

National TAB

Project: Harrah's River Valley Casino & Hotel
Address: 777 Casino Parkway Murphy, NC 28906

Asset: RTU-C01

Area:

Supply Side

Unit Data	
Manufacturer	DAIKIN
Model Number	MPS030FG4DV1C0
Serial Number	FBOU203400668
Configuration	VERTICAL
No. Pre Filters / Size	8 / 24X24X2

Motor Data X	
Motor MFG / Frame	DAIKEN/213T
Horsepower / RPM	7.5 / 1770
Rated Volts / Phase	460 / 3
Rated Amperage / SF	9.7

Drive Data	
Motor Sheave Size / Bore	BK65/1-7/8"
Fan Sheave Size / Bore	8"/1-5/8"
Belt CL Distance	28.5"
No. Belts / Size	1/BX74

Test Data

	Design	Actual
Supply CFM	6500	6381
Min OA CFM	1440	1576
Return CFM	5060	4863
Fan RPM	1506	1518
Operating HZ		62HZ
RL Voltage	460	450 VFD
RL Amperage	9.7	8.8 VFD
Motor B.H.P.	6.20	7.3

Performance Data

	Design	Actual
Suction S.P.		-1.40"
Discharge S.P.		1.14"
Total SP	3.25	2.54"
System S.P. Set Point		[1]
OA FLOW STATION GAIN		0.92
DX Coil P.D.	0.29	0.39"
Final Filters P.D.	0.30	0.16"
Total ESP	2.50	1.99"

[1] DISCHARGE (2/3) PRESSURE SENSOR IS NOT READING CORRECTLY UNABLE TO DETERMINE FINAL SETPOINT. RECOMMEND EST. 0.8"

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Project: Harrah's River Valley Casino & Hotel
Address: 777 Casino Parkway Murphy, NC 28906

Asset: RTU-C02

Area: Area: CASINO BOH FLR 1

Supply Side

Unit Data	
Manufacturer	DAIKIN
Model Number	MPS030FG4DV1
Serial Number	FBOU230400669
Configuration	VERTICAL
No. Pre Filters / Size	8 / 24X24X2

Motor Data X	
Motor MFG / Frame	BALDOR RELIANCE/215T
Horsepower / RPM	10.0 / 1770
Rated Volts / Phase	460 / 3
Rated Amperage / SF	12.5/1.15

Drive Data	
Motor Sheave Size / Bore	8"/1-3/8"
Fan Sheave Size / Bore	9"/1-5/8"
Belt CL Distance	28"
No. Belts / Size	1/BX78

Test Data

	Design	Actual
Supply CFM	8400	8171
Min OA CFM	1915	1804
Return CFM	6485	6241
Fan RPM	1633	1930
Operating HZ		65HZ
RL Voltage	460	449 VFD
RL Amperage	13.0	10.7 VFD
Motor B.H.P.	7.4	9.2

Performance Data

	Design	Actual
Suction S.P.		-0.86"
Discharge S.P.		1.08"
Total SP	3.38	1.94"
System S.P. Set Point		0.8"
OA FLOW STATION GAIN		1.21
DX Coil P.D.	0.42	*0.59"
Final Filters P.D.	0.30	*COMBINED
Pre Filters P.D.	0.07	NO ACCESS
Total ESP	2.40	1.44"

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Project: Harrah's River Valley Casino & Hotel
Address: 777 Casino Parkway Murphy, NC 28906

Asset: RTU-C03

Area: CASINO BOH FLR 2

Supply Side

Unit Data	
Manufacturer	DAIKIN
Model Number	MPS030FG4DV1
Serial Number	FBOU230400670
Configuration	VERTICAL
No. Pre Filters / Size	8 / 24X24X2

Motor Data X	
Motor MFG / Frame	BALDOR RELIANCE/215T
Horsepower / RPM	10.0 / 1770
Rated Volts / Phase	460 / 3
Rated Amperage / SF	12.5/ 1.15

Drive Data	
Motor Sheave Size / Bore	7"/1-3/8"
Fan Sheave Size / Bore	8"/1-5/8"
Belt CL Distance	28"
No. Belts / Size	1/BX76

Test Data

	Design	Actual
Supply CFM	9700	9820
Min OA CFM	2900	3013
Return CFM	6800	6807
Fan RPM	1670	1301
Operating HZ		50.4HZ
RL Voltage	460	369 VFD
RL Amperage	12.5	8.9 VFD
Motor B.H.P.	7.8	6.4

Performance Data

	Design	Actual
Suction S.P.		-0.91"
Discharge S.P.		1.22"
Total SP	3.16	2.13"
System S.P. Set Point		0.70"
DX Coil P.D.	0.51	0.49"
Final Filters P.D.	0.30	0.19"
Total ESP	2.0	1.45"

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Project: Harrah's River Valley Casino & Hotel
Address: 777 Casino Parkway Murphy, NC 28906

