FläktGroup®

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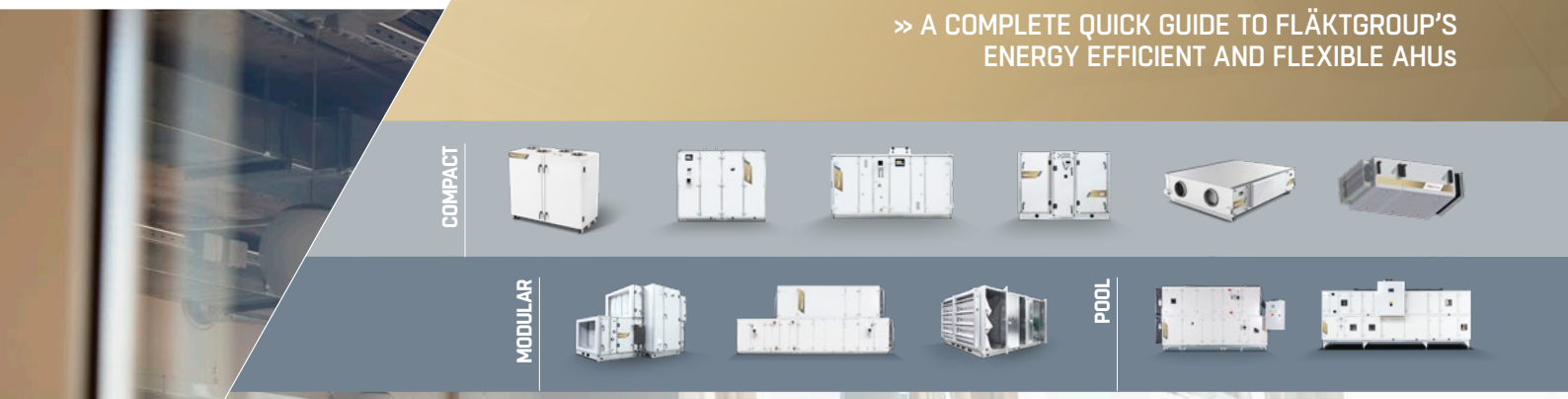
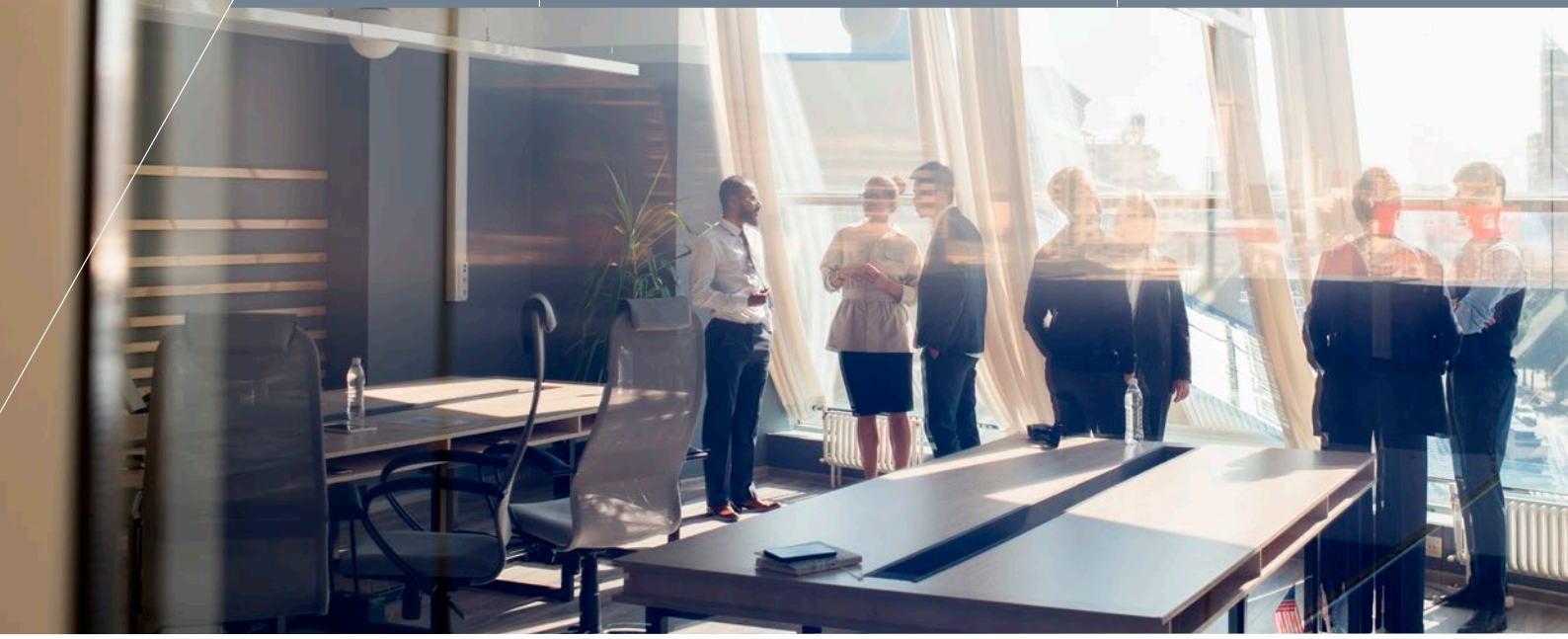
AIR TREATMENT

AIR HANDLING UNITS

AIR HANDLING UNIT OVERVIEW

» A COMPLETE QUICK GUIDE TO FLÄKTGROUP'S ENERGY EFFICIENT AND FLEXIBLE AHUs





COMPACT AND STANDARDISED OR ULTIMATE FLEXIBILITY?
FLÄKTGROUP GIVES YOU THE CHOICE

FläktGroup is a global leader in energy efficient ventilation solutions, and we are proud to offer a wide range of air handling units that can cover virtually any application and requirement. From small compact units to completely tailored modular units for very large airflows, we can match or exceed your needs.

All our research, development and testing activities, at our nine Centres of Excellence, are singularly focused to provide our customers with the best possible solution to their ventilation and indoor climate challenges. From new and innovative concepts, material choices and manufacturing processes to minimised running cost, easy commissioning and low maintenance we always strive to deliver the best for your application.

With most of our Air Handling Units you have a choice of cutting edge energy efficient components and recovery systems.

COMPACT

> PAGE 4

CHARACTERISTICS
- Streamlined range of components
- Smallest footprint without compromising performance
- Quick to select, order, install and commission

BENEFITS
- Complying with the highest industry standards
- Delivering the best indoor air quality to the building occupants
- Using as little energy as possible
- Guaranteeing long-term performance

TYPICAL PROJECTS
- Human occupied buildings where space efficiency and fast installation are important

MODULAR

> PAGE 6

CHARACTERISTICS
- Very wide range of components
- Unit configuration adaptable to the specific building design
- Order, finish, accessories are fully selectable to each project's specific constraints

BENEFITS
- Complying with the highest industry standards
- Delivering the best indoor air quality
- Using as little energy as possible
- Guaranteeing long-term performance
- Answering all the project constraints
- Giving maximum value to all stake-holders

TYPICAL PROJECTS
- All buildings where there are specific needs that the unit needs to answer without compromising on performance

SWIMMING POOL

> PAGE 7

CHARACTERISTICS
- Highest quality components
- Innovative technology and intelligent control systems to satisfy and dehumidifying, heating or cooling requirement
- Optimal corrosion protection

BENEFITS
- Complying with the highest industry hygiene standards
- Delivering the best indoor air quality in the most demanding environments
- Using as little energy as possible
- Guaranteed long-term performance
- Easy handling and maintenance

TYPICAL PROJECTS
- From a small private pool to full size olympic pool or aquatic leisure park

Compact air handling units – *side connected*

> PAGE 12

eCO SIDE **0 – 2.880 m³/h** (0 – 0,8 m³/s)

SIDE CONNECTION

- Available in **3 sizes**
- VDI 6022 hygiene standard
- Approved for T2/TB 2/L1(M)/D1(M)
- All connections from the side (no access from the top or back needed)
- Very low sound level (for installation in occupied spaces)
- Indoor and outdoor installation options
- Aesthetic discrete design and white painted finish

> PAGE 12

COM4mini **250 – 2.500 m³/h** (0,1 – 0,7 m³/s)

SIDE CONNECTION

- Available in **3 sizes**
- EUROVENT and RLT certified components and software solutions
- Counterflow plate heat exchanger
- Panel thickness 60 mm
- Units with or without controller
- Indoor and outdoor installation options
- 6 different installation possibilities

> PAGE 12

COM4plus **500 – 20.000 m³/h** (0,1 – 5,5 m³/s)

