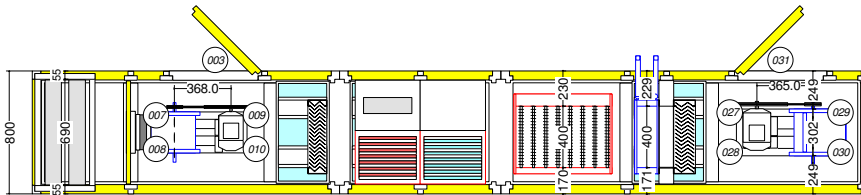
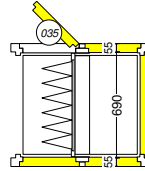
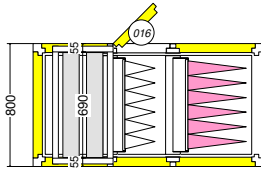
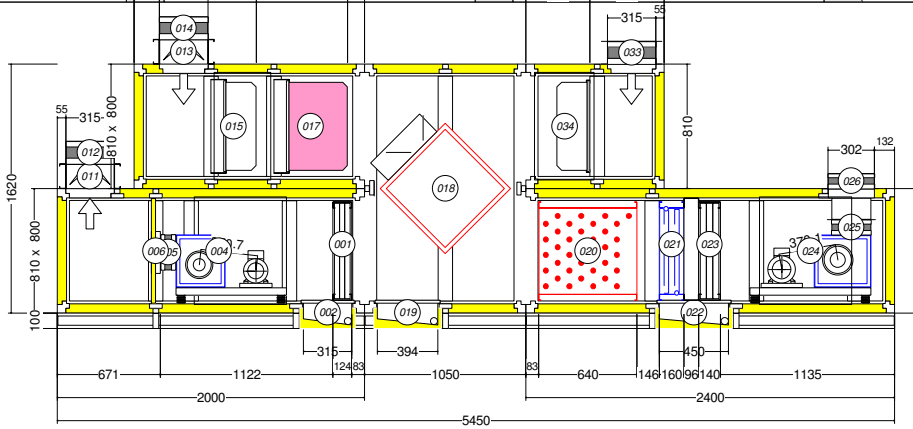


28/04/2008	04/07/2008	P 1 / 11	57732134	A=AAINGIRPRTUSIY[_acfnntv]	Nexus-1 ver.602.3015	0
Project				Model		
3618				YMA - 0810H-0800W		
Ref.					Flow	
AHU-APRON-mod					0.61 m3/s	

04	RDH 180 R - 4728 RPM - 0.75 kW	11	EXH DAMPER 315 x 690 mm	13	FA DAMPER 315 x 690 mm	15	G4
17	F7	18	HA0600-0330-045-2ECO-1110-0350 x 350	20	22.9 kW - 4 Step	21	P40-16AR 3R-14T-400A-2.5Pa Cu/Al
24	RDH 200 R - 5100 RPM - 1.50 kW	22	EXH DAMPER 315 x 690 mm	34			



PANELS / FRAME			Break out Airborne sound power (dB)												
	Thickness	60 mm						A	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	8 KHz
	Insulation	polyurethane 40 kg/m3						65.1	74	63	64	58	53	38	31
	External sheet	CA26-06	Preplasticized steel sheet 0.6 mm - WHITE A26				Mechanical characteristics (EN1886)								
	Internal sheet	CZINC06	Galvanised Steel 0.6 mm -				Casing strength	Casing air leakage	Thermal transmitt.	Thermal bridging					
ALUMINIUM FRAME	PR55						<b>D1</b>	<b>L1</b>	<b>T3</b>	<b>TB4</b>					
BASE FRAME	CBZN{ H = 100 mm }														