Asset: RTU-C03 VAV SUPPLY

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
301-1	CORR	A1	6X6	100	107	96	0.96
301-2	2G02	A2	9X9	115	187	117	1.02
301-3	2G01	A1	6X6	80	67	74	0.93
301-4	2G02	A2	9X9	115	210	119	1.03
301-5	2G06	A1	6X6	100	107	105	1.05
301-6	2G06	A1	6X6	100	103	103	1.03
VAV-C301				610		614	1.01
302-1	2G03A	A2	9X9	185	200	187	1.01
302-2	2G03	A2	9X9	195	220	199	1.02
VAV-C302				380		386	1.02
303-1	2G07	A2	9X9	185	267	185	1.00
303-2	2G07	A2	9X9	185	266	183	0.99
303-3	2G07	A2	9X9	185	274	193	1.04
303-4	2G07	A2	9X9	190	241	189	0.99
303-5	2G07	A2	9X9	190	256	196	1.03
303-6	2G07	A2	9X9	190	238	180	0.95
VAV-C303				1125		1126	1.00
304-1	2G05	A2	9X9	230	298	236	1.03
304-2	2G05	A2	9X9	230	314	238	1.03
304-3	2G05	A2	9X9	230	211	236	1.03
304-4	2G05	A2	9X9	230	228	238	1.03
304-5	2G05	A2	9X9	230	195	216	0.94
304-6	2G05	A2	9X9	230	216	224	0.97
304-7	2G05	A2	9X9	230	378	230	1.00
304-8	2G05	A2	9X9	230	346	231	1.00
304-9	2G05	A1	6X6	50	131	53	1.06
304-10	2G05	A2	9X9	230	241	219	0.95
304-11	2G05	A2	9X9	230	368	236	1.03
VAV-C304				2350		2357	1.00

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Asset: RTU-C03 VAV SUPPLY

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
305-1	2G08	A2	9X9	115	135	122	1.06
305-2	2G08	A2	9X9	115	161	120	1.04
305-3	2G08A	A2	9X9	115	149	113	0.98
305-4	2G08	A2	9X9	120	133	117	0.98
305-5	2G08	A2	9X9	120	135	122	1.02
VAV-C305				585		594	1.02
306-1	INTERVIEW	A1	6X6	105	113	102	0.97
VAV-C306				105		102	0.97
307-1		A1	6X6	90	82	92	1.02
307-2		A1	6X6	90	108	92	1.02
VAV-C307				180		184	1.02
308-1	2G14	A1	6X6	90	104	85	0.94
308-2	2G13	A1	6X6	90	97	85	0.94
308-3	2G11	A1	6X6	90	102	90	1.00
VAV-C308				270		260	0.96
309-1	2G21	A2	9X9	200	269	188	0.94
309-2	2G21	A2	9X9	200	282	194	0.97
309-3	2G21	A2	9X9	200	261	184	0.92
309-4	2G21	A2	9X9	200	307	209	1.05
309-5	2G21	A2	9X9	200	295	213	1.07
309-6	2G21	A2	9X9	200	307	207	1.04
VAV-C309				1200		1195	1.00
310-1	2G20A	A2	9X9	190	156	198	1.04
310-2	2G20A	A2	9X9	190	174	178	0.94
310-3	CORR	A1	6X6	60	69	64	1.07
310-4	CORR	A1	6X6	55	61	52	0.95
VAV-C310				495		492	0.99

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Project: Harrah's River Valley Casino & Hotel
Address: 777 Casino Parkway Murphy, NC 28906

Asset: RTU-C04

Area: CASINO BAR

Unit Data	
Manufacturer	DAIKIN
Model Number	DPS015AHML4DW
Serial Number	SLPV230906245
Configuration	VERTICAL
No. Pre Filters / Size	6 / 18X24X2
No. Pre Filters / Size	6 / 18X24X4

Motor Data X	
Motor MFG / Frame	DAIKEN/NL
Horsepower / RPM	8.0 / 2600
Rated Volts / Phase	480 / 3
Rated Amperage / SF	7.9/1

Test Data		
	Design	Actual
Supply CFM	3800	3761
Min OA CFM	1630	1720
Return CFM	2170	2049
Fan RPM	1693	1625
Operating %		96%
RL Voltage	460	476/478/475
RL Amperage	6.8	1.95/1.91/1.94
Motor B.H.P.	1.67	1.96

Performance Data		
	Design	Actual
Suction S.P.		-0.65"
Discharge S.P.		0.50"
Total SP	1.81	1.15"
System Set Point		96% MAX
OA FLOW STATION GAIN		
Final Filters P.D.		*COMBINED
DX Coil P.D.		*0.53"
Total ESP		0.62"

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Project: Harrah's River Valley Casino & Hotel
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Asset: RTU-C05

Area: CASINO CONNECTOR

Unit Data	
Manufacturer	DAIKIN
Model Number	DPSA020A4BHCM0A
Serial Number	FBOU23070442
Configuration	VERTICAL
No. Pre Filters / Size	8 / 20X24X2
No. Pre Filters / Size	4 / 24X24X4

