PERMIT

fans and drives
ZIEHL-ABEGG

EC Motors Only

Fan Noise Analysis

PN 06992 Project Co-oP Prospect

				HIGH AMBT DAY	Night Set Back
Fan Reference/Model	ETA Vent 800 Owlett		Ziehl Manufr	+32℃/+43℃	+20℃/+40℃
				Point 1	Point 2
Maximum Volume of Air to meet Duty		Total	m3/hr	12,438	6,315
No of Fans required			No	3	3
Maximum Fan capacity - volume		Total	m3/hr	62,400	55,950
		per fan	m3/hr	20,800	18,650
Required air volume required to meet duty		per Fan	m3/hr	4,146	2,105
Lw_A{dBA} at Maxm. Fan capacity		per Fan	dB(A)	83	82
	power to pressure adjustment			76	75
Adjusted Lp rating for	3 fans		+ dB(A)	4.8	4.8
		TOTAL	dB(A)	80.8	79.8
Free field dBA rating at distance per fan			m	10	10
Maximum available Pa at Maximum fan capacity			Pa	200	233
Fan Speed at Maximum fan capacity			rpm	1,130	1,130
Voltage at maximum fan capacity			V	400	400
Signal Voltage at maximum fan capacity			V DC	10	10
Coil resistance at Required fan capacity			Pa	8	3
	+Other resistances		Pa	0	0
Results					
				Point 1	Point 2
Signal Voltage @ Required air volume			V	1.99	1.13
Fan Speed at required fan capacity			rpm	225	128
Lw{dBA} at required Fan capacity		per fan	dB(A)	41	28
Coil resistance at Required fan volume capacity			Pa	8	3
Fan Pa at required fan volume capacity			Pa	7.95	2.97
Anticipated Sound pressure level @	10 m		dB(A)	60.77	59.77
All fans running at maxm. capacity	3 Fans				
Anticipated Sound pressure level @	10 m		dB(A)	25.75	12.40
All fans running at required capacity	3 Fans				

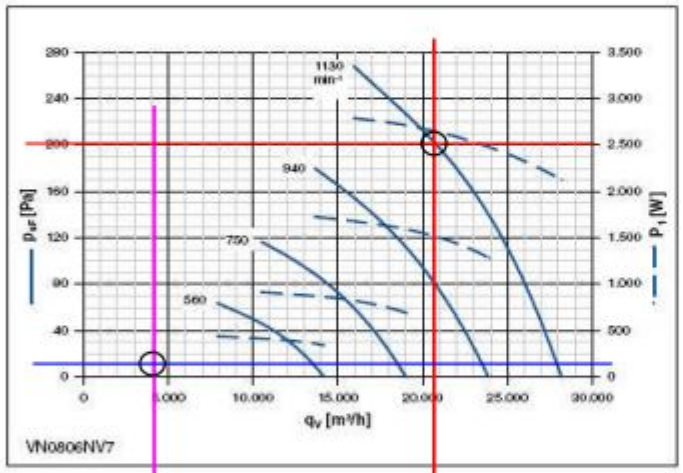
+32℃/+43℃ High Ambient

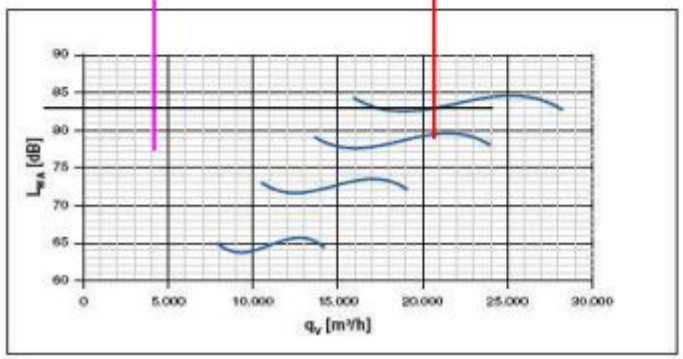
FE2owlet-ETAvent

VN080-6I_.6N.V7L

3~ 380...480 V 50/60 Hz IP54

P_1	2,6	kW
I	4,1-3,3	A
n	1130	min⁻¹
t_R	60	°C





+20℃/+40℃ Night Set Back

FE2owlet-ETAvent

VN080-6I_.6N.V7L

3~ 380...480 V 50/60 Hz IP54

P_1	2,6	kW
I	4,1-3,3	A
n	1130	min⁻¹
t_R	60	°C

