

Field Testing Data

Run 4		Ambient Air Temperature = 20°C, Water Flow = approx 55 lpm									
Time	11:18:50	11:18:55	11:19:00	11:19:05	11:19:10	11:19:15	11:19:20	11:19:25	11:19:30	11:19:35	11:19:40
RADIATOR IN	53.3	53.2	53.6	54.1	54.1	53.5	52.3	51.1	50.5	50.6	50.8
RADIATOR OUT	42.7	39.7	42.4	45.4	47	47.8	48.2	48.1	47.6	46.9	46.3
RH A/C WATER OUT	58	58.7	57.5	55.5	52.8	51.9	53	55.3	56.2	57.9	58.4
CHARGE AIR (POST COOLER)	53.2	53.2	52.9	51.9	49.9	47.9	47.3	47.4	48.2	48.8	49.2
LH A/C WATER OUT	51	50.6	49.8	47.6	44.1	42.7	43.3	44.5	45.5	46.2	46.7
LH A/C WATER IN	50	48.8	46.9	41.7	40.3	41.9	43.5	44.8	45.5	45.9	45.8
CHARGE AIR (PRE COOLER)	73.3	75	76.8	79.6	83	84.4	90.2	91.4	92.8	97.5	96.7
RH A/C WATER IN	50.2	48.6	45.9	40.1	40	42.2	43.9	45	45.7	45.9	45.7
Heat Transfer to Aftercooler Water (kW) :	14.45	15.68	17.19	19.92	23.80	26.25	30.85	31.64	32.07	35.02	34.16
Run 5		Ambient Air Temperature = 20°C, Water Flow = approx 126 lpm									
Time	14:43:00	14:43:20	14:43:40	14:44:00	14:44:20	14:44:40	14:45:00	14:45:20	14:45:40	14:46:00	14:46:20
RADIATOR IN	60.7	61.4	62.5	63.7	65.4	66.4	66.3	67	68.1	68.2	67.6
RADIATOR OUT	58.1	58.2	59.9	60.4	62.5	63.7	63.5	64.2	65	65.1	64.9
RH A/C WATER OUT	66.5	68.2	67.7	70.5	72.3	72.2	72.8	73.7	74	74	71.4
CHARGE AIR (POST COOLER)	57.6	59	59.8	61	62.2	63.1	63.7	64.1	64.7	65.2	65.3
LH A/C WATER OUT	57.7	58.9	60.2	60.8	62.3	63.5	63.8	64.2	64.7	65.4	65.2
LH A/C WATER IN	57.6	58.6	60.2	60.6	62.1	63.4	63.5	63.9	64.5	65.2	65
CHARGE AIR (PRE COOLER)	162.6	164.8	158.4	168.9	173.6	167.6	166.6	170.8	172.9	167.7	156
AIR TEMPERATURE IN AIR CLEANER	38.2	38.5	39.2	39.7	40	39.8	39.7	39.7	39.8	40.1	40.3
Heat Transfer to Aftercooler Water (kW) :	75.50	76.08	70.90	77.59	80.11	75.14	73.99	76.73	77.80	73.71	65.22
Run 6		Ambient Air Temperature = 20°C, Water Flow = approx 50 lpm									
Time	15:02:20	15:02:40	15:03:00	15:03:20	15:03:40	15:04:00	15:04:20	15:04:40	15:05:00	15:05:20	15:05:40
RADIATOR IN	57.5	57.7	59.4	58.9	59.9	61.3	63.5	65.1	64.6	68.8	69.8
RADIATOR OUT	51.1	46.2	46.6	48.8	49.5	49.9	51.3	52.5	51.5	54.1	54.9
RH A/C WATER OUT	60.4	69.6	67.3	78.2	92.3	105.5	105.3	106.3	103.9	107	87.7
CHARGE AIR (POST COOLER)	56.4	56.8	54.5	53.2	54.2	56.2	56.3	56.9	60.4	59.9	58.6
LH A/C WATER OUT	55.6	56.2	52.9	52.4	54.8	56.9	58.8	60.1	63.5	63.5	62.6
LH A/C WATER IN	54.7	53.7	51.1	49.6	51.3	50.9	51.5	53	56.3	53.3	56.1
CHARGE AIR (PRE COOLER)	83.3	95	123.3	129.3	137.9	157.7	149.6	157.3	158.4	157.4	147.2
AIR TEMPERATURE IN AIR CLEANER	39.7	39.5	39.5	39.5	39.7	40.1	40.3	40.8	41.3	41.6	41.9
Heat Transfer to Aftercooler Water (kW) :	19.34	27.47	49.47	54.72	60.19	72.99	67.09	72.20	70.47	70.11	63.71