

ORIGINAL

OTEST CELL NO. 06
TECHNICIAN SDW
MODE: COOLING
REPORT TITLE:
SERIAL NO.:

LAB CAPACITY PROGRAM RESULTS

STAGE: 01 SYSTEM: A

DATE: 06/04/14
TIME: 06:50:13
SPEED: L JOB # 6105

~~XXXXXXXX~~(539-14) / "N" COIL /ZP34K6E-PFV(489-14)

TEST A

DESCRIPTION	INDOOR DATA	OUTDOOR DATA
INLET AIR DB/WB	80.01/66.97	95.00/80.00
OUTLET AIR DB/WB	60.09/57.73	0.00/ 0.00
INLET ENTHALPY- BTU/LB	31.84	0.00
OUTLET ENTHALPY-BTU/LB	25.22	0.00
NOZZLE VP IWC	1.78	0.00
NOZZLE AREA- SQ FT	0.272	0.000
SPECIFIC VOL. @ NOZZLE- FT3/LB	13.59	0.00
STANDARD CFM	1425	UNADJ(1425)
DUCT AREA- SQ FT	317	0
DUCT LOSS- BTUH	766	0
CAL. COMPRESSOR CAPACITY-BTUH	----	34350
R410A FLOW COMPR- LB/HR	----	(7.5 SH,10.7 SC) 0.0
R410A FLOW METER- LB/HR	----	602.7
CONDENSATE - LB/HR	0.03	----
LATENT VIA CONDENSATE-BTUH	31	----
LATENT VIA ENTHALPY- BTUH	10712	----
SENSIBLE VIA TEMP- BTUH	31710	----
SENSIBLE VIA ENTHALPY- BTUH	32111	----
TOTAL VIA COND.+SEN.- BTUH	31742 (-25.9%)	----
TOTAL VIA ENTHALPY- BTUH	42823	0
TOTAL VIA COMPRESSOR- BTUH	----	(-1.0%) 42377
TOTAL VIA FLOW METER- BTUH	----	(3.3%) 44217
COMPRESSOR WATT/AMP	----	2519/10.7
FAN WATT/AMP	0.0/ 0.0	193.9/ 0.7
TEST VOLTS/PHASE	----	228.761
TOTAL INDOOR - BTUH	42823	
NET TOTAL - BTUH	41041	UNADJ(42823)
NET LATENT - BTUH	10712	
NET POWER - WATTS	3233	
EER	12.69	

COMMENTS:

CHARGE WT. = 10.5
SC. @ P1/T5 = 13.2
SH. @ P8/T8 = 9.2

CONTROLLER @ 789 RPMS / 52%
INCREASED AIR FLOW

TEST CELL NO. 06
 TECHNICIAN SDW
 MODE: COOLING
 REPORT TITLE:
 SERIAL NO.:

LAB CAPACITY PROGRAM RESULTS

DATE: 06/04/14

TIME: 09:23:49

STAGE: 01 SYSTEM: A

SPEED: L JOB # 6107

539-14) / "N" COIL /ZP34K6E-PFV(489-14)

TEST B

DESCRIPTION	INDOOR DATA	OUTDOOR DATA
INLET AIR DB/WB	80.01/67.04	82.01/80.00
OUTLET AIR DB/WB	59.26/57.01	0.00/ 0.00
INLET ENTHALPY- BTU/LB	31.92	0.00
OUTLET ENTHALPY-BTU/LB	24.77	0.00
NOZZLE VP IWC	1.78	0.00
NOZZLE AREA- SQ FT	0.272	0.000
SPECIFIC VOL. @ NOZZLE- FT3/LB	13.58	0.00
STANDARD CFM	1426	UNADJ(1426)
DUCT AREA- SQ FT	317	0
DUCT LOSS- BTUH	798	0
CAL. COMPRESSOR CAPACITY-BTUH	----	34350
R410A FLOW COMPR- LB/HR	---- (8.4 SH, 9.1 SC)	0.0
R410A FLOW METER- LB/HR	----	599.5
CONDENSATE - LB/HR	0.02	----
LATENT VIA CONDENSATE-BTUH	21	----
LATENT VIA ENTHALPY- BTUH	12747	----
SENSIBLE VIA TEMP- BTUH	33027	----
SENSIBLE VIA ENTHALPY- BTUH	33498	----
TOTAL VIA COND.+SEN.- BTUH	33048 (-28.5%)	----
TOTAL VIA ENTHALPY- BTUH	46246	0
TOTAL VIA COMPRESSOR- BTUH	----	(-2.7%) 45020
TOTAL VIA FLOW METER- BTUH	----	(1.6%) 46995
COMPRESSOR WATT/AMP	----	2139/ 8.9
FAN WATT/AMP	0.0/ 0.0	199.8/ 0.8
TEST VOLTS/PHASE	----	231.021
TOTAL INDOOR - BTUH	46246	
NET TOTAL - BTUH	44464	UNADJ(46246)
NET LATENT - BTUH	12747	
NET POWER - WATTS	2860	
EER	15.55	

COMMENTS:

CHARGE WT. = 10.5
 SC. @ P1/T5 = 12.0
 SH. @ P8/T8 = 8.7

CONTROLLER @ 789 RPMS / 52%
 INCREASED AIR FLOW

OTEST CELL NO. 06
 TECHNICIAN SDW
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LAB CAPACITY PROGRAM RESULTS

DATE: 06/04/14
 TIME: 15:57:04

STAGE: 01 SYSTEM: A

SPEED: L JOB # 6125

(539-14)/ "N" COIL /ZP34K6E-PFV(489-14)

