

AIR HANDLING UNIT SELECTION WORKSHEET

Project:
Project
No.:

Date:
Calc. By:

Unit Identification

Number:		AHU-1
Total CFM of Constant Vol. Boxes	=	60000 cfm
Total CFM of Variable Vol. Boxes	=	0 cfm
Diversity of VAV System (%)	=	100%
CFM of VAV Boxes with Diversity	=	0 cfm

COOLING COIL DATA

Total CFM of Constant Vol. Boxes	=	60000 cfm
Total CFM of Variable Vol. Boxes	=	0 cfm
Total CFM	=	60000 cfm
Scheduled AHU CFM	=	60000 cfm
Coil Area @ 500 fpm	=	120.0 sf

Total Exhaust CFM	=	10800 cfm
Percent Outside Air	=	20%
Outside Air	=	12000 cfm
Scheduled Outside Air CFM	=	12000 cfm
Percent Pressurization	=	10.0%
Is pressure between 0% and 10%?	=	YES
Return Air CFM	=	48000 cfm

	DB	WB
Outside Air Temp. =	98.0°F	74.0°F
Return Air Temp. =	75.0°F	62.6°F

Number of People	=	100
Total Sensible Heat (with	=	1,745,605 Btuh
Total Latent Heat (with	=	207,530 Btuh
Return Air Temperature	=	75.0°F
Room Delta T	=	20.0°F

Fan Location/Type	=	Blow Thru
Motor Heat Gain	=	152,155 Btuh
Temperature Rise	=	2.3°F

	DB	WB	Enthalpy
Entering Air Temp. =	81.94°F	64.84°F	29.16
Leaving Air	55.00°F	54.50°F	22.87

Grand Total Heat (with 0% SF)	=	1,698,380 Btuh
Tonnage	=	141.5 tons
Leaving Water Temperature	=	58.0°F
Entering Water Temperature	=	44.0°F
Chilled Water Flow	=	242.6 gpm

Outside Air Temperature	=	10.0°F
Return Air Temperature	=	75.0°F
Entering Air Temperature	=	62.0°F
Pre-Heat Coil BTU	=	Not Required

Entering (or Outside) Air Temperature	=	62.0°F
Leaving Air Temperature	=	100.0°F
Re-Heat (or Heating) Coil BTU	=	2,462,400

AHU STATIC PRESSURE CALCS

External Static Pressure

Discharge Plenum		0.25 in.	0.00 in.
Final		1.00 in.	0.00 in.
Med. Pressure Duct		0 ft.	0.00 in.
Terminal		0.75 in.	0.00 in.
Reheat		0.25 in.	0.00 in.
Low Pressure S.A.		200 ft.	0.16 in.
Volume Damper	1	0.10 in.	0.10 in.
Supply Air Grille	1	0.10 in.	0.10 in.
Return Air Device	1	0.10 in.	0.10 in.
Low Pressure R.A.		200 ft.	0.16 in.
Return Air Plenum	1	0.25 in.	0.25 in.
Pre-Filter	1	0.60 in.	0.60 in.
Fire Dampers	1	0.20 in.	0.20 in.
Smoke Dampers		0.20 in.	0.00 in.
Fire/Smoke		0.20 in.	0.00 in.
O.A.	1	0.15 in.	0.15 in.
Outside Air Damper	1	0.10	0.10 in.
Outside Air Duct		100 ft.	0.08 in.
Misc.			0.00 in.
Misc.			0.00 in.
Misc.			0.00 in.

Total External Static Pressure

2.00 in.

Scheduled

Internal Static Pressure

Pre-Filter		0.50 in.	0.00 in.
Mixing		0.25 in.	0.00 in.
Blender/Dampers		0.20 in.	0.00 in.
Pre-Heat Coil		0.25 in.	0.00 in.
Cooling	1	0.35 in.	0.35 in.
Reheat Coil	1	0.25 in.	0.25 in.
Diffuser Section		0.40 in.	0.00 in.
Cartridge/Final	1	1.20 in.	1.20 in.
Discharge Plenum		0.15 in.	0.00 in.
Total Internal Static Pressure	=		1.80 in.
Total Static Pressure	=		3.80 in.

Scheduled Total S.P.

3.80 in.

Brake Horsepower

59.79 BHP

PRE-HEAT COIL DATA

Entering Water Temperature	=	200.0°F
Leaving Water Temperature	=	160.0°F
Leaving Air Temperature	=	60.0°F
Hot Water Flow (GPM)	=	0.0

RE-HEAT (OR HEATING) COIL DATA

Entering Water Temperature	=	200.0°F
Leaving Water Temperature	=	160.0°F
Hot Water Flow (GPM)	=	123.1

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José Júlio Alferes, Moa Johansson



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Engineering Ontologies *Data Visualization and Statistical Literacy for Open and Big Data* Prodromou, Theodosia, 2017-03-20 Data visualization has emerged as a serious scholarly topic and a wide range of tools have recently been developed at an accelerated pace to aid in this research area Examining different ways of analyzing big data can result in increased efficiency for many corporations and organizations Data Visualization and Statistical Literacy for Open and Big Data highlights methodological developments in the way that data analytics is both learned and taught Featuring extensive coverage on emerging relevant topics such as data complexity statistics education and curriculum development this publication is geared toward teachers academicians students engineers professionals and researchers that are interested in expanding their knowledge of data examination and analysis **InfoWorld** , 1986-05-19 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects **PC Mag** , 1984-07-24 PCMag com is a leading authority on technology delivering Labs based independent reviews of the latest products and services Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology *PC Mag* , 1989-03-14 PCMag com is a leading authority on technology delivering Labs based independent reviews of the latest products and services Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology **Works Companion** Steven Cobb, Eric J. Schlene, Amy R. Willard, 1987

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