Motor Data X	
Motor MFG / Frame	2X DAIKEN/NL
Horsepower / RPM	2@ 5200W/1750
Rated Volts / Phase	460 / 3
Rated Amperage / SF	2@ 7.98 / 1

Test Data		
	Design	Actual
Supply CFM	6400	6445
Min OA CFM	1050	1099
Return CFM	5350	5204
Fan RPM	1677	1241
Operating %		74%
RL Voltage	460	469/469/473
RL Amperage	2@ 2.81	1.2/1.2/1.3 X2
Motor B.H.P.	3.34	1.04

Performance Data		
	Design	Actual
Suction S.P.		-0.55"
Discharge S.P.		0.46"
Total SP	2.13	1.01
System Set Point		74% MAX
OA FLOW STATION GAIN		0.91
Final Filters P.D.	0.04	*COMBINED
DX Coil P.D.	0.40	* COMBINED
Gas Reheat P.D.	0.06	*0.50"
Gas Heat P.D.	0.03	NO ACCESS
Total ESP	1.5	0.51"

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Project: Harrah's River Valley Casino & Hotel
Address: 777 Casino Parkway Murphy, NC 28906

Asset: RTU-C06

Area: POKER / GAMING

Supply Side

Unit Data	
Manufacturer	DAIKIN
Model Number	MPS035FG4DV1
Serial Number	FBOU230400671
Configuration	VERTICAL
No. Pre Filters / Size	8 / 24X24X2
No. HW Pre Filters / Size	3 / 24X24X2
No. Final Filters / Size	

Exhaust Side

Unit Data	
Manufacturer	DAIKIN
Model Number	MPS035F
Serial Number	N/A
Configuration	VERTICAL
No. Pre Filters / Size	3 / 24X24X2
No. Pre Filters / Size	

Motor Data X

Motor MFG / Frame	BALDOR/254T
Horsepower / RPM	15.0 / 1770
Rated Volts / Phase	460 / 3
Rated Amperage / SF	18.2 / 1.15

Motor Data X

Motor MFG / Frame	EBM PAPST / NL
Horsepower / RPM	5030W / 1750
Rated Volts / Phase	460 / 3
Rated Amperage / SF	6.1 / NL

Drive Data

Motor Sheave Size / Bore	7.5"/1-5/8"
Fan Sheave Size / Bore	6.5"/1-5/8"
Belt CL Distance	28.5"
No. Belts / Size	1/5VX780

Test Data

	Design	Actual
Supply CFM	11000	11586
Min OA CFM	3850	4047
Return CFM	7150	7539
Fan RPM	1899	1661
Operating HZ		48HZ
RL Voltage	460	332 VFD
RL Amperage	17.7	10.9 VFD
Motor B.H.P.	11.3	6.6

Test Data

	Design	Actual
Total CFM	3500	3567
Fan RPM	1800	1120
Operating %		64
RL Voltage	460	479/476/476
RL Amperage	6.1	1.9/2.1/1.9
Motor B.H.P.		1622W

Performance Data

	Design	Actual
Suction S.P.		-1.26
Discharge S.P.		0.85
Total SP	4.05	2.11
OA Flow Gain		1.72
Final Filters P.D.	0.3	0.1
Heat Wheel P.D.	0.59	0.41
DX Coil P.D.	0.59	* COMBINED
Gas Reheat P.D.	0.11	0.46
Pre Filters P.D.	0.13	0.13
Total ESP	1.6	1.55

Performance Data

	Design	Actual
Suction S.P.		-1.21
Discharge S.P.		0.05
Total SP		1.26
Heat Wheel P.D.	0.5	0.52
Pre Filters P.D.		0.01
Total ESP	1	0.75

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Project: Harrah's River Valley Casino & Hotel
Address: 777 Casino Parkway Murphy, NC 28906

Asset: RTU-C07

Area: POKER / GAMING

Supply Side

Unit Data	
Manufacturer	DAIKIN
Model Number	MPS035FG4DV1CB
Serial Number	FBOU230400672
Configuration	VERTICAL
No. Pre Filters / Size	8 / 24X24X2
No. Pre Filters / Size	3 / 24X24X2
No. Final Filters / Size	

Exhaust Side

Unit Data	
Manufacturer	DAIKIN
Model Number	MPS035F
Serial Number	NL
Configuration	VERTICAL
No. Pre Filters / Size	3 / 24X24X2
No. Pre Filters / Size	
No. Final Filters / Size	

Motor Data X

Motor MFG / Frame	BALDOR/254T
Horsepower / RPM	15.0 / 1770
Rated Volts / Phase	460 / 3
Rated Amperage / SF	18.2 / 1.15

Motor Data X

Motor MFG / Frame	EBM PAPST / NL
Horsepower / RPM	5030W / 1750
Rated Volts / Phase	460 / 3
Rated Amperage / SF	6.1 / NL

