

Low-Profile heat recovery units specially designed for false ceiling installation (indoors). Aluminium counter-flow heat exchanger up to 92% efficiency (EUROVENT certified), plug-fans with backward curved metal blades and EC motor. Integrated Bypass (100%) for Free-Cooling and Defrost. Suited for airflows up to 2.000 m<sup>3</sup>/h. Premium pre-configured control system for easy start-up with touch screen. The casing is made of 30 mm self-supporting double skinned panels (mineral wool, 100 kg/m<sup>3</sup>, thermal conductivity 0,037 W/mK). The inner and outer skin are made from galvanized steel. Easy access to all the components via the bottom access over generously sized sliding-doors. Filters are accessible from the side as well. Rectangular inlet and discharge connections.

**Application**

Public buildings, offices, stores, schools, restaurants, etc. Well suited for both newly constructed buildings and renovation projects.

**Versions**

- Left hand / Right hand
- With integrated electric preheater / Without preheater.

**Sizes by nominal airflow at 250-300 Pa**

800 m<sup>3</sup>/h, 1200 m<sup>3</sup>/h, 1600 m<sup>3</sup>/h & 2000 m<sup>3</sup>/h.

**Options**

Integrable preheater module. SLIM units can be ordered with the preheater module mounted from factory or as an accessory to be installed on site.

**Accessory modules (post-treatment):**

External modules specially designed for the range.

- Electric battery.
- Hot water coil.
- Cold water coil.
- Reversible water coil for heating/cooling.
- Direct expansion coil.

**TOP's:**

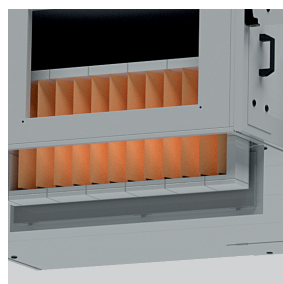
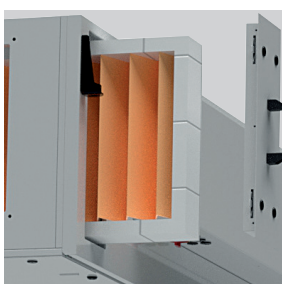
- Sliding access doors - One Man Maintenance.
- Integrated condensation pump - Easy installing.
- Patented tight filter system - Good air quality.
- Patented Module fixation - Clean design.
- Bottom and side access to the filters - Easy maintenance.
- All main components are easy removable.
- Separate electrical cabinet facilitates commissioning and service.

**Filter**

- M5 (ePM10 50%) filter on the extract air side to protect the heat exchanger.
- F7 (ePM1 50%) filter on the outdoor air side. It is possible to replace the F7 filter by a F9 (ePM1 80%) type on site.
- The filter clogging is controlled by differential pressure switches.

**Control system**

- Built-in programable control system (Plug & Play).
- Modbus RTU (RS485) and BACNET IP communication protocol.
- Remote touchscreen panel included.





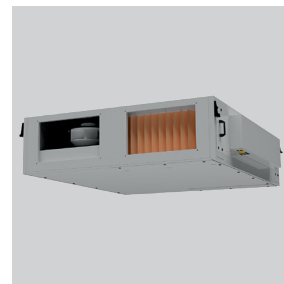
High efficient backward curved fans with EC external rotor motor. Easy access to the fans from the bottom.



