.5	28.5	55.4	31.6	13.2	1	14.2	1.6	33.4	32.6	31.9	31.6	8.2	8.2	8.6	8.6	224.6	2.06	0.432
	25	33.1	28.9	-15.3	28.2	58.9	31.2	13.2	1	14.1	1.5	33.4	32.3	31.4	31.1	8.2	8.2	8.6	8.6	229.7	2.04	0.425

Var. XV LS	time (menit)	t.ruang (°C)	t.kabin (°C)	High Stage (R-22: 700gr)								Low Stage (Ethane:75gr - CO2:50gr)								Voltage (volt)	Arus (ampere)	Daya (kw)
				Temperature (°C)				Pressure (bar abs)				Temperature (°C)				Pressure (bar abs)						
				Evaporator in	Suction H	Discharge	Condensor out	Condensor out	Suction H	Discharge	Evaporator in	Suction L	Discharge L	Condens	Evaporat	Discharge LS	Suction L	Condensor	Evaporator in LS			
Normally Closed	30	33.2	24.2	-13.7	27.8	63.9	32.5	14.3	1.35	15.4	2	33	35	11	-49.8	20	1	21.4	1.4	220	4.75	1.004
	35	33.1	20.9	-12.1	27.9	69.2	32.8	14.3	1.35	15.3	1.85	33.6	40.4	-0.9	-50	22.6	1.5	18.8	0.67	221.4	3.92	0.806
	40	33	16.1	-11.7	28.7	71.8	33.4	14.8	1.4	15.8	2	34.1	45.7	-0.7	-50	22	1.1	22.4	1.5	221	4.74	0.997
	45	33	15.9	-11.5	29	75	33.4	14.4	1.35	15.6	1.9	34.7	50	-2.2	-50	21	0.83	20	0.4	219.3	4.69	0.995
	50	33	16.1	-11.9	29.1	76.3	32.6	14.5	1.35	15.2	1.9	35	52.7	-3.1	-50	20	0.8	18.6	0.87	221.3	4.18	0.86
	55	33	13	-11.6	29.3	78.1	32.9	14.6	1.45	15.7	2.1	35	57.4	-1.4	-49.8	23	1.7	22.8	2	220.4	5.08	1.062
	60	33	10.7	-10.9	29.6	80.5	33	14.6	1.4	15.7	2	35.9	66.1	-1.3	-50	21	0.87	21	0.93	222.2	3.98	0.817
	65	33	11.3	-11.4	30	80.7	33.1	14.6	1.35	15.6	1.9	36.4	64	-2.7	-50	18.8	0.8	18.7	0.73	222	4.62	0.935
	70	33	11.1	-11.4	29.9	81.6	33.2	14.6	1.4	15.6	2.1	36.5	68.2	-1.7	-50	22	1.2	22	1.5	220.7	4.72	0.973
	75	32.5	10.1	-11.1	29.9	83.2	33.2	14.8	1.4	15.6	2	36.5	68.8	-1.6	-50	20.4	0.83	21	0.93	221.3	4.29	0.904
75%NC	80	32.5	-11.7	-9.3	31.8	87.1	34.5	15.8	1.7	17	2.5	41.5	95.1	11	-49.5	25.6	2.3	25.4	2.5	219	6.57	1.391
	85	32.5	-16.2	-8.8	33.5	88.1	35	16	1.7	17	2.5	44	103.5	14.2	-49.7	25.6	2.2	25.3	2.5	220	6.68	1.424
	90	32.5	-19.8	-8.5	34.4	89.6	34.8	16.2	1.8	17.2	2.5	46	109.5	16.8	-49.7	25.6	2.2	25.4	2.8	218.5	6.66	1.4
	95	32.5	-22.1	-8.2	34.7	89.7	35	16.2	1.8	17.6	2.5	46.3	#VALUE!	17.6	-49.7	25.6	2.2	25.6	2.5	216	6.51	1.38
	100	32.5	-26.9	-9.8	30.4	89	33.5	16	1.8	17.2	2.5	39.7	103.5	0.7	-49.7	25.2	2.1	25.2	2.4	219.7	6.29	1.373
105	32.5	-28.9	-8.4	31.5	90.9	34.4	16.2	1.8	17.2	2.5	41.8	#VALUE!	2.5	-49.7	25.4	2.1	25.4	2.4	218	6.41	1.375	
50% NC	110	32.5	5.8	-8.1	31.9	91.3	34.7	16	1.6	17	1.6	42.5	#VALUE!	2.3	-16	26	3.3	25.6	5	218.9	8.08	1.726
	115	32.5	7.6	-7.6	32.6	92.4	35.6	16	1.6	17	2.3	42.5	109.5	2.7	-11.4	26.6	3.4	26	4	220	8.23	1.765
	120	32.5	8.4	-7.7	32.4	92.2	34.9	16.6	1.6	17	2.3	42.7	#VALUE!	1.9	-8	26.6	3.4	26.3	4.1	219.6	8.31	1.756
	125	32.5	8.9	-7.6	32.2	92.5	35	16	1.65	17	2.4	42.7	#VALUE!	1.9	-8	26.7	3.5	26.4	4.1	220.7	8.46	1.768

Var. XV LS	time (menit)	t.ruang (°C)	t.kabin (°C)	High Stage (R-22: 700gr)								Low Stage (Ethane:75gr - CO2:50gr)								Voltage (volt)	Arus (ampere)	Daya (kw)
				Temperature (°C)				Pressure (bar abs)				Temperature (°C)				Pressure (bar abs)						
				Evaporator in	Suction H	Discharge	Condensor out	Condensor out	Suction H	Discharge	Evaporator in	Suction L	Discharge L	Condens	Evaporat	Discharge LS	Suction L	Condensor	Evaporator in LS			
Normally Closed	1	33.0	14.9	-11.7	29.1	76.0	33.0	14.6	1.4	15.6	2.0	35.1	54.8	-0.5	-50.0	21.1	1.1	20.7	1.1	221.0	4.5	0.9
75%NC	2	32.5	-20.9	-8.8	32.7	89.1	34.5	16.1	1.8	17.2	2.5	43.2	#VALUE!	10.5	-49.7	25.5	2.2	25.4	2.5	218.5	6.5	1.4
50% NC	3	32.5	7.7	-7.8	32.3	92.1	35.1	16.2	1.6	17.0	2.2	42.6	#VALUE!	2.2	-10.9	26.5	3.4	26.1	4.3	219.8	8.3	1.8

Var. XV LS	time (menit)	t.ruang (°C)	t.kabin (°C)	High Stage (R-290: 166gr)								Low Stage (Ethane:125gr - CO2:50gr)								Voltage (volt)	Arus (ampere)	Daya (kw)
				Temperature (°C)				Pressure (bar abs)				Temperature (°C)				Pressure (bar abs)						
				Evaporator in	Suction H	Discharge	Condensor out	Condensor out	Suction H	Discharge	Evaporator in	Suction L	Discharge L	Condens	Evaporat	Discharge LS	Suction L	Condens	Evaporator in LS			
HS ON	0	30.7	30.3	-31.3	30.2	30.2	32.4	6.8	6.4	6.4	6.8	33.4	33.4	33	33.8	13.4	13	13	13.4	0	0	0
Normally Closed	5	32.7	29.9	22.3	30.5	35.9	31.7	11.4	0.87	12.1	1.3	33.2	33	32.7	32.7	13.4	13	13	13.4	227	2.01	0.418
	10	32.8	29.9	19.6	30.7	39.7	31.7	11.4	0.87	12.2	1.3	33.2	33	32.6	32.8	13.4	13	13	13.4	228	1.976	0.4
	15	32.8	29.9	16.5	30.7	45.2	31.1	11.4	0.87	12.2	1.3	33.2	32.9	32.4	32.6	13.4	13	13	13.4	227.7	1.947	0.403
	20	32.8	30	11.5	30.7	50.1	31.5	11.4	0.87	12.2	1.3	33.3	33	32.4	32.6	13.4	13	13	13.4	225	1.948	0.403
	25	32.7	30	9.1	30.7	54.7	31.1	11.4	0.93	12.2	1.3	33.4	33.1	32.2	32.4	13.4	13	13	13.4	227.7	1.936	0.4
	30	32.7	30	7.7	30.6	56.7	31.2	11.4	0.93	12.2	1.3	33.3	33.2	32.1	32.3	13.4	13	13	13.4	227.1	1.347	0.399
	35	32.7	30	5.2	30.6	59.3	31.2	11.4	0.93	12.2	1.3	33.4	33.1	32.1	32.3	13.4	13	13	13.4	227.5	1.94	0.4
	40	32.7	30	3.1	30.4	61.5	31	11.4	0.93	12.2	1.3	33.6	33.2	32	32.2	13.4	13	13	13.4	227.5	1.95	0.402
	45	32.6	30	0.8	30.3	63.6	30.9	11.4	0.93	12.2	1.3	33.6	33.2	31.8	32.2	13.4	13	13	13.4	228.3	1.95	0.405
	50	32.5	30	-2.9	29.8	65.5	30.3	11.4	0.93	12.2	1.3	33.6	33	31.5	31.8	13.4	13	13	13.4	228.3	1.955	0.405
	55	32.4	30	-4.4	29.5	66.3	30	11.4	0.93	12.2	1.3	33.4	33	31.3	31.8	13.4	13	13	13.4	228.5	1.975	0.412
	60	32.4	30	-6.6	29.2	67.4	29.7	11.4	0.93	12.2	1.3	33.3	32.7	31	31.6	13.4	13	13	13.4	228.5	1.98	0.411
	65	32.1	30	-8.7	28.9	67.8	29.5	11.4	0.93	12.2	1.3	33.1	32.6	30.7	31.4	13.4	13	13	13.4	228.5	1.95	0.405
	70	31.9	30	-12.7	28.5	68.5	29.2	11.4	0.93	12.2	1.3	32.9	32.3	30.5	31.2	13.4	13	13	13.4	228.1	1.97	0.41
	75	31.7	30	-15	28.2	69.1	29.2	11.4	0.93	12.2	1.3	32.8	32.2	30.3	31.2	13.4	13	13	13.4	225.5	1.939	0.4
80	31.5	30	-15	28.3	69.2	29.1	11.4	0.93	12.2	1.3	32.7	32.2	30.2	31.1	13.4	13	13	13.4	225.5	1.951	0.401	
85	31.5	30	-15.4	28.4	69.1	29	11.4	0.93	12.2	1.3	32.7	32.1	30.1	31	13.4	13	13	13.4	225.2	1.946	0.404	
90	31.3	30	-16.1	27.8	69.7	28.7	11.4	0.93	12.2	1.3	32.3	32	30	30.8	13.4	13	13	13.4	224.6	1.947	0.4	
95	31	30	-15.5	27.3	69.7	28.2	11.4	0.93	12.2	1.3	31.8	31.6	29.6	30.6	13.4	13	13	13.4	224.6	1.936	0.4	
LS ON (HS Steady)	100	31	30	-15.5	27.4	70	28.8	11.4	0.93	12.2	1.3	32	31.4	29.5	30.5	13.4	13	13	13.4	224	1.93	0.4
Normally Closed	105	30.6	30	-13.6	27.4	70.1	28.6	11	1	12	1.4	31.9	34.2	15.2	-27.7	33.8	0.8	33.2	1	225.1	3.77	0.76
	110	30.3	29.9	-13.5	27.7	70.1	28.4	11	1	11.8	1.4	32.1	36.5	12.7	-35.6	33.7	0.8	33.4	0.87	225.3	3.49	0.71
	115	30.2	29.9	-14.4	28	70	28.1	11	1	11.8	1.4	32.4	38	11.5	-58	33.6	0.87	33.8	1	225.6	3.64	0.74
	120	29.9	29.9	-14.7	27.9	70.1	27.9	10.8	0.93	11.8	1.4	32.7	40.1	10.9	-12	32.2	0.67	31.4	0.73	225.6	3.472	0.704
	125	29.6	29.6	-15.1	27.7	70	27.7	10.8	0.93	11.8	1.4	32.8	42.1	9.6	-60	31.8	0.67	32	0.73	226	3.389	0.7
	130	29.6	29.6	-14.3	27.6	69.9	27.6	10.8	0.93	11.8	1.4	32.9	44.6	9.2	-61.4	33.8	0.73	33.4	1	224.7	3.306	0.655
	135	29.4	29.3	-13.6	27.6	70	27.7	10.8	0.93	11.8	1.4	33.2	46.6	10	-16	32.6	0.67	32.8	0.73	224.6	3.33	0.76
	140	29.4	29.3	-13.7	27.7	70	27.7	10.8	0.93	11.8	1.4	33.2	49.6	10.8	-37.1	33.8	0.8	34.2	0.8	224.5	3.28	0.64
	145	29.3	29.3	-13.9	27.7	70	27.8	10.8	0.93	11.8	1.4	33.4	50.6	10.8	-50	33.8	0.8	34	0.8	224.7	3.43	0.68

