

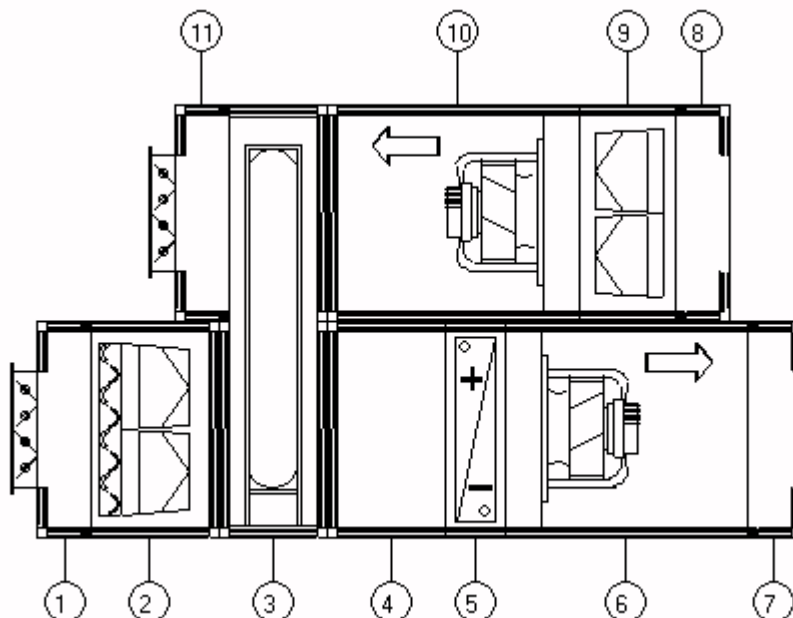


Range: D-AHU		ASTRA 6.2.5	ADN04FDD1 DB=EURD1
AHU Technical data sheet			
Offer No.	16.YS200C.F.00016-001/007	2016/02/23.	Page 1/6
Unit Quantity	1	Reference	
Project	Parlament		
Unit	AHU01		
Revision	05		

**Unit Sketch - Lateral view (not in scale - for description only)**



<b>Series</b>	Professional	<b>Unit Configuration</b>	Double Deck
<b>Model No</b>	700x1110	<b>Panel type</b>	SP 45
<b>Return Air Flow</b>	2500,00 m3/h	<b>Insulation type</b>	Mineral Wool(90 Kg/m3)
<b>Supply Air Flow</b>	2500,00 m3/h	<b>Aluminum Profile</b>	Natural
<b>Net Overall Height</b>	Supply=700 mm Return=760 mm Overall 1560 mm		
<b>Overall Width</b>	Supply=1110 mm Return=1110 mm Overall 1210 mm		
<b>Outer skin material</b>	Precoated 0.7 mm		
<b>Inner skin material</b>	Galvanized 0.5 mm	<b>Total Weight</b>	492 Kg
<b>Overall Length</b>	2330 mm		
<b>Unit Base Height</b>	100 mm Aluminium		

Ext.Leakage Pos. / Neg. Pres. 0,36% / 0,36%

**Unit Options Included**

1 x Stretch Film		1 x Without Pallet	
UNIT PRICE		Payment	Standard terms and Conditions
		Validity	30 days

**Ex. Works - All sections Transportable**

All the information in this report should be considered as indicative and can be subject to variations. To be finalised on our General Arrangement drawing.

DAIKIN APPLIED EUROPE participates in the ECC Programme for Air Handling Unit; Check ongoing validity of certificate online: [www.eurovent-certification.com](http://www.eurovent-certification.com) or using: [www.certiflash.com](http://www.certiflash.com). This casing construction has not been tested.

Individual sections are supplied for site assembly by others and support legs (if applicable) are supplied loose for site fitting by others

All quoted fan volumes and noise levels are provided in accordance with the relevant fan manufacturers standard and are subject to industry accepted tolerances

Range: D-AHU		ASTRA 6.2.5	
AHU Technical data sheet			
Date	Offer No.	File reference	Page 2/6
2016/02/23.	16.YS200C.F.00016-001/007		

<b>Section n° 1</b>		<b>Length:</b>	400	[mm]
		<b>Height:</b>	700	[mm]
<b>Weight:</b>	50	[kg]	<b>Width:</b>	1110 [mm]

Component: 1		END SECTION		Length: 0 mm	
Damper One					
Mounting: External		Rod location: Left		Alignment:	
Height: 600 mm		Width: 1010 mm		Torque: 4,00 Nm	
Material: Galvanized		Press. Drop: 5,00 Pa			
Damper Two					
Mounting:		Rod location:		Alignment:	
Height:		Width:		Torque:	
Material:		Press. Drop:			