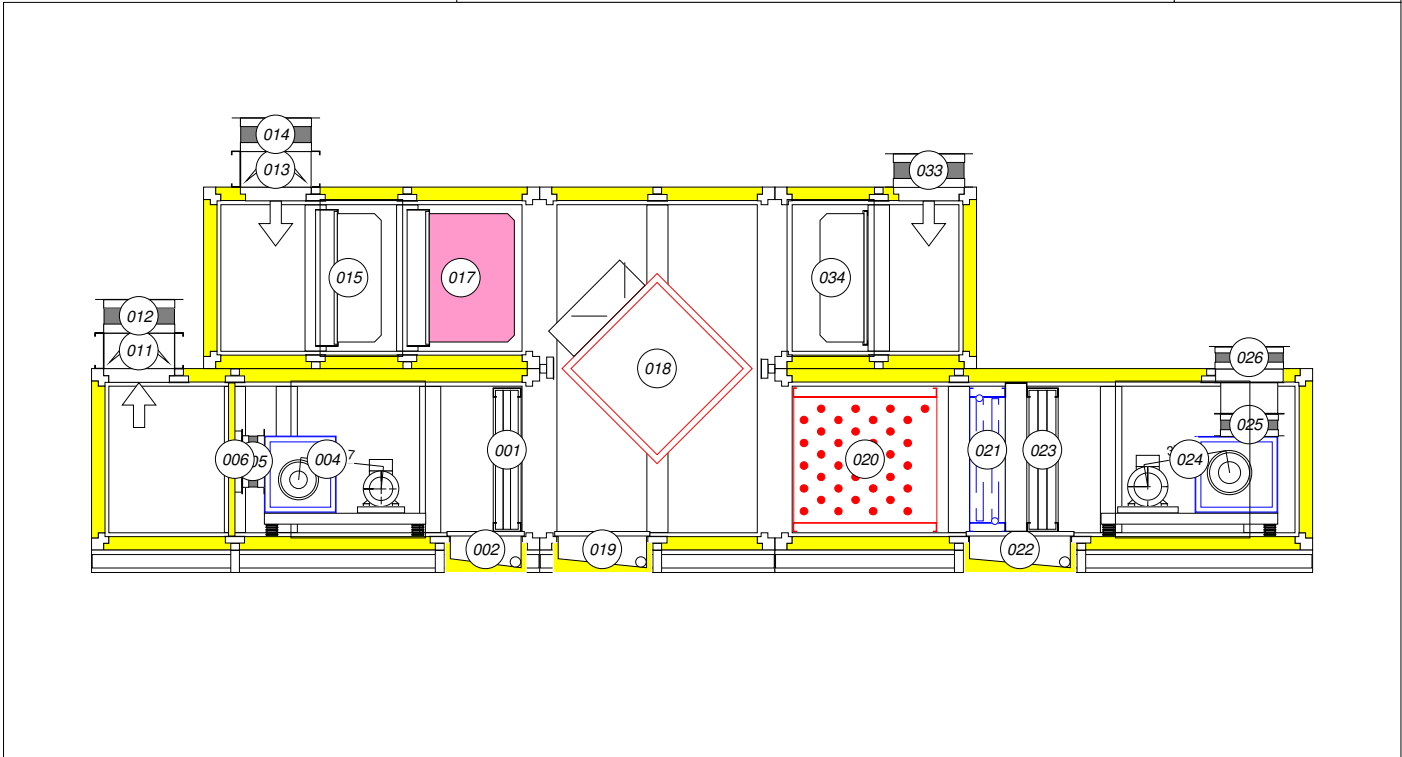
**NOTE :**

Total weight

**903 kg**



28/04/2008	04/07/2008	P 2 / 11	57732134	A=AAINGIRPRTUSYI[_acfnntv]	Nexus-1 ver.602.3015	0
Project				00030000	NXSCSTSVRI-L069	
3618				Model		
Ref.				AHU-APRON-mod		Flow
						0.61 m3/s





IN-DUCT SOUND POWER LEVEL dB									
		125	250	500	1000	2000	4000	8000	A
	<b>INLET</b>	<b>81</b>	<b>78</b>	<b>72</b>	<b>62</b>	<b>57</b>	<b>48</b>	<b>42</b>	<b>73.7</b>
015	G4	-1	-1	-1	-1	-3	-3	-4	
017	F7	-3	-4	-7	-10	-10	-13	-13	
018	HA0600-0350-045-2E00-1-0-0-0350 x 350	-2	-3	-3	-3	-7	-8	-8	
021	P40-16AR 3R-14T-400A-2,5Pa Cu/Al	-2	-2	-2	-2	-3	-3	-3	
<b>024</b>	<b>RDH 200 R - 5100 RPM - 1.50 kW</b>	<b>89</b>	<b>88</b>	<b>85</b>	<b>78</b>	<b>80</b>	<b>75</b>	<b>70</b>	<b>87.4</b>
	<b>OUTLET</b>	<b>89</b>	<b>88</b>	<b>85</b>	<b>78</b>	<b>80</b>	<b>75</b>	<b>70</b>	<b>87.4</b>