SIDE CONNECTION

- Available in **7 sizes**
- EUROVENT and RLT certified components and software solutions
- EUROVENT approved casing
- Plate heat exchanger or rotary heat exchanger
- Panel thickness 60 mm
- Units with/without controller
- VDI 6022 hygiene standard

> PAGE 14

eQ PRIME **720 – 21.600 m³/h** (0,2 – 6 m³/s)

SIDE CONNECTION

- Available in **8 sizes**
- Short unit length
- Large range of integrated or duct mounted accessories
- Integrated heat pump ReCooler HP
- Integrated, designed to function and end of line tested controls package

Compact air handling units – *top connected*

> PAGE 14

eCO TOP **0 – 2.880 m³/h** (0 – 0,8 m³/s)

TOP CONNECTION

- Available in **3 sizes**
- All connections from the side (no side access needed)
- 50 mm casing with mineral wool insulation minimizes noise
- VDI 6022 hygiene standard
- Approved for T2/TB2/L1(M)/D1(M)
- Passes through standard 900 mm opening
- Aesthetic discrete design and white painted finish

> PAGE 16

eQ TOP **720 – 4.680 m³/h** (0,2 – 1,3 m³/s)

TOP CONNECTION

- Available in **2 sizes**
- Energy efficient rotary heat exchanger
- Integrated controls
- Fast installation & commissioning
- Corrosion protection class C4
- Circular top connections for easy installation to a spiro duct system

> PAGE 16

COM4top **800 – 6.500 m³/h** (0,2 – 1,8 m³/s)

TOP CONNECTION

- Available in **5 sizes**
- EUROVENT and RLT certified components and software solutions
- Double-plate heat exchanger
- VDI 6022 hygiene standard optional
- Panel thickness 60 mm
- Units with or without controller

Compact air handling units – *ceiling void installation*

> PAGE 16

VEKA **540 – 2.520 m³/h** (150 – 700 l/s)

SIDE CONNECTION CEILING

- Available in **2 sizes**
- 2 parallel EC-motor plug-fans
- Built-in heating and cooling coils
- Duct mounted electrical heater and silencer
- ISYteq Touch 3.5 integrated controls system (optional)
- White painted

> PAGE 16

eCO Premium **360 – 3.240 m³/h** (0,1 – 0,9 m³/s)

SIDE CONNECTION CEILING

- Available in **6 sizes**
- Counter flow Plate heat exchanger for up to 85% dry temperature efficiency
- Integrated heater and pre-heater as option
- Low installation height
- Integrated ISYteq Mini controller, easy to use touch screen HMI
- ErP and Ecodesign compliant

Modular air handling units

> PAGE 18

eQ MASTER **360 – 43.200 m³/h** (0,1 – 12 m³/s)

MODULAR

- Available in **21 sizes**
- High degree of flexibility of functionality, configuration and materials
- Wide range of energy efficient energy recovery systems
- Integrated heat pump – ReCooler HP
- Integrated controls

> PAGE 19

CAIRplus **1.000 – 85.000 m³/h** (0,3 – 24 m³/s)

MODULAR

- Available in **33 sizes**
- 4 arrangement types: single, double-deck, side-by-side, straight through with other configurations on request
- Wide range of energy efficient recovery systems
- Integrated controls
- Eurovent and RLT certified performance and characteristics
- Specific focus on hygiene, cleanability and accessability

> PAGE 20

eQL **28.800 – 108.000 m³/h** (8 – 30 m³/s)

MODULAR

- Available in **8 sizes**
- High degree of flexibility of functionality, configuration and materials
- Flexible and high efficiency energy recovery systems
- Optional service corridor
- Optional high efficiency PM motors
- Specific design for larger air flows

> PAGE 18

ATpicco **0 – 4.000 m³/h** (0,1 – 1,1 m³/s)

SIDE CONNECTION CEILING

- Available in **3 sizes**
- Low unit height for ceiling void installation
- Modular contruction build
- Wide range of configurations and accessories available

Swimming pool dehumidification units

> PAGE 20

CAIRfricostar MICRO **800 – 6.500 m³/h** (0,2 – 1,8 m³/s)

SWIMMING POOL

- Available in **5 sizes**
- Double plate heat recovery system
- Optional integrated pool water condenser
- Integrated electrical cabinet and controls
- 2 corrosion protection classes
- Ideal for small technical rooms (top connections)
- Smart fresh air management

> PAGE 22

CAIRfricostar **800 – 45.000 m³/h** (0,2 – 12,5 m³/s)

SWIMMING POOL

- Available in **16 sizes**
- EC & plug fans
- Heat recovery – heat pipe or run around coil (RAC) heat recovery system
- Electrical cabinet and controls (not integrated)
- With & without compressor
- 3 corrosion protection classes
- Specifically designed for limited installation space

> PAGE 22

CAIRpool **800 – 36.000 m³/h** (0,2 – 10 m³/s)

SWIMMING POOL

- Available in 1**3 sizes**
- EC fan wall technology
- Double plate heat recovery system
- With & without heat pump technology, inverter & reversible heat pump
- 3 corrosion protection classes
- 3 pending patents for hygiene and performance
- Best-in-class energy efficiency for pool applications

Unit configuration options

FEATURE TYPE	DETAIL	eCO SIDE	COM4mini	COM4plus	eQ PRIME	eCO TOP	eQ Top
Configuration	Supply & extract	•	•	•	•	•	•
	Single direction						
	Indoor	•	•	•	•	•	•
	Outdoor	•	•		•		
Filter	Panel + bag	•	• (panel)	•	•	•	•
	Carbon filter						
	HEPA filter						
Fans	IE3 motor	• (EC)		•		• (EC)	•
	IE4 motor		•		•		
	IE5 motor				•		
Heat recovery	ReCooler HP				•		
	Rotor/Heat pipe	•/–		•/–	•/–	•/–	•/–
	Twin rotor						
	Crossflow			•			
	Double plate heat exchanger						
	Counterflow		•		•		
	Run around coil						
	Premium run around coil*						
	Coils: integrated/duct mounted						
Integrated cooling	Packaged unit with controls				•		
Humidifiers							
Controls	Integrated controls	•	•	•	•	•	•
	Supplied loose		•				
	Without controls		•	•	•		
Hygiene version	VDI 6022	•	•	•	•	•	
Swimming pool	De-hum. from HR only						
	De-hum. from compressor						
	De-hum. & heating from HP						
Indirect evaporative cooling							
Selection tool		Acon	Lplus	Lplus	Acon	Acon	Acon

**Supplied with pump set including heat exchangers which allow additional heating and cooling to be added.*

Heat recovery options

ReCooler HP
Integrated heating & cooling

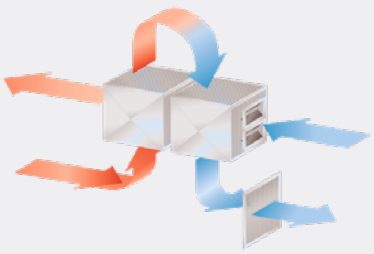
Rotor

Twin rotor

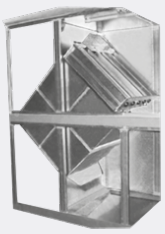
Counterflow
Plate heat exchanger

COM4top	VEKA	eCO Premium	AT Picco	eQ MASTER	CAIRplus	eQL	CAIRfricostar Micro	CAIRfricostar	CAIRpool
●		●	●	●	●	●	●	●	●
	●			●	●	●			
●	●	●	●	●	●	●	●	●	●
		●		●	●	●	●	●	●
● (panel)	●	● (panel)		●	●	●	● (panel)		
				●	●	●			
				●	●	●			
● (EC)	● (EC)	● (EC)		●	●				
				●	●	●	●	●	●
				●	●				
				●					
				●/–	●/–	●/–		–/●	–/●
				●	●				
				●	●				
●							●		●
		●	●	●					
				●	●	●	●	●	
				● (Econet)	● (Multiflow)	● (Econet)			
	●	●							
				●	●	●			
●	●	●	●	●	●		●	●	●
				●	●		●	●	●
	●			●	●	●	●	●	●
● (optional)					● (optional)		●	●	●
							●	●	●
							●	●	
									●
				●	●				
Lplus	Acon	Acon	Lplus	Acon	Lplus	Acon	Lplus	Lplus	Lplus

Disclaimer *Dimensions are indicative only. Final dimensions are subject to project specific selection. Changes to products and specifications may occur without notice.*



Double
plate heat exchanger



Crossflow
Plate heat exchanger

Run around coil

Econet
Premium
Run around coil

Multiflow
Premium
Run around coil

SELECTION TOOLS AND WEB RESOURCES, **GUARANTEED TO MAKE YOUR JOB EASIER** – AVAILABLE AT FLAKTGROUP.COM

FläktGroup is committed to provide the best possible pre and post sales service. We are proud of our products and continously invest in our selection tools and sales support staff to make sure you can always get the best from them.