Component 2		CB-FILTER	Slide-Aluminium (Polyseal)	
			Primary Filter	
Quantity	Class	Dimensions	Thickness: 48 mm	Air flow rate: 0,69 m3/s
		305x610 mm	Air Velocity: 2,24 m/s	
		610x305 mm	Pressure drops selection on filter: Mean	
		610x610 mm	Filtering media: Synthetic	
1	G3	610x508 mm	Clean Dp: 60 Pa	
		508x610 mm	Mean Dp.: 105 Pa	
		508x508 mm	Max Dp.: 150 Pa	
			Secondary Filter	
Quantity	Class	Dimensions	Thickness: 149 mm	Air flow rate: 0,69 m3/s
		305x610 mm	Filtering media: Glass without Gasket   Energy Classification C	
		610x305 mm	Clean Dp: 125 Pa	
		610x610 mm	Mean Dp.: 163 Pa	
1	F7	610x508 mm	Max Dp.: 200 Pa	
		508x610 mm		
		508x508 mm		
	Options Included			
	1 x Door without porthole			

<b>Section n° 2</b>		<b>Length:</b>	440	[mm]
		<b>Height:</b>	1460	[mm]
<b>Weight:</b>	132	[kg]	<b>Width:</b>	1110 [mm]

Component	3	Heat Wheel	HWCV790K140	D = 790 mm	0.4 Kw	EATR: 0,00%
WINTER						
Power: 32,45 kW						
Return Air    Eff. :    74,36 %			Supply Air    Eff. :    79,57 %			
Flow rate: 2500 m3/h	Pr. Drop: 252 Pa		Flow rate: 2500 m3/h	Pr. Drop: 252 Pa		
Temp db on: 20,00 °C	Temp db off: -6,02 °C		Temp db on: -15,00 °C	Temp db off: 12,85 °C		
Temp wb on: 13,78 °C   r.h.:50,00%	Temp wb off: -6,22 °C   r.h.:95,00%		Temp wb on: -15,23 °C   r.h.:90,00%	Temp wb on: 8,18 °C   r.h.:52,64%		
SUMMER						
Power: 7,63 kW						
Return Air    Eff. :    82,11 %			Supply Air    Eff. :    81,79 %			
Flow rate: 2500 m3/h	Pr. Drop: 252 Pa		Flow rate: 2500 m3/h	Pr. Drop: 252 Pa		
Temp db on: 24,00 °C	Temp db off: 33,03 °C		Temp db on: 35,00 °C	Temp db off: 26,00 °C		
Temp wb on: 17,07 °C   r.h.:50,00%	Temp wb off: 20,03 °C   r.h.:29,60%		Temp wb on: 23,94 °C   r.h.:40,00%	Temp wb off: 21,41 °C   r.h.:66,91%		

Range: D-AHU		ASTRA 6.2.5	
<b>AHU Technical data sheet</b>		 	
Date	Offer No.	File reference	Page 3/6
2016/02/23.	16.YS200C.F.00016-001/007		

Component: 11	END SECTION	Length: 0 mm
<b>Damper One</b>		
Mounting: <b>External</b>	Rod location: <b>Left</b>	Alignment:
Height: <b>210 mm</b>	Width: <b>1010 mm</b>	Torque: <b>4,00 Nm</b>
Material: <b>Galvanized</b>	Press. Drop: <b>13,24 Pa</b>	
<b>Damper Two</b>		
Mounting:	Rod location:	Alignment:
Height:	Width:	Torque:
Material:	Press. Drop:	

<b>Section n° 3</b>			<b>Length:</b>	1490	[mm]
			<b>Height:</b>	700	[mm]
<b>Weight:</b>	186	[kg]	<b>Width:</b>	1110	[mm]

Component 4	EMPTY SECTION	Pressure Drop: 0 Pa
Type: <b>Access</b>		Length: 400 mm