Drive Data

Motor Sheave Size / Bore	7.5" / 1-5/8"
Fan Sheave Size / Bore	6.5" / 1-5/8"
Belt CL Distance	28.5"
No. Belts / Size	1 / 5VX780

Test Data

	Design	Actual
Supply CFM	11000	11294
Min OA CFM	3850	4047
Return CFM	7150	7247
Fan RPM	1899	1604
Operating HZ		46.5HZ
RL Voltage	460	318
RL Amperage	17.7	10.6
Motor B.H.P.	11.3	6.13

Test Data

	Design	Actual
Total CFM	3500	3514
Fan RPM	1800	980
Operating %		56%
RL Voltage	460	481/476/477
RL Amperage	6.1	1.4/1.6/1.3
Motor B.H.P.		1182W

Performance Data

	Design	Actual
Suction S.P.		-1.21
Discharge S.P.		0.78
Total SP	4.05	1.99
OA Flow Gain		1.69
Final Filters P.D.	0.3	0.01
DX Coil P.D.	0.59	* COMBINED
Gas Reheat P.D.	0.11	*0.55
Heat Wheel P.D.		0.36
Pre Filters P.D.	0.13	0.14
Total ESP	1.6	1.43

Performance Data

	Design	Actual
Suction S.P.		-0.88
Discharge S.P.		0.04
Total SP		0.92
Heat Wheel P.D.	0.5	0.51
Pre Filters P.D.		0.21
Total ESP	1	0.66

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Project: Harrah's River Valley Casino & Hotel
Address: 777 Casino Parkway Murphy, NC 28906

Asset: RTU-C08

Area: POKER / GAMING

Supply Side

Unit Data	
Manufacturer	DAIKIN
Model Number	MPS035FG4DV1CB
Serial Number	FBOU230400673
Configuration	VERTICAL
No. Pre Filters / Size	8 / 24X24X2
No. Pre Filters / Size	3 / 24X24X2
No. Final Filters / Size	

Exhaust Side

Unit Data	
Manufacturer	DAIKIN
Model Number	MPS035F
Serial Number	NL
Configuration	VERTICAL
No. Pre Filters / Size	3 / 24X24X2
No. Pre Filters / Size	

Motor Data X

Motor MFG / Frame	BALDOR/254T
Horsepower / RPM	15.0 / 1770
Rated Volts / Phase	460 / 3
Rated Amperage / SF	18.2 / 1.15

Motor Data X

Motor MFG / Frame	EBM PAPST / NL
Horsepower / RPM	5030W / 1750
Rated Volts / Phase	460 / 3
Rated Amperage / SF	6.1 / NL

Drive Data

Motor Sheave Size / Bore	7.5" / 1-5/8"
Fan Sheave Size / Bore	6.5" / 1-5/8"
Belt CL Distance	28.5"
No. Belts / Size	1 / 5VX780

Test Data

	Design	Actual
Supply CFM	11000	10949
Min OA CFM	3850	3959
Return CFM	7150	7030
Fan RPM	1899	1644
Operating HZ		47.5
RL Voltage	460	327 VFD
RL Amperage	17.7	10.7 VFD
Motor B.H.P.	11.3	6.3

Test Data

	Design	Actual
Total CFM	3500	3464
Fan RPM	1800	1225
Operating %		70%
RL Voltage	460	480/477/475
RL Amperage	6.1	2.1/2.5/2.4
Motor B.H.P.		1956W

Performance Data

	Design	Actual
Suction S.P.		-1.26
		0.76
Total SP	4.05	2.02
OA Flow Gain		1.57
Final Filters P.D.	0.3	0.01
DX Coil P.D.	0.59	COMBINED*
Gas Reheat P.D.	0.11	*0.53
Heat Wheel P.D.	0.19	0.4
Pre Filters P.D.	0.13	0.13
Total ESP	1.6	1.48

Performance Data

	Design	Actual
Suction S.P.		-1.12
Discharge S.P.		0.03
Total SP		1.15
Heat Wheel P.D.	0.5	0.49
Pre Filters P.D.		0.06
Total ESP	1	0.75

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Project: Harrah's River Valley Casino & Hotel
Address: 777 Casino Parkway Murphy, NC 28906

Asset: RTU-C09

Area: POKER / GAMING

Supply Side

Unit Data	
Manufacturer	DAIKIN
Model Number	MPS035FG4DV1CBS
Serial Number	FBOU230400674
Configuration	VERTICAL
No. Pre Filters / Size	8 / 24X24X2
No. Pre Filters / Size	3 / 24X24X2
No. Final Filters / Size	

Exhaust Side

Unit Data	
Manufacturer	DAIKIN
Model Number	MPS035F
Serial Number	NL
Configuration	VERTICAL
No. Pre Filters / Size	3 / 24X24X2
No. Pre Filters / Size	