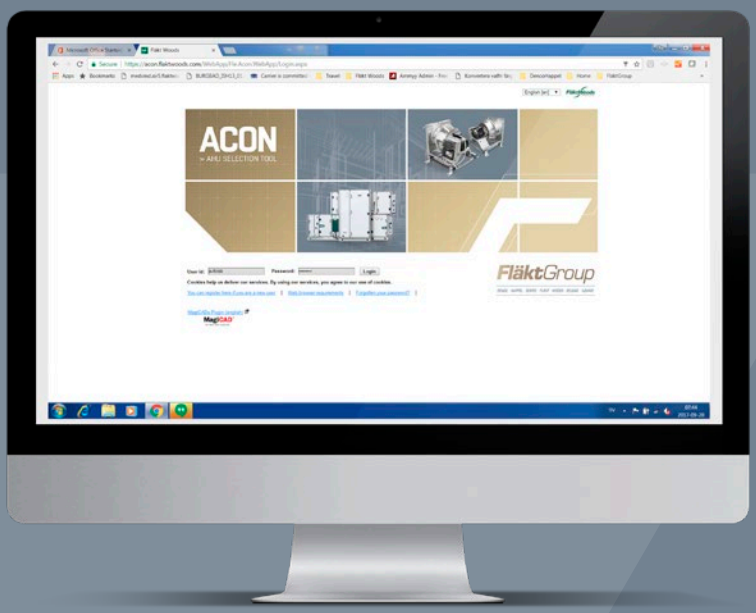
BIM files

FläktGroup offers plugins for MagiCAD and Revit that enables users to import BIM models for units configured in our selection tools directly from within MagiCAD and Revit. The product families currently covered by the plugins are Air terminal devices, Chilled beams and Air handling units.

There is also a new plugin that enables the user to download BIM objects from the online BIM platform MagiCloud and insert the objects directly into native Revit projects in native Revit RFA format. Using these plugins will speed up the creation of BIM models and make the process easier and more accurate. The Plugins are available for all MagiCAD and Revit users worldwide free of charge.

Selection tools at your service

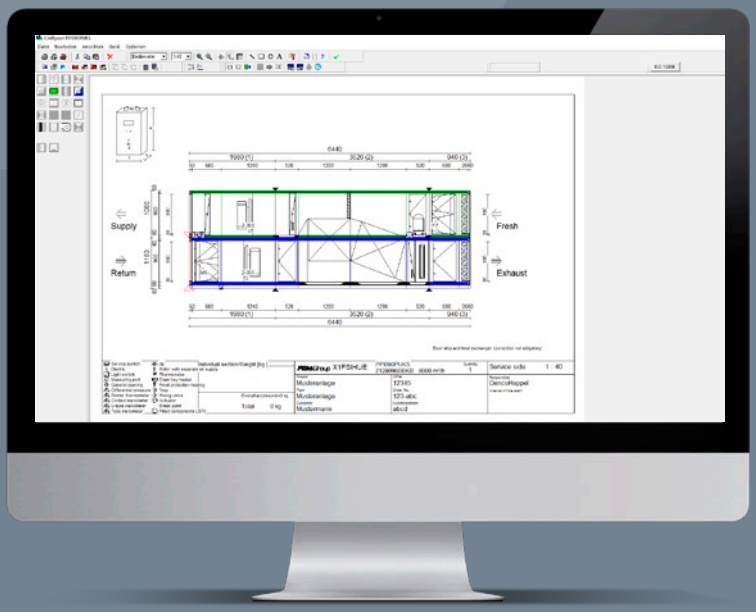
We offer a number of advanced selection tools and apps, available directly for download from www.flaktgroup.com, that will help you make the correct product choice for every application and provide great guidance to your customers. Among the tools you will find are **ACON** for Air Treatment products, **SELECT** for Air Diffusion, Air Management & ATD's and **Fan Selector** for Air Movement products.



ACON

Easy-to-use and powerful selection. ACON® is a powerful and easy product selection tool for air handling units. It is the best and most advanced of its kind on the web. It offers rapid product selection to specific project requirements and provides you with all the technical information.

- Product dimensions
- Noise data
- Performance data
- Efficiency data
- Life cycle cost
- Product documentation
- Export of Dxf and Dwg files
- Certificates



Lplus

Fast, reliable and easy-to-use selection tool for CAIR and COM4 Air Handling Units. Configuration proposals are generated according to your inputs. Component unit spacing, configuration of the modules as well as weights and measures are immediately determined and shown by Lplus.

- Individual configuration suggestions
- Determination and display of unit sub-divisions, modular configurations, dimensions and weights
- Calculation of life-cycle costs (LCC)
- Simple program handling
- Fast, reliable selections and planning
- Valuable time gain for other tasks
- Specification of energy efficiency classes (Eurovent and HVAC Manufacturers)
- Calculation methods regularly examined by Eurovent

Quick guide | eCO SIDE

eCO SIDE

Size	Nominal airflow m³/h m³/s	W x H (mm)	Length (mm)	Duct connection (mm)	Approx weight (kg)	MOTOR Drive voltage (V) Current (A)	MOTOR + ELECTRICAL COIL Drive voltage (V) Current (A)
03	1.260 0,4	733 x 1.169	1.675	Ø250	260	1x230V, 10 A	3x400V, 10 A
04	1.800 0,5	833 x 1.269	1.786	Ø315	300	1x230V, 10 A	3x400V, 16 A
06	2.880 0,8	943 x 1.237	1.922	600 x 300	400	1x230V, 10 A	1x230V, 10 A 3x400V, 16 A*

*separate electrical supply

Quick guide | COM4mini

COM4mini

Size	Airflow at internal velocity (m³/h + m³/s)		Width x height (mm) (PHE)	Longest block (mm)	Duct connection (mm)	Approx weight (kg)	Drive voltage (V) Startup current (A)
	1,0 m/s	*2,5 m/s*					
CC20	290 0,1	720 0,2	760 x 930	1.870	Ø250	185	1x230V/50Hz, 10A
CC40	460 0,1	1.150 0,3	1.870 x 930	1.870	480 x 245	225	1x230V/50Hz, 10A
CC60	690 0,2	1.730 0,5	1.080 x 930	1.870	800 x 245	285	1x230V/50Hz, 10A

Quick guide | COM4plus

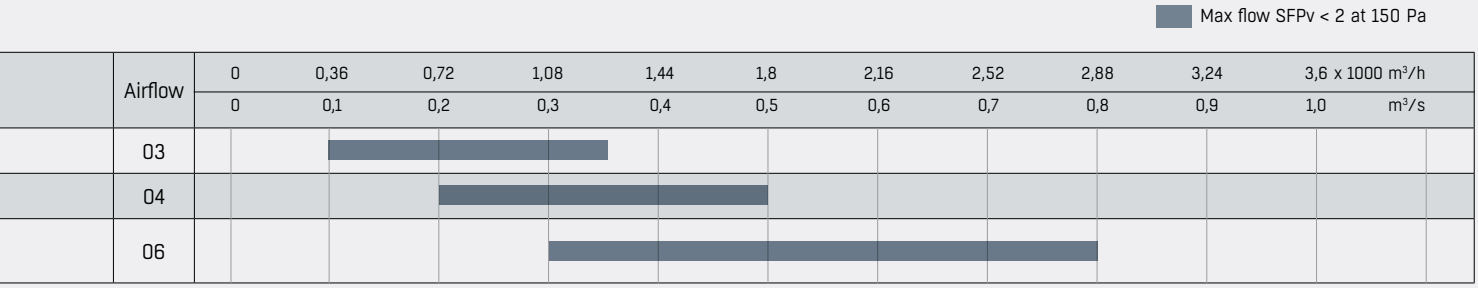
COM4plus

Size	Airflow at internal velocity (m³/h + m³/s)		Width x height (mm) (RHE)	Width x height (mm) (PHE)	Longest block (mm)	Duct connection width x height (mm)	Approx weight (kg)	Drive voltage (V) Startup current (A)
	1,0 m/s	*2,5 m/s*						
CL10	1.660 0,5	4.150 1,2	1.080 x 1.080	1.080 x 1.080	2.560	900 x 380	590/800	3x400/50Hz, 10A
CL20	2.100 0,6	5.250 1,5	1.200 x 1.200	1.200 x 1.200	2.760	1.020 x 460/420*	900/1.000	3x400/50Hz, 10A
CL30	2.950 0,8	7.370 2,0	1.400 x 1.400	1.400 x 1.400	2.960	1.220 x 580/500*	1.100/1.250	3x400/50Hz, 10A
CL40	3.940 1,1	9.860 2,7	1.600 x 1.600	1.600 x 1.600	3.360	1.420 x 580/700*	1.350/1.550	3x400/50Hz, 10A
CL50	4.610 1,3	11.520 3,2	1.720 x 1.720	1.720 x 1.720	3.600	1.540 x 700	1.550/1.750	3x400/50Hz, 16A
CL60	6.360 1,8	15.910 4,4	2.000 x 2.000	2.000 x 2.000	3.880	1.820 x 820/860*	2.000/2.300	3x400/50Hz, 20A
CL70	7.790 2,2	19.470 5,4	2.200 x 2.200	2.200 x 2.200		2.020 x 860/1.020*	2.300/–	3x400/50Hz, 20A