Component 5	HEATING/COOLING DX	Fluid: <b>Evaporating</b>
Model: <b>1022A1905080520EO209</b>	<b>P22</b>	
Rows: <b>5</b>	N° Coil: <b>1</b>	
Tube Material: <b>Copper</b>	Gas Connections: <b>16/Plain Tube tails/LH</b>	
Tube Diameter: <b>3/8"</b>	N. Circuits: <b>1</b>	
Fin material: <b>Al</b>	<b>1 x EKEXV250(available if selected in control)</b>	
Fin Space: <b>2,00 mm</b>	AirFlow : <b>0,69 m3/s</b>	
<b>AIR SIDE COOLING</b>	<b>AIR SIDE HEATING</b>	
Total Capacity: <b>25,77 KW</b> Sens. Power: 17,49 KW	Coil Max Power* : <b>27 KW</b>	
Temp. Db On: <b>32,00 °C</b>	Temp. Db On: <b>10,0 °C</b>	
Temp. Wb On: <b>21,62 °C</b>	Temp. Db Off: <b>41,7 °C</b>	
Press. Drop: <b>70 Pa</b>	<b>FLUID SIDE</b>	
Temp. Db Off: <b>12,00 °C</b>	Fluid: <b>R410A</b>	Flow rate: <b>0,00 l/s</b>
Temp. Wb Off: <b>11,26 °C</b>	Fluid velocity: <b>6,84 m/s</b>	Fluid Volume: <b>5,04 dm3</b>
<i>*to be checked and limited to maximum Condensing Unit Capacity for Heating Mode</i>		
<b>VRV Xpress Input: [A] EKEXV250 ; [B] 25,77 Kw ; [C] 27 Kw ; [D] 1</b>		
	<b>Options Included</b>	
	1 x External Drain Standard -Galvanised	

Range: D-AHU		ASTRA 6.2.5	
<b>AHU Technical data sheet</b>			
Date	Offer No.	File reference	Page 4/6
2016/02/23.	16.YS200C.F.00016-001/007		

Component <b>6</b>									
Model: <b>MCEC310BB49</b>									
Size: <b>310</b>				<b>SUPPLY FAN</b>					
Rot. Speed: <b>2660 rpm</b>				<b>Single Fan</b>					
Max Rot. Speed: <b>3140 rpm</b>				Type : <b>EC</b>					
Electrical Power Input: <b>1,08Kw</b>				Air flow: <b>2500,00 m3/h</b>					
External static: <b>250 Pa</b>				TOTAL Efficiency (motor+impeller+electronic): <b>56,00%</b>					
Component Static: <b>600 Pa</b>				Quantity : <b>1</b>					
Total Static: <b>850 Pa</b>				Dynamic: <b>29 Pa</b>					
Total Press: <b>879 Pa</b>				Electronic Interface: <b>0-10V/PWM/MODBUS</b>					
LWS (dB)									
63 Hz:	125 Hz:	250 Hz:	500 Hz:	1 kHz:	2 kHz:	4 kHz:	8 kHz:		
<b>75</b>	<b>70</b>	<b>82</b>	<b>80</b>	<b>81</b>	<b>79</b>	<b>76</b>	<b>73</b>		
<b>Motor Data</b>		Quantity: <b>1</b>		Model: <b>IE4</b>		Power: <b>1,65 Kw   1 A</b>		Power supply: <b>3Ph-380-480V</b>	
		<b>Options Included</b>							
		1 x Door without porthole							

Component: 7		END SECTION		Length: 0 mm	
Damper One					
Mounting: HOLE		Rod location:		Alignment:	
Height: 600 mm		Width: 1010 mm		Torque:	
Material:		Press. Drop: 5,00 Pa		External Flexible	
Damper Two					
Mounting:		Rod location:		Alignment:	
Height:		Width:		Torque:	
Material:		Press. Drop:			



<b>Section n° 4</b>			<b>Length:</b>	990	[mm]
			<b>Height:</b>	760	[mm]
<b>Weight:</b>	124	[kg]	<b>Width:</b>	1110	[mm]

Component: 8		END SECTION		Length: 0 mm	
Damper One					
Mounting: HOLE		Rod location:		Alignment:	
Height: 660 mm		Width: 1010 mm		Torque:	
Material:		Press. Drop: 5,00 Pa		External Flexible	
Damper Two					
Mounting:		Rod location:		Alignment:	
Height:		Width:		Torque:	
Material:		Press. Drop:			

Range: D-AHU			ASTRA 6.2.5	
<b>AHU Technical data sheet</b>				
Date	Offer No.	File reference	Page 5/6	
2016/02/23.	16.YS200C.F.00016-001/007			

Component <b>9</b>		<b>FILTER</b>	Type: <b>Bag Filter</b>	<b>Slide-Aluminium (Polyseal)</b>
Quantity	Class	Dimensions	Thickness: <b>149 mm</b>	Air flow rate: <b>0,69 m3/s</b>
<b>1</b>	<b>M6</b>	305x610 mm	Filtering media: <b>Glass without Gasket   Energy Classification E</b>	
		610x305 mm	Air Velocity: <b>1,4 m/s</b>	
		610x610 mm	Pressure drops selection on filter: Mean	
		610x508 mm	Clean Dp: <b>50 Pa</b>	
<b>1</b>	<b>M6</b>	508x610 mm	Mean Dp.: <b>125 Pa</b>	
		508x508 mm	Dirty Dp.: <b>200 Pa</b>	
<b>Options Included</b>				
1 x Door without porthole				