Var. XV LS	time (menit)	t.ruang (°C)	t.kabin (°C)	High Stage (R-290: 166gr)								Low Stage (Ethane:125gr - CO2:50gr)								Voltage (volt)	Arus (ampere)	Daya (kw)
				Temperature (°C)				Pressure (bar abs)				Temperature (°C)				Pressure (bar abs)						
				Evaporator in	Suction H	Discharge	Condensor out	Condensor out	Suction H	Discharge	Evaporator in	Suction L	Discharge L	Condens	Evaporat	Discharge LS	Suction L	Condens	Evaporator in LS			
Normally Closed	105	30.6	30	-13.6	27.4	70.1	28.6	11	1	12	1.4	31.9	34.2	15.2	-27.7	33.8	0.8	33.2	1	225.1	3.77	0.76
	110	30.3	29.9	-13.5	27.7	70.1	28.4	11	1	11.8	1.4	32.1	36.5	12.7	-35.6	33.7	0.8	33.4	0.87	225.3	3.49	0.71
	115	30.2	29.9	-14.4	28	70	28.1	11	1	11.8	1.4	32.4	38	11.5	-58	33.6	0.87	33.8	1	225.6	3.64	0.74
	120	29.9	29.9	-14.7	27.9	70.1	27.9	10.8	0.93	11.8	1.4	32.7	40.1	10.9	-12	32.2	0.67	31.4	0.73	225.6	3.472	0.704
	125	29.6	29.6	-15.1	27.7	70	27.7	10.8	0.93	11.8	1.4	32.8	42.1	9.6	-60	31.8	0.67	32	0.73	226	3.389	0.7
	130	29.6	29.6	-14.3	27.6	69.9	27.6	10.8	0.93	11.8	1.4	32.9	44.6	9.2	-61.4	33.8	0.73	33.4	1	224.7	3.306	0.655
	135	29.4	29.3	-13.6	27.6	70	27.7	10.8	0.93	11.8	1.4	33.2	46.6	10	-16	32.6	0.67	32.8	0.73	224.6	3.33	0.76
	140	29.4	29.3	-13.7	27.7	70	27.7	10.8	0.93	11.8	1.4	33.2	49.6	10.8	-37.1	33.8	0.8	34.2	0.8	224.5	3.28	0.64
	145	29.3	29.3	-13.9	27.7	70	27.8	10.8	0.93	11.8	1.4	33.4	50.6	10.8	-50	33.8	0.8	34	0.8	224.7	3.43	0.68
	75%NC	150	29.2	28.9	-14.1	28	70.1	27.7	10.8	1	11.8	1.4	33.8	63.7	13.3	-37	35.5	1.35	35.5	1.5	225.2	4.23
155		29.2	28.6	-14	28.5	70.2	27.9	10.8	1	11.8	1.4	33.8	67.4	14.1	-35.5	35.5	1.4	35.5	1.5	225.4	4.38	0.92
160		29.1	28.6	-13.3	28.7	70.3	27.8	10.8	1	11.8	1.4	34.1	69.3	14	-37	35.5	1.2	35.5	1.5	224.6	4.2	0.86
165		29.1	28.4	-13.5	28.8	70.3	27.7	10.8	1	11.8	1.4	34.2	70.9	13.9	-38.8	35.5	1.4	35.5	1.5	224.6	4.3	0.89
170		29.1	28.4	-13.3	28.8	70.3	27.7	10.8	1	11.8	1.4	34.1	71.1	13.8	-38	35.5	1.3	35.5	1.5	224.6	4.3	0.89
175		29.1	28.3	-13.5	28.7	70.3	27.7	10.8	1	11.8	1.4	34.1	71.1	13.8	-38	35.5	1.3	35.5	1.5	224.6	4.3	0.89

Var. XV LS	time (menit)	t.ruang (°C)	t.kabin (°C)	High Stage (R-290: 166gr)								Low Stage (Ethane:125gr - CO2:50gr)								Voltage (volt)	Arus (ampere)	Daya (kw)
				Temperature (°C)				Pressure (bar abs)				Temperature (°C)				Pressure (bar abs)						
				Evaporator in	Suction H	Discharge	Condensor out	Condensor out	Suction H	Discharge	Evaporator in	Suction L	Discharge L	Condens	Evaporat	Discharge LS	Suction L	Condens	Evaporator in LS			
Normally Closed	1	29.8	29.6	-14.1	27.7	70.0	27.9	11.8	1.0	10.9	1.4	32.7	42.5	11.2	-39.8	33.2	0.9	33.1	0.9	225.1	3.5	0.7
75%NC	2	29.1	28.5	-13.6	28.6	70.3	27.8	11.8	1.0	10.8	1.4	34.0	68.9	13.8	-37.4	35.5	1.3	35.5	1.5	224.8	4.3	0.9

Var. XV LS	time (menit)	t.ruang (°C)	t.kabin (°C)	High Stage (R-290: 166gr)								Low Stage (propana:25gr - CO2:25gr)								Voltage (volt)	Arus (ampere)	Daya (kw) kW	
				Temperature (°C)				Pressure (bar abs)				Temperature (°C)				Pressure (bar abs)							
				Evaporator in	Suction H	Discharge	Condensor out	Condensor out	Suction H	Discharge	Evaporator in	Suction L	Discharge L	Condens	Evaporat	Discharge LS	Suction L	Condensor	Evaporator in LS				
HS ON	0	31.2	29	29.1	28.4	28.3	29.7	6.3	6.3	6.3	6.3	30.8	31.1	30.5	31.1	3.2	3	3	3	3.2	0	0	0
Normally Closed	5	31.2	29	22	28.4	32.1	29.7	11.6	0.93	12.4	1.3	31	31.1	30.4	30.9	3.2	3	3	3	3.2	228.7	2.04	0.428
	10	31.3	29	19.3	28.6	36.9	29.6	11.6	0.93	12.4	1.3	31	31.1	30.4	30.9	3.2	3	3	3	3.2	222.2	1.99	0.415
	15	31.4	29	15.5	28.9	45.6	29.5	11.6	0.93	12.4	1.3	31.3	31.2	30.4	31	3.2	3	3	3	3.2	222.3	1.96	0.404
	20	31.5	29.3	14.1	29	47.9	29.6	11.6	0.93	12.4	1.3	31.5	31.3	30.4	30.9	3.2	3	3	3	3.2	222.3	1.935	0.395
	25	31.5	29.3	12.5	29.1	52.2	29.6	11.6	0.93	12.4	1.3	31.6	31.5	30.4	30.9	3.2	3	3	3	3.2	223.6	1.92	0.397
	30	31.5	29.3	10.7	29.1	54.9	29.5	11.6	0.93	12.4	1.3	31.8	31.5	30.4	30.9	3.2	3	3	3	3.2	223.7	1.92	0.397
	35	31.5	29.3	9.4	29.1	57.9	29.5	11.6	0.93	12.4	1.3	32	31.7	30.4	30.9	3.2	3	3	3	3.2	223.8	1.914	0.396
	40	31.5	29.3	8.5	29.2	59.4	29.5	11.6	0.93	12.4	1.3	32.1	31.8	30.4	30.9	3.2	3	3	3	3.2	225	1.92	0.4
	45	31.5	29.3	7.1	29.1	61.1	29.5	11.6	0.93	12.4	1.3	32.1	31.8	30.3	30.9	3.2	3	3	3	3.2	226.4	1.93	0.404
	50	31.5	29.3	4.9	29	63.2	29.4	11.6	0.93	12.4	1.3	32.2	31.8	30.3	30.8	3.2	3	3	3	3.2	225.9	1.94	0.4
	55	31.5	29.3	4.1	29	64.5	29.2	11.6	1	12.4	1.3	32.2	31.8	30.2	30.7	3.2	3	3	3	3.2	226.5	1.94	0.402
	60	31.5	29.3	3.2	28.8	65.7	29	11.6	1	12.4	1.3	32.2	31.8	30.1	30.6	3.2	3	3	3	3.2	227.7	1.96	0.406
	65	31.5	29.3	1.5	28.7	66.7	28.8	11.6	1	12.4	1.3	32.2	31.8	30	30.5	3.2	3	3	3	3.2	227.4	1.96	0.409
	70	31.3	29.3	0.6	28.5	67.4	28.6	11.6	1	12.4	1.3	32.1	31.7	29.8	30.4	3.2	3	3	3	3.2	227	1.96	0.408
	75	31.3	29.3	-0.6	28.4	68.3	28.5	11.6	1	12.4	1.3	32.2	31.7	29.7	30.4	3.2	3	3	3	3.2	227.9	1.97	0.41
	80	31.2	29.3	-1.1	28.1	69	28.6	11.6	1	12.4	1.3	32	31.7	29.6	30.4	3.2	3	3	3	3.2	224.7	1.94	0.406
	85	31.1	29.3	-1.5	28.2	69.3	28.6	11.6	1	12.4	1.3	32	31.7	29.6	30.3	3.2	3	3	3	3.2	225.7	1.95	0.408
	90	31.1	29.3	-2.2	28.1	69.6	28.5	11.6	1	12.4	1.3	32	31.6	29.5	30.2	3.2	3	3	3	3.2	224.8	1.95	0.407
	95	31.1	29.3	-3	27.9	69.9	28.2	11.6	1	12.4	1.3	31.9	31.5	29.4	30.2	3.2	3	3	3	3.2	225	1.96	0.407
	100	31	29.3	-3.9	27.8	70.1	28.1	11.6	1	12.4	1.3	32	31.5	29.3	30.2	3.2	3	3	3	3.2	225.9	1.97	0.409
	105	31	29.3	-4.1	27.7	70.2	27.9	11.6	1	12.4	1.3	31.9	31.5	29.2	30.1	3.2	3	3	3	3.2	225.7	1.97	0.409
	110	31	29.3	-4.6	27.6	70.3	28	11.6	1	12.4	1.3	31.8	31.4	29.2	30.1	3.2	3	3	3	3.2	227	1.96	0.413
	115	30.9	29.3	-5.3	27.5	70.6	27.9	11.6	1	12.4	1.3	31.9	31.4	29.1	30.1	3.2	3	3	3	3.2	226.4	1.97	0.412
	120	30.9	29.3	-5.9	27	70.3	27.8	11.6	1	12.4	1.3	31.9	31.4	29.1	30.1	3.2	3	3	3	3.2	226	1.98	0.413
	125	30.8	29.1	-5.9	27.4	70.7	27.7	11.6	1	12.4	1.3	32	31.3	29.1	30.1	3.2	3	3	3	3.2	226	1.98	0.413
	130	30.8	29.3	-5.8	27.3	70.7	27.8	11.6	1	12.4	1.3	32	31.3	29	30	3.2	3	3	3	3.2	226	1.97	0.413