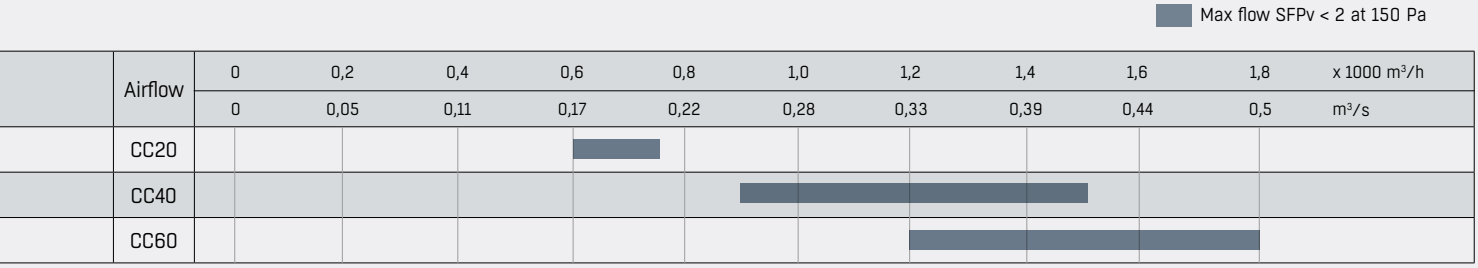
*Measurement with/without damper

Disclaimer *Dimensions are indicative only. Final dimensions are subject to projct specific selection. Changes to products and specifications may occur without notice.*

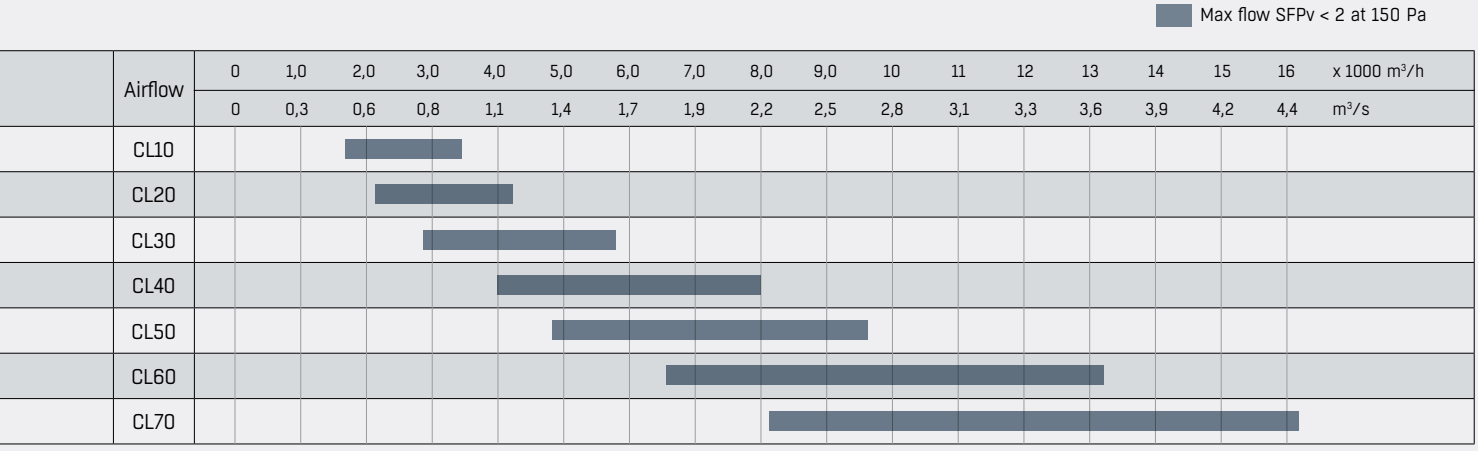
Flowchart | eCO SIDE



Flowchart | COM4mini



Flowchart | COM4plus



Quick guide | eQ PRIME

eQ PRIME with rotary heat exchanger

Size	Nominal airflow m³/h	m³/s	Fan size	Length (mm)*	Width x height (mm)	Longest block (mm)	Duct connection (mm)	Approx weight (kg)		
005	1.440	0,4	Standard	1.450	1.050 x 1.102	550	500 x 300	310		
008	2.880 3.660	0,8 1,0	Small Large	1.450 1.550	1.350 x 1.302	550	800 x 400	420		
011	4.320 5.040	1,2 1,4	Small Large	1.550 1.650	1.450 x 1.502	700	800 x 400	530		
018	6.840 7.920	1,9 2,2	Small Large	1.750 1.850	1.650 x 1.702	700	1.100 x 500	660		
023	10.440 11.880	2,9 3,3	Small Large	2.250 2.350	1.700 x 2.002	950	1.400 x 600	1.350		
032	13.320 15.120	3,7 4,2	Small Large	2.450 2.250	1.800 x 2.202	1.050	1.400 x 800	1.350		
041	16.920 19.080	4,7 5,3	Small Large	2.300 2.400	2.000 x 2.302	1.100	1.700 x 800	1.500		
050	21.240 23.400	5,9 6,5	Small Large	2.400 2.500	2.300 x 2.602	1.100	2.000 x 800	1.850		

*T2/TB2 Increases length, see Acon for details

eQ PRIME with plate heat exchanger

Size	Nominal airflow m³/h	m³/s	Fan size	Length (mm)*	Width x height (mm)	Longest block (mm)**	Duct connection (mm)	Approx weight (kg)		
005	1.440	0,4	Standard	2.150	800 x 1.102	1.250	500 x 300	477		
008	2.880 3.660	0,8 1,0	Small Large	2.250 2.350	1.100 x 1.302	1.350	800 x 400	701		
011	4.320 5.040	1,2 1,4	Small Large	2.600 2.700	1.200 x 1.502	1.600	800 x 400	925		
018	6.840 7.920	1,9 2,2	Small Large	2.900 3.000	1.400 x 1.702	1.800	1.100 x 500	1.186		
023	10.440 11.880	2,9 3,3	Small Large	3.450 3.550	1.700 x 2.002	2.150	1.400 x 600	1.780		
032	13.320 15.120	3,7 4,2	Small Large	3.850 3.650	1.800 x 2.202	2.450	1.400 x 800	2.125		