IN-DUCT SOUND POWER LEVEL dB									
		125	250	500	1000	2000	4000	8000	A
	<b>INLET</b>	<b>72</b>	<b>75</b>	<b>78</b>	<b>73</b>	<b>68</b>	<b>61</b>	<b>51</b>	<b>78.9</b>
034	G4	-1	-1	-1	-1	-3	-3	-4	
018	HA0600-0350-045-2E00-1-0-0-0350 x 350	-2	-3	-3	-3	-7	-8	-8	
<b>004</b>	<b>RDH 180 R - 4728 RPM - 0.75 kW</b>	<b>75</b>	<b>79</b>	<b>82</b>	<b>77</b>	<b>78</b>	<b>72</b>	<b>63</b>	<b>84.5</b>
	<b>OUTLET</b>	<b>75</b>	<b>79</b>	<b>82</b>	<b>77</b>	<b>78</b>	<b>72</b>	<b>63</b>	<b>84.5</b>

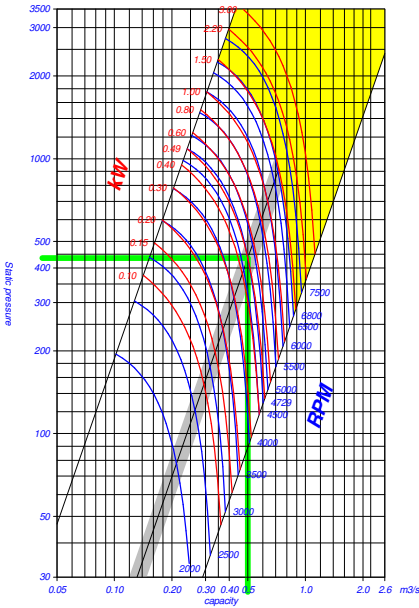
AIRBORNE SOUND POWER LEVEL dB									
		125	250	500	1000	2000	4000	8000	A
		<b>74</b>	<b>63</b>	<b>64</b>	<b>58</b>	<b>53</b>	<b>38</b>	<b>31</b>	<b>65.1</b>

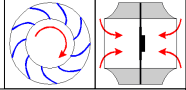
28/04/2008	04/07/2008	P 3 / 11	57732134	A=AAINGIRPRTUSYI[_acfnntv]	Nexus-1 ver.602.3015	0
Project				Model		
3618				YMA - 0810H-0800W		
Ref.					Flow	
AHU-APRON-mod					0.61 m3/s	

001	<b>MOISTURE ELIMINATOR</b>						
	Flow 0.50 m3/s	Dimensions 1 x 640 x 480 mm	bends # 3	Air vel. 2.23 m/s	Blades material DH2500	Frame material CAL--15	Pressure Drop 16

002	<b>DRAIN PAN</b>						
	Material C304-12					Drain size 48.00 mm	

003	<b>ACCESS DOOR</b>						
	Dimensions 700 x 600 mm		Handles + Hinges				
							

004	<b>CENTRIFUGAL FAN</b>								
	<b>FAN</b>		<b>MOTOR</b>		<b>V-BELT DRIVE</b>		<b>ACCESSORIES</b>		
	Model 1 x RDH 180 R		Qty & motor model 1xD80B-4P-0,75KW		Fan pulley 106SPA1+BU161020		<input checked="" type="checkbox"/> Belt drive		
	Flow 1 x 0.50 m3/s		BROOK		Motor pulley 355SPA1+BU201219				
	Fan outlet vel. 9.53 m/s		Nominal motor power 0.75 kW		Belts 1 x SPA1507				
	Ext. static 250 Pa		motor RPM 1400 rpm						
	Min. I.P.D. 94 Pa		Motor efficiency 78.20 %						
	Max I.P.D. 276 Pa		In 1.90 Amp						
	Avg. I.P.D. 185 Pa		Is/In 78.20						
	Avg. I.P.D. 185 Pa		Power factor 0.74						
	Total static pressure 435 Pa		Start Power factor 0.82						
	RPM 4729 rpm		Nominal torque 5.08 Nm						
	Efficiency 50.06 %		Locked rotor torque Ts/Tn 3.50						
	Shaft power[0.00] 1 x 0.49 kW		Maximum torque Tmax/Tn 3.90						
	Air volume		m3/s	0.475	0.487	0.500	0.512	0.525	
	Total static pressure		Pa	510	472	435	397	359	
	Shaft power		kW	0.495	0.492	0.489	0.486	0.482	
	Electrical Power Input		kW	0.734	0.730	0.725	0.721	0.716	
	SFP1			1.042	1.010	0.978	0.948	0.919	
SFP2			1.546	1.498	1.451	1.406	1.363		
In-duct sound power (dB)								Vibration monitoring (sensors+teflon cable+BNC termination box) NO  Vibration class BV-2 ISO1694:2003 5.6 mm/s RMS filter in @ rot. freq.  Spring Deflection 20 mm  Bearing life 20000 HRS	
A	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	8 KHz		
84.5	75	79	82	77	78	72	63		