Motor Data X

Motor MFG / Frame	BALDOR/254T
Horsepower / RPM	15.0 / 1770
Rated Volts / Phase	460 / 3
Rated Amperage / SF	18.2 / 1.15

Motor Data X

Motor MFG / Frame	EBM PAPST / NL
Horsepower / RPM	5030W / 1750
Rated Volts / Phase	460 / 3
Rated Amperage / SF	6.1 / NL

Drive Data

Motor Sheave Size / Bore	7.5" / 1-5/8"
Fan Sheave Size / Bore	6.5" / 1-5/8"
Belt CL Distance	28.5"
No. Belts / Size	1 / 5VX780

Test Data

	Design	Actual
Supply CFM	11000	11335
Min OA CFM	3850	3884
Return CFM	7150	7454
Fan RPM	1899	1656
Operating HZ		48
RL Voltage	460	332 VFD
RL Amperage	17.7	10.9VFD
Motor B.H.P.	11.3	6.6

Test Data

	Design	Actual
Total CFM	3500	3518
Fan RPM	1800	1190
Operating %		68
RL Voltage	460	479/477/476
RL Amperage	6.1	2.4/2.1/2.3
Motor B.H.P.		1869W

Performance Data

	Design	Actual
Suction S.P.		-1.23
Discharge S.P.		0.78
Total SP	4.05	2.01
OA Gain		1.85
Final Filters P.D.	0.3	0.1
DX Coil P.D.	0.59	COMBINED*
Gas Reheat P.D.	0.11	*0.58
Heat Wheel P.D.	0.19	0.42
Pre Filters P.D.	0.13	0.12
Total ESP	1.6	1.33

Performance Data

	Design	Actual
Suction S.P.		-1.25
Discharge S.P.		0.02
Total SP		1.27
Heat Wheel P.D.	0.5	0.51
Pre Filters P.D.		0.19
Total ESP	1	0.57

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Project: Harrah's River Valley Casino & Hotel
Address: 777 Casino Parkway Murphy, NC 28906

Asset: RTU-C10

Area: POKER / GAMING

Supply Side

Unit Data	
Manufacturer	DAIKIN
Model Number	MPS035FG4DV1CB
Serial Number	FBOU230400675
Configuration	VERTICAL
No. Pre Filters / Size	8 / 24X24X2
No. Pre Filters / Size	3 / 24X24X2
No. Final Filters / Size	

Exhaust Side

Unit Data	
Manufacturer	DAIKIN
Model Number	MPS035F
Serial Number	NL
Configuration	VERTICAL
No. Pre Filters / Size	3 / 24X24X2
No. Pre Filters / Size	

Motor Data X

Motor MFG / Frame	BALDOR/254T
Horsepower / RPM	15.0 / 1770
Rated Volts / Phase	460 / 3
Rated Amperage / SF	18.2 / 1.15

Motor Data X

Motor MFG / Frame	EBM PAPST / NL
Horsepower / RPM	5030W / 1750
Rated Volts / Phase	460 / 3
Rated Amperage / SF	6.1 / NL

Drive Data

Motor Sheave Size / Bore	7.5" / 1-5/8"
Fan Sheave Size / Bore	6.5" / 1-5/8"
Belt CL Distance	28.5"
No. Belts / Size	1 / 5VX780

Test Data

	Design	Actual
Supply CFM	11000	11404
Min OA CFM	3850	3825
Return CFM	7150	7579
Fan RPM	1899	1696
Operating HZ		49
RL Voltage	460	341 VFD
RL Amperage	17.7	11.2 VFD
Motor B.H.P.	11.3	6.9

Test Data

	Design	Actual
Total CFM	3500	3421
Fan RPM	1800	1173
Operating %		67%
RL Voltage	460	470/466/469
RL Amperage	6.1	2/2.1/2.2
Motor B.H.P.		1732 W

Performance Data

	Design	Actual
Suction S.P.		-1.29"
Discharge S.P.		0.78"
Total SP	4.05	2.07"
OA Gain		1.47
Final Filters P.D.	0.3	0.01"
DX Coil P.D.	0.59	COMBINED*
Gas Reheat P.D.	0.11	*0.65"
Heat Wheel P.D.	0.19	0.41"
Pre Filters P.D.	0.13	0.11"
Total ESP	1.6	1.43"

Performance Data

	Design	Actual
Suction S.P.		-0.94"
Discharge S.P.		0.02"
Total SP		0.96"
Heat Wheel P.D.	0.5	0.49"
Pre Filters P.D.		0.19"
Total ESP	1	0.67"

National TAB

Project: Harrah's River Valley Casino & Hotel
Address: 777 Casino Parkway Murphy, NC 28906

Asset: RTU-C11

Area: POKER / GAMING

Supply Side

Unit Data	
Manufacturer	DAIKIN
Model Number	MPS035FG4DV1CBS
Serial Number	FBOU230400676
Configuration	VERTICAL
No. Pre Filters / Size	8 / 24X24X2
No. Pre Filters / Size	3 / 24X24X2
No. Final Filters / Size	