*T2/TB2 Increases length, see Acon for details **Splittable

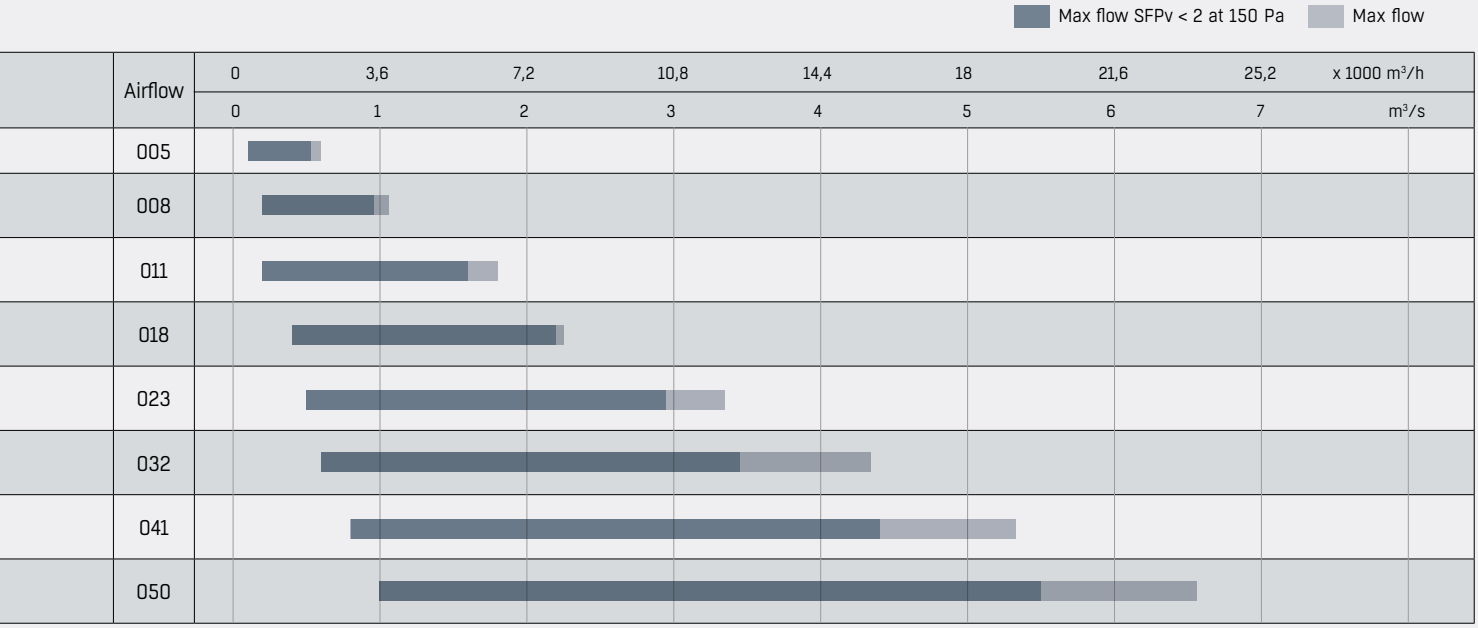
Quick guide | eCO TOP

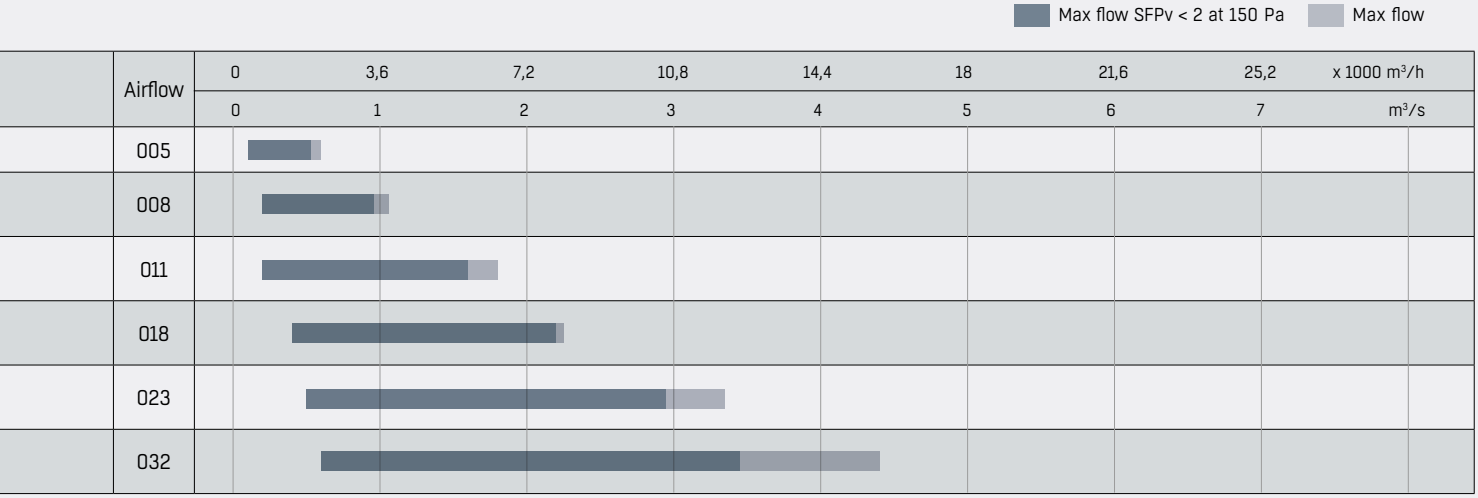
eCO TOP

						MOTOR	MOTOR + ELECTRICAL COIL	
Size	Nominal airflow m³/h	m³/s	W x H (mm)	Length (mm)	Duct connection (mm)	Approx weight (kg)	Drive voltage (V) Current (A)	Drive voltage (V) Current (A)	
03	1.260	0,4	733 x 1.349	1.570	Ø250	260	1x230V, 10 A	3x400V, 10 A	
04	1.800	0,5	833 x 1.539	1.720	Ø315	300	1x230V, 10 A	3x400V, 16 A	
06	2.880	0,8	943 x 1.539	1.990	600 x 300	400	1x230V, 10 A	1x230V, 10 A 3x400V, 16 A*	

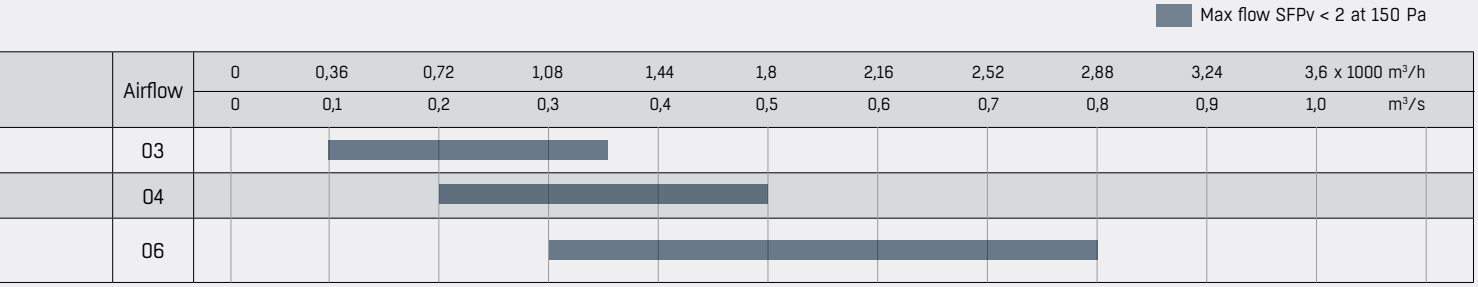
*separate electrical supply

Flowchart | eQ PRIME





Flowchart | eCO TOP



Quick guide | eQ TOP

eQ TOP

Size	Nominal airflow m³/h	m³/s	Width x height (mm) (RHE)	Longest block (mm)	Duct connection (mm)	Approx weight (kg)	Drive voltage (V) Mark current (A)	Fuse (A)	
008	2.880	0,8	1.100 x 1.302	600	Ø400	533	3x400V, 5,6 A	10	
011	4.320	1,2	1.200 x 1.502	700	Ø500	662	3x400V, 11,4 A	16	

Quick guide | COM4top

COM4top

Size	Airflow at internal velocity (m³/h + m³/s)		Width x height (mm) (PHE)	Longest block (mm)	Duct connection (mm)			Approx weight (kg)	Fuse (A)	
	1,0 m/s	*2,5 m/s*			Width		Height			
					Supply	*Other*				
CQ15	740 0,2	1.840 0,5	760 x 1.800	1.640	420	580	200/240/290/260	480	10A	
CQ25	1.200 0,3	3.000 0,8	760 x 1.870	2.280	420	580	420	650	10A	
CQ35	1.480 0,4	3.690 1,0	760 x 2.080	2.760	420	580	540	750	10A	
CQ50	2.210 0,6	5.530 1,5	1.080 x 2.080	2.760	740	990	540	820	10A	
CQ65	3.320 0,9	8.290 2,3	1.400 x 2.080	2.760	1.060	1.220	540	1.000	10A	

Quick guide | VEKA

VEKA

Size	Nominal airflow m³/h	m³/s	Width x height (mm) (RHE)	Longest block (mm)	Duct connection (mm)	Approx weight (kg)	Drive voltage (V) Startup current (A)	
03	2.160	0,6	750 x 355	1.250	600 x 250	70	1x230V/50Hz, 10A*	
04	3.600	1,0	1.050 x 355	1.250	900 x 250	100	1x230V/50Hz, 10A*	

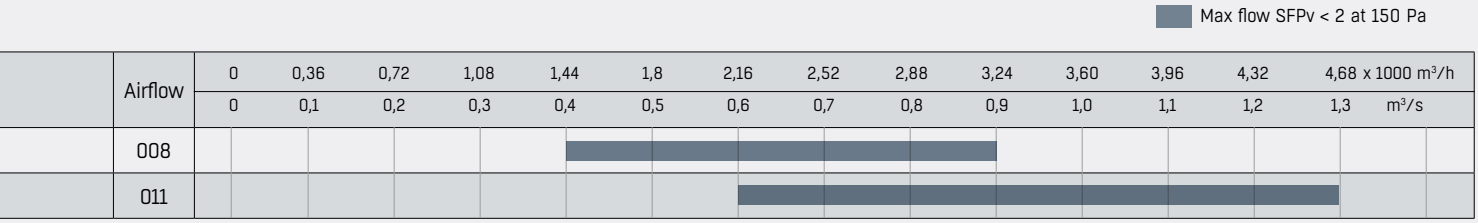
*Electrical heater has separate supply, see Technical Catalogue for details, www.flaktgroup.com