28/04/2008	04/07/2008	P 4 / 11	57732134	A=AAINGIRPRTUSYI[_acfnntv]	Nexus-1 ver.602.3015	0
Project				Model		
3618				YMA - 0810H-0800W		
Ref.					Flow	
AHU-APRON-mod					0.61 m3/s	

<b>011</b>	<b>DAMPER/FLEX. CONN/LOUVRE</b>					
	Flow	Dimensions	Model	Air vel.	Pressure drop	
	0.50 m3/s	315 x 690 mm	A160	2.30 m/s	3 Pa	
Damper	Flexible connection	Louvre	Actuator			
Yes	Yes	No	NO			

<b>013</b>	<b>DAMPER/FLEX. CONN/LOUVRE</b>					
	Flow	Dimensions	Model	Air vel.	Pressure drop	
	0.61 m3/s	315 x 690 mm	A160	2.81 m/s	4 Pa	
Damper	Flexible connection	Louvre	Actuator			
Yes	Yes	No	NO			

<b>015</b>	<b>FILTERS</b>									
	STAGE #	Air Volume	CLASS	TYPE	Model	QTY. FULL SIZE	QTY. HALF SIZE	LENGTH MM		
	1	0.61 m3/s	<b>G4</b>	BAG	HICAP-195-G4	1	0	195 mm		
	Frame				Galvanised Steel					
	Clean	Final	Avg							
	22 Pa	185 Pa	103 Pa							
			<b>ACCESSORIES</b>							

<b>016</b>	<b>ACCESS DOOR</b>								
	Dimensions		Handles + Hinges						
	700 x 369 mm								

28/04/2008	04/07/2008	P 5 / 11	57732134	A=AAINGIRPRTUSYI[_acfnntv]	Nexus-1 ver.602.3015	0
Project				3618	Model	
Ref.				AHU-APRON-mod	Flow	
					YMA - 0810H-0800W	
					0.61 m3/s	

017	<b>FILTERS</b>																		
	STAGE #	Air Volume	CLASS				TYPE		Model		QTY. FULL SIZE	QTY. HALF SIZE	LENGTH MM						
	1	0.61 m3/s	<b>F7</b>				BAG		SFLOW-380-F7		1	0	380 mm						
	Frame																		
	Galvanised Steel																		
1																			
Clean			Final			Avg													
45 Pa			240 Pa			142 Pa													
<p style="text-align: center;"><b>ACCESSORIES</b></p>																			

018	<b>YORK</b>																
	Model				Qty	Material				Sealant							
	HA0600-0350-045-2EOO-1-0-0-0350 x 350				1	Aluminum				Silicone							
	<b>SUMMER</b>																
	Fresh Air							Exhaust									
	m3/s	kW	Eff.%	Inlet		Outlet		Pa	m3/s	kW	Eff.%	Inlet		Outlet		Pa	
0.6	1.6	30.8	°C	%	°C	%	334	0.2	1.6	77.7	°C	%	°C	%	70		
32.0	50.0	29.8	56.5														
<b>WINTER</b>																	
Fresh Air							Exhaust										
m3/s	kW	Eff.%	Inlet		Outlet		Pa	m3/s	kW	Eff.%	Inlet		Outlet		Pa		
0.6	5.9	31.6	°C	%	°C	%	294	0.2	5.9	79.8	°C	%	°C	%	63		
-5.0	80.0	2.9	42.7														


019	<b>DRAIN PAN</b>																					
	Material										Drain size											
C304-12										48.00 mm												


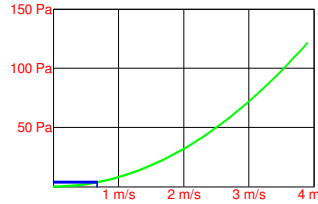

020	<b>ELECTRIC HEATER</b>																					
	Flow		Tootal load		Stages		Pressure Drop															
	0.61 m3/s		22.9 kW		4		80 Pa															
	In				Out																	
DB		°C		DB		°C																
-15.00				16.00																		




021	<b>COIL</b>																					
	Flow		Qty	Model								Air dens.										
	0.61 m3/s		1	P40-16AR 3R-14T-400A-2,5Pa Cu/Al [ 0 mt ]				5.19 dm3		16.50 m2		1.225 kg/m3										
	Air side		DB	WB	UR	Tootal load	Sensible load	Air vel.	Pressure Drop													
	In		35.00 °C		40.00 %	1x11.0 kW	1x10.0 kW	2.72 m/s	124 Pa													
	Out		21.99 °C		82.11 %																	
	WATER		temp.	Water flow		Water P.D.	Water vel.	Connection size														
	In		7.00 °C	1 x 0.53 l/s		39 kPa	1.36 m/s	1"														
	Out		12.00 °C																			
	NC	Fins material		Tubes material		Headers	Frame	Flange	Counterflange													
2	AL@0.13mm		CU@0.40mm		Steel	Galvanised steel	NO	NO		[1320][ 2.72RT][2][53][23.0]												



