Counter Current Vs * !: Pump speed = 35 approx. Nol. Yeading (AVR)=5.10 mass (1) = 8.53 kg time (1) = 20.05 sec mass (2) = 8.3 DKg time (2) = 19.99 sec

				•		
	AVR=	AVR=1.81	AVR=	AVR=	AVR=	AVR=
100	Mass 1=1.50	Mass 1= 5.87	Mass 1=6.94	Mass 1=14.15	Mass 1=12.44	Mass 1=9.78
1		time 1= 53.02	time 1=30.03	time 1 = 40.05	time 1 = 20.24	time 1= 15.0
0/0	Massz=1,52	M9552=	M9552=	M9552=	M9552=	Massz=12.89
	time2 = 40.0	timez=	timez=	timez=	timez=	timez = 19.99
TH,;a	55.82	57.58	58.62	58.67	57.00	55.45
Hout	53.74	53.69	52.93	51,37	48.17	46.75
$T_{c,in}$	16.27	16.84	16.04	15.27	14.81	14.43
Tcjoot	38.66	30.91	26.24	24.25	20.81	20.09
	RVAl	Run 2	Run 3	Run 4	Run 5	Run 6

Counter Current Ve * 2: Pump speed = 45.19 approx. Nol. Yeading (AVR)= mass (1)=10.78 time (1)=19.92 mass (2) = 10.86 time (2) = 20.07 AVR= AVR= AVR= AVR= AVR= AVR= Mass 1= 1.25 Mass 1= 4.85 Mass 1=7.60 Mass 1= 10.08 Mass 1= 7.18 Mass 1=9.48 time 1 = 60.15 time 1 = 60.10 time 1 = 50.04 time 1 = 40.16 time 1 = 20.10 Massz= 1.26 Massz= Mass2= M9552= time 2 = 60.09 time 2 = time 2 = time 2 =

		64.26			62.74	
Hout	62.29	60.96	60.19	57.67	56.07	54.60
Tc, in	15.17	15.13	15.16	14.99	14.96	(4.93
Tcjoot	47.48	37.33	29.45	28.27	25.50	23-61
	0 0					^

Run 12

Run7 -..

Counter Current Ve *3: Pump Speed = 50.11 approx. Nol. Yeading (AVR)= mass(1)=12.06 time(1)=20.07 time (2)= mass (2) = AVR= AVR= AVR= AVR= AVR= AVR= Mass 1 = 0.83 Mass 1 = 2.56 Mass 1 = 4.19 Mass 1 = 6.56 Mass 1 = 6.89 Mass 1 = 7.42 time 1= 30.07 time 1= 30.13 time 1= 29.92 time 1= 25.07 time 1= 20.17 time 1= 15.21 Massz= 7.28 M9552= M9552= M9552= M9552= M9552= time 2 = 15,10 timez= timez= timez= timez= timez= 63.75 63.02 64.11 64.08 TH,in 63.38 62.10

58.27 57.00 60.90 60.11 55,28 61.98 Hout 15.17 15.14 15,11 15.12 15.16 15.26 Tc, in 38.74 32.74 28.52 23.86 Tc, oot 48.06 26.47 Run 18 Run 13

Counter Current Ve *4: Pump speed = 55.03 approx. Nol. Yeading (AVR)= time (1)=15,0 Mass(1) = 10.04time (2)= mass (2) = AVR= AVR= AVR= AVR= AVR= AVR= Mass 1=0.51 Mass 1=1.88 Mass 1=2.81 Mass 1=3.84 Mass 1=6.02 Mass 1=7.42 time 1=20.27 time 1=20,13 time 1=20.03 time 1=15.15 time 1=15,12 time 1=15.21 Massz=0.51 Massz= Mass2=7.28 M9552= M9552= M9552= time 2 = 20.07 time 2 = timez=15,10 timez= timez= timez= 57,64 57.61 57.73 5 8.49 58.35 60,01 TH, : n 54.37 53.53 THOUT S7.57 55.10 J3.13 54.05 15.61 15.28 | 15.28 15.19 15.12 15.33 Tc, in Te, est 3 9.95 33.50 30.58 26.82 23.50 23.96 Run 19 Run 24