Quick guide | eCO Premium

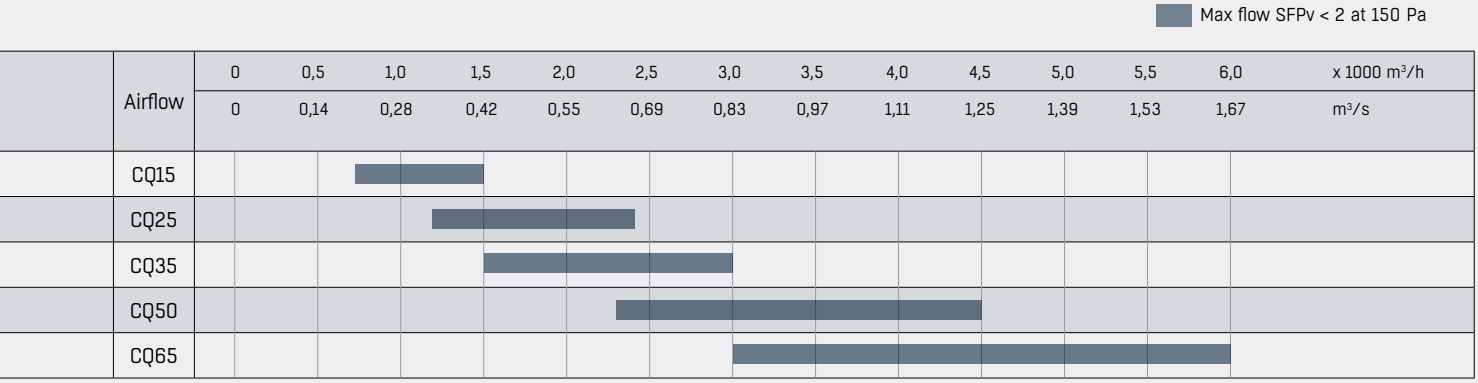
eCO Premium

Size	Nominal airflow m³/h	m³/s	Width x height (mm) (PHE)	Longest block (mm)	Duct connection (mm)	Approx weight (kg)		
1	830	0,2	1.220 x 380	1.600	Ø250	200		
2	1.010	0,3	1.220 x 380	1.600	Ø250	210		
3	1.550	0,4	1.540 x 425	1.900	Ø250	270		
4	2.340	0,7	1.520 x 425	1.900	Ø250	280		
5	2.520	0,7	1.720 x 470	2.000	Ø315	290		
6	3.240	0,9	1.720 x 685	2.480	Ø500	495		

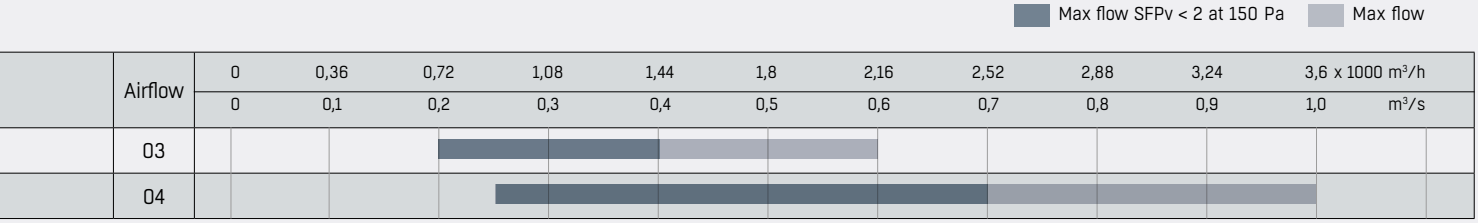
Flowchart | eQ TOP



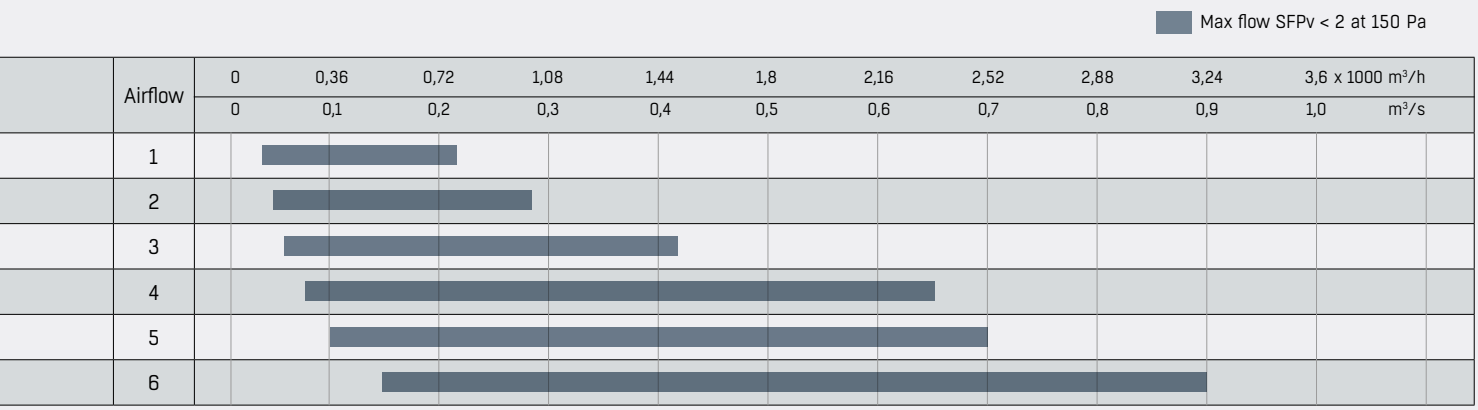
Flowchart | COM4top



Flowchart | VEKA



Flowchart | eCO Premium



Quick guide | ATpicco

ATpicco

Size	Airflow at internal velocity m³/h m³/s		Unit cross-section width x height (mm)		
	1,0 m/s	2,5 m/s			
10.05	650 0,2	1.620 0,5	660 x 355		
15.05	970 0,3	2.430 0,7	965 x 355		
15.06	1.320 0,4	3.290 0,9	965 x 450		

Quick guide | eQ Master

eQ Master

Size	Airflow at internal velocity m³/h m³/s		Unit width (mm)	Unit height single deck (mm)	Unit height double deck (mm)	
	1,0 m/s	2,5 m/s				
005	720 0,2	1.800 0,5	800	476	952	
008	1.080 0,3	3.240 0,9	1.100	576	1.152	
009	1.440 0,4	2.880 0,8	800	776	1.552	
011	1.800 0,5	4.680 1,3	1.200	676	1.352	
014	2.160 0,6	4.680 1,3	1.100	776	1.552	
018	2.520 0,7	6.480 1,8	1.400	776	1.552	
020	2.880 0,8	6.840 1,9	1.100	1.076	2.152	
023	3.240 0,9	9.720 2,7	1.700	926	1.852	
027	3.960 1,1	9.360 2,6	1.400	1.076	2.152	
032	4.680 1,3	11.880 3,3	1.800	1.026	2.052	
036	5.040 1,4	11.880 3,3	1.400	1.376	–	
041	5.760 1,6	14.400 4,0	2.000	1.076	2.152	
045	6.480 1,8	15.120 4,2	1.700	1.376	–	
050	6.840 1,9	19.080 5,3	2.300	1.226	2.452	
054	7.560 2,1	18.360 5,1	2.000	1.376	–	
056	7.920 2,2	19.340 5,4	1.700	1.676	–	
063	8.640 2,4	21.600 6,0	2.300	1.376	–	
068	10.080 2,8	23.490 6,5	2.000	1.676	–	
072	10.080 2,8	24.840 6,9	2.600	1.376	–	
079	11.160 3,1	27.630 7,7	2.300	1.676	–	
090	12.600 3,5	31.770 8,8	2.600	1.676	–	