28/04/2008	04/07/2008	P 7 / 11	57732134	A=AAINGIRPRTUSIY[_acfnntv]	Nexus-1 ver.602.3015	0
Project				00030000	NXSCSTSVRI-L069	
3618					Model YMA - 0810H-0800W	
Ref. AHU-APRON-mod					Flow 0.61 m3/s	

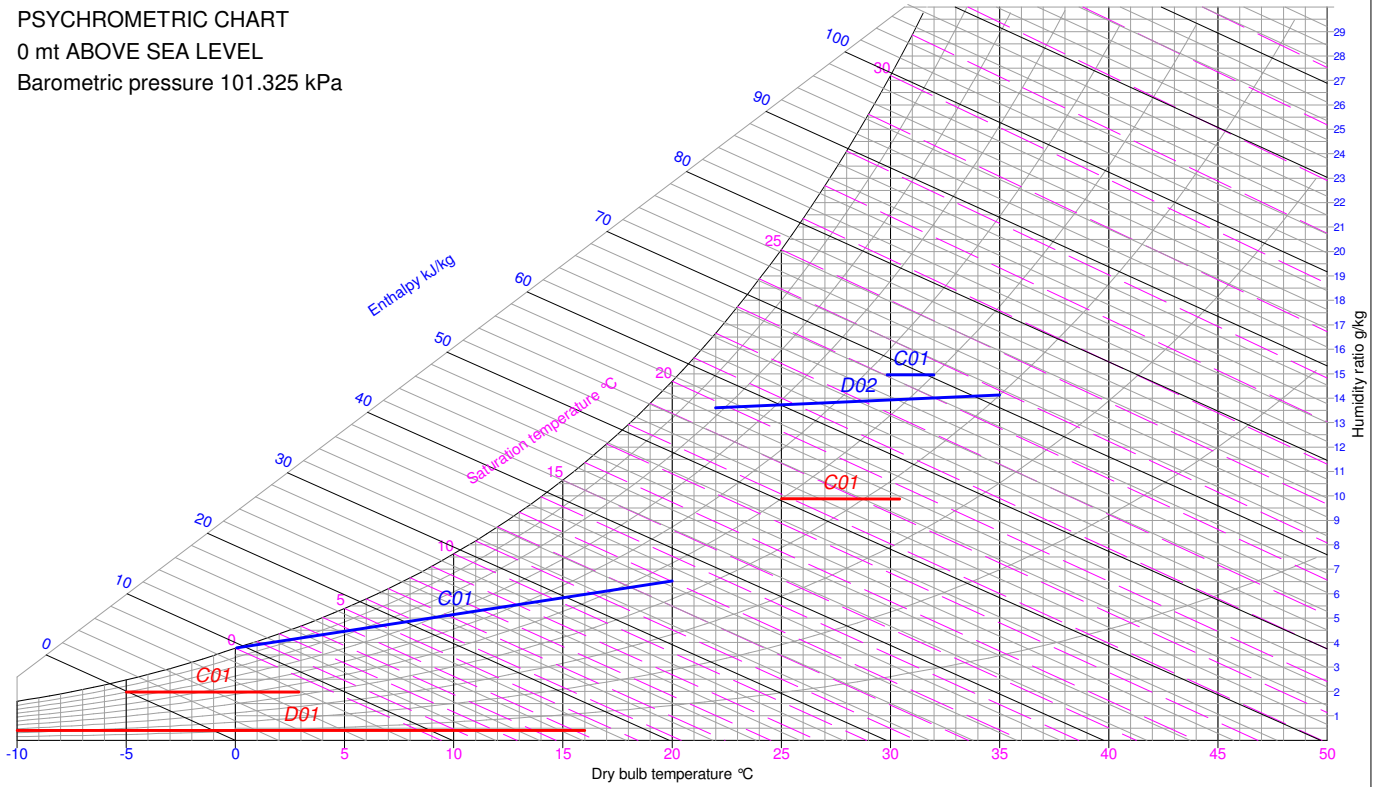
032	<b>DAMPER/FLEX. CONN/LOUVRE</b>						
	Flow 0.50 m3/s	Dimensions 315 x 690 mm	Model	Air vel. 2.30 m/s	Pressure drop 3 Pa		
	Damper No	Flexible connection Yes	Louvre No	Actuator NO			