TEST C

DESCRIPTION	INDOOR DATA	OUTDOOR DATA
INLET AIR DB/WB	80.02/52.60	81.97/80.00
OUTLET AIR DB/WB	54.00/41.30	0.00/ 0.00
INLET ENTHALPY- BTU/LB	21.87	0.00
OUTLET ENTHALPY-BTU/LB	15.97	0.00
***** CHECK INLET & OUTLET TEMP. CONDITIONS *****		
NOZZLE VP IWC	1.89	0.00
NOZZLE AREA- SQ FT	0.272	0.000
SPECIFIC VOL. @ NOZZLE- FT3/LB	13.38	0.00
STANDARD CFM	1478	UNADJ(1478)
DUCT AREA- SQ FT	0	0
DUCT LOSS- BTUH	0	0
CAL. COMPRESSOR CAPACITY-BTUH	----	34350
R410A FLOW COMPR- LB/HR	---- (7.4 SH, 8.9 SC)	0.0
R410A FLOW METER- LB/HR	----	533.1
CONDENSATE - LB/HR	0.01	----
LATENT VIA CONDENSATE-BTUH	0	----
LATENT VIA ENTHALPY- BTUH	0	----
SENSIBLE VIA TEMP- BTUH	41655	----
SENSIBLE VIA ENTHALPY- BTUH	39144	----
TOTAL VIA COND.+SEN.- BTUH	0	----
TOTAL VIA ENTHALPY- BTUH	39144 (-6.0%)	0
TOTAL VIA COMPRESSOR- BTUH	----	(-0.8%) 41302
TOTAL VIA FLOW METER- BTUH	----	(-0.1%) 41599
COMPRESSOR WATT/AMP	----	2119/ 8.9
FAN WATT/AMP	0.0/ 0.0	197.8/ 0.8
TEST VOLTS/PHASE	----	231.008
TOTAL INDOOR - BTUH	41655	
NET TOTAL - BTUH	39807	UNADJ(0)
NET POWER - WATTS	2857	
EER	13.93	

TIME 15:48:30

RHEEM AIR CONDITIONING DIVISION
SEER PROGRAM RESULTS

DATE 06/04/14

MODEL NUMBER:

TEST B	TEST C	TEST D				
EER (BTU/WATT)	CAPACITY (BTU/HR)	EER (BTU/WATT)	CAPACITY (BTU)	EER (BTU/WATT-HR)	DEGRADATION FACTOR	SEER (BTU/WATT)
15.550	41655.000	13.930	4008.000	13.080	0.076	14.963
15.550	41655.000	13.930	4011.000	13.160	0.068	15.018
15.550	41655.000	13.930	4006.000	13.070	0.076	14.956
15.550	41655.000	13.930	4026.000	13.120	0.072	14.990
15.550	41655.000	13.930	4021.000	13.130	0.071	14.997
15.550	41655.000	13.930	4014.400	13.112	0.073	14.984

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LAB CAPACITY PROGRAM RESULTS

DATE: 06/04/14

TIME: 15:48:47

STAGE: 01 SYSTEM: A

SPEED: L JOB # 6130

(539-14)/ "N" COIL /ZP34K6E-PFV(489-14)

TEST D

DESCRIPTION	INDOOR DATA	OUTDOOR DATA
INLET AIR DB/WB	80.12/52.90	81.96/80.00
OUTLET AIR DB/WB	56.79/44.91	0.00/ 0.00
INLET ENTHALPY- BTU/LB	22.07	0.00
OUTLET ENTHALPY-BTU/LB	17.77	0.00
***** CHECK INLET & OUTLET TEMP. CONDITIONS *****		
NOZZLE VP IWC	1.88	0.00
NOZZLE AREA- SQ FT	0.272	0.000
SPECIFIC VOL. @ NOZZLE- FT3/LB	13.49	0.00
STANDARD CFM	1468	UNADJ(1468)
DUCT AREA- SQ FT	0	0
DUCT LOSS- BTU	0	----
CAL. COMPRESSOR CAPACITY-BTUH	----	3435
R410A FLOW COMPR- LB/HR	----	(7.1 SH, 4.7 SC) 0.0
R410A FLOW METER- LB/HR	----	55.1
CONDENSATE - LB/HR	0.02	----
LATENT VIA CONDENSATE-BTUH	0	----
LATENT VIA ENTHALPY- BTUH	0	----
SENSIBLE VIA TEMP- BTU	4011	----
SENSIBLE VIA ENTHALPY- BTU	3057	----
TOTAL VIA COND.+SEN.- BTUH	0	----
TOTAL VIA ENTHALPY- BTU	3057 (-23.8%)	0
TOTAL VIA COMPRESSOR- BTUH	----	(10.1%) 4418
TOTAL VIA FLOW METER- BTUH	----	(6.0%) 4251
COMPRESSOR WATT-HRS/AMP	----	212.5/15.2
FAN WATT-HRS/AMP	0.0/ 0.0	19.4/ 0.6
TEST VOLTS/PHASE	----	227.844
FAN TIME- MIN	6.5	
TOTAL INDOOR - BTU	4011	
NET TOTAL - BT	3813	UNADJ(0)
NET POWER - WATT-HRS	289.8	
EER	13.16	