Quick guide | CAIRplus

1 Horisontal in-line
2 Horisontal double-deck
3 Horisontal side-by-side
4 Upright double-deck

CAIRplus

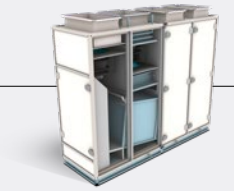
Size	Airflow at internal velocity m³/h m³/s		Unit cross-section width x height (mm)	Unit type	
	1,0 m/s	2,5 m/s			
064 • 052	1.200 0,3	3.000 0,8	640 x 400	1 3	
064 • 064	1.480 0,4	3.690 1,0	960 x 400	1 3	
096 • 064	2.210 0,6	5.530 1,5	1.280 x 400	1 3	
128 • 064	2.950 0,8	7.370 2,0	640 x 520	1 2 3 4	
096 • 096	3.320 0,9	8.290 2,3	640 x 640	1 2 3 4	
096 • 128	4.420 1,2	11.060 3,1	960 x 520	1 2 3 4	
128 • 096	4.420 1,2	11.060 3,1	640 x 960	1 2 3	
160 • 096	5.530 1,5	13.820 3,8	960 x 640	1 2 3 4	
128 • 128	5.900 1,6	14.750 4,1	1.280 x 640	1 2 4	
188 • 096	6.500 1,8	16.240 4,5	960 x 960	1 2 3 4	
160 • 128	7.370 2,0	18.430 5,1	960 x 1.280	1 3	
188 • 128	8.660 2,4	21.660 6,0	1.280 x 960	1 2 3 4	
160 • 160	9.220 2,6	23.040 6,4	1.600 x 960	1 2 3	
220 • 128	10.140 2,8	25.340 7,0	1.280 x 1.280	1 2 3 4	
188 • 160	10.830 3,0	27.070 7,5	1.880 x 960	1 2	
252 • 128	11.610 3,2	29.030 8,1	1.600 x 1.280	1 2 3	
220 • 160	12.670 3,5	31.680 8,8	1.880 x 1.280	1 2 3	
188 • 188	12.720 3,5	31.810 8,8	1.600 x 1.600	1 2 3	
220 • 188	14.890 4,1	37.220 10,3	2.200 x 1.280	1 2	
280 • 160	16.130 4,5	40.320 11,2	1.880 x 1.600	1 2 3	
252 • 188	17.060 4,7	42.640 11,8	2.520 x 1.280	1 2	
220 • 220	17.420 4,8	43.560 12,1	2.200 x 1.600	1 2 3	
280 • 188	18.950 5,3	47.380 13,2	1.880 x 1.880	1 2 3	
220 • 252	19.960 5,5	49.900 13,9	2.200 x 1.880	1 2 3	
312 • 188	21.120 5,9	52.790 14,7	2.800 x 1.600	1 2	
280 • 220	22.180 6,2	55.440 15,4	2.520 x 1.880	1 2 3	
252 • 252	22.860 6,4	57.150 15,9	2.200 x 2.200	1 2 3	
312 • 220	24.710 6,9	61.780 17,2	2.800 x 1.880	1 2	
282 • 252	25.580 7,1	63.960 17,8	2.200 x 2.520	1 3	
280 • 280	28.220 7,8	70.560 19,6	3.120 x 1.880	1 2	
312 • 252	28.310 7,9	70.760 19,7	2.800 x 2.200	1 2 3	
312 • 280	31.450 8,7	78.620 21,8	2.520 x 2.520	1 3	
312 • 312	35.040 9,7	87.610 24,3	3.120 x 2.200	1 2	

Quick guide | eQL

eQL

Size	Airflow at internal velocity (m³/h + m³/s)		Unit width rotor (mm)	Unit height single deck (mm)	Unit height double deck (mm)		
	1,0 m/s	2,5 m/s					
60	11.990 3,3	29.970 8,3	3.400	2.050	4.250		
62	15.880 4,4	39.690 11,0	3.660	2.050	4.250		
64	19.760 5,5	49.410 13,7	4.000	2.050	4.250		
71	18.260 5,0	45.640 12,7	4.000	2.350	4.850		
73	22.730 6,3	56.820 15,8	4.500	2.350	4.850		
80	21.170 5,9	52.920 14,7	4.500	2.650	5.450		
82	26.350 7,3	65.880 18,3	4.500	2.650	5.450		
84	32.830 9,1	82.080 22,8	4.900	2.650	5.450		

Quick guide | CAIRfricostar MICRO



CAIRfricostar MICRO

Size	Airflow at internal velocity (m³/h + m³/s)		Airflow range m³/h m³/s	Width x height x length (mm) (PHE)	Dehumidification power	HR rate/% (-12°C/90% rH)	
	1,0 m/s	*2,5 m/s*					
015	740 0,2	1.840 0,5	800–1.500 0,2–0,4	760 x 1.800 x 1.640	7	92	
025	1.200 0,3	3.000 0,8	1.500–2.500 0,4–0,7	760 x 1.800 x 2.280	11	91	
035	1.480 0,4	3.690 1,0	2.500–3.500 0,7–1,0	760 x 2.080 x 2.760	16	85	
050	2.210 0,6	5.530 1,5	3.500–5.000 1,0–1,4	1.080 x 2.080 x 2.760	25	87	
065	3.320 0,9	8.290 2,3	5.000–6.500 1,4–1,8	1.440 x 2.080 x 2.760	35	87	

Flowchart | eQL

Flow range at 300Pa

Airflow	0	3,6	7,2	10,8	14,4	18	21,6	25,2	28,8	32,4	36	39,6	43,2	46,8	50,4	54	57,6	61,2	64,8	68,4	72	75,6	79,2	82,8	86,4	90	93,6	97,2	100,8	104,4	108 x 1000 m³/h
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30 Flow m³/s
60																															
62																															
64																															
71																															
73																															
80																															
82																															
84																															

Flowchart | CAIRfricostar MICRO

Flow range at 300Pa

Airflow	0	0,5	1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5 x 1000 m³/h
	0	0,1	0,3	0,4	0,5	0,7	0,8	1,0	1,1	1,3	1,4	1,5	1,7	1,8 m³/s
015														
025														
035														
050														
065														

Quick guide | CAIRfricostar

CAIRfricostar

Size	Airflow at internal velocity (m^3/h + m^3/s)		Airflow range m^3/h m^3/s	Width x height x length (mm) (PHE)	Dehumidification power (m^3/h)	Heat recovery (kW)	
	1,0 m/s	*2,5 m/s*					
015	920 0,25	2.300 0,6	750–1.500 0,2–0,4	760 x 1.120 x 3.000	6	3,5	
025	1.200 0,3	3.000 0,8	1.500–2.500 0,4–0,7	760 x 1.360 x 3.200	13	7	
030	1.200 0,3	3.000 0,8	2.500–3.000 0,7–0,8	760 x 1.360 x 3.300	18	8,7	
037	1.480 0,4	3.690 1,0	2.990–3.690 0,8–1,0	760 x 1.600 x 3.300	23	10,9	
045	1.800 0,5	4.490 1,2	3.690–4.490 1,0–1,2	1.080 x 1.360 x 3.300	28	14,1	
055	2.210 0,6	5.530 1,5	4.490–5.530 1,2–1,5	1.080 x 1.600 x 3.400	35	17,7	
083	3.320 0,9	8.290 2,3	5.530–8.290 1,5–2,3	1.080 x 2.240 x 4.000	48	24,3	
100	4.420 1,2	11.060 3,1	8.290–9.950 2,3–2,8	1.400 x 2.240 x 4.000	63	33,5	
110	5.530 1,5	13.820 3,8	9.950–11.060 2,8–3,1	1.720 x 2.240 x 4.000	70	39,8	
130	6.500 1,8	16.240 4,5	11.060–13.000 3,1–3,6	2.000 x 2.320 x 4.000	80	45,2	
150	7.370 2,0	18.430 5,1	13.000–14.750 3,6–4,1	1.720 x 2.880 x 4.400	92	52,1	
170	8.660 2,4	21.660 6,0	14.750–17.330 4,1–4,8	2.000 x 2.960 x 4.600	108	61,3	
200	10.140 2,8	25.340 7,0	17.330–20.280 4,8–5,6	2.320 x 2.960 x 4.600	127	73,2	
230	11.610 3,2	29.030 8,0	20.270–23.220 5,6–6,5	2.640 x 2.960 x 4.800	146	85,6	
250	12.670 3,5	31.680 8,8	23.220–29.030 6,5–8,1	2.320 x 3.600 x 5.000	159	92	
320	16.130 4,5	40.320 11,2	29.030–32.260 8,1–9,0	2.920 x 3.600 x 5.300	204	118	