034	<b>FILTERS</b>									
	STAGE #	Air Volume	CLASS	TYPE	Model	QTY. FULL SIZE	QTY. HALF SIZE	LENGTH MM		
	1	0.24 m3/s	<b>G4</b>	BAG	HICAP-195-G4	1	0	195 mm		
	Frame				Galvanised Steel					
	Clean				Final		Avg			
3 Pa				185 Pa		94 Pa				
										
<b>ACCESSORIES</b>										

035	<b>ACCESS DOOR</b>									
	Dimensions 700 x 388 mm				Handles + Hinges					
										

28/04/2008	04/07/2008	P 8 / 11	57732134	A=AANGIRPRTUSIY[_acfnntv]	Nexus-1 ver.602.3015	0
Project				Model		
3618				YMA - 0810H-0800W		
Ref.					Flow	
AHU-APRON-mod					0.61 m3/s	

PSYCHROMETRIC CHART  
 0 mt ABOVE SEA LEVEL  
 Barometric pressure 101.325 kPa



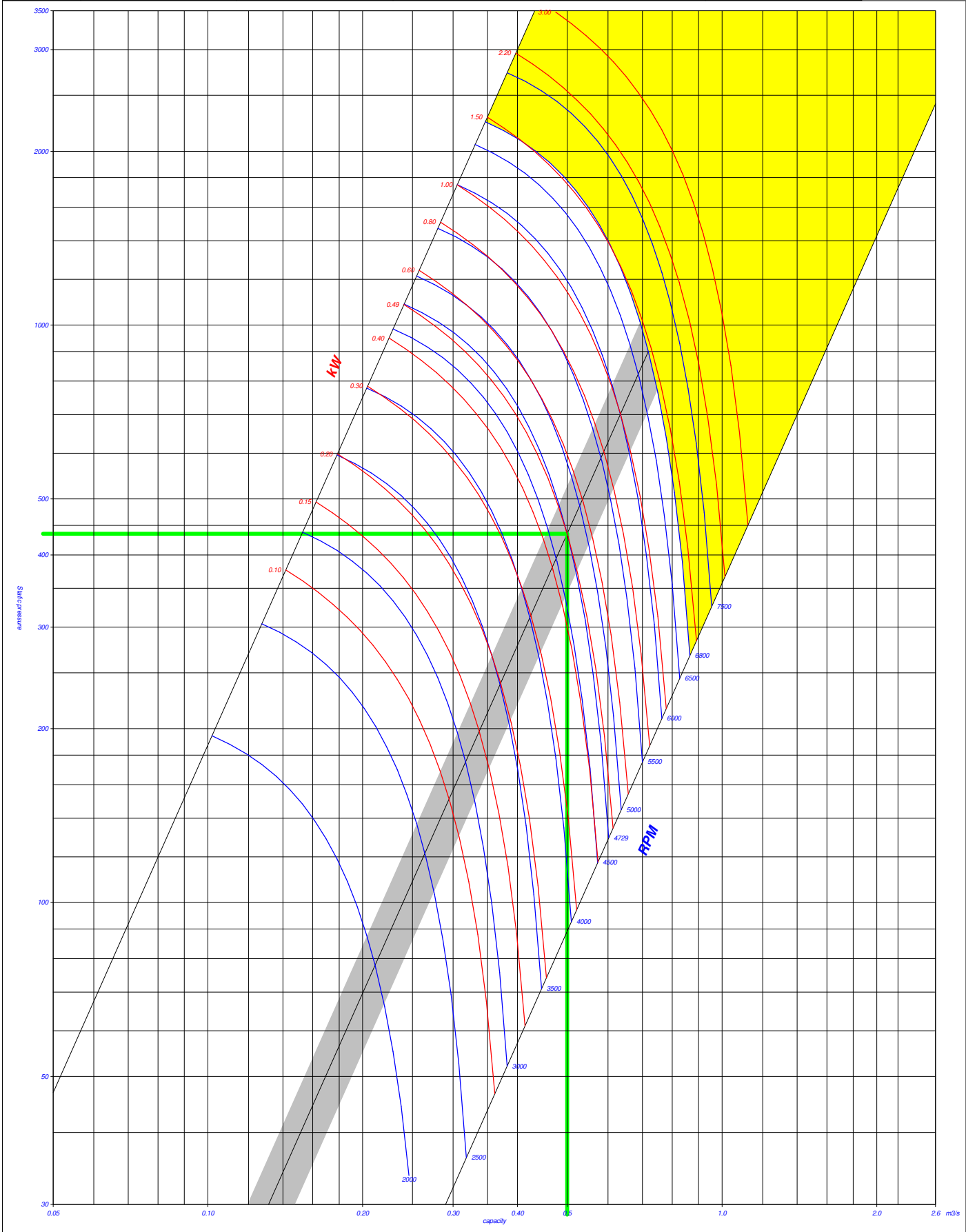
	Inlet					Outlet					Total Load kW	Sensible Load kW
	Dry Bulb °C	Wet Bulb °C	Rel. Humidity %	Enthalpy kJ/kg	Abs. Humidity g/kg	Dry Bulb °C	Wet Bulb °C	Rel. Humidity %	Enthalpy kJ/kg	Abs. Humidity g/kg		
C01	32.00	23.65	50.00	70.46	14.96	29.84	23.05	56.52	68.22	14.95		
C01	25.00	17.87	50.00	50.31	9.88	30.44	19.64	36.38	55.87	9.88		
C01	-5.00	-5.82	80.00	-0.10	1.98	2.91	-0.88	42.71	7.89	1.98		
C01	20.00	13.06	45.00	36.68	6.53	0.05	0.05	100.00	9.53	3.79		
D01	-15.00	-16.27	40.00	-14.09	0.41	16.00	4.25	3.64	17.12	0.41		
D02	35.00	23.92	40.00	71.45	14.13	21.99	19.81	82.11	56.70	13.61		