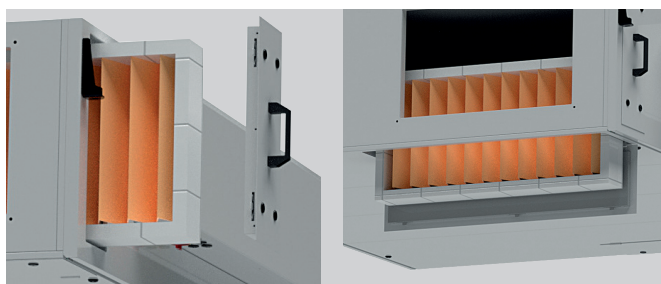
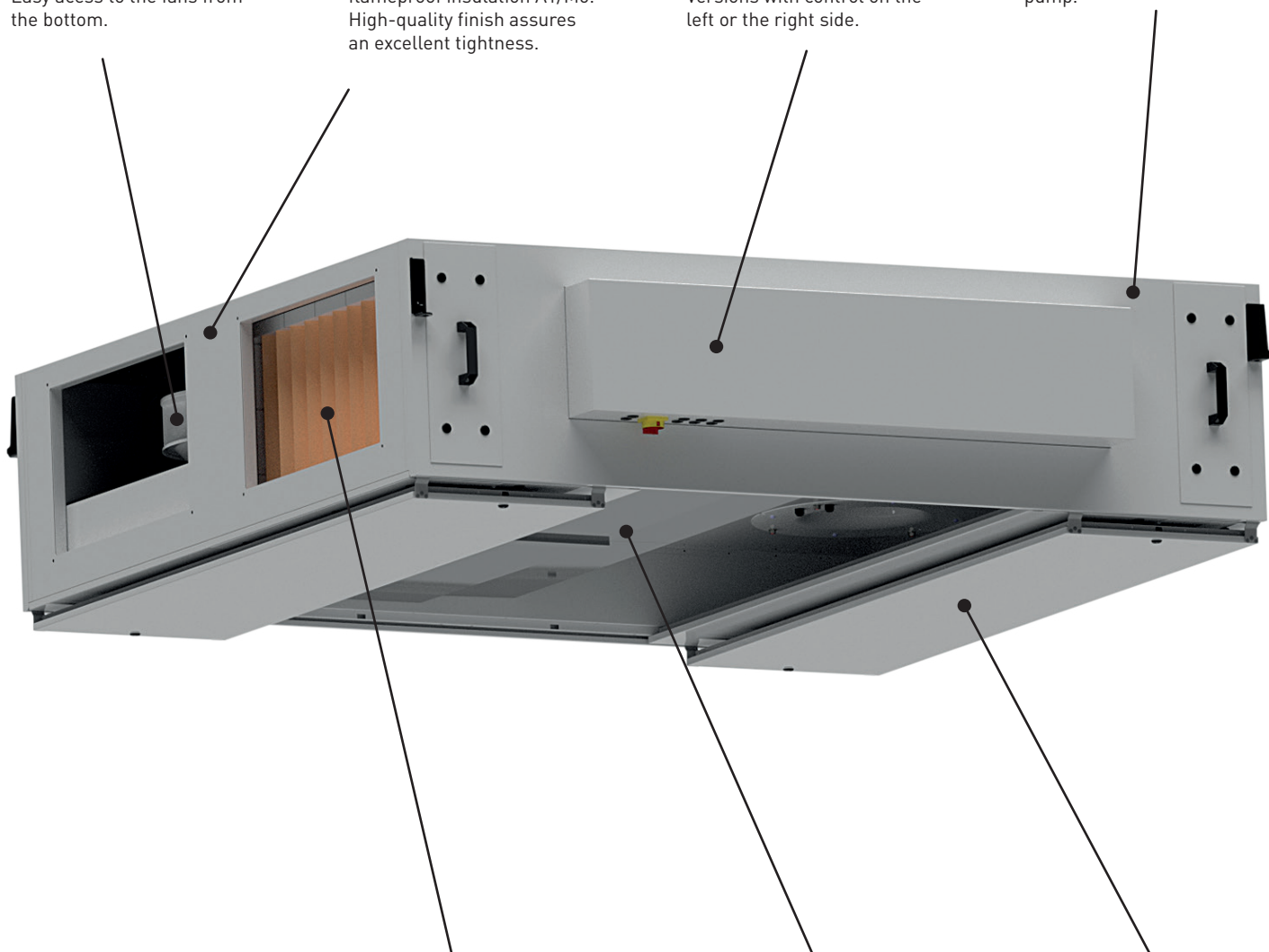
Robust construction with 30 mm double skinned panels with termoacoustic flameproof insulation A1/M0. High-quality finish assures an excellent tightness.