Var. XV LS	time (menit)	t.ruang (°C)	t.kabin (°C)	High Stage (R-290: 166gr)								Low Stage (propana:25gr - CO2:25gr)								Voltage (volt)	Arus (ampere)	Daya (kw)
				Temperature (°C)				Pressure (bar abs)				Temperature (°C)				Pressure (bar abs)						
				Evaporator in	Suction H	Discharge	Condensor out	Condensor out	Suction H	Discharge	Evaporator in	Suction L	Discharge L	Condens	Evaporat	Discharge LS	Suction L	Condensor	Evaporator in LS			
Normally Closed	135	30.7	29.3	-5.4	27.1	70.9	28	11.6	1	12.4	1.3	32.2	34.6	17.5	9.3	8.6	0.73	8	0.93	224.8	3.88	0.803
	140	30.7	29.3	-5	27.5	70.7	28	11.6	1	12.4	1.3	32.2	39.5	15.9	9.8	8.8	0.73	8.4	0.93	224.5	3.81	0.79
	145	30.7	29	-4.5	27.9	70.7	27.9	11.6	1	12.4	1.3	32.4	44.2	16	10.3	8.8	0.73	8.4	0.93	225	3.77	0.78
	150	30.6	29	-4.7	28.2	70.8	27.6	11.6	1	12.4	1.3	32.6	49.1	16.1	10.8	9	0.73	8.8	0.93	224.8	3.77	0.775
	155	30.6	28.9	-4.8	28.2	70.9	27.6	11.6	1	12.4	1.3	32.8	52.4	16.2	10.6	9	0.73	8.8	0.93	225.3	3.77	0.777
	160	30.5	28.9	-4.9	28.3	70.9	27.6	11.6	1	12.4	1.3	33.1	55.8	16.1	10.5	9	0.73	8.8	0.93	225	3.77	0.773
75% NC	165	30.3	28.6	-4.5	29	71	27.8	11.6	1	12.4	1.3	34.2	68.5	20.1	15.9	8.2	1.3	7.8	1.8	224.6	4.2	0.883
	170	30.3	28.6	-3.6	29.5	71.1	27.9	11.6	1	12.4	1.3	35.1	71.2	22	17.6	8.2	1.3	7.8	1.8	225	4.21	0.887
	175	30.2	28.6	-3.8	29.8	71.2	27.9	11.6	1	12.4	1.3	35.5	73.2	22.8	18.1	8.2	1.3	7.8	1.8	224.7	4.2	0.886
	180	30.2	28.6	-4.1	30	71.2	27.9	11.6	1	12.4	1.3	35.5	74.1	23.2	18.2	8.2	1.3	7.8	1.8	224.7	4.19	0.882
	185	30.2	28.4	-3.8	30	71.2	27.9	11.6	1	12.4	1.3	35.7	75.8	23.7	18.5	8.2	1.3	7.8	1.8	225.4	4.22	0.887
	190	30.1	28.4	-4.3	30.1	71.2	27.9	11.6	1	12.4	1.3	36	77.6	24	18.5	8.2	1.3	7.8	1.8	225.5	4.22	0.885
50% NC	195	30.1	28.4	-3.6	30.6	71.4	27.9	11.6	1	12.4	1.3	37.1	80.2	29.6	28.2	6.6	2.1	6.4	2.8	225.6	4.45	0.942
	200	30.1	28.4	-2.5	31.3	71.4	28	11.6	1	12.4	1.3	38.2	79.4	33	31.1	6.6	2.1	6.4	2.8	225.9	4.45	0.942
	205	30.2	28.4	-2.2	31.7	71.4	27.9	11.6	1	12.4	1.3	38.5	79.7	33.8	31.6	6.6	2.1	6.4	2.8	226.3	4.46	0.95
	210	30.2	28.4	-2.3	31.8	71.5	28	11.6	1	12.4	1.3	38.4	79.3	33.9	31.7	6.6	2.1	6.4	2.8	226.2	4.46	0.94
	215	30.1	28.6	-2.4	31.8	71.7	28	11.6	1	12.4	1.3	38.3	79	33.9	31.7	6.6	2.1	6.4	2.8	226.3	4.46	0.944
	220	30.1	28.6	-2.5	31.8	71.7	27.8	11.6	1	12.4	1.3	38.1	110	33.8	31.6	6.6	2.1	6.4	2.8	226.6	4.45	0.946

Var. XV LS	time (menit)	t.ruang (°C)	t.kabin (°C)	High Stage (R-290: 166gr)								Low Stage (Ethane:100gr - CO2:50gr)								Voltage (volt)	Arus (ampere)	Daya (kw)
				Temperature (°C)				Pressure (bar abs)				Temperature (°C)				Pressure (bar abs)						
				Evaporator in	Suction H	Discharge	Condensor out	Condensor out	Suction H	Discharge	Evaporator in	Suction L	Discharge L	Condens	Evaporat	Discharge LS	Suction L	Condensor	Evaporator in LS			
Normally Closed	1	30.6	29.1	-4.9	27.9	70.8	27.8	11.6	1.0	11.6	1.3	32.6	45.9	16.3	10.2	8.5	0.7	8.9	0.9	224.9	3.8	0.8
75% NC	2	30.2	28.5	-4.0	29.7	71.2	27.9	11.6	1.0	11.6	1.3	35.3	73.4	22.6	17.8	7.8	1.3	8.2	1.8	225.0	4.2	0.9
50% NC	3	30.1	28.5	-2.6	31.5	71.5	27.9	11.6	1.0	11.6	1.3	38.1	84.6	33.0	31.0	6.4	2.1	6.6	2.8	226.2	4.5	0.9

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Var. XV LS	time (menit)	t.ruang (°C)	t.kabin (°C)	High Stage (R-290: 166gr)								Low Stage (propana:50gr - CO2:25gr)								Voltage (volt)	Arus (ampere)	Daya (kw)	
				Temperature (°C)				Pressure (bar abs)				Temperature (°C)				Pressure (bar abs)							
				Evaporator in	Suction H	Discharge	Condensor out	Condensor out	Suction H	Discharge	Evaporator in	Suction L	Discharge L	Condensc	Evaporato	Discharge LS	Suction L	Condensor	Evaporator in LS				
HS ON	0	31.2	29	29.1	28.4	28.3	29.7	6.3	6.3	6.3	6.3	30.8	31.1	30.5	31.1	3.2	3	3	3	3.2	0	0	0
Normally Closed	5	31.2	29	22	28.4	32.1	29.7	11.6	0.93	12.4	1.3	31	31.1	30.4	30.9	3.2	3	3	3	3.2	228.7	2.04	0.426
	10	31.3	29	19.3	28.6	36.9	29.6	11.6	0.93	12.4	1.3	31	31.1	30.4	30.9	3.2	3	3	3	3.2	222.2	1.99	0.415
	15	31.4	29	15.5	28.9	45.6	29.5	11.6	0.93	12.4	1.3	31.3	31.2	30.4	31	3.2	3	3	3	3.2	222.3	1.96	0.404
	20	31.5	29.3	14.1	29	47.9	29.6	11.6	0.93	12.4	1.3	31.5	31.3	30.4	30.9	3.2	3	3	3	3.2	222.3	1.935	0.395
	25	31.5	29.3	12.5	29.1	52.2	29.6	11.6	0.93	12.4	1.3	31.6	31.5	30.4	30.9	3.2	3	3	3	3.2	223.6	1.92	0.397
	30	31.5	29.3	10.7	29.1	54.9	29.5	11.6	0.93	12.4	1.3	31.8	31.5	30.4	30.9	3.2	3	3	3	3.2	223.7	1.92	0.397
	35	31.5	29.3	9.4	29.1	57.9	29.5	11.6	0.93	12.4	1.3	32	31.7	30.4	30.9	3.2	3	3	3	3.2	223.8	1.914	0.396
	40	31.5	29.3	8.5	29.2	59.4	29.5	11.6	0.93	12.4	1.3	32.1	31.8	30.4	30.9	3.2	3	3	3	3.2	225	1.92	0.4
	45	31.5	29.3	7.1	29.1	61.1	29.5	11.6	0.93	12.4	1.3	32.1	31.8	30.3	30.9	3.2	3	3	3	3.2	226.4	1.93	0.404
	50	31.5	29.3	4.9	29	63.2	29.4	11.6	0.93	12.4	1.3	32.2	31.8	30.3	30.8	3.2	3	3	3	3.2	225.9	1.94	0.4
	55	31.5	29.3	4.1	29	64.5	29.2	11.6	1	12.4	1.3	32.2	31.8	30.2	30.7	3.2	3	3	3	3.2	226.5	1.94	0.402
	60	31.5	29.3	3.2	28.8	65.7	29	11.6	1	12.4	1.3	32.2	31.8	30.1	30.6	3.2	3	3	3	3.2	227.7	1.96	0.406
	65	31.5	29.3	1.5	28.7	66.7	28.8	11.6	1	12.4	1.3	32.2	31.8	30	30.5	3.2	3	3	3	3.2	227.4	1.96	0.409
	70	31.3	29.3	0.6	28.5	67.4	28.6	11.6	1	12.4	1.3	32.1	31.7	29.8	30.4	3.2	3	3	3	3.2	227	1.96	0.408
	75	31.3	29.3	-0.6	28.4	68.3	28.5	11.6	1	12.4	1.3	32.2	31.7	29.7	30.4	3.2	3	3	3	3.2	227.9	1.97	0.41
	80	31.2	29.3	-1.1	28.1	69	28.6	11.6	1	12.4	1.3	32	31.7	29.6	30.4	3.2	3	3	3	3.2	224.7	1.94	0.406
	85	31.1	29.3	-1.5	28.2	69.3	28.6	11.6	1	12.4	1.3	32	31.7	29.6	30.3	3.2	3	3	3	3.2	225.7	1.95	0.408
	90	31.1	29.3	-2.2	28.1	69.6	28.5	11.6	1	12.4	1.3	32	31.6	29.5	30.2	3.2	3	3	3	3.2	224.8	1.95	0.407
	95	31.1	29.3	-3	27.9	69.9	28.2	11.6	1	12.4	1.3	31.9	31.5	29.4	30.2	3.2	3	3	3	3.2	225	1.96	0.407
	100	31	29.3	-3.9	27.8	70.1	28.1	11.6	1	12.4	1.3	32	31.5	29.3	30.2	3.2	3	3	3	3.2	225.9	1.97	0.409
	105	31	29.3	-4.1	27.7	70.2	27.9	11.6	1	12.4	1.3	31.9	31.5	29.2	30.1	3.2	3	3	3	3.2	225.7	1.97	0.409
	110	31	29.3	-4.6	27.6	70.3	28	11.6	1	12.4	1.3	31.8	31.4	29.2	30.1	3.2	3	3	3	3.2	227	1.96	0.413
	115	30.9	29.3	-5.3	27.5	70.6	27.9	11.6	1	12.4	1.3	31.9	31.4	29.1	30.1	3.2	3	3	3	3.2	226.4	1.97	0.412
	120	30.9	29.3	-5.9	27	70.3	27.8	11.6	1	12.4	1.3	31.9	31.4	29.1	30.1	3.2	3	3	3	3.2	226	1.98	0.413
	125	30.8	29.1	-5.9	27.4	70.7	27.7	11.6	1	12.4	1.3	32	31.3	29.1	30.1	3.2	3	3	3	3.2	226	1.98	0.413
	130	30.8	29.3	-5.8	27.3	70.7	28	11.6	1	12.4	1.3	32	31.3	29	30	3.2	3	3	3	3.2	226	1.97	0.413