### FAN OPERATING POINT

28/04/2008	04/07/2008	P 9 / 11	57732134	A=AAINGIRPRTUSIY[_acfnntv]	Nexus-1 ver.602.3015	0
Project				Model		
3618				YMA - 0810H-0800W		
Ref.					Flow	
AHU-APRON-mod					0.61 m3/s	

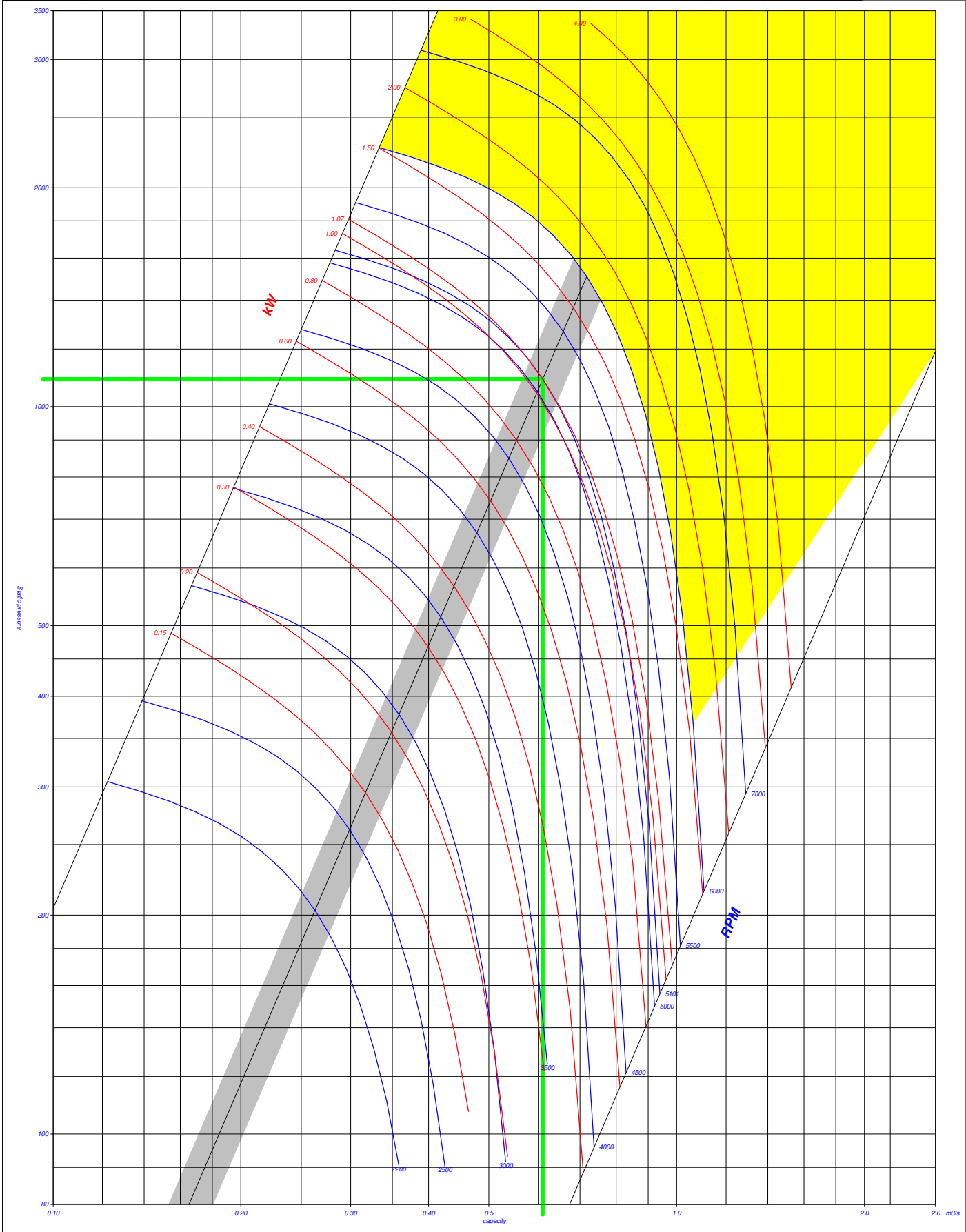
Item	Model	Air Volume	Static Press.	RPM	Shaft power
004	RDH 180 R	0.50 m3/s	435 Pa	4729	0.49 kW