Cabinet with integrated Plug&Play control. Easy access to all components. Versions with control on the left or the right side.



Low profile with lateral condensation connection and integrated condensation pump.



Low pressure minipleat filters. Supply air (F7/ePM1 50%) and extract air (M5/ePM10 50%). Lowest face velocities for higher efficiency. Possibility to install a (F9/ePM1 80%) in the supply air (accessory). Access to the filters from the lateral and from the bottom.

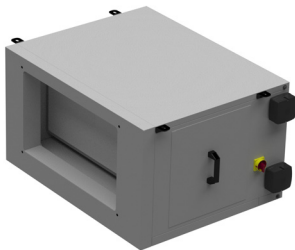
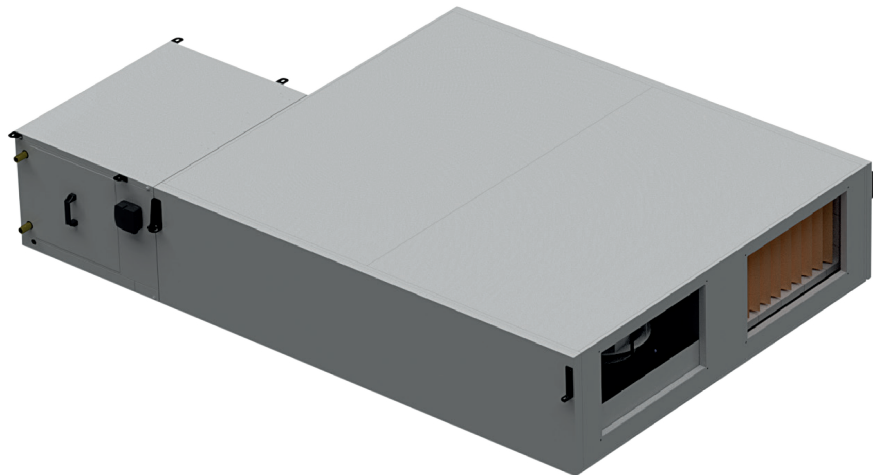


Counterflow heat exchanger (up to 94%) Eurovent certified. Easy access from the bottom for maintenance.



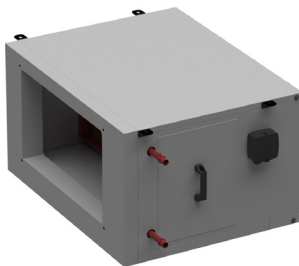
Sliding doors on the bottom for easy maintenance and simple access to all components.

**EXTERNAL COIL MODULES (ACCESSORIES)**



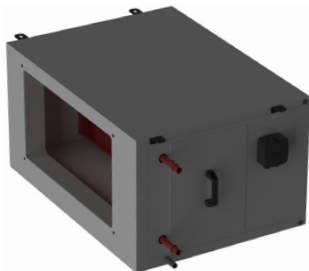
**SL-DI Electric heater**

- External module that includes an electrical battery.
- Finned heater elements where the fins are made from aluzinc and the tubes from stainless steel AISI 321.
- Built-in overheating protection thermostat with automatic reset at 60°C and manual reset at 85°C.
- Integrated temperature sensor (on site connection to the unit).
- Isolator switch installed on the unit.



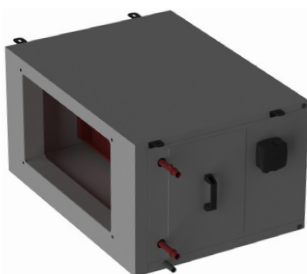
**SL-DC Hot water coil**

- External module that includes a hot water coil. Suitable to be combined with 2 tube-systems.
- 2 rows hot water coil made of copper pipes and aluminium fins.
- Motorized (24V) 3 way valve for proportional (0-10V) control (accessory).
- Anti-frost protection by clamp-on sensor to the return flow pipe.
- Integrated supply air temperature sensor (on site connection to the unit).