Var. XV LS	time (menit)	t.ruang (°C)	t.kabin (°C)	High Stage (R-290: 166gr)								Low Stage (propana:50gr - CO2:25gr)								Voltage (volt)	Arus (ampere)	Daya (kw)
				Temperature (°C)				Pressure (bar abs)				Temperature (°C)				Pressure (bar abs)						
				Evaporator in	Suction H	Discharge	Condensor out	Condensor out	Suction H	Discharge	Evaporator in	Suction L	Discharge L	Condensc	Evaporato	Discharge LS	Suction L	Condensor	Evaporator in LS			
Normally Closed	135	30	28.6	-2.2	30.2	71.7	27.7	11.6	1	12.4	1.3	35.5	69.2	19.7	0.1	13.4	0.93	13	1	223.9	3.83	0.798
	140	30	28.4	-2.9	29.9	71.3	27.6	11.6	1	12.4	1.3	34.8	72.1	18.9	-2.5	13.4	0.93	13	1	224.2	3.85	0.81
	145	30	28.1	-3	29.6	71.4	27.5	11.6	1	12.4	1.3	34.9	73	18.5	-2.8	13.4	0.93	13	1	224	3.85	0.8
	150	30	28	-2.8	29.6	71.4	27.5	11.6	1	12.4	1.3	34.9	74	18.4	-3.2	13.4	0.93	13	1	224.5	3.86	0.82
	155	30	27.7	-2.9	29.4	71.3	27.5	11.6	1	12.4	1.3	34.8	75	18.1	-3.8	13.4	0.93	13	1	224.4	3.86	0.81
	160	30	27.5	-3.1	29.4	71.2	27.5	11.6	1	12.4	1.3	34.7	75.7	18.1	-3.9	13.4	0.93	13	1	224.4	3.87	0.802
75% NC	165	29.8	27.5	-2.8	30.6	71.1	27.6	11.6	1	12.4	1.3	37.5	87.9	30.4	20.9	13.4	1.9	13	2.4	223.8	4.93	1.049
	170	29.8	27.3	-0.9	31.3	71.3	27.9	11.6	1	12.4	1.3	38.8	87.6	33.6	23	13.4	1.9	13	2.4	223.9	4.93	1.047
	175	29.8	27.3	-1	31.6	71.3	27.9	11.6	1	12.4	1.3	39.1	87.9	34.5	23.7	13.4	1.9	13	2.4	223.7	4.94	1.049
	180	29.7	27.5	-0.8	31.8	71.3	27.8	11.6	1	12.4	1.3	39.3	87.6	35	24.3	13.4	1.9	13	2.4	223.4	4.96	1.047
	185	29.7	27.5	-0.4	31.9	71.4	27.9	11.6	1	12.4	1.3	39.4	87.8	35	24.5	13.4	1.9	13	2.4	223.5	4.95	1.047
	190	29.8	27.5	-0.4	31.9	71.2	27.9	11.6	1	12.4	1.3	39.4	88.1	35.4	24.7	13.4	1.9	13	2.4	223.9	4.93	1.049
50% NC	195	29.7	28	0.6	33.1	71.3	27.9	11.6	1	12.4	1.3	40.9	83.8	48.4	41.9	10.8	3	10.6	4.1	224.7	5.38	1.148
	200	29.6	28.1	0.7	33.3	71.5	27.5	11.6	1	12.4	1.3	40.8	83.2	48.5	41.6	10.8	3	10.6	4.1	224.6	5.37	1.149
	205	29.7	28.4	0.6	33.5	71.9	28	11.6	1	12.4	1.3	40.3	81.3	47.2	40.7	10.8	3	10.6	4.1	225.2	5.36	1.15
	210	29.8	28.6	1	33	71.7	28	11.6	1	12.4	1.3	40.4	80.1	46.9	40.5	10.8	3	10.6	4.1	224.5	5.33	1.147
	215	29.8	29	0.8	33.5	71.9	27.8	11.6	1	12.4	1.3	40.1	79.4	46.5	40.4	10.8	3	10.6	4.1	224.7	5.35	1.143
	220	29.8	29.3	0.7	33.5	71.9	27.8	11.6	1	12.4	1.3	40.3	110	46.2	40.5	10.8	3	10.6	4.1	224.7	5.36	1.144

Var. XV LS	time (menit)	t.ruang (°C)	t.kabin (°C)	High Stage (R-290: 166gr)								Low Stage (Ethane:100gr - CO2:50gr)								Voltage (volt)	Arus (ampere)	Daya (kw)
				Temperature (°C)				Pressure (bar abs)				Temperature (°C)				Pressure (bar abs)						
				Evaporator in	Suction H	Discharge	Condensor out	Condensor out	Suction H	Discharge	Evaporator in	Suction L	Discharge L	Condensc	Evaporato	Discharge LS	Suction L	Condensor	Evaporator in LS			
Normally Closed	1	30.0	28.1	-2.8	29.7	71.4	27.6	11.6	1.0	11.6	1.3	34.9	73.2	18.6	-2.7	13.0	13.4	1.0	224.2	3.9	0.8	
75% NC	2	29.8	27.4	-1.1	31.5	71.3	27.8	11.6	1.0	11.6	1.3	38.9	87.8	34.0	23.5	1.9	13.0	13.4	2.4	223.7	4.9	1.0
50% NC	3	29.7	28.6	0.7	33.3	71.7	27.8	11.6	1.0	11.6	1.3	40.5	86.3	47.3	40.9	10.6	3.0	10.8	4.1	224.7	5.4	1.1

duracool

data campuran r-290(166gr):c3h8 - co2 (50gr : 50gr)

03.12.08

19:20

Var. XV LS	time (menit)	t.ruang (°C)	t.kabin (°C)	High Stage (R-290: 166gr)								Low Stage (propana:50gr - CO2:50gr)								Voltage (volt)	Arus (ampere)	Daya (kw)
				Temperature (°C)				Pressure (bar abs)				Temperature (°C)				Pressure (bar abs)						
				Evaporator in	Suction H	Discharge H	Condensor out	Condensor out	Suction H	Discharge H	Evaporator in	Suction L	Discharge L	Condens	Evaporat	Discharge LS	Suction L	Condensor	Evaporator in LS			
HS ON	0	31.2	29	29.1	28.4	28.3	29.7	6.3	6.3	6.3	6.3	30.8	31.1	30.5	31.1	3.2	3	3	3.2	0	0	0
Normally Closed	5	31.2	29	22	28.4	32.1	29.7	11.6	0.93	12.4	1.3	31	31.1	30.4	30.9	3.2	3	3	3.2	228.7	2.04	0.426
	10	31.3	29	19.3	28.6	36.9	29.6	11.6	0.93	12.4	1.3	31	31.1	30.4	30.9	3.2	3	3	3.2	222.2	1.99	0.415
	15	31.4	29	15.5	28.9	45.6	29.5	11.6	0.93	12.4	1.3	31.3	31.2	30.4	31	3.2	3	3	3.2	222.3	1.96	0.404
	20	31.5	29.3	14.1	29	47.9	29.6	11.6	0.93	12.4	1.3	31.5	31.3	30.4	30.9	3.2	3	3	3.2	222.3	1.935	0.395
	25	31.5	29.3	12.5	29.1	52.2	29.6	11.6	0.93	12.4	1.3	31.6	31.5	30.4	30.9	3.2	3	3	3.2	223.6	1.92	0.397
	30	31.5	29.3	10.7	29.1	54.9	29.5	11.6	0.93	12.4	1.3	31.8	31.5	30.4	30.9	3.2	3	3	3.2	223.7	1.92	0.397
	35	31.5	29.3	9.4	29.1	57.9	29.5	11.6	0.93	12.4	1.3	32	31.7	30.4	30.9	3.2	3	3	3.2	223.8	1.914	0.396
	40	31.5	29.3	8.5	29.2	59.4	29.5	11.6	0.93	12.4	1.3	32.1	31.8	30.4	30.9	3.2	3	3	3.2	225	1.92	0.4
	45	31.5	29.3	7.1	29.1	61.1	29.5	11.6	0.93	12.4	1.3	32.1	31.8	30.3	30.9	3.2	3	3	3.2	226.4	1.93	0.404
	50	31.5	29.3	4.9	29	63.2	29.4	11.6	0.93	12.4	1.3	32.2	31.8	30.3	30.9	3.2	3	3	3.2	225.9	1.94	0.4
	55	31.5	29.3	4.1	29	64.5	29.2	11.6	1	12.4	1.3	32.2	31.8	30.2	30.7	3.2	3	3	3.2	226.5	1.94	0.402
	60	31.5	29.3	3.2	28.8	65.7	29	11.6	1	12.4	1.3	32.2	31.8	30.1	30.6	3.2	3	3	3.2	227.7	1.96	0.406
	65	31.5	29.3	1.5	28.7	66.7	28.8	11.6	1	12.4	1.3	32.2	31.8	30	30.5	3.2	3	3	3.2	227.4	1.96	0.409
	70	31.3	29.3	0.6	28.5	67.4	28.6	11.6	1	12.4	1.3	32.1	31.7	29.8	30.4	3.2	3	3	3.2	227	1.96	0.408
	75	31.3	29.3	-0.6	28.4	68.3	28.5	11.6	1	12.4	1.3	32.2	31.7	29.7	30.4	3.2	3	3	3.2	227.9	1.97	0.41
	80	31.2	29.3	-1.1	28.1	69	28.6	11.6	1	12.4	1.3	32	31.7	29.6	30.4	3.2	3	3	3.2	224.7	1.94	0.406
	85	31.1	29.3	-1.5	28.2	69.3	28.6	11.6	1	12.4	1.3	32	31.7	29.6	30.3	3.2	3	3	3.2	225.7	1.95	0.408
	90	31.1	29.3	-2.2	28.1	69.6	28.5	11.6	1	12.4	1.3	32	31.6	29.5	30.2	3.2	3	3	3.2	224.8	1.95	0.407
	95	31.1	29.3	-3	27.9	69.9	28.2	11.6	1	12.4	1.3	31.9	31.5	29.4	30.2	3.2	3	3	3.2	225	1.96	0.407
	100	31	29.3	-3.9	27.8	70.1	28.1	11.6	1	12.4	1.3	32	31.5	29.3	30.2	3.2	3	3	3.2	225.9	1.97	0.409
	105	31	29.3	-4.1	27.7	70.2	27.9	11.6	1	12.4	1.3	31.9	31.5	29.2	30.1	3.2	3	3	3.2	225.7	1.97	0.409
	110	31	29.3	-4.6	27.6	70.3	28	11.6	1	12.4	1.3	31.8	31.4	29.2	30.1	3.2	3	3	3.2	227	1.96	0.413
	115	30.9	29.3	-5.3	27.5	70.6	27.9	11.6	1	12.4	1.3	31.9	31.4	29.1	30.1	3.2	3	3	3.2	226.4	1.97	0.412
	120	30.9	29.3	-5.9	27	70.3	27.8	11.6	1	12.4	1.3	31.9	31.4	29.1	30.1	3.2	3	3	3.2	226	1.98	0.413
	125	30.8	29.1	-5.9	27.4	70.7	27.7	11.6	1	12.4	1.3	32	31.3	29.1	30.1	3.2	3	3	3.2	226	1.98	0.413
	130	30.8	29.3	-5.8	27.3	70.7	28	11.6	1	12.4	1.3	32	31.3	29	30	3.2	3	3	3.2	226	1.97	0.413

