



Right-Suite® Universal 2024 Short Form
Entire Building
New Age Dimensions, L.L.C.

Job: Kingdom Culture Acade...
Date: 06/17/2024
By: John PirkI
Plan: Manual N and D

14080 S.E. 122nd Lane Road, Ocklawaha, FL 32179 Phone: (352) 288 - 0686 Fax: (352) 288 - 0684 Email: john.newage@gmail.com Web: www.newagedimensions.webs.com

Project Information

For: Jarvis Heat & Air, LLC
2001 N.E. 31st Avenue, Gainesville, FL 32609
Phone: (352) 316 - 4573

		Htg	Clg			Htg	Clg
Outside db	(°F)	33	92	Inside db	(°F)	70	75
Outside RH	(%)	-	48	Inside RH	(%)	-	50
Outside wb	(°F)	-	76	Inside wb	(°F)	-	63
Daily range	(°F)	-	18	Design TD	(°F)	37	17
Moisture diff.	(gr/lb)	-	44				

Heating Equipment

Make Bryant
Model PH5SAN44200AA0

Type Split ASHP
Efficiency 7.5 HSPF2
Heating Input
Heating Output 42.0 MBtuh @ 47°F
Humidifier 27.7 gpd
Leaving Air Temp 97.4 °F
Actual Heating Fan 1400 cfm
Backup:
Input = 14 kW, Output = 46155 Btuh, 100 AFUE

Cooling Equipment

Make Bryant
Cond PH5SAN44200AA0
Coil PF4MNXC42L
Type Split ASHP
Efficiency 12.0 EER2,14.3 SEER2
Sensible Cooling 28.0 MBtuh
Latent Cooling 12.0 MBtuh
Total Cooling 40.0 MBtuh
Leaving Air Temp 55.0 °F
Actual Cooling Fan 1400 cfm

System Type
Fan Motor Heat Type
Fan & Motor Combined Efficiency
Static Pressure Across Fan

PEAKCV
PACKAGE
0 %
0.5 in H2O

NAME	Area ft²	Heat Loss	Sensible Gain	Latent Gain	Htg cfm	Clg cfm	Time
Womens ADA Tlt	64	4427	1687	1584	142	108	Jul 1700 LDT
Womens Tlt #2	32	3351	1249	1533	43	40	Jul 1700 LDT
Womens Tlt #3	32	3351	1249	1533	43	40	Jul 1700 LDT
Womens Tlt #4	32	3936	1418	1533	99	62	Jul 1700 LDT
Womens RR	150	2231	1375	267	155	163	Jul 1700 LDT
Vestibule	56	1287	1345	189	92	173	Jul 1700 LDT
Womens Strg	14	149	110	50	4	11	Jul 1700 LDT
Mens Strg	14	149	110	50	4	11	Jul 1700 LDT
Bathrm #5	56	4086	1528	1660	101	77	Jul 1700 LDT
Mens RR	150	2231	1375	267	155	163	Jul 1700 LDT
Mens ADA Tlt	56	3757	1476	1571	79	70	Jul 1700 LDT
Mens Tlt #1	34	3069	1167	1536	16	30	Jul 1700 LDT
Bathrm #3	60	4148	1535	1666	106	78	Jul 1700 LDT
Bathrm #2	56	4673	1735	1660	157	104	Jul 1700 LDT
Bathrm #1	60	4733	1742	1666	162	105	Jul 1700 LDT
Mech	34	577	1289	60	42	165	Jul 1700 LDT



Entire Building	900	46155	20391	16826	1400	1400	Jul 1700 LDT
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Duct System Summary

Entire Building

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Calculation method:	EqualFric	Supply FR (in/100ft):	0.880	Return FR (in/100ft):	0.880
Equipment pressure losses (in H2O):		Heating	0.090	Cooling	0.090
Duct system losses (in H2O):			10.699		10.681
Total fan pressure (in H2O):			10.789		10.771
Fan air flow (cfm):			1400		1400

Supply Branch Summary

Name	Htg Load (Btuh)	Clg Load (Btuh)	Design AVF (cfm)	Veloc (fpm)	Shape	Duct Size (in)	Duct Matl	Cumm. Loss (in H2O)
Bathrm #1	1565	778	h 162	607	Round	7	VinFlx	1.822
Bathrm #2	1514	771	h 157	587	Round	7	VinFlx	1.815
Bathrm #3	1023	577	h 106	540	Round	6	VinFlx	2.698
Bathrm #5	971	570	h 101	513	Round	6	VinFlx	6.241
Mech	406	1223	c 165	617	Round	7	VinFlx	0.892
Mens ADA Tlt	760	519	h 79	578	Round	5	VinFlx	3.595
Mens RR	747	606	c 82	599	Round	5	VinFlx	4.482
Mens RR-A	747	606	c 82	599	Round	5	VinFlx	4.481
Mens Strg	40	79	c 11	123	Round	4	VinFlx	5.326
Mens Tlt #1	151	219	c 30	339	Round	4	VinFlx	3.566
Vestibule	885	1284	c 173	648	Round	7	VinFlx	6.243
Womens ADA Tlt	1370	798	h 142	532	Round	7	VinFlx	8.916
Womens RR	747	606	c 82	599	Round	5	VinFlx	8.024
Womens RR-A	747	606	c 82	599	Round	5	VinFlx	8.023
Womens Strg	40	79	c 11	123	Round	4	VinFlx	7.097
Womens Tlt #2	414	299	h 43	492	Round	4	VinFlx	9.772
Womens Tlt #3	414	299	h 43	492	Round	4	VinFlx	9.776
Womens Tlt #4	956	463	h 99	505	Round	6	VinFlx	8.906

