Elandlaan 8
3734 CP Den Dolder (Utrecht)
The Netherlands
IBAN NL15ABNA0407127623
liberty@swegon.nl

BTW nr.NL802.308.570.B01
KvK nr. 30115949

(BIC ABNANL2A)

Technical specification: Pos A – AHU 1 (42x right)
Technical specification: Pos B - AHU 2 (42x left)

Glass fibre reinforced composite air handling unit

Type		: Liberty 3520
Execution		: Single
Unit construction:		
- posts/framework		: Glass fibre reinforced composite, colour RAL 7015
- walls/panels		: Double skin glass fibre reinforced sandwich panels, with intermediate PU insulation, panel thickness 70mm, colour RAL 7036.

Mechanical performance of the casing according to NEN-EN 1886:

-mechanical strength		: Class	D1	(M)		D1	(R)		
-air leakage		: Class	L1	(M)		L1	(R) @ -400 Pa / +400 Pa		
-filter bypass leakage		: Class	F9	(M)		F7	(R)		
-thermal transmittance		: Class	T1	(M)					
-thermal bridging		: Class	TB1	(M)					
-acoustic insulation	[Hz]	:	***125***	***250***	***500***	***1k***	***2k***	***4k***	***8k***
	[dB]		11	13	13	14	13	30	38 (M)

Durability "high" according EN ISO 12944-2 in the highest corrosion load category		:	CX extreme (above C5-I and C5-M)
Air velocity	(m/s)	:	2,56
Design outdoor conditions:			
Winter T/r.h./a.h.	(°C/%/g/kg)	:	13,6 / 99 / 9,6
Summer T/r.h./a.h.	(°C/%/g/kg)	:	30 / 50 / 13,3
Design air pressure	(Pa)	:	101325
Casing radiated noise	(dB(A))	:	72
SFP_{int}	($W/m^3/s$)	:	190
$SFP_{int-lim.}$	($W/m^3/s$)	:	230
Installation		:	Indoor
L x W x H	(mm)	:	3.701 x 1.362 x 2.379
Weight approx.	(kg)	:	1.147
Height base frame	(mm)	:	140
Connection side		:	right
Inspection side		:	right

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Supply

Filter, supply Pos A

Type		:	Panel filter
Class		:	ePM10 75%
Initial / final pressure drop	(Pa)	:	125 / 225
Design pressure drop	(Pa)	:	175
Amount/Dimensions	(mm)	:	6 / Panel filter ePM10 75% 592x592x48mm 2 / Panel filter ePM10 75% 287x592x48mm

Fan, direct driven, supply Pos A

Type		:	EC – 56 (VBH0560CTTPS)
Amount		:	2
Variable speed drive		:	Integrated (0-10V)
Air volume flow *)	(m^3/h)	:	12.600
Static pressure AHU	(Pa)	:	200 ext., 601 int.
System effect	(Pa)	:	21
Static fan pressure	(Pa)	:	822
Dynamic pressure	(Pa)	:	66
Total fan pressure	(Pa)	:	888
$\Delta p_{s\ int.}$	(Pa)	:	125
Absorbed power from mains	(kW)	:	7,892
Overall static efficiency	(%)	:	78
Speed fan	(RPM)	:	1.985
Motor power *)	(kW)	:	4,4
Voltage	(Volt)	:	460
Nominal current *)	(Amp)	:	6.7
Nominal speed	(RPM)	:	2080
Efficiency class		:	0
K-factor		:	381

Sound power level Lw / LwA			***125***	***250***	***500***	***1k***	***2k***	***4k***	***8k***	***(Hz)*** LwA
Fan inlet	(dB)	:	83	81	76	78	77	82	73	86
Fan outlet	(dB)	:	85	81	84	88	82	83	77	91
Inlet opening AHU, total	(dB)	:	82	79	72	73	70	74	63	79
Outlet opening AHU, total	(dB)	:	82	76	77	79	72	73	67	82

*) value per fan

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Cooler, supply Pos A

Type		:	10 rows
Medium		:	Water
Material		:	Cu/Al - Inox 304 kader
Coating		:	Blygold (option)
Air volume flow	(m^3/h)	:	25.200
Capacity	(kW)	:	150
Air In	(°C / % / g/kg)	:	23,5 / 69 / 12,5
Air Out	(°C / % / g/kg)	:	13,6 / 98 / 9,5
Design pressure drop	(Pa)	:	309
Medium T_{in}/T_{out}	(°C)	:	9,1 / 16,1
Capacitiy	(m^3/h)	:	18,43
Medium press. drop	(kPa)	:	34,7
Condensate flow	(ltr/h)	:	92,84
Coil volume	(ltr)	:	77
Connection size		:	DN 65 / External connection

Droplet eliminator, supply

Type		:	plastic droplet eliminator incl. Inox drip tray
Design pressure drop	(Pa)	:	28

Heater, supply Pos A

Type		:	3 rows
Medium		:	Water
Material		:	Cu/Al - Inox 304 kader
Coating		:	Epoxy
Capacity	(kW)	:	140,6
Air volume flow	(m^3/h)	:	25.200
Air In	(°C / %)	:	13,6 / 99
Air Out	(°C / %)	:	30 / 36
Design pressure drop	(Pa)	:	89
Medium T_{in}/T_{out}	(°C)	:	50 / 40
Capacitiy	(m^3/h)	:	12,24
Medium press. drop	(kPa)	:	14,7
Coil volume	(ltr)	:	26
Connection size		:	DN 50 / External connection

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