Exhaust Side

Unit Data	
Manufacturer	DAIKIN
Model Number	MPS035F
Serial Number	NL
Configuration	VERTICAL
No. Pre Filters / Size	3 / 24X24X2
No. Pre Filters / Size	

Motor Data X

Motor MFG / Frame	BALDOR/254T
Horsepower / RPM	15.0 / 1770
Rated Volts / Phase	460 / 3
Rated Amperage / SF	18.2 / 1.15

Motor Data X

Motor MFG / Frame	EBM PAPST / NL
Horsepower / RPM	5030W / 1750
Rated Volts / Phase	460 / 3
Rated Amperage / SF	6.1 / NL

Drive Data

Motor Sheave Size / Bore	7.5" / 1-5/8"
Fan Sheave Size / Bore	6.5" / 1-5/8"
Belt CL Distance	28.5"
No. Belts / Size	1 / 5VX780

Test Data

	Design	Actual
Supply CFM	11000	10965
Min OA CFM	3850	3820
Return CFM	7150	7145
Fan RPM	1899	1762
Operating HZ		51.1
RL Voltage	460	363 VFD
RL Amperage	17.7	9.3 VFD
Motor B.H.P.	11.3	5.3

Test Data

	Design	Actual
Total CFM	3500	3541
Fan RPM	1800	1085
Operating %		62%
RL Voltage	460	481/478/477
RL Amperage	6.1	1.7/2.0/1.9
Motor B.H.P.		1539W

Performance Data

	Design	Actual
Suction S.P.		-1.14
Discharge S.P.		0.65
Total SP	4.05	1.79
OA Gain		1.36
Final Filters P.D.	0.3	0.01
DX Coil P.D.	0.59	COMBINED*
Gas Reheat P.D.	0.11	*0.45
Heat Wheel P.D.	0.19	0.44
Pre Filters P.D.	0.13	0.11
Total ESP	1.6	1.33

Performance Data

	Design	Actual
Suction S.P.		-0.86
Discharge S.P.		0.02
Total SP		0.88
Heat Wheel P.D.	0.5	0.51
Pre Filters P.D.		0.32
Total ESP	1	0.7

National TAB

Project: Harrah's River Valley Casino & Hotel
Address: 777 Casino Parkway Murphy, NC 28906

Asset: RTU-C12

Area: POKER / GAMING

Supply Side Unit Data

Manufacturer	DAIKIN
Model Number	MPS035FG4DV1CBS
Serial Number	FBOU230400677
Configuration	VERTICAL
No. Pre Filters / Size	8 / 24X24X2
No. Pre Filters / Size	3 / 24X24X2
No. Final Filters / Size	

Exhaust Side Unit Data

Manufacturer	DAIKIN
Model Number	MPS035F
Serial Number	NL
Configuration	VERTICAL
No. Pre Filters / Size	3 / 24X24X2
No. Pre Filters / Size	
No. Final Filters / Size	

Motor Data X

Motor MFG / Frame	BALDOR/254T
Horsepower / RPM	15.0 / 1770
Rated Volts / Phase	460 / 3
Rated Amperage / SF	18.2 / 1.15

Motor Data X

Motor MFG / Frame	EBM PAPST / NL
Horsepower / RPM	5030W / 1750
Rated Volts / Phase	460 / 3
Rated Amperage / SF	6.1 / NL

Drive Data

Motor Sheave Size / Bore	7.5" / 1-5/8"
Fan Sheave Size / Bore	6.5" / 1-5/8"
Belt CL Distance	28.5"
No. Belts / Size	1 / 5VX780

Test Data

	Design	Actual
Supply CFM	11000	11003
Min OA CFM	3850	3898
Return CFM	7150	7105
Fan RPM	1899	1855
Operating HZ		53.8
RL Voltage	460	394VFD
RL Amperage	17.7	9.5VFD
Motor B.H.P.	11.3	5.7

Test Data

	Design	Actual
Total CFM	3500	3520
Fan RPM	1800	1103
Operating %		63
RL Voltage	460	483/480/478
RL Amperage	6.1	1.9/1.7/2.1
Motor B.H.P.		1567W

Performance Data

	Design	Actual
Suction S.P.		-1.26
Discharge S.P.		0.67
Total SP	4.05	1.93
OA Gain		1.33
Final Filters P.D.	0.3	0.13
DX Coil P.D.	0.59	COMBINED*
Gas Reheat P.D.	0.11	*0.27
Heat Wheel P.D.	0.19	0.48
Pre Filters P.D.	0.13	0.13
Total ESP	1.6	1.53

Performance Data

	Design	Actual
Suction S.P.		-0.87
Discharge S.P.		0.04
Total SP		0.91
Heat Wheel P.D.	0.5	0.51
Pre Filters P.D.		0.5
Total ESP	1	0.9