Var. XV LS	time (menit)	t.ruang (°C)	t.kabin (°C)	High Stage (R-290: 166gr)								Low Stage (propana:50gr - CO2:50gr)								Voltage (volt)	Arus (ampere)	Daya (kw)
				Temperature (°C)				Pressure (bar abs)				Temperature (°C)				Pressure (bar abs)						
				Evaporator in	Suction H	Discharge H	Condensor out	Condensor out	Suction H	Discharge H	Evaporator in	Suction L	Discharge L	Condens	Evaporat	Discharge LS	Suction L	Condensor	Evaporator in LS			
Normally Closed	135	29.3	29	-1.1	29.1	70.9	27	11.2	1	12.4	1.4	34.5	79.5	17.8	-0.1	18	1.3	12.2	1.4	224.2	4.33	0.991
	140	29.3	29	-0.9	29.2	70.6	27	11.2	1	12.4	1.4	34.6	80.2	17.7	-0.2	18	1.3	12.2	1.4	224.6	4.34	0.913
	145	29.3	29	-0.9	29.1	70.7	27	11.2	1	12.4	1.4	34.7	81	18	-0.1	18	1.3	12.2	1.4	226	4.33	0.911
	150	29.3	28.9	-0.8	29.2	70.7	27	11.2	1	12.4	1.4	34.8	82.1	18	-0.2	18	1.3	12.2	1.4	224.9	4.36	0.917
	155	29.3	28.6	-0.7	29.3	70.6	27.1	11.2	1	12.4	1.4	34.8	82.5	18.1	0.1	18	1.3	12.2	1.4	224	4.35	0.915
	160	29.3	28.6	-0.8	29.3	70.5	26.9	11.2	1	12.4	1.4	35	83.9	18.1	0.3	18	1.3	12.2	1.4	225.1	4.37	0.903
75% NC	165	29.2	28.1	0.2	30.3	70.3	27.3	11.2	1	12.2	1.4	36	91.1	22.3	6.2	18.8	1.7	18.6	2	224.1	4.9	1.034
	170	29.2	28.1	1.1	30.3	70.5	27.4	11.2	1	12.2	1.4	36.3	91.5	22.5	8	18.8	1.7	18.6	2	225.2	4.88	1.036
	175	29.2	28.1	1.3	30.8	70.7	27.7	11.2	1	12.2	1.4	37	93	24.4	9.1	18.8	1.7	18.6	2	224.3	4.89	1.043
	180	29.2	28	2.8	30.9	70.8	27.6	11.2	1	12.2	1.4	37.4	93.3	25.3	10.3	19	1.7	19	2	224.9	4.9	1.039
	185	29.2	27.7	2.6	31.1	70.9	27.6	11.2	1	12.2	1.4	37.6	93.2	25.7	10.4	19	1.7	19	2	225.2	4.87	1.036
	190	29.2	27.7	2.7	31.2	70.9	27.9	11.2	1	12.2	1.4	37.7	93	25.9	10.6	19	1.7	19	2	225.9	4.88	1.04
50% NC	195	29.1	28	3.6	33.3	1.2	27.7	11.2	1	12.2	1.4	43.1	101.5	51	40.5	17.4	3.1	17.4	4	224	6.33	1.35
	200	29.2	28.1	3.5	33.8	71.4	27.7	11.2	1	12.2	1.4	43.7	100.5	51.1	40.2	17.4	3.1	17.4	4	222.5	6.36	1.349
	205	29.2	28.1	3.8	34	71.4	27.7	11.2	1	12.2	1.4	43.6	99.5	51.1	40.3	17.4	3.1	17.4	4	223.7	6.33	1.345
	210	29.2	28.6	3.6	34.5	71.7	27.7	11.2	1	12.2	1.4	43.5	99.5	51	39.8	17.4	3.1	17.4	4	223.7	6.33	1.35
	215	29.2	28.9	4	34.3	71.6	27.7	11.2	1	12.2	1.4	43.2	99.1	50.7	39.8	17.4	3.1	17.4	4	223.7	6.29	1.345
	220	29.2	28.5	3.9	34.1	71.6	27.4	11.2	1	12.2	1.4	43.1	110	50.4	39.7	17.4	3.1	17.4	4	223.7	6.29	1.345

Var. XV LS	time (menit)	t.ruang (°C)	t.kabin (°C)	High Stage (R-290: 166gr)								Low Stage (propana:50gr - CO2:50gr)								Voltage (volt)	Arus (ampere)	Daya (kw)
				Temperature (°C)				Pressure (bar abs)				Temperature (°C)				Pressure (bar abs)						
				Evaporator in	Suction H	Discharge H	Condensor out	Condensor out	Suction H	Discharge H	Evaporator in	Suction L	Discharge L	Condens	Evaporat	Discharge LS	Suction L	Condensor	Evaporator in LS			
Normally Closed	1	29.3	28.9	-0.9	29.2	70.7	27.0	11.2	1.0	11.2	1.4	34.7	81.5	18.0	0.0	1.3	18.0	12.2	1.4	224.8	4.3	0.9
75% NC	2	29.2	28.0	1.8	30.8	70.7	27.6	12.2	1.0	12.2	1.4	37.0	92.5	24.4	9.1	1.7	18.9	18.8	2.0	224.9	4.9	1.0
50% NC	3	29.2	28.4	3.7	34.0	59.8	27.7	12.2	1.0	12.2	1.4	43.4	101.7	50.9	40.1	17.4	3.1	17.4	4.0	223.6	6.3	1.3

data campuran r22(700gr) : c2h6-co2 (100gr : 50gr) 25.11.08 16:00

Var. XV LS	time (menit)	t.ruang (°C)	t.kabin (°C)	High Stage (R-22: 700gr)								Low Stage (Ethane:100gr - CO2:50gr)								Voltage (volt)	Arus (ampere)	Daya (kw) kW
				Temperature (°C)				Pressure (bar abs)				Temperature (°C)				Pressure (bar abs)						
				Evaporator in	Suction H	Discharge H	Condensor out	Condensor out	Suction HS	Discharge	Evaporator in	Suction L	Discharge	Condensor	Evaporator	Discharge LS	Suction L	Condensor	Evaporator in LS			
HS ON	0	32.5	30.7	28.4	28.4	28.2	30	11.4	11.4	12.2	12.2	31.3	31	31.2	30.9	8.2	8.2	8.5	8.5	224.6	0.23	0.005
Normally Closed	5	33.5	28.7	-0.6	29.3	36.8	32.4	13.4	1	14.4	1.6	31.8	31.6	31.4	31.1	8.2	8.2	8.5	8.5	223.6	2.24	0.468
	10	33.8	28.8	-1.3	29.3	49.1	32.7	13.6	1	15	1.6	33	32.5	32.1	32	8.2	8.2	8.5	8.5	223	2.09	0.437
	15	33.4	228.8	-14.1	29.2	52.5	32.2	13.4	1	14.2	1.5	33.4	32.7	32.1	31.6	8.2	8.2	8.6	8.6	223.6	2.07	0.435
LS ON (HS Steady)	20	33.1	28.8	-15	28.5	55.4	31.6	13.2	1	14.2	1.6	33.4	32.6	31.9	31.6	8.2	8.2	8.6	8.6	224.6	2.06	0.432
	25	33.1	28.9	-15.3	28.2	58.9	31.2	13.2	1	14.1	1.5	33.4	32.3	31.4	31.1	8.2	8.2	8.6	8.6	229.7	2.04	0.425

Var. XV LS	time (menit)	t.ruang (°C)	t.kabin (°C)	High Stage (R-22: 700gr)								Low Stage (Ethane:100gr - CO2:50gr)								Voltage (volt)	Arus (ampere)	Daya (kw)
				Temperature (°C)				Pressure (bar abs)				Temperature (°C)				Pressure (bar abs)						
				Evaporator	Suction	Discharge	Condensor out	Condensor out	Suction HS	Discharge	Evaporator in	Suction L	Discharge	Condensor	Evaporator	Discharge LS	Suction L	Condensor	Evaporator in LS			
Normally Closed	30	31.9	-27.4	-9.6	29.7	89.4	33.1	15.2	0.33	19	1.5	40.1	89.9	1.4	-49.8	19.6	0.53	19	0.33	222.7	3.72	0.757
	35	31.8	-25	-11.3	29.8	87.4	32.3	14.4	0.87	17.8	1.5	40.2	81.8	-2.2	-49.8	20.6	1.3	17.8	0.87	221.9	4.75	0.989
	40	31.6	-21	-12.3	29.7	86.7	32.2	14.2	0.33	17.4	1.2	40	76.4	-3.5	-50	17.4	0.53	16.6	0.33	222.9	3.43	0.888
	45	31.5	-29.2	-10.2	29.4	88.7	33.2	16	2.6	25.6	1.8	38.6	88.2	-1.6	-50	25.6	1.2	25	2.6	222.9	6.12	1.307
	50	31.5	-28	-9.7	29.5	86.7	33	13.6	0.33	17.4	1.2	40	76.4	-1.5	-50	17.4	0.53	16.6	0.33	222.7	3.5	0.667
	55	31.5	-28	-9.3	29.3	90.1	34.1	15.4	1.1	22	1.7	37.9	88.2	-1.8	-50	22	0.87	21	1.1	222	4.65	0.998
60	31.5	-25.1	-11.7	29.2	86.3	31.6	14.4	1.2	19.6	1.4	39.1	83.4	-4.1	-50	19.6	0.8	18.6	1.2	221	4.45	0.913	
75% NC	65	31.1	-36.1	-9.1	29.1	90.2	33.8	15.8	1.3	22.6	1.8	37.7	91.8	-1.8	-50	23.2	1.2	22.6	1.3	223	5.46	1.152
	70	31	-38.3	-9.2	29.1	90.1	33.9	15.4	1.4	22.4	1.7	37.7	91.8	-2.4	-50	22.4	1.1	21.4	1.4	222.9	4.98	1.05
	75	31	-40.3	-9.8	29.1	89.5	33.4	15.2	1.2	21	1.7	38.2	92.4	-3.2	-50	21	1.1	20.6	1.2	223.5	4.87	1.01
	80	31	-39.8	-9.8	29.2	89.2	33.1	15	1.2	20.6	1.6	38	88.5	-4.2	-50	20.6	1.6	20	1.2	223	4.42	0.934
	85	30.7	-38.9	-9	29	90.2	33.4	15.2	1.2	21	1.7	38.2	97.1	-0.8	-49.8	24.8	2.2	21	1.2	222.1	4.72	0.994
90	30.7	-40.5	-9	29	90.6	33.4	15.4	1.3	22.2	1.7	38.6	95.5	-1.7	-50	22.2	1.1	21.6	1.3	223.9	5	1.077	
50% NC	95	30.7	-40	-6.3	30	93.5	32.8	16.8	2	27.6	2.1	38.5	101.5	1.3	-49.7	27.6	1.9	27.6	2.1	223	6.09	1.308
	100	30.4	-40.8	-6	30	93.4	32.8	16.6	2	26.8	2	38.6	101.5	1	-49.8	27.4	1.9	26.8	2	223	6.04	1.293
	105	30.3	-42.2	-5.9	29.9	93.1	33.4	16.2	2	26.4	1.7	38.3	100.5	-0.5	-49.8	26.4	1.8	26	1.7	223	5.84	1.255
	110	30.2	-42	-5.5	29.9	93.3	33.6	16.6	2	27.8	2.4	38.6	103.5	1.1	-49.7	28	2.1	27.8	2.4	224	6.62	1.43
	115	30.2	-43.3	-5.5	30.2	93.4	33.9	16.6	2	27.6	2.2	38.6	105.5	1.4	-49.7	27.6	2	27.6	2.2	224	6.3	1.361
120	30.2	-43.3	-5.4	30.3	93.7	34.1	16.6	2	27.6	2.2	38.6	105.5	1.1	-49.8	27.6	2	27.4	2.1	224	6.25	1.353	