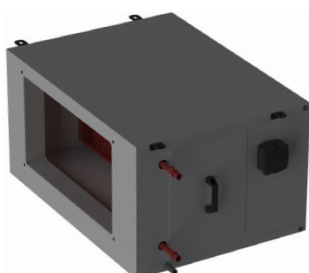
**SL-DFR Reversible water coil (Hot/Cold Water)**

- External module that includes a reversible water coil. Suitable to be combined with 2 tubes systems, both for heating and cooling applications.
- 3 rows water coil made of copper pipes and aluminium fins.
- Motorized (24V) 3 way valve for proportional (0-10V) control (accessory).
- Anti-frost protection by clamp-on sensor to the return flow pipe.
- With welded condensate tray made of galvanised sheet metal.
- Condensate drain ½" located lateral on the modul. It has to be connected to a siphon (accessory).
- Built-in changeover thermostat (THCO) which controls a mixing valve.
- Integrated temperature sensor (on site connection to the unit).



**SL-DF Cold water coil**

- External module that includes a chilled water coil. Suitable to be combined with 2 tube-systems.
- 5 rows water coil made of copper pipes and aluminium fins.
- Motorized (24V) 3 way valve for proportional (0-10V) control (accessory).
- With welded condensate tray made of galvanised sheet metal.
- Condensate drain ½" located lateral on the modul. It has to be connected a siphon (accessory).
- Integrated temperature sensor (on site connection to the unit).



**SL-DX Direct expansion coil**

- External module that includes a direct expansion coil for R-410A.
- Allows the integration of the unit in air conditioning systems of the main existing manufacturers.
- 4 rows coil made of copper tubes and aluminium fins.
- Designed to work in evaporation or condensation mode.
- With welded condensate tray made of galvanised sheet metal.
- Condensate drain ½" located lateral on the modul. It has to be connected a siphon (accessory).
- Integrated temperature sensor (on site connection to the unit).

## PLUG & PLAY CONTROL FUNCTIONS

### MAIN ELEMENTS

#### Control Cabinet on the unit

Isolator switch

Wired control and components integrated in the cabinet

Easy access from the side (Left or Right version)

### FUNCTIONS

#### AIRFLOW CONTROL

##### Three adjustable speeds

Reduced speed, normal speed, extra speed

##### Three adjustable working modes

*CAV constant air volume*

Fan speed is adjusted in dependency of the pressure lost of the filter in order to maintain the adjusted airflow

Each fan is connected to a pressure transmitter which allows to enter different setpoints to each fans

*VAV variable air volume*

Fan speed is adjusted in dependency of a external 0-10V signal. P.e. CO<sub>2</sub> sensor, humidity sensor (accessories)

*COP constant pressure*

Fan speed is adjusted in dependency of a signal which comes form a external pressure sensor (accessory)

The fans maintain the adjusted pressure in the duct, increasing the speed when pressure falls or decrease speed when pressure rise

##### Time programming

Weekly timer, holiday periods

##### Boost function

Via external contact

##### Remote ON/OFF

Available contact to connect an external ON/OFF switch

### TEMPERATURE CONTROL

#### Sensors

Outdoor air temperature sensor (ODA)

Supply air temperature sensor (SUP1)

Extract air temperature sensor (EXT)

Exhaust air temperature sensor (EHA)

Clamp-on sensor for frost protection of water coils (SL-DC, SL-DFR)

Change over thermostat installed on water inlet pipe (SL-DFR)

Supply air temperature sensor (SUP2) already integrated in all the post-treatment modules

#### Frost protection of the heat exchanger

Electric pre-heater (optional), speed reduction of the supply fan, bypass activation

#### Bypass

100% automatic proportional bypass used for free-cooling in summer time and defrost in wintertime

#### Four temperature control modes

Supply air temperature control

Extract air temperature control

Outdoor compensated supply air temperature control

Summer/winter control

### UNIT MONITORING & PROTECTION

Filter clogging  
Malfunction of connected sensor  
Malfunction of fan  
Malfunction of condensation pump  
Heat exchanger  
Fire alarm  
Smoke alarm  
Frost protection for water coils  
Overheating electric battery  
Heat exchanger efficiency  
Alarm history

