

always
around you



Zehnder America, Inc.
6 Merrill Industrial Drive, Suite 7
Hampton, NH 03842

Exova

ZEHNDER MODEL COMFOAIR 550 HRV 9252 -25°C TEST (60-72 HOURS)

AVERAGE VALUES DURING TEST

STATIONS	1 COLD SUPPLY	2 WARM SUPPLY	3 WARM EXHAUST	4 COLD EXHAUST	NET WARM SUPPLY
AIR FLOW L/S	57.3	57.5	54.6	54.3	57.1
TEMPERATURE °C	-24.6	19.2	22.1	8.3	19.2
R.H. %	62.7	3.6	39.7	85.2	
DEW POINT °C	-29.2	-22.5	7.8	6.0	
HUMIDITY RATIO	.0003	.0005	.0066	.0058	.0005
ENTHALPY KJ/KG	-24.0	20.4	38.9	23.0	20.3
ENERGY CONTENT, KW	-1.65	1.41	2.55	1.50	
STATIC PRESS Pa	-28	22	-26	22	
CASE TEMP 20.5°C		AMBIENT TEMP 21.6°C		TOTAL READINGS 720	
HRV SURFACE MEASUREMENT		2.59 m ²			
CALCULATED EXTERNAL INPUT		2.01 KW			
FROM ABOVE AVERAGES		1.50 KW			

CALCULATIONS (ADJUSTED FOR CROSS-LEAKAGE)

SENSIBLE ENERGY RECOVERED	129609 KJ	36.002 KWH	3.000KW
SENSIBLE ENERGY EXHAUSTED	138333 KJ	38.426 KWH	3.202KW
SENSIBLE RECOVERY EFFICIENCY	91 %		
SENSIBLE PERFORMANCE COEFFICIENT	40		
TOTAL ENERGY RECOVERED	131188 KJ	36.441 KWH	3.037KW
TOTAL ENERGY EXHAUSTED	186257 KJ	51.738 KWH	4.312KW
TOTAL RECOVERY EFFICIENCY	69 %		
TOTAL PERFORMANCE COEFFICIENT	41		
WATER RECOVERED	.60 Kg		
WATER EXHAUSTED	18.82 Kg		
LATENT PERFORMANCE COEFFICIENT	.03		
CASING LOSSES	927 KJ	.258 KWH	.021KW
DEFROST ENERGY (Recirc)	0 KJ	0.000 KWH	0.000KW
SUPPLY FAN ENERGY	970 KJ	.269 KWH	.022KW
EXHAUST FAN ENERGY	2263 KJ	.628 KWH	.052KW
EXHAUST AIR TRANSFER RATIO	.01		
TOTAL EXHAUST FLOW	2359 m ³		
NET EXHAUST FLOW	2342 m ³		
TOTAL SUPPLY FLOW	2484 m ³		
NET SUPPLY FLOW	2467 m ³		
MAXIMUM VENTILATION	2467 m ³	57.1 L/S	
APPARENT SENSIBLE EFFECTIVENESS	99 %		