Var. XV LS	time (menit)	t.ruang (°C)	t.kabin (°C)	High Stage (R-22: 700gr)								Low Stage (Ethane:100gr - CO2:50gr)								Voltage (volt)	Arus (ampere)	Daya (kw)
				Temperature (°C)				Pressure (bar abs)				Temperature (°C)				Pressure (bar abs)						
				Evaporator in	Suction H	Discharge H	Condensor out	Condensor out	Suction HS	Discharge	Evaporator in	Suction L	Discharge	Condensor	Evaporator	Discharge LS	Suction L	Condensor	Evaporator in LS			
Normally Closed	1	31.6	-26.2	-10.6	29.5	87.9	32.8	14.7	1.0	19.8	1.5	39.4	83.5	-1.9	-49.9	20.3	0.8	19.2	1.0	222.3	4.4	0.931
75% NC	2	30.9	-39.0	-9.3	29.1	90.0	33.5	15.3	1.3	21.6	1.7	38.1	92.9	-2.4	-50.0	22.4	1.4	21.2	1.3	223.1	4.9	1.036
50% NC	3	30.3	-41.9	-5.8	30.1	93.4	33.4	16.6	2.0	27.3	2.1	38.5	103.0	0.9	-49.8	27.4	2.0	27.2	2.1	223.5	6.2	1.333

data mix c2h6(60gr):co2(40gr)

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Var. XV LS	time (menit)	t.lingkungan		t.kabin		High Stage (R-22: 700gr)								Low Stage c2h6(60gr):co2(40gr)								Voltage (volt)	Arus (ampere)	Daya (kw)
		RH	(°C)	RH	(°C)	Temperature (°C)				Pressure (bar abs)				Temperature (°C)				Pressure (bar abs)						
						Evaporator in	Suction HS	Discharge H	Condensor out H	Condensor out H	Suction HS	Discharge	Evaporator in H	Suction LS	Discharge	Condensor	Evaporato	Condensor out	Suction LS	Discharge	Evaporator in LS			
HS ON	0	87	26.3	84	29.4	28.4	28.4	28.2	30	11.4	11.4	12.2	12.2	31.3	31	31.2	30.9	8.2	8.2	8.5	8.5	224.6	0.23	0.005
FO	5	87	26.3	84	29.4	-0.6	29.3	36.8	32.4	13.4	1	14.4	1.6	31.8	31.6	31.4	31.1	8.2	8.2	8.5	8.5	223.6	2.24	0.468
	10	87	26.3	84	29.4	-13	29.3	49.1	32.7	13.6	1	15	1.6	33	32.5	32.1	32	8.2	8.2	8.5	8.5	223	2.09	0.437
	15	87	26.3	84	29.4	-14.1	29.2	52.5	31.2	13.4	1	14.2	1.5	33.4	32.7	32.1	31.6	8.2	8.2	8.6	8.6	223.6	2.07	0.435
	20	87	26.3	84	29.1	-15	28.5	55.4	31.6	13.2	1	14.2	1.6	33.4	32.6	31.9	31.6	8.2	8.2	8.6	8.6	224.6	2.06	0.432
LS ON (HS Steady)	25	87	26.3	84	29.1	-15.3	28.2	58.9	31.2	13.2	1	14.1	1.5	33.4	32.3	31.4	31.1	8.2	8.2	8.6	8.6	229.7	2.04	0.425

Var. XV LS	time (menit)	t.lingkungan		t.kabin		High Stage (R-22: 700gr)								Low Stage c2h6(60gr):co2(40gr)								Voltage (volt)	Arus (ampere)	Daya (kw)
		RH	(°C)	RH	(°C)	Temperature (°C)				Pressure (bar abs)				Temperature (°C)				Pressure (bar abs)						
						Evaporator in	Suction HS	Discharge H	Condensor out H	Condensor out H	Suction HS	Discharge	Evaporator in H	Suction LS	Discharge	Condensor	Evaporato	Condensor out	Suction LS	Discharge	Evaporator in LS			
FO	30	87	26.3	84	25.1	-12.8	22.1	61.4	27	13.4	1.4	14.3	2	28	39	-1.6	-64.2	18.4	1.3	18.6	1.4	226	5.18	1.11
	35	87	26.3	84	24.1	-12.1	22.8	65.4	27.3	13.2	1.4	14.3	2	28.8	45.6	-4.5	-67.5	17.8	1	18	1.1	226	4.68	1.1
	40	87	26.3	84	23.1	-12.4	23.2	67.7	26.9	12.8	1.2	13.8	1.8	29.6	48.3	-7	-71.1	16	0.8	16.4	0.8	227	4.05	0.99
	45	87	26.3	84	22.7	-12.7	23.5	69.7	26.8	13	1.3	14	1.9	30.1	52.3	-6.8	-72.8	16.8	0.87	16.8	0.87	227	4.31	0.91
	50	87	26.3	84	22.2	-13	23.5	71	26.6	13	1.3	13.8	1.9	30.3	55.1	-6.8	-69.3	16.8	0.87	16.8	0.87	227	4.32	0.91
	55	87	26.3	84	22	-13	23.4	71.7	26.5	13	1.3	13.8	1.8	30.4	56.1	-7.2	-70.5	16	0.73	16.4	0.73	226	4.14	0.9
	60	86	26.3	84	21.6	-12.9	23.5	72.1	26.5	13	1.3	13.8	1.8	30.5	56.9	-7.6	-71.7	16	0.73	16.4	0.87	227	4.08	0.87
	65	86	26.3	84	21.2	-13.3	23.5	73	26.4	13	1.3	13.8	1.8	30.8	58.6	-8	-70.2	16	0.73	16.4	0.73	228	4.16	0.88
	70	86	26.3	84	20.7	-13.5	23.6	73.5	26.4	13	1.3	13.8	1.8	31.1	59.3	-8.2	-71.7	16	0.73	16.4	0.73	228	4.1	0.85
25% FC	75	86	26.2	83	20.2	-12.1	23.8	76.2	26.7	13.8	1.5	14.6	2.1	31	69.2	-4.6	-64.6	19.4	1.4	19.2	1.6	227	5.23	1.12
	80	86	26.2	83	19.8	-10.8	23.9	78.1	27.1	13.8	1.5	14.6	2.1	31.3	72	-4.1	-65.4	19.2	1.4	19.2	1.5	228	5.08	1.1
	85	86	26.2	83	19.5	-10.5	24.1	78.9	27.3	13.8	1.5	14.7	2.1	31.6	73.2	-4.2	-66	19	1.3	19	1.4	225	5.01	1.1
	90	86	26.2	83	18.7	-10.4	24.4	80.1	27.7	14	1.5	14.9	2.2	32.3	77.4	-3.9	-66.4	19.6	1.5	19.6	1.6	224	5.21	1.11
	95	86	26.2	83	18.1	-10.6	24.6	80.5	27.8	14	1.5	14.8	2.2	32.6	78.3	-4.2	-65.8	19.2	1.4	19.2	1.5	225	5.08	1.09
	100	86	26.2	83	17.7	-10.5	24.7	80.7	27.9	14	1.5	14.8	2.2	32.9	79	-4.4	-66	19.2	1.4	19.2	1.4	225	5.09	1.08
	105	86	26.2	83	16.5	-10.5	24.8	81.7	27.9	14	1.5	14.8	2.2	33.3	83.7	-3.7	-66	19.2	1.4	19.2	1.4	225	5.08	1.08
50% FC	110	86	26.2	83	13.8	-7.8	27	85.1	28.7	15.6	1.8	16	2.5	38.8	100.5	0.9	-39.1	22.6	3.1	23.2	3.8	222	7.66	1.64
	115	86	26.2	83	13.2	-7.3	27.5	85.7	29.1	15.8	1.8	16	2.5	39.9	101.5	1.5	-37.5	22.8	3.2	23.4	3.7	223	7.74	1.66
	120	86	26.2	83	12.6	-7.2	27.9	86.3	29.2	15.8	1.8	16.2	2.6	40.4	103.5	1.6	-38.1	22.8	3.1	23	3.7	223	7.63	1.64
	125	86	26.2	83	11.6	-7.2	28.1	86.4	29.3	15.8	1.8	16.2	2.6	40.7	105.5	1.5	-47	23	2.9	23	3.4	222	7.48	1.6
	130	86	26.2	83	11	-7.3	28	86.4	29.4	15.8	1.8	16.2	2.6	40.6	106.5	1.4	-51.1	22.8	2.9	23	3.3	222	7.33	1.57
	135	86	26	83	9.8	-7.1	28.1	87	29.6	15.8	1.8	16.2	2.6	40.5	107.5	1.5	-51.9	22.8	2.9	23	3.2	223	7.23	1.56
	140	86	26	83	8.4	-7.1	28.1	87.3	29.8	15.8	1.8	16.2	2.6	40.3	108.5	1.5	-52.5	22.8	2.9	23	3.2	223	7.36	1.59

Var. XV LS	time (menit)	t.ruang (°C)	t.kabin (°C)	High Stage (R-22: 700gr)								Low Stage (Ethane:75gr - CO2:50gr)								Voltage (volt)	Arus (ampere)	Daya (kw)	Frekuensi (Hz)
				Temperature (°C)				Pressure (bar abs)				Temperature (°C)				Pressure (bar abs)							
				Evaporato	Suction HS	Discharge HS	Condensor	Condensor	Suction HS	Discharge HS	Evaporato	Suction LS	Discharge LS	Condensor	Evaporato	Discharge	Suction LS	Condensor out	Evaporato				
FO	1	26.3	20.7	-13.5	23.6	73.5	26.4	13.0	1.3	13.8	1.8	31.1	59.3	-8.2	-71.7	16.4	0.73	16.0	0.73	226.9	4.3	0.947	50
25% FC	2	26.2	16.5	-10.5	24.8	81.7	27.9	14.0	1.5	14.8	2.2	33.3	83.7	-3.7	-66.0	19.2	1.4	19.2	1.4	225.6	5.1	1.097	50
50% FC	3	26.1	8.4	-7.1	28.1	87.3	29.8	15.8	1.8	16.2	2.6	40.3	108.5	1.5	-52.5	23.0	2.9	22.8	3.2	222.6	7.5	1.609	50

data pure c2h6 (100gr)