National TAB

Project: Harrah's River Valley Casino & Hotel
Address: 777 Casino Parkway Murphy, NC 28906

Asset: RTU-C13

Area: POKER / GAMING

Supply Side Unit Data

Manufacturer	DAIKIN
Model Number	MPS035FG4DV1CBS
Serial Number	FBOU230400678
Configuration	VERTICAL
No. Pre Filters / Size	8 / 24X24X2
No. Pre Filters / Size	3 / 24X24X2
No. Final Filters / Size	

Exhaust Side Unit Data

Manufacturer	DAIKIN
Model Number	MPS035F
Serial Number	NL
Configuration	VERTICAL
No. Pre Filters / Size	3 / 24X24X2
No. Pre Filters / Size	
No. Final Filters / Size	

Motor Data X

Motor MFG / Frame	BALDOR/254T
Horsepower / RPM	15.0 / 1770
Rated Volts / Phase	460 / 3
Rated Amperage / SF	18.2 / 1.15

Motor Data X

Motor MFG / Frame	EBM PAPST / NL
Horsepower / RPM	5030W / 1750
Rated Volts / Phase	460 / 3
Rated Amperage / SF	6.1 / NL

Drive Data

Motor Sheave Size / Bore	7.5" / 1-5/8"
Fan Sheave Size / Bore	6.5" / 1-5/8"
Belt CL Distance	28.5"
No. Belts / Size	1 / 5VX780

Test Data

	Design	Actual
Supply CFM	11000	11403
Min OA CFM	3850	3997
Return CFM	7150	7406
Fan RPM	1899	1710
Operating HZ		49.6
RL Voltage	460	348VFD
RL Amperage	17.7	11.5VFD
Motor B.H.P.	11.3	7.3

Test Data

	Design	Actual
Total CFM	3500	3515
Fan RPM	1800	1138
Operating %		65
RL Voltage	460	482/480/479
RL Amperage	6.1	2.1/1.8/2.0
Motor B.H.P.		1622W

Performance Data

	Design	Actual
Suction S.P.		-1.33
Discharge S.P.		0.77
Total SP	4.05	2.1
OA Gain		1.77
Final Filters P.D.	0.3	0.06
DX Coil P.D.	0.59	COMBINED*
Gas Reheat P.D.	0.11	*0.67
Heat Wheel P.D.	0.19	0.43
Pre Filters P.D.	0.13	0.12
Total ESP	1.6	1.37

Performance Data

	Design	Actual
Suction S.P.		-0.97
Discharge S.P.		0.03
Total SP		1
Heat Wheel P.D.	0.5	0.5
Pre Filters P.D.		0.13
Total ESP	1	0.63



National TAB

Project: Harrah's River Valley Casino & Hotel
Address: 777 Casino Parkway Murphy, NC 28906

Asset: SF-C02

Area: 1g66 - ELECTRIC

Unit Data	
MFG	GREENHECK
Model Num	SA-30-X
Serial Num	22337345
Type	INLINE
Configuration	HORIZONTAL

Test Data		
	Design	Actual
CFM	200	194
SF RPM	1283	NO ACCESS
RL Voltage	115	88.5
RL Amperage	0.8	1.46
Suction ESP		-0.25"
Discharge ESP		0.01"
Total ESP	0.3	0.26'

Motor Data	
Motor MFG	NO ACCESS
Frame	NO ACCESS
Horsepower	0.05
Motor Rpm	NO ACCESS
Phase	1
Voltage (rated)	115
Amperage (rated)	0.8
Service Factor	NOT LISTED

National TAB

Project: Harrah's River Valley Casino & Hotel
Address: 777 Casino Parkway Murphy, NC 28906

Asset: EF-C01

Area: CASINO RESTROOMS

Unit Data	
MFG	GREENHECK
Model Num	CUE-160-B-7-1-22
Serial Num	22910589
Type	CRE UPBLAST

Test Data		
	Design	Actual
CFM	2310	2254
Fan RPM	1096	1100
RL Voltage	115	116.5
RL Amperage		5.1
Suction ESP		-0.45"
Total ESP	0.7	0.45"

Motor Data	
Motor MFG	US MOTOR
Frame	56
Horsepower	0.75
Motor Rpm	1100
Phase	1
Voltage (rated)	115
Amperage (rated)	8.1
Service Factor	1

Asset	Area Served	Type	Size	DESIGN	CFM(1)	FINAL CFM	% to design
E1-1	1g07	J1	6X6	75	134	77	1.03
E1-2	1g07	H1	8	150	214	147	0.98
E1-3	1g07	H1	8	150	194	153	1.02
E1-4	1g07	H1	8	150	88	150	1.00
E1-5	1g07	H1	8	150	73	139	0.93
E1-6	1g07	H1	8	150	147	134	0.89
E1-7	1g07	H1	8	150	153	149	0.99
E1-8	1g09	H1	8	150	87	139	0.93
E1-9	1g09	H1	8	150	117	152	1.01
E1-10	1g09	J1	6X6	75	82	73	0.97
E1-11	1g09	H1	8	150	27	160	1.07
E1-12	1g09	H1	8	150	183	152	1.01
E1-13	1g09	H1	8	150	13	139	0.93
E1-14	1g09	H1	8	150	30	147	0.98
E1-15	1g05	G7	6X6	160	132	155	0.97
E1-16	1g03	J1	6X6	50	23	49	0.98
E1-17	1g01A	G7	6X6	150	146	139	0.93
				2310		2254	0.98