Counter Current Ve \$ 5: Pump speed = 60.30 approx. Nol. reading (AVR)= mass (1) = 10.95 time (1) = 15.04 time (2)= mass (2) = AVR= AVR= AVR= AVR= AVR= AVR= Mass 1 = 0.51 Mass 1 = 1.39 Mass 1 = 2.85 Mass 1 = 4.77 Mass 1 = 4.14 Mass 1 = 5.23time 1= 20.27 time 1= 15.23 time 1= 14.98 time 1= 15.08 time 1= 10.09 Massz= 0.51 Massz= Massz=5.20 M9552= M9552= M9552= time 2 = 20.0 time 2 = time 2 = 10.05 timez= timez= timez= 60.37 TH,in 60.09 60.37 60.13 59.44 58.59

57.00

15.50

29.14

59.27 | 58.12

15.70 15.59

41.29 34.10

Hout

 $T_{c,in}$

55.61 54.32

15.52

24.67

15.56

26.76

53.00

15,41

23.16

Counter Curred

Vs *6:

Pump Speed = 65.08 approx, Nol. Yeading (AVR) =

Mass (1) = 7.97 time (1) = (0.07

Mass (2) = 0.09 time (2) = 10.15

AVR = AVR

		•				
	AVR=	AVR=	AVR=	AVR=	AVR=	AVR=
	Mass 1=0.33	Mess 1=0.82	Mass 1=1.86	Mass 1=2,14	Mass 1=3,50	Mass 1=5.23
	time 1=25.17	time 1= 15.05	time 1= 15.07	time 1= 9.99	time 1=10.03	time 1= 10.09
	M9552=	M9552=	M9552=	M9552=	M9552=	Massz = 5.20
	timez=	timez=	timez=	timez=	timez=	time 2 = 10.05
TH,in	56.90	56.07	55.81	55.81	55.97	56.84
Hout	56.47	54.64	53.34	52.68	52.03	52.01
$T_{c,in}$	15.65	15.46	15.34	15-73	15.30	15-31
Tojoot	40.51	36.32	30.67	26.92	24.37	22.89
	P.10 21					R.1. 20

Run 31 --- Run 36

AVR=	AVR=	AVR=	AVR=	AVR=	AVR=
Mass 1= .47	Mass 1= /.0	Mass 1=2.12	Mass 1=2.16	Mass 1= 3.51	Mass 1=6,14
		time 1= 15,14	time 1= 10.70	time 1= 10.05	time 1= 10.04
M9552=	M9552=	M9552=	M9552=	M9552=	Massz=6.16
timez=	timez=	timez=	timez=	timez=	timez=10.12
61,30	62.26	62.26	62.12	61.69	60.88
60.60	60.19	\$9.32	58.51	57.30	55.41
52.25	39.38	32. 4 2	28.84	25.76	Z2. S3
16.16	15.94	15.95	15.89	15.86	15.71
	Mess 1=.47 time 1= 30.9 Massz= timez= 61.30 60.60 \$2.25	Mass 1= .47 Mass 1= 1.01 time 1= 30.06 time 1= 15.08 Mass 2= Mass 2= time 2= time 2= 61.30 62.26 60.60 60.19 52.25 39.38	Mess 1= .47 Mess 1= 1.01 Mess 1= 2.12 $time 1= 30.06time 1= 15.08 time 1= 15.14$ $time 2= 15.08 time 2= 15.14$ $time 2= 15.14 time 2= 15.14$ $time 2= 15.14 time 2= 15.14$ $time 2= 15.14$ t	Mess 1= .47 Mess 1= 1.0 Mess 1= 2.12 Mess 1= 2.16 time 1= 30.0 time 1= 15.08 time 1= 15.14 time 1= 10.70 Mass 2= Mass 2= Mass 2= Mass 2= time 2= 61.30 62.26 62.12 60.60 60.19 \$9.32 58.51 52.25 39.39 32.42 28.84	Mess 1= .47 Mess 1= 1.01 Mess 1= 2.12 Mess 1= 2.16 Mess 1= 3.51 time 1= 30.06 time 1= 15.08 time 1= 15.14 time 1= 10.70 time 1= 16.05 Mess 2= Mess 2= Mess 2= Mess 2= time 2= time 2= time 2= time 2= 61.30 62.26 62.26 62.12 61.69 60.60 60.19 89.32 80.51 80.52 80.51 80.52 80.51 80.52 80.51 80.52 80.51 80.52 80.51 80.52