### ACCESSORY MODULES

#### Electric postheater battery (SL-DI)

Proportional control (PWM), for electric heater module

#### Water coils (SL-DC, SL-DFR, SL-DF)

Contact for motorized 3 way valve 0-10V

#### Direct expansion coils (SL-DX)

0-10V output for cooling or heating demand

#### External damper

Contact for spring return damper actuator (on/off)

### COMMUNICATION

Remote touch screen panel  
MODBUS RTU (RS 485)  
BACNET IP  
Webserver

### REFERENCE

<b>S</b>	<b>L</b>	<b>I</b>	<b>M</b>	-	<b>8</b>	<b>0</b>	<b>0</b>	<b>P</b>	<b>H</b>	<b>L</b>
1					3			3		4

#### 1 - Series:

SLIM

#### 2 - Size:

800, 1200, 1600, 2000

#### 3 - Preheating

PH = With electric preheater integrated from factory

- = Without preheater

#### 4 - Electric cabinet side

L = Left handed

R = Right handed

**TECHNICAL CHARACTERISTICS - MAIN UNIT**

**Version without preheater**

Model	Connection (mm)	Nominal airflow (m <sup>3</sup> /h)	Efficiency heat exchanger* (%)	Power supply	Max. abs. Power (kW)	Max. Current (A)	Weight (kg)
SLIM-800	400x200	800	92,4	1/230V, 50Hz	0,46	2,9	172
SLIM-1200	500x250	1200	92,4	1/230V, 50Hz	0,91	4,1	231
SLIM-1600	600x300	1600	91,7	1/230V, 50Hz	0,93	3,7	266
SLIM-2000	600x350	2000	93,8	1/230V, 50Hz	0,97	4,5	315

\* EXT: -10°C @ 90%RH  
INT: 20°C @ 50%RH

**Version with integrated preheater**

Model	Connection (mm)	Nominal airflow (m <sup>3</sup> /h)	Efficiency heat exchanger* (%)	Power supply	Max. abs. Power (kW)	Max. Current (A)	Weight (kg)
SLIM-800 PH	400x200	800	92,4	1/230V, 50Hz	2,66	12,9	176
SLIM-1200 PH	500x250	1200	92,4	1/230V, 50Hz	3,91	17,8	236
SLIM-1600 PH	600x300	1600	91,7	3/400V+N, 50Hz	6,93	12,8	273
SLIM-2000 PH	600x350	2000	93,8	3/400V+N, 50Hz	8,47	15,9	323