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Var. XV LS	time (menit)	t.lingkungan		t.kabin		High Stage (R-22: 700gr)								Low Stage (Ethane:100gr)								Voltage (volt)	Arus (ampere)	Daya (kw)
		RH	(°C)	RH	(°C)	Temperature (°C)				Pressure (bar abs)				Temperature (°C)				Pressure (bar abs)						
						Temp.Evapor	Temp.Sucti	Temp.Disch	Temp.Condens	Tek.Condens	Tek.Suctio	Tek.Discha	Tek.Evaporato	Suction LS	Discharge	Condense	Evaporato	Condensor out	Suction LS	Discharge	Evaporator in LS			
HS ON	0	78	28.6	71	29.4	28.4	28.4	28.2	30	11.4	11.4	12.2	12.2	31.3	31	31.2	30.9	8.2	8.2	8.5	8.5	224.6	0.23	0.005
FO	5	78	28.6	72	29.4	-0.6	29.3	36.8	32.4	13.4	1	14.4	1.6	31.8	31.6	31.4	31.1	8.2	8.2	8.5	8.5	223.6	2.24	0.468
	10	79	28.6	72	29.4	-13	29.3	49.1	32.7	13.6	1	15	1.6	33	32.5	32.1	32	8.2	8.2	8.5	8.5	223	2.09	0.437
	15	80	28.6	72	29.4	-14.1	29.2	52.5	32.2	13.4	1	14.2	1.5	33.4	32.7	32.1	31.6	8.2	8.2	8.6	8.6	223.6	2.07	0.435
	20	80	28.6	73	29.1	-15	28.5	55.4	31.6	13.2	1	14.2	1.6	33.4	32.6	31.9	31.6	8.2	8.2	8.6	8.6	224.6	2.06	0.432
LS ON (HS Steady)	25	81	28.6	73	29.1	-15.3	28.2	58.9	31.2	13.2	1	14.1	1.5	33.4	32.3	31.4	31.1	8.2	8.2	8.6	8.6	229.7	2.04	0.425

Var. XV LS	time (menit)	t.lingkungan		t.kabin		High Stage (R-22: 700gr)								Low Stage (Ethane:100gr)								Voltage (volt)	Arus (ampere)	Daya (kw)	
		RH	(°C)	RH	(°C)	Temperature (°C)				Pressure (bar abs)				Temperature (°C)				Pressure (bar abs)							
						Evaporator in	Suction HS	Discharge HS	Condensor out	Condensor out	Suction HS	Discharge	Evaporator in	Suction LS	Discharge	Condense	Evaporato	Condensor out	Suction LS	Discharge	Evaporator in LS				
FO	30	82	28.5	73	29.1	-13.6	23.9	60.1	27.9	15.8	2	16.6	2.8	29.4	33.5	12.5	-53.5	19.2	1.8	18.8	2.3	226	6.19	1.34	
	35	82	28.5	73	26.4	-7.1	24.5	73	31.9	15.4	1.8	16.7	2.5	31.1	44	3.9	-66.5	13.8	0.64	15	0.67	227	5.14	1.1	
	40	82	28.5	73	25.1	-8.7	25.2	74.5	30.6	14.8	1.8	15.8	2.4	32.3	48.5	-1.3	-66.7	15	1.3	15.4	1.5	227	5.22	1.11	
	45	82	28.4	73	23.6	-9	24.9	76.2	29.9	14.2	1.5	15.2	2.1	32.2	54.1	-2.3	-67.8	13	0.8	14.2	0.8	228	4.38	0.93	
	50	82	28.3	74	23.1	-9.2	24.7	75.6	29	13.6	1.4	14.6	2	31.7	55.1	-3	-68.2	12.4	0.73	13.8	0.73	228	4.11	0.87	
	55	82	28.2	74	22.8	-10	24.5	75.5	28.6	13.4	1.4	14.4	2	31.5	54.5	-3.7	-69.2	12	0.73	12.4	0.67	228	4.26	0.91	
	60	82	28	74	22.5	-10.2	24.4	75.5	28.1	13.4	1.4	14.4	2	31.4	56.1	-4.1	-69.2	12	0.73	12.2	0.73	228	4.1	0.86	
	65	82	27.9	74	22.3	-11.1	24.1	76.3	27.4	13.4	1.4	14.2	2	30.9	56.9	-4.8	-69.2	11.8	0.73	12.2	0.73	228	4.11	0.86	
	25% FC	70	84	27.7	76	20.5	-7.7	23.9	81.1	28.8	15.6	2.1	16.6	2.9	30.8	69.3	1.2	-52.7	20	2	19.5	2.3	227	6.32	1.38
		75	84	27.4	76	18.3	-5.9	24.7	83.6	30.1	16	2.1	17	2.9	32.8	78.1	4.6	-53.7	20.4	1.9	20	2.1	227	6.22	1.36
80		84	27.3	76	17.1	-5.5	25	84.6	30.4	16	2.1	17	2.9	34.1	82.9	4.4	-53.8	20.4	1.8	20.1	2.1	227	6.23	1.35	
85		84	27.2	76	6.6	-4.7	26.7	87.2	32	16.2	2.2	17.6	3	37	99.2	6	-53.4	20.4	1.9	20.2	2.1	224	6.39	1.38	
90		84	27.2	77	5.8	-4.5	27	87.8	32.7	16.2	2.2	17.6	3	37.5	97.9	5.7	-53.8	20.2	1.8	20.2	2.1	225	6.43	1.38	
95		84	27.1	77	4.8	-4.4	26.9	87.7	31.9	16.2	2.2	17.6	3	37.8	98.6	5.6	-54	20	1.8	20	2.1	225	6.31	1.37	
100	84	27	77	3.6	-4.4	27	88.1	32	16.2	2.2	17.6	3	37.9	99.5	5.4	-54.7	20	1.8	20	2.1	225	6.32	1.37		
50% FC	105	87	26.2	83	-3	-4.6	25.8	87.9	30	17	2.5	18.4	3.4	33.9	98.5	4.5	-43	21.8	3	21.4	3.8	222	7.95	1.71	
	110	87	26	83	-4.4	-3.8	26.1	88.5	30.5	17	2.5	18.2	3.4	34.3	99.4	4.9	-45.7	21.8	2.8	21.6	3.2	223	7.56	1.64	
	115	87	25.7	83	-6.7	-3.9	26.1	88.5	31.6	16.4	2.5	17.8	3.2	34.1	100.5	4.1	-49.9	20.6	2.4	20.4	2.8	223	7.08	1.53	
	120	87	25.7	83	-7.7	-3.8	26.1	88	31.4	16.2	2.4	17.6	3.2	33.7	101.5	3.6	-51.5	20	2.3	20	2.5	224	6.8	1.49	
	125	87	25.7	84	-9.4	-3.9	26	88.1	31.2	16.2	2.4	17.8	3.2	33.9	102.5	3.1	-50.7	20.4	2.3	20.2	2.6	225	6.93	1.5	
	130	87	25.6	84	-10.7	-3.8	25.6	88	31.3	16.2	2.4	17.6	3.1	33.5	102.5	2.5	-54.1	19.6	2	20.4	2.3	225	6.52	1.42	
	135	87	25.6	84	-12.5	-3.9	25.6	88.2	30.9	16.2	2.4	17.5	3.1	33.7	103.5	2.3	-53	19.4	2	20.2	2.2	225	6.41	1.39	

Var. XV LS	time (menit)	t.ruang (°C)	t.kabin (°C)	High Stage (R-22: 700gr)								Low Stage (Ethane:75gr - CO2:50gr)								Voltage (volt)	Arus (ampere)	Daya (kw)	Frekuensi (Hz)
				Temperature (°C)				Pressure (bar abs)				Temperature (°C)				Pressure (bar abs)							
				Evaporator	Suction HS	Discharge HS	Condensor	Condensor	Suction HS	Discharge HS	Evaporato	Suction LS	Discharge LS	Condensor	Evaporato	Discharge	Suction LS	Condensor out	Evaporato				
Normally Closed	1	28.3	22.3	-11.1	24.1	76.3	27.4	13.4	1.4	14.2	2.0	30.9	56.9	-4.8	-69.2	12.2	0.73	11.8	0.73	227.5	4.7	0.988	50
75% NC	2	27.3	3.6	-4.4	27.0	88.1	32.0	16.2	2.2	17.6	3.0	37.9	99.5	5.4	-54.7	20.0	1.8	20.0	2.1	225.7	6.3	1.370	50
50% NC	3	25.6	-12.5	-3.9	25.6	88.2	30.9	16.2	2.4	17.5	3.1	33.7	103.5	2.3	-53.0	20.2	2.0	19.4	2.2	223.9	7.0	1.526	50

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Var. XV LS	time (menit)	t.ruang (°C)	t.kabin (°C)	High Stage (R-290: 166gr)								Low Stage (Ethane:100gr - CO2:50gr)								Voltage (volt)	Arus (ampere)	Daya (kw)
				Temperature (°C)				Pressure (bar abs)				Temperature (°C)				Pressure (bar abs)						
				Evaporator in	Suction H	Discharge	Condensor out	Condensor out	Suction H	Discharge	Evaporator in	Suction L	Discharge L	Condens	Evaporato	Discharge LS	Suction L	Condensor	Evaporator in LS			
HS ON	0	30	30	27.4	20.5	25.2	27.9	7	6.8	7.4	7.4	28.4	28.3	28.7	29.3	10	10	9.6	9.5	0	0	0
Normally Closed	5	30	29.8	0.2	25.4	35.5	27.3	10.4	0.87	11.2	0.4	28.9	29.3	28.6	29	10	10	9.6	9.5	228.5	2.032	0.424
	10	30	28.8	-8.4	26	42.4	26.9	10.4	0.87	11.2	0.4	29.1	28.8	28.5	29	10	10	9.6	9.5	228.6	2.02	0.417
	15	30	29.6	-12.5	25.9	45.2	27.1	10.4	0.87	11.2	0.4	29.3	28.9	28.3	29	10	10	9.6	9.5	228.6	2	0.414
	20	30	29.6	-17	25.2	52.3	27.1	10.4	0.91	11.2	0.4	29.6	28.9	27.9	29	10	10	9.6	9.5	229.2	1.998	0.415
LS ON (HS Steady)	25	30	29.4	-17.5	25.1	53.9	27	10.4	0.91	11.2	0.4	29.8	29	27.8	29	10	10	9.6	9.5	229.4	1.989	0.416
Normally Closed	30	29	29.7	-17.5	25.3	57.7	26.9	10.6	0.93	11.4	0.5	30	34.3	9.6	-20	26.8	0.93	26.8	1	228	3.64	0.764
	35	29	29.6	-16.9	25.5	58.7	27	10.6	0.93	11.4	0.5	30.4	36.3	6.2	-60	26.8	0.67	26.4	0.87	228	3.46	0.703
	40	29	29.5	-16.8	25.9	60.7	27	10.6	0.93	11.4	0.5	30.7	30.2	5.2	-70.7	26	0.6	25.6	0.67	228	3.3	0.640
	45	29	29.4	-16.4	26.1	62.5	27	10.6	0.93	11.6	0.6	31.4	41.6	4.8	-58.5	27.2	0.73	26.6	0.8	228	3.5	0.701
	50	29	29.2	-16.8	26.2	63.7	27.4	10.8	1	11.6	0.6	31.7	44	4.4	-44.1	26.4	0.6	25.4	0.73	228	3.36	0.664
	55	29	29.1	-16.6	26	65.3	27.4	10.8	1	11.6	0.6	31.8	47.6	5.2	-55	26.8	0.73	26.4	0.8	227	3.6	0.730
	60	29	29	-16.9	25.9	66	27.2	10.8	1	11.6	0.6	32.9	45.9	4	-17	24.2	0.53	23.8	0.67	227	3.33	0.690
	65	29	28.8	-16.6	26.2	67	27.3	10.8	1	11.6	0.6	32.8	50.4	3.4	-82.8	26.8	0.73	25.8	0.87	228.1	3.53	0.720
	70	29	28.6	-16.4	26.2	67.5	27.3	10.8	1	11.6	0.6	33.1	51.1	3.3	-79	26.8	0.73	26.2	1	228	3.67	0.750
	75	29	28.5	-16.6	26	68.1	27.2	10.8	1	11.6	0.6	33.5	52.1	3.3	-80.4	26.8	0.8	26.5	1	227	3.69	0.750

