WHOLE-HOUSE HEAT LOSS & GAIN WORKSHEET

PRELIMINARY ESTIMATE

Homeowner Name									Phone Number											
Address							Zip													
						DESIG	3N C	ONE	OITIC	ONS										
WINTER: Inside Design Temperature					minus Outside Design Temperature						- Heating Temperature Difference								_(1)	
SUMMER:	Outside Desig	n Temperat	ure		min	us Inside Des	ign Te	mpera	ture _				Cooli	ng Te	mpera	ture I	Differe	ence		_
TABLE A - HEATING - WINDOWS & DOORS						TABLE B - COOLING - WINDOWS & DOORS														
Windo	эw Туре	Factor	x Area	=BTUH Loss					Outd	oor De	sign Tei	nperat	ure an	BTUH	/Squa	re Foo	t			=ВТИН
Dbl. Hung	Single Glass	1.5			1	Single Glass				Double Glass				Triple Glass				x Area	Gain	
Casement	Double Glass	.9				Direction	90	95	100	105	90	95	100	105	90	95	100	105	1	
Or sliding	Triple Glass	.7				N or shaded	20	25	30	35	15	20	20	25	10	15	15	20		
	Single Glass	1.4				NE & NW	35	40	45	55	30	35	35	40	25	25	30	30		
	Double Class	9			1	F R W	55	55	60	70	45	50	5N	55	35	4Π	4Π	45		

45 50 55 60 40

30

30 35 45 25 25

Doors (Sliding glass doors treated same as windows)

SE & SW

Double Glass

Triple Glass

Basement or Jalousie, w/storms

Sliding Doors - Double Glass

Other Doors w/storms

DUCT LOSS/GAIN MULTIPLIER

Fixed

.9

.6

2.2 2.0

1.3

TOTAL

30 30 35

20

20

20

Cooling

40

25

TOTAL

40

X1.15

45 45

30 30

CONSTRUCTION DATA		HEA	TING	COOLING				
DESCRIPTION	SQ. FT.	U Factor (3)	BTUH Loss	Cooling Factor (3)	BTUH Gain			
Gross Walls								
Gross Walls								
Windows & Doors (From Table A or B)								
Net Walls								
Net Walls								
Ceiling								
Floor								
People (Assume two per bedroom)				300				
Appliances (Kitchen Load)					1200			
Sensible Total								
Design Temp. Diff. For Heating Latent Load Factor for Cooling			X (1)		X1.3			
SUB TOTAL LOSS/GAIN								

- (1) Multiply heating design temperature difference by total of heat loss shown on Sensible Total line.
- (2) Calculate only if duct is in unconditioned space. Assume minimum 2" flexible or 1" rigid insulation. SEE ACCA Manual J Tables 3 & 6 for other multipliers.
- $\hbox{(3) Use factors from Table C on back. Additional factors can be obtained from ACCA Manual J.}\\$

(2)

TOTALS

G/: 7/9/2003

X1.10

^{*}This worksheet is not recommended for a room-by-room calculation, which is necessary for proper duct design.