Run 37 ... Run 42

(o-Current Ve *2: Pump speed = 60.18 approx. Nol. Yeading (AVR)= time (1)=10.15 Mass (1) = 7.38 time (2)= mass (2) = AVR= AVR= AVR= AVR= AVR= AVR= Mass 1 = 0.42 Mass 1 = 1, 14 Mass 1 = 1.24 Mass 1 = 2.51 Mass 1 = 4, 12 Mass 1 = 6, 14 time 1=20.04 time 1=1 5.07 time 1= 10.14 time 1=10.17 time 1=10.09 time 1=10.04 Mass2=0.39 Mass2= Mass2=6.18 M9552= M9552= M9552= time 2 = 20.05 time 2 = time 2 = 10.12 timez= timez= timez= 57.90 57.22 57.50 59.58 TH,in 57.39 57.11 57.04 55.43 53,94 54.58 53.68 53.09 Hout Tc, od 46.32 34.58 30.22 25.6(23.15 22.10 15.46 15.72 15.41 15.44 Torin 15.57 15.27 RU143

Run 48

(0-Current Ve * 3: Pump speed = SS.30 approx. Nol. Yeading (AVR)= time (1) = 10.14 Mass (1) = 6.74 time (2)= mass (2) = AVR= AVR= AVR= AVR= AVR= AVR= Mass 1 = 0.42 Mass 1 = 1.10 Mass 1 = 2.09 Mass 1 = 4.36 Mass 1 = 5.92 Mass 1 = 8.03 time 1=20.04 time 1= 15.15 time 1=10.03 time 1=10.12 time 1=10.09 time 1= 10.13 Mass2=0.39 Mass2= Massz= 7.99 M9552= M9552= M9552= time 2 = 20.05 time 2 = time 2 = 10.12 timez= timez= timez= 5 9.44 58.PZ 60.01 59.99 TH,in 77.75 59.67 58.46 57.67 56.15 54.41 53.01 51.03 Hout 27.77 49.16 3 6.50 23.65 23.82 22.03 15.32 15.81 15.69 15.74 15.67 15.50 Run49 ---Run S4

 $V_s = V_s$ V_s

	time 1=20.0	time 1= 15,13	time 1= (0.15	time 1= 10.10	time 1= 10,19	time 1=10.13
	Mass2=0.31	Massz=1.21	M9552=	M9552=	M9552=	Massz=7.99
	time2=2012	timez = 15.12	timez=	timez=	timez=	time2=10.17
TH,in	56.05	55-27	54.91	54.92	55.23	56.59
Hout	55.20	52.92	51,39	50.43	49.64	49.54
Tc,out	47.79	33.11	26.41	23.43	21.20	20.42
Terin	15.43	15.28	15.28	15.25	15.23	15.18
	D	<u> </u>				Ω

Runss ... Rungo

(0-Current Ve #5: Pump Speed = 45.12 approx. Nol. Yeading (AVR)= mass(1)= 5.66 time(1)=10.50 time (2)= mass (2) = AVR= AVR= AVR= AVR= AVR= AVR= Mass 1 = 0.34 Mass 1 = 0.82 Mass 1 = 1.96 Mass 1 = 3.01 Mass 1 = 5.16 Mass 1 = 7.95 time 1= 20.0 | time 1= 20.14 | time 1= 11.15 | time 1= 10.03 | time 1= (0.17 | time 1= 10.06 Mass2=0.31 Mass2= Massz= 5.16 Massz= 7.05 M9552= M9552= time 2 = 2012 time 2 = time 2 = 10.06 time 2 = 10.00 timez= timez= 60.76 | 60.44 59.69 60.73 1H,in 59.83 J8.07 THOUT 58.65 58.69 56.29 54.90 52.99 50.16 S2,21 42,79 28.88 22,79 25,42 20.77 Tc,out 15.66 15.64 15.64 15.40 12.59 Tosin 15.65 RU16 Run 66

(0-Current Ve * 6: Pump speed = 35.04 approx. Nol. Yeading (AVR)= time (1)= 15.15 mass (1) = 6.18 time (2)= mass (2) = AVR= AVR= AVR= AVR= AVR= AVR= Mass 1 = 0.95 Mass 1 = 2.31 Mass 1 = 4.27 Mass 1 = 4.56 Mass 1 = 6.02 Mass 1 = 7.95 time 1 = 21:00 time 1 = 15.15 time 1 = 15.15 time 1 = 10.11 time 1 = 10.13 time 1 = 10.06 Massz=4,59 Massz= Massz= 7,25 M9552= M9552= M9552= time 2 = 10.08 time 2 = timez= time 2 = 10.00 timez= timez= 54.19 33.48 53,70 | 53.74 | 54.77 | 22.89 TH,in 51.93 49.35 47.86 | 47.02 | 46.91 46.63 Hout 37.07 23.36 21.53 26.48 20.71 19.90 Tc, out 15.47 15.45 Tesin 15.60 15.41 15.42 15.19 RU167 ---

RUN72