Component <b>10</b>							
Model: <b>MCEC310AX52</b>							
Size: <b>310</b>				<b>RETURN FAN</b>			
Rot. Speed: <b>2353 rpm</b>				<b>Single Fan</b>			
Max Rot. Speed: <b>2580 rpm</b>				Type : <b>EC</b>			
Electrical Power Input: <b>0,78Kw</b>				Air flow: <b>2500,00 m3/h</b>			
External static: <b>250 Pa</b>				TOTAL Efficiency (motor+impeller+electronic): <b>59,00%</b>			
Component Static: <b>395 Pa</b>				Quantity : <b>1</b>			
Total Static: <b>645 Pa</b>				Dynamic: <b>29 Pa</b>			
Total Press: <b>674 Pa</b>				Electronic Interface: <b>0-10V/PWM/MODBUS</b>			
LWS (dB)							
63 Hz:	125 Hz:	250 Hz:	500 Hz:	1 kHz:	2 kHz:	4 kHz:	8 kHz:
<b>69</b>	<b>66</b>	<b>75</b>	<b>73</b>	<b>76</b>	<b>75</b>	<b>71</b>	<b>68</b>
<b>Motor Data</b>		Quantity: <b>1</b>	Model: <b>IE4</b>		Power: <b>1,00 Kw   1 A</b>	Power supply: <b>3Ph-380-480V</b>	
		<b>Options Included</b>					
		1 x Door without porthole					

			
T.Ext: -5°C		NRUV BVU SFPint: 1101 W/m <sup>3</sup> /s	
V.: 1,1/1,0m/s		DPint: Supply 378 Pa / Return 252 Pa	
Dry Temperature efficiency (according to EN308): 79,46%		Drive to be installed: VSD	

Range: D-AHU	RELEASE ASTRA 6.2.5	
<b>AHU Technical data sheet</b>		

## SOUND REPORT

Offer No	16.YS200C.F.00016-001/007	2016/02/23.	Page 6/6
Project	Parlament		
Unit	AHU01		
Revision	05		

<b>Panel type</b>	SP 45	<b>Insulation type</b>	MW (90 Kg/m3)
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## PANEL SOUND REDUCTION INDEX

	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	8 KHz	
<b>dB</b>	<b>13</b>	<b>24</b>	<b>30</b>	<b>35</b>	<b>23</b>	<b>32</b>	<b>36</b>	

<b>SUPPLY</b>	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	8 KHz	Total
LW	dB	dB	dB	dB	dB	dB	dB	dB(A)
FAN INLET	<b>68</b>	<b>79</b>	<b>76</b>	<b>71</b>	<b>72</b>	<b>69</b>	<b>67</b>	<b>78</b>
FAN OUTLET	<b>70</b>	<b>82</b>	<b>80</b>	<b>81</b>	<b>79</b>	<b>76</b>	<b>73</b>	<b>85</b>
UNIT INLET	<b>57</b>	<b>68</b>	<b>65</b>	<b>59</b>	<b>54</b>	<b>46</b>	<b>43</b>	<b>65</b>
UNIT OUTLET	<b>70</b>	<b>82</b>	<b>80</b>	<b>81</b>	<b>79</b>	<b>76</b>	<b>73</b>	<b>85</b>
AIRBORNE	<b>57</b>	<b>58</b>	<b>50</b>	<b>46</b>	<b>56</b>	<b>44</b>	<b>37</b>	<b>57</b>

<b>RETURN</b>	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	8 KHz	Total
LW	dB	dB	dB	dB	dB	dB	dB	dB(A)
FAN INLET	<b>64</b>	<b>72</b>	<b>70</b>	<b>65</b>	<b>68</b>	<b>65</b>	<b>64</b>	<b>73</b>
FAN OUTLET	<b>66</b>	<b>75</b>	<b>73</b>	<b>76</b>	<b>75</b>	<b>71</b>	<b>68</b>	<b>80</b>
UNIT INLET	<b>63</b>	<b>71</b>	<b>68</b>	<b>62</b>	<b>62</b>	<b>58</b>	<b>55</b>	<b>69</b>
UNIT OUTLET	<b>62</b>	<b>71</b>	<b>69</b>	<b>72</b>	<b>68</b>	<b>64</b>	<b>61</b>	<b>75</b>
AIRBORNE	<b>53</b>	<b>51</b>	<b>43</b>	<b>41</b>	<b>52</b>	<b>39</b>	<b>32</b>	<b>52</b>