Var. XV LS	time (menit)	t.ruang (°C)	t.kabin (°C)	High Stage (R-290: 166gr)								Low Stage (Ethane:100gr - CO2:50gr)								Voltage (volt)	Arus (ampere)	Daya (kw)
				Temperature (°C)				Pressure (bar abs)				Temperature (°C)				Pressure (bar abs)						
				Evaporator in	Suction H	Discharge	Condensor out	Condensor out	Suction H	Discharge	Evaporator in	Suction L	Discharge L	Condens	Evaporato	Discharge LS	Suction L	Condensor	Evaporator in LS			
Normally Closed	30	29	29.7	-17.5	25.3	57.7	26.9	10.6	0.93	11.4	0.5	30	34.3	9.6	-20	26.8	0.93	26.8	1	228	3.64	0.764
	35	29	29.6	-16.9	25.5	58.7	27	10.6	0.93	11.4	0.5	30.4	36.3	6.2	-60	26.8	0.67	26.4	0.87	228	3.46	0.703
	40	29	29.5	-16.8	25.9	60.7	27	10.6	0.93	11.4	0.5	30.7	30.2	5.2	-70.7	26	0.6	25.6	0.67	228	3.3	0.64
	45	29	29.4	-16.4	26.1	62.5	27	10.6	0.93	11.6	0.6	31.4	41.6	4.8	-58.5	27.2	0.73	26.6	0.8	228	3.5	0.701
	50	29	29.2	-16.8	26.2	63.7	27.4	10.8	1	11.6	0.6	31.7	44	4.4	-44.1	26.4	0.6	25.4	0.73	228	3.36	0.664
	55	29	29.1	-16.6	26	65.3	27.4	10.8	1	11.6	0.6	31.8	47.6	5.2	-55	26.8	0.73	26.4	0.8	227	3.6	0.73
	60	29	29	-16.9	25.9	66	27.2	10.8	1	11.6	0.6	32.9	45.9	4	-17	24.2	0.53	23.8	0.67	227	3.33	0.69
	65	29	28.8	-16.6	26.2	67	27.3	10.8	1	11.6	0.6	32.8	50.4	3.4	-82.8	26.8	0.73	25.8	0.87	228.1	3.53	0.72
	70	29	28.6	-16.4	26.2	67.5	27.3	10.8	1	11.6	0.6	33.1	51.1	3.3	-79	26.8	0.73	26.2	1	228	3.67	0.75
	75	29	28.5	-16.6	26	68.1	27.2	10.8	1	11.6	0.6	33.5	52.1	3.3	-80.4	26.8	0.8	26.5	1	227	3.69	0.75
75% NC	80	29	26.5	-15.2	27.3	69.7	27.4	11.2	1	12	0.7	34	77.2	8.1	-49.5	30.4	1.6	30	1.7	224.1	5.08	1.078
	85	29	26.5	-14.7	28.5	70.1	27.7	11.2	1	12	0.7	35.3	84.1	8.9	-45.8	30.6	1.6	30.4	1.7	224.6	5.08	1.075
	90	29	26.5	-14.9	28.6	70.8	27.7	11.2	1	12	0.7	36.2	89.1	9.2	-49.8	30.6	1.5	30.4	1.9	223.6	5.24	1.106
	95	29	25.5	-14.5	29	70.9	28.1	11.2	1	12	0.7	3.1	89.2	9.2	-53	30.8	1.6	30.8	1.7	224.5	5.22	1.1
	100	29	25.2	-14.7	29	71.1	28	11.2	1	12	0.7	36.3	90.6	9.1	-51.8	30.8	1.6	30.7	1.8	224.8	4.69	1.05
	105	29	25	-14.7	28.8	70.9	27.9	11.2	1	12	0.7	36.5	91.9	9.1	-50.9	30.8	1.6	30.7	1.8	224.8	5.08	1.08
50% NC	110	29	24.1	-14.7	29.4	71.4	26.6	11.2	1	12	0.7	37.1	101.5	17.4	-8.6	32.8	2.9	30.6	3.4	222	7.12	1.52
	115	29	23.9	-14.2	31.6	71.9	26.4	11.2	1	12	0.7	40.5	106.5	21.7	-7	33.2	2.8	33.2	3.2	223	6.98	1.5
	120	29	23.5	-14.2	31.7	71.7	26.7	11.2	1	12	0.7	41.1	108.5	22.3	-7	33.2	2.8	33.2	3.2	223	7.04	1.49
	125	28.9	23	-13.9	32	72	26.8	11.2	1	12	0.7	42.2	110	22.9	-7	33.2	2.8	33.2	3.2	224	7.05	1.51

Var. XV LS	time (menit)	t.ruang (°C)	t.kabin (°C)	High Stage (R-290: 166gr)								Low Stage (Ethane:100gr - CO2:50gr)								Voltage (volt)	Arus (ampere)	Daya (kw)
				Temperature (°C)				Pressure (bar abs)				Temperature (°C)				Pressure (bar abs)						
				Evaporator in	Suction H	Discharge	Condensor out	Condensor out	Suction H	Discharge	Evaporator in	Suction L	Discharge L	Condens	Evaporato	Discharge LS	Suction L	Condensor	Evaporator in LS			
Normally Closed	1	29.0	29.1	-16.8	25.9	63.7	27.2	11.5	1.0	11.5	0.6	31.8	43.4	4.9	-56.8	26.5	0.7	26.0	0.8	227.7	3.5	0.711
75% NC	2	29.0	25.9	-14.8	28.5	70.6	27.8	12.0	1.0	12.0	0.7	30.2	87.0	8.9	-50.1	30.7	1.6	30.5	1.8	224.4	5.1	1.082
50% NC	3	29.0	23.6	-14.3	31.2	71.8	26.6	12.0	1.0	12.0	0.7	40.2	106.6	21.1	-7.4	33.1	2.8	32.6	3.3	223.0	7.0	1.505

data campuran c2h6-co2 (50gr : 50gr) : r22(700gr) 24.11.08 19:45

Var. XV LS	time (menit)	t.ruang (°C)	t.kabin (°C)	High Stage (R-22: 700gr)								Low Stage (Ethane:50gr - CO2:50gr)								Voltage (volt)	Arus (ampere)	Daya (kW)
				Temperature (°C)				Pressure (bar abs)				Temperature (°C)				Pressure (bar abs)						
				Evaporator in	Suction H	Discharge H	Condensor out H	Condensor out H	Suction H	Discharge H	Evaporator in H	Suction L	Discharge L	Condensor L	Evaporator L	Condensor out L	Suction L	Discharge L	Evaporator in LS			
HS ON	0	28.5	30.7	28.4	28.4	28.2	30	11.4	11.4	12.2	12.2	31.3	31	31.2	30.9	8.2	8.2	8.5	8.5	224.6	0.23	0.005
Normally Closed	5	28.5	28.7	-0.6	29.3	36.8	32.4	13.4	1	14.4	1.6	31.8	31.6	31.4	31.1	8.2	8.2	8.5	8.5	223.6	2.24	0.468
	10	28.6	28.8	-13	29.3	49.1	32.7	13.6	1	15	1.6	33	32.5	32.1	32	8.2	8.2	8.5	8.5	223	2.09	0.437
	15	28.4	28.8	-14.1	29.2	52.5	32.2	13.4	1	14.2	1.5	33.4	32.7	32.1	31.6	8.2	8.2	8.6	8.6	223.6	2.07	0.435
	20	28.1	28.8	-15	28.5	55.4	31.6	13.2	1	14.2	1.6	33.4	32.6	31.9	31.6	8.2	8.2	8.6	8.6	224.6	2.06	0.432
LS ON (HS Steady)	25	28.1	28.9	-15.3	28.2	58.9	31.2	13.2	1	14.1	1.5	33.4	32.3	31.4	31.1	8.2	8.2	8.6	8.6	229.7	2.04	0.425

Var. XV LS	time (menit)	t.ruang (°C)	t.kabin (°C)	High Stage (R-22: 700gr)								Low Stage (Ethane:50gr - CO2:50gr)								Voltage (volt)	Arus (ampere)	Daya (kW)
				Temperature (°C)				Pressure (bar abs)				Temperature (°C)				Pressure (bar abs)						
				Evaporator in	Suction H	Discharge H	Condensor out H	Condensor out H	Suction H	Discharge H	Evaporator in H	Suction L	Discharge L	Condensor L	Evaporator L	Condensor out L	Suction L	Discharge L	Evaporator in LS			
Normally Closed	30	27.5	29	-13.3	24.6	75.9	27.6	12.8	1.2	13.6	1.8	30.3	38.9	-6.2	-49.7	16.4	0.8	17	0.8	225.4	4.15	0.867
	35	27.5	28.6	-13.5	24.8	75.8	26.4	12.4	1.1	13.4	1.7	30.8	42.3	-8.9	-49.7	16	0.6	16	0.33	226.4	3.71	0.767
	40	27.3	28.2	-13.8	24.8	75	25.9	12.4	1.1	13.1	1.6	31.2	44.8	-9.4	-49.7	16	1	15.1	N/A	226.5	3.83	0.845
	45	27.4	28.2	-13.8	24.9	75.3	26	12.4	1.1	13.4	1.7	31.2	47.1	-9.5	-49.7	16	0.73	16.4	0.73	226.5	3.75	0.765
	50	27.4	28.2	-13.3	24.7	76.3	26.4	12.8	1.2	13.6	1.8	31.3	53.5	-8.6	-49.7	16.6	0.73	17.4	N/A	227.5	3.46	0.871
	55	27.4	28	-13.2	25	76.8	26.5	12.4	1.1	13.4	1.7	31.3	55	-8.9	-49.7	16.6	0.73	17.4	1.7	226.7	4.27	0.903