Supply Trunk Summary

Name	Htg Load (Btuh)	Clg Load (Btuh)	Design AVF (cfm)	Veloc (fpm)	Shape	Duct Size (in)	Duct Matl	Pres Loss (in H2O)
st1	13094	9159	h 1358	873	Rect	14 x 16	RectFbg	0.004
st2	10015	7610	h 1039	890	Rect	12 x 14	RectFbg	0.004
st3	8992	7034	c 948	813	Rect	12 x 14	RectFbg	0.003
st4	8081	6295	c 849	728	Rect	12 x 14	RectFbg	0.005
st5	6586	5083	c 685	588	Rect	12 x 14	RectFbg	0.004
st6	6546	5004	h 679	815	Rect	10 x 12	RectFbg	0.004
st7	4690	3150	h 486	584	Rect	10 x 12	RectFbg	0.003
st8	4650	3071	h 482	868	Rect	8 x 10	RectFbg	0.011
st9	3155	1859	h 327	736	Rect	8 x 8	RectFbg	0.006
st10	829	598	h 86	193	Rect	8 x 8	RectFbg	0.000



Return Branch Summary

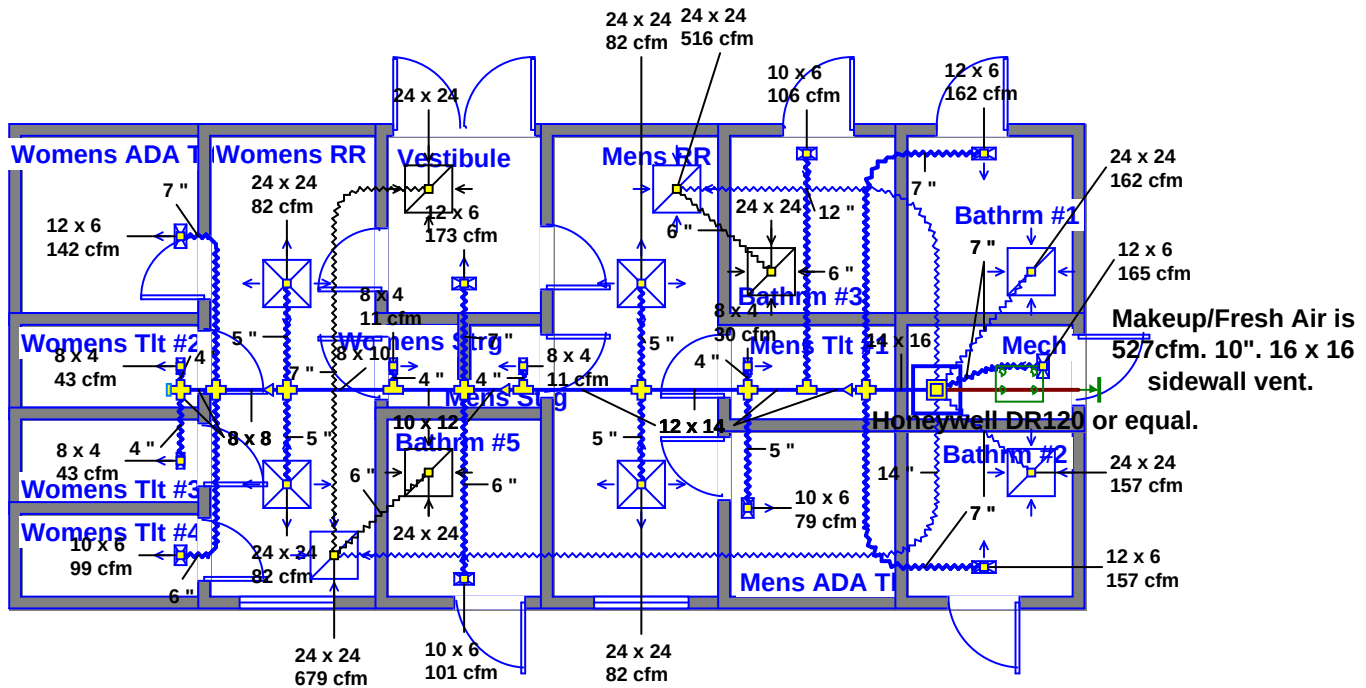
Name	Htg Load (Btuh)	Clg Load (Btuh)	Design AVF (cfm)	Veloc (fpm)	Shape	Duct Size (in)	Duct Matl	Cumm. Loss (in H2O)
rb6	1514	771	h 157	587	Round	7	VinlFlx	0.900
rb7	1565	778	h 162	607	Round	7	VinlFlx	0.903
rb1	3875	3830	c 516	658	Round	12	VinlFlx	0.919
rb2	6546	5004	h 679	635	Round	14	VinlFlx	0.924

Return Trunk Summary

Name	Htg Load (Btuh)	Clg Load (Btuh)	Design AVF (cfm)	Veloc (fpm)	Shape	Duct Size (in)	Duct Matl	Pres Loss (in H2O)
rst5	6546	5004	h 679	635	Round	14	VinlFlx	0.024
rst6	3875	3830	c 516	658	Round	12	VinlFlx	0.019



Sheet 1



As per FBC Table 403.3.1.1 Bathroom Exhaust fans are to run continuously while occupied. Makeup/Fresh Air is calculated as per FBC Table 403.3.1.1. Public Places
Toilet rooms - Public Occupancy Classification.

Job #: Kingdom Culture Academy Bathro...
Performed by John Pirk for:

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Scale: 1 : 98

Page 1
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