Date: 18-Feb-2019

Sizing and energy calculation for dehumidified building

Program: DRYSIZE Version: 2015.01

REFERENCE:

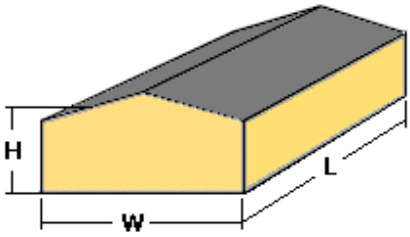
Customer:	Udadhi
Project:	Test Lab Dehumdification
Proj No:	
Sign:	Devendra Kakad

INPUT DATA:

Application:	General	
Infiltration model:	Air Exchange	
Period:	Full year	
Local data:	Ambient condition	
Design outdoor condition:	RH %	Temp °C
	88.0	30.0
Type of Heating:	Dynamic Room Temp	
Indoor air condition:	RH %	Temp °C
	50.0	25.0

BUILDING:

Length m	Width m	Height m
12.5	8	3



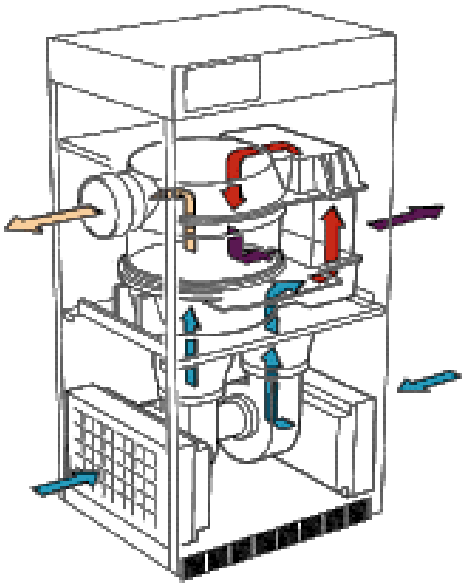
MOISTURE LOAD:

Air changes/h:	0.3
Open Door min/h:	10
Number of persons:	1
Ventilationm/h:	0
Operation Time %:	100
Water surface m²:	0
Temp °C:	0
Unspecified loadkg/hr:	0

RESULT:

	Design	Average
Calculation method:	FLOAT	
Moisture Load kg/hr:	2.37	2.23
Selected d/h unit:	ML270	
Quantity:	1	
Control / Saving %:	Type RH98	
Utilization %:	99	94
Connected power kW:	3.06	

Annual energy consumption	kWh
Dehumidification:	25,093
Heating:	0
Total:	25,093



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CLIMATE DATA:

Location: Ambient condition

CALCULATION DETAILS:

Month	Amb. T °C	Amb. RH %	Amb v.m/s	Room T °C	Room RH %	M-Load kg/h	Used %	D/h Q kWh	Saved kWh	Heat kWh	Rem
Jan	30.0	85.0	1.0	25.0	50.0	2.2	93.6	2131	0		
Feb	30.0	85.0	1.0	25.0	50.0	2.2	93.6	1925	0		
Mar	30.0	85.0	1.0	25.0	50.0	2.2	93.6	2131	0		
Apr	30.0	85.0	1.0	25.0	50.0	2.2	93.6	2062	0		
May	30.0	85.0	1.0	25.0	50.0	2.2	93.6	2131	0		
Jun	30.0	85.0	1.0	25.0	50.0	2.2	93.6	2062	0		
Jul	30.0	85.0	1.0	25.0	50.0	2.2	93.6	2131	0		
Aug	30.0	85.0	1.0	25.0	50.0	2.2	93.6	2131	0		
Sep	30.0	85.0	1.0	25.0	50.0	2.2	93.6	2062	0		
Oct	30.0	85.0	1.0	25.0	50.0	2.2	93.6	2131	0		
Nov	30.0	85.0	1.0	25.0	50.0	2.2	93.6	2062	0		
Dec	30.0	85.0	1.0	25.0	50.0	2.2	93.6	2131	0		
ave/sum	30.0	85.0	1.0	25.0	50.0	2.2	93.6	25093	0		
design	30.0	88.0	0.0	25.0	50.0	2.4	99.2	3	0		