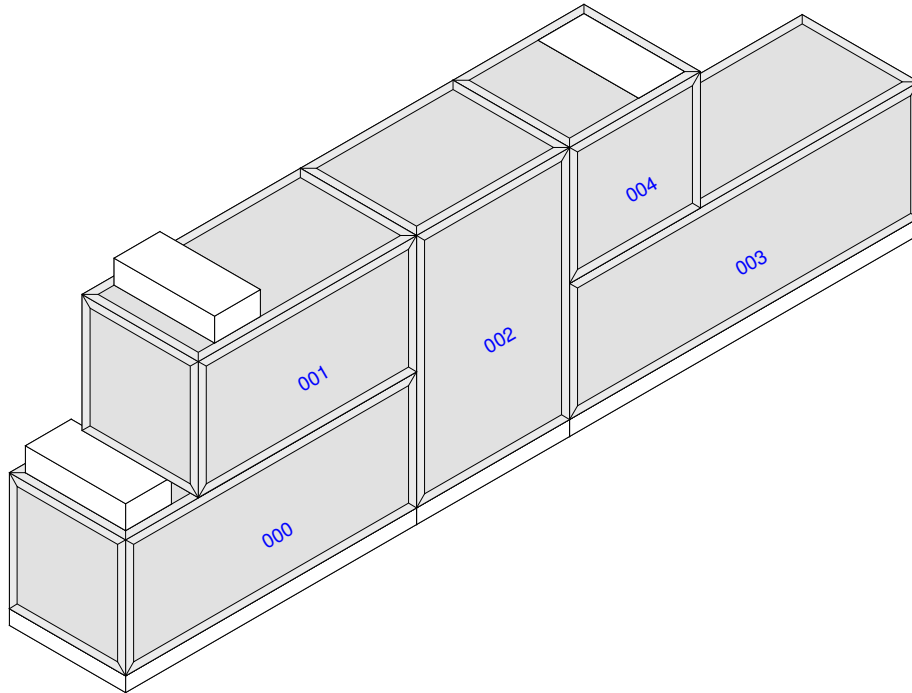
### FAN OPERATING POINT

28/04/2008	04/07/2008	P10 / 11	57732134	A=AAINGIRPRTUSIY[[_acfnntv 00030000	Nexus-1 ver.602.3015 NXSCTSVRH-L069	0
Project <b>3618</b>					Model <b>YMA - 0810H-0800W</b>	
Ref. <b>AHU-APRON-mod</b>					Flow <b>0.61 m3/s</b>	

Item <b>024</b>	Model <b>RDH 200 R</b>	Air Volume <b>0.61 m3/s</b>	Static Press. <b>1091 Pa</b>	RPM <b>5101</b>	Shaft power <b>1.07 kW</b>
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28/04/2008	04/07/2008	P11 / 11	57732134	A=AAINGIRPRTUSIY[_acfnntv]	Nexus-1 ver.602.3015	0
Project				00030000	NXSCSTSVRI-L069	
3618					Model	
AHU-APRON-mod					YMA - 0810H-0800W	
Ref.					Flow	
					0.61 m3/s	



ITEM	Dimensions			Shipping dimensions			
	L mm	W mm	H mm	L mm	W mm	H mm	Kg
--000	2000	800	910	0	0	0	222
--001	1500	800	810	0	0	0	128
--002	1050	800	1720	0	0	0	152
--003	2400	800	910	0	0	0	318
--004	900	800	810	0	0	0	81