National TAB

Project: Harrah's River Valley Casino & Hotel
Address: 777 Casino Parkway Murphy, NC 28906

Asset: EF-C05

Area: GAMING EXPANSION (1h01)

Unit Data	
MFG	GREENHECK
Model Num	GB-330-10-VG-1-46-X
Serial Num	22900456
Type	CRE DNBLAST

Motor Data	
Motor MFG	BALDOR RELIANCE
Frame	143T
Horsepower	1
Motor Rpm	1800
Phase	3
Voltage (rated)	230
Amperage (rated)	2.4
Service Factor	1

Drive Data	
Motor Sheave Size	VP40
Motor Bore Size	0.875"
Fan Sheave Size	AK15-4
Fan Bore Size	1.25"
Belt CL Distance	11
No of Belts	1
Belt Size	A52

Test Data		
	Design	Actual
CFM	6650	6763
Fan RPM	358	288
RL Voltage	208	206/208/207
RL Amperage	2.4	1.3/1.3/1.5
Suction ESP		-0.021
Total ESP	0.3	0.021
Brake Horse Power	0.75	0.56

National TAB

Project: Harrah's River Valley Casino & Hotel
Address: 777 Casino Parkway Murphy, NC 28906

Asset: EF-C06

Area: GAMING EXPANSION (1h01)

Unit Data	
MFG	GREENHECK
Model Num	GB-330-10-VG-1-46-X
Serial Num	22900455
Type	CRE DNBLAST

Motor Data	
Motor MFG	BALDOR RELIANCE
Frame	143T
Horsepower	1
Motor Rpm	1800
Phase	3
Voltage (rated)	230
Amperage (rated)	2.4
Service Factor	1

Drive Data	
Motor Sheave Size	VP40
Motor Bore Size	0.875"
Fan Sheave Size	AK15-4
Fan Bore Size	1.25"
Belt CL Distance	11
No of Belts	1
Belt Size	A52

Test Data		
	Design	Actual
CFM	6650	6669
Fan RPM	358	284
RL Voltage	208	208/208/207
RL Amperage	2.4	1.43/1.16/1.45
Suction ESP		-0.02
Total ESP	0.3	0.02
Brake Horse Power	0.75	0.56

National TAB

Project: Harrah's River Valley Casino & Hotel
Address: 777 Casino Parkway Murphy, NC 28906

Asset: EF-C07

Area: GAMING EXPANSION (1h01)

Unit Data	
MFG	GREENHECK
Model Num	GB-330-10-VG-1-46-X
Serial Num	22900457
Type	CRE DNBLAST

Motor Data	
Motor MFG	BALDOR RELIANCE
Frame	143T
Horsepower	1
Motor Rpm	1800
Phase	3
Voltage (rated)	230
Amperage (rated)	2.4
Service Factor	1

Drive Data	
Motor Sheave Size	VP40
Motor Bore Size	0.875"
Fan Sheave Size	AK15-4
Fan Bore Size	1.25"
Belt CL Distance	11
No of Belts	1
Belt Size	A52

Test Data		
	Design	Actual
CFM	6650	6692
Fan RPM	358	285
RL Voltage	208	205/206/207
RL Amperage	2.4	1.6/1.2/1.3
Suction ESP		-0.03
Total ESP	0.3	0.03
Brake Horse Power	0.75	0.57

National TAB

Project: Harrah's River Valley Casino & Hotel
Address: 777 Casino Parkway Murphy, NC 28906

Asset: EF-C08

Area: GAMING EXPANSION (1h01)

Unit Data	
MFG	GREENHECK
Model Num	GB-330-10-VG-1-46-X
Serial Num	22900454
Type	CRE DNBLAST

Motor Data	
Motor MFG	BALDOR RELIANCE
Frame	143T
Horsepower	1
Motor Rpm	1800
Phase	3
Voltage (rated)	230
Amperage (rated)	2.4
Service Factor	1

Drive Data	
Motor Sheave Size	VP40
Motor Bore Size	0.875"
Fan Sheave Size	AK15-4
Fan Bore Size	1.25"
Belt CL Distance	11
No of Belts	1
Belt Size	A52

Test Data		
	Design	Actual
CFM	6650	6645
Fan RPM	358	283
RL Voltage	208	207/207/206
RL Amperage	2.4	1.5/1.6/1.4
Suction ESP		-0.022
Total ESP	0.3	0.022
Brake Horse Power	0.75	0.63