

ATREA Leader in ventilation and heat recovery



Selection software for DUPLEX units first steps

✓ - Project	Operation point Design Controls Sp	pecification 🕒 Note Ca	talog sheets	
Ventilation, shop	Position name	Version	Quantity	AHU performance curve
B	Ventilation, shop		1 pcs	ê ¹²⁰⁰
Me.119.EC1, Mi.119.EC1 position: 10/0 NOMsup: 1400 m3/h / 150 Pa	AHU type indoor type rooftop	 with crossflow heat with counterflow heat 	recovery core sat recovery core	000
MOMexh: 1400 m3/h / 150 Pa Digital controls RD5 Price: on demand ErP 2018, ErP 2016	Special requests hygienic design acc. to VDI 6022 ErP 2016 	ErP 2018		008 at a c c c c c c c c c c c c c c c c c
🖶 Add a new equipment	/ Nominal values + Required values Supply Re	Winter operation Su	mmer operation	- ²⁰ 600
	Airflow External static pressure	1400 1400 150 150	1400 1400 m3/h 150 150 Pa	400
	Heating no Cooling	o heating v	cooling ~	200
	Outside air temperature	-16,0	32,0 °C	
	Outside air relative humidity Supply air temperature	90 18,4	40 % 27,6 ℃	0 500 1000 1500 2000 25 Airflow (m3/h
	Filtration O G4 O M5	i 🖲 F7		supply exhaust Dypass Mixing
	Dampers Sypass damper Mixing damper Shutoff damper	in the e1 port ③ sta ○ wit	ndard h spring-return function	AHU Casing DUPLEX 1500 Multi ✓ Supply fan Mei:119:EC1 (230 V, EC) ✓
	Exhaust Re Airflow External static pressure	equired. Actual Re 1400 1400 150 150	equired. Actual 1400 1400 m3/h 150 150 Pa	operation point 230 V 50 Hz 0,34 kW Exhaust fan M. 119.EC1 (230 V, EC)
	Exhaust air temperature Exhaust air relative humidity Filtration O G4 I M5	20,0 40	26,0 °C 50 %	Heat recovery core 57.C 94,2 % 16,4 WW Supply air filter F7 pleated cartini ∨ Indired tube manometer
	Dampers Shutoff damper standard with spring-	in the i1 port		Exhaust ar Hiter MS pleated cartri 🖉 🛄 inclined tube manometer
	Selec	t suitable AHU		



1. Start the software you installed and select Add a new equipment

Project Equipment Settings H	lelp				
✓ Project	Pre	limatic zone Partner zone Catalog sheets			
🗄 🛨 Add a new equipment					Now project
			Date	4.4.2019	New project
	Note				Open project
	Customer		Contac	taawaa	Save project
	Name		contact		Save project as
	Street		Name	~ <u>L</u>	Print project
	Postal code	Town	E-mail		Send a project by e-mail
	Company ID	VAT codo	Phone		Register in Partner zone
	Company 10	VATCODE	Fax		unregistered
	Made by	sales representative V	Contact	person	-
	Name		contact	Person	
	Street		Name		
	Postal code	Town	E-mail		
	Country		Phone		
	Company ID	VAI code	Fax		
		Offer no.		Order no.	
	Intended for	not defined 🗸 🗸			
	Name		Contact	person	
	Street		Name		
	Postal code	Town	E-mail		
	Country		Phone		
	Company ID	VAT code	Fax		
		Offer no.		Order no.	
	Note (on the ti	itle page)			
	B <i>I</i> <u>U</u>			£. +	
					Project unlocked
					A
					Lock a project



2. In the Add a unit wizard enter required parameters



Units highlighted in bold match the selected criteria.



3. Select a name under which the unit will appear in the project

Add a device to this project		
Position no.	Ventilation, shop	
🗸 ок	K Back	

4. Choose a climatic zone. The software will enter summer and winter air temperature and relative humidity data

🐌 List of clim	atic zones					_		×	
Country	Germa	any	~						
Town		Winter temp. (°C)	Winter humidity (%)	Summer temp. (°C)	Summer rel. humidity (%)				
Bremen		-12		32					
Frankfurt/M.		-12	90	32	40				
Hamburg		-12	90	32	40				
Magdeburg		-14	90	32	40				
Mannheim		-12	90	32	40				
München		-16	90	32	40				
Eilter M Select Set as default									



5. In the **Design** tab choose the required **Position** and **Configuration of ports**



Click on **Position** to open the wizard



In the wizard select the required Position



In a similar way select the detailed Position and Configuration of ports



6. In the **Operation point** tab enter **External static pressure** needed for air transport



7. Choose Filtration class



8. Adjust supply air temperature by adding Heating or Cooling



9. Check Exhaust air temperature and relative humidity

10. In the **Controls** tab check the selected control system of the unit

The RD5 control system makes it possible to connect to the unit over the internet or use a touch-screen controller.

Selection SW – Exporting a project

11. Print your project or save it as a PDF file

Choose **Project** > **Print** or **Export to PDF**

Project	Equipment	Settings	Help	
Ne	w			Ctrl+N
Ор	en			Ctrl+O
Ор	en in a new w	indow		Shift+Ctrl+O
We	lcome window	v		
Sav	/e			Ctrl+S
Sav	/e as			Shift+Ctrl+S
Lo	ck a project			
Pri	nt			Ctrl+P
Pri	nt summary			Ctrl+R
Ins	ert summary t	o the clipb	oard	
Exp	oort to PDF		N	
Ser	nd by e-mail		63	
En	d			Alt+F4

12. Save your data in DXF or IFC (BIM) Choose Design > Export to DXF / BIM

Operation point Design Contr	ols Specification 🕒 Note (Catalog sheets			
Position Position Horizontal (10 - 11) Position Ports Configuration Colis order 1. cooler - 2. heater	AHU delivery in total in parts		ther choices indensate drain standard O with ball on demain or fastening With hinges O without into Pressure output (supply and exhaust fan) for simple volume flow measurement	Connec Supply a Supply a Exhaust	tion ports ir connection port e1 ir connection port e2 air connection port i1 air connection port i2
Drawing					
Current view access doo	r side view (from the front)			¥	Show manipulation space Dimensioning total dimensions connection ports control module condensate drains Connection port: e1 - outdoor air (ODA) e2 - supply air (SUP) i1 - extract air (ETA) i2 - exchaust air (ETA) x - condensate drain 3x Ø 32/40 mm
depth: 455 mm, weight: 295 kg	1		To edit move the mouse over the respect	ve part of the unit	
AHU placement method	Psychrometric chart	Air-side diagram	Print dimensional drawing	Export to DXF/B	IM

Unit catalog

For more information about our units see the catalog included in the SW. Click on the unit you added to your project and select **Catalog sheets.**

For more information go the selection SW website at <u>www.atrea.com/en/duplex-en</u> and the manufacturer's website at <u>www.atrea.com</u>.

Thank you for your attention.

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