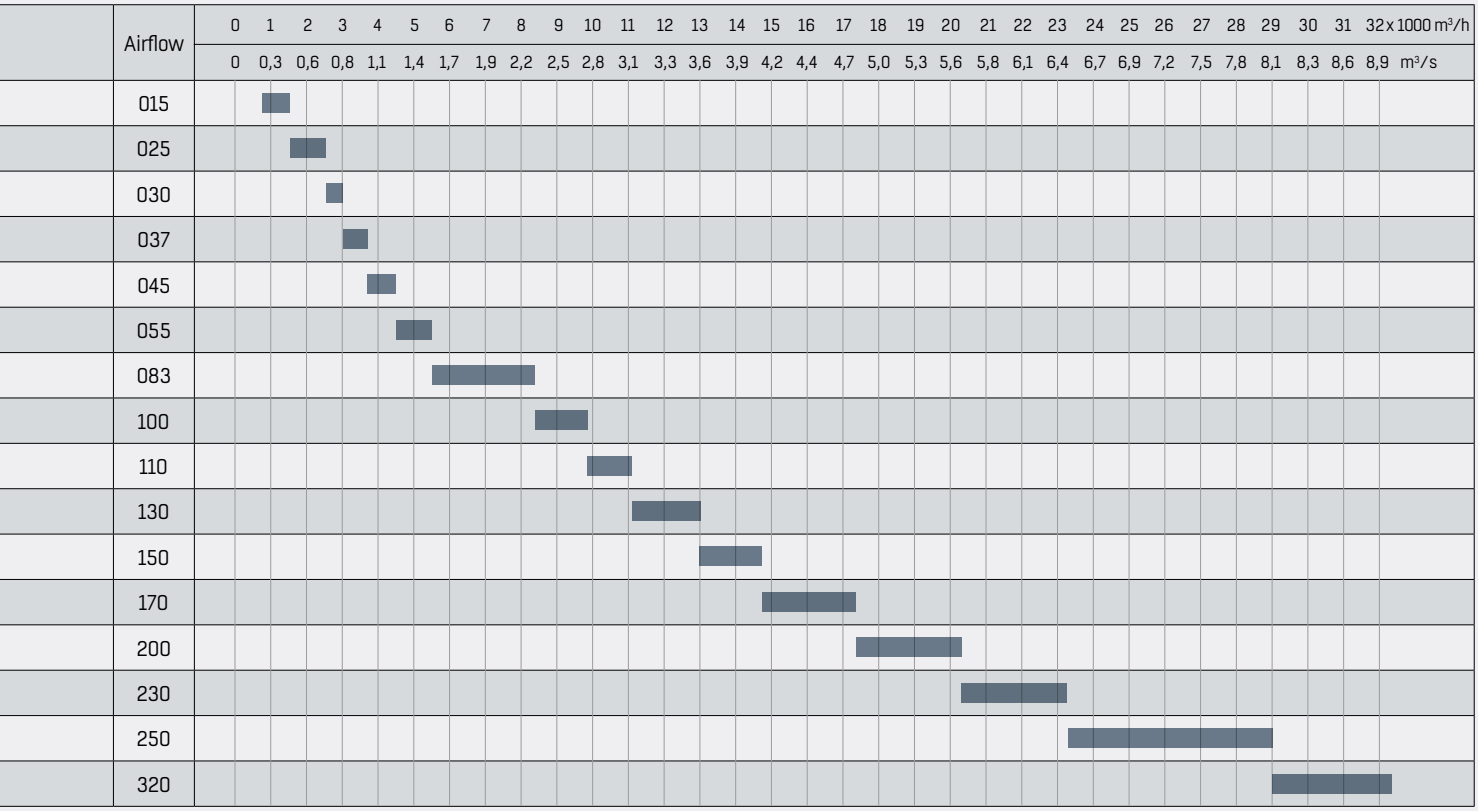
Quick guide | CAIRpool

CAIRpool

Size	Airflow at internal velocity (m^3/h + m^3/s)		Airflow range m^3/h m^3/s	Width x height x length (mm) (PPX type)	Dehumidification power (m^3/h)	HR rate/% (-12°C/90% rH)	
	1,0 m/s	*2,5 m/s*					
015	1.200 0,3	3.000 0,8	750–1.500 0,2–0,4	760 x 1.360 x 3.800	10	87	
025	1.200 0,3	3.000 0,8	1.500–2.500 0,4–0,7	760 x 1.360 x 4.100	16	89	
035	1.480 0,4	3.690 1,0	2.500–3.000 0,7–0,8	760 x 1.480 x 4.500	22	89	
043	2.210 0,6	5.530 1,5	3.000–3.690 0,8–1,0	1.080 x 1.480 x 4.500	27	87	
053	2.210 0,6	5.530 1,5	3.690–4.490 1,0–1,2	1.080 x 1.480 x 4.800	34	89	
065	3.320 0,9	8.290 2,3	4.490–5.530 1,2–1,5	1.080 x 2.120 x 5.100	41	88	
090	4.420 1,2	11.060 3,1	5.530–8.290 1,5–2,3	1.400 x 2.120 x 5.300	57	88	
120	5.530 1,5	13.820 3,8	8.290–9.950 2,3–2,8	1.720 x 2.120 x 5.500	76	88	
150	6.500 1,8	16.240 4,5	9.950–11.060 2,8–3,1	2.000 x 2.120 x 5.800	95	88	
190	10.140 2,8	25.340 7,0	11.060–13.000 3,1–3,6	2.320 x 2.760 x 6.000	125	90	
250	11.570 3,2	28.920 8,0	13.000–14.750 3,6–4,1	2.640 x 2.760 x 7.000	159	87	
320	12.900 3,6	32.260 9,0	14.750–17.330 4,1–4,8	2.920 x 2.760 x 7.200	204	87	
360	14.380 4,0	35.940 10,0	17.330–20.280 4,8–5,6	3.240 x 2.760 x 7.400	229	87	

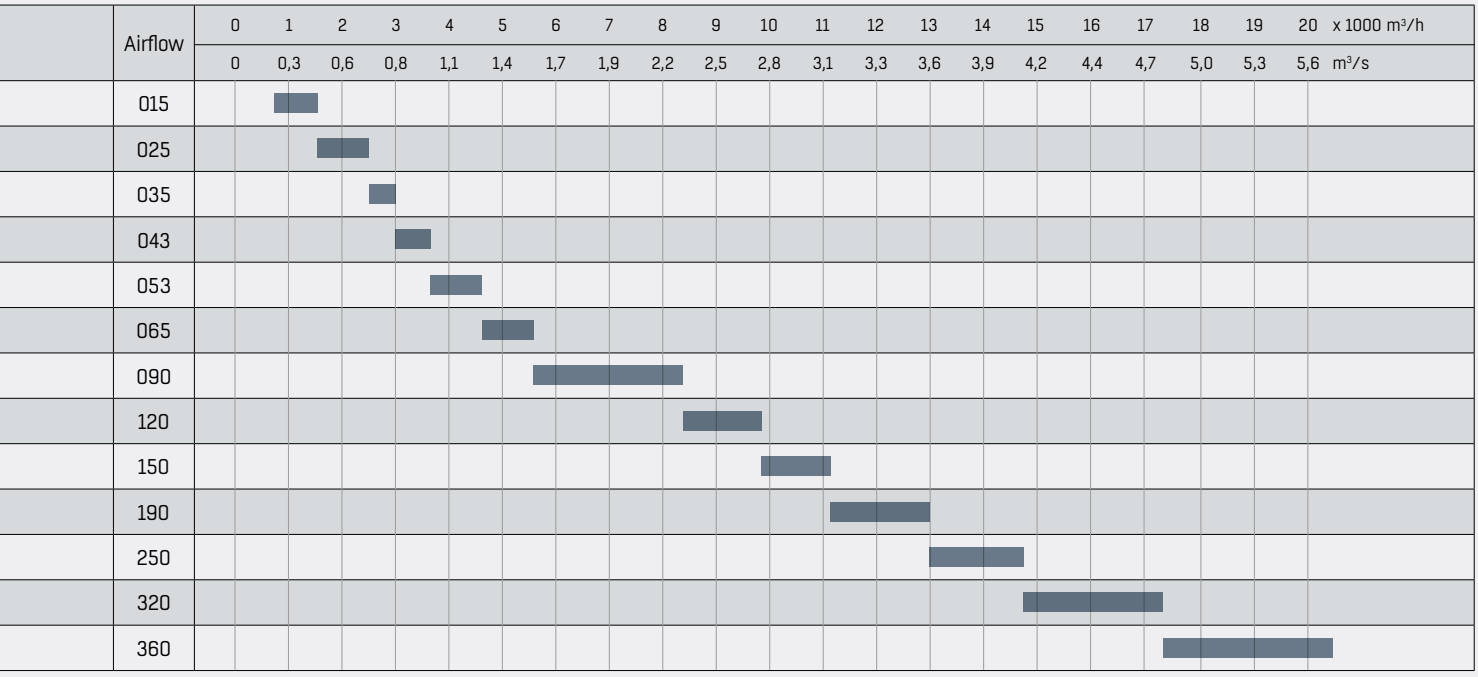
Flowchart | CAIRfricostar

Flow range at 300Pa



Flowchart | CAIRpool

Flow range at 300Pa



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