\* EXT: -10°C @ 90%RH  
INT: 20°C @ 50%RH

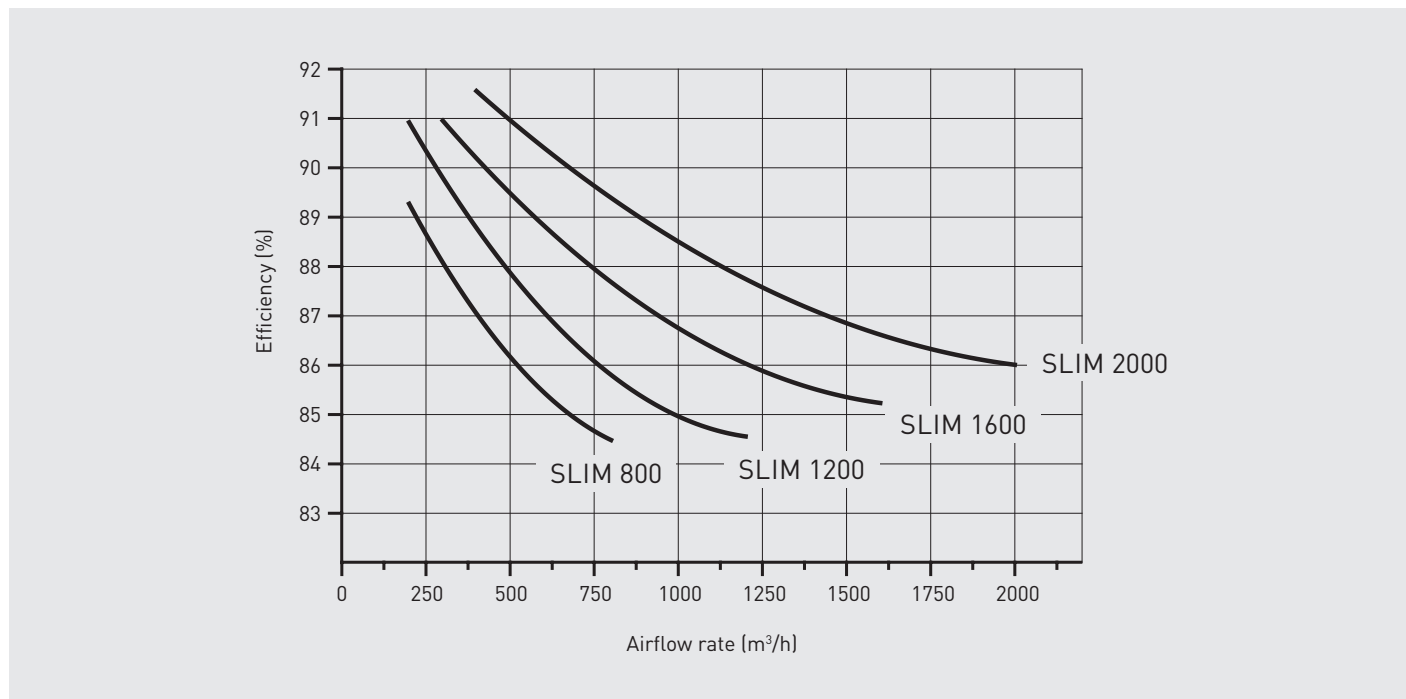
**ACOUSTIC CHARACTERISTICS**

Model	Sound pressure (LpA)*			Sound power (LwA)		
	Inlet	Outlet	Radiated	Inlet	Outlet	Radiated
SLIM 800	45	61	48	65	81	68
SLIM 1200	43	64	49	63	84	69
SLIM 1600	55	65	51	75	85	68
SLIM 2000	46	63	44	66	83	64

\*Average sound pressure level, in dB(A), in free field conditions at 3 m distance.  
Depending on the installation conditions, type of enclosures and characteristics of the materials used in walls and false ceilings, the real sound pressure levels may be different from the values given in the table.

**RECOVERY EFFICIENCY ACCORDING TO THE AIRFLOW**

Values referring to the following conditions:  
 Outdoor temperature: -5°C, RH=80%  
 Indoor temperature: +22°C, RH=50%



**RECOVERY EFFICIENCY RELATIVE TO OUTDOOR TEMPERATURE**

Model	Airflow (m³/h)	OUTDOOR AIR		SUPPLY AIR*		PERFORMANCE*	
		Temperature (°C)	RH (%)	Temperature (°C)	RH (%)	Efficiency (%)	Recovered power (kW)
SLIM 800	800	-10	80	17,6	10,3	86,2	8,27
		-5	80	17,8	15,8	84,4	6,71
		0	70	17,7	21	80,6	5,12
		5	70	18,2	29,2	77,6	3,74
SLIM 1200	1200	-10	80	17,6	10,3	86,2	12,41
		-5	80	17,8	15,8	84,4	10,06
		0	70	17,7	21	80,6	7,69
		5	70	18,2	29,2	77,6	5,62
SLIM 1600	1600	-10	80	17,8	10,2	86,9	16,68
		-5	80	18	15,6	85,1	13,53
		0	70	17,8	20,9	81,1	10,31
		5	70	18,3	29,1	78	7,53
SLIM 2000	2000	-10	80	18	10	87,6	21,02
		-5	80	18,2	15,4	85,9	17,07
		0	70	18,1	20,6	82,1	13,05
		5	70	18,4	28,7	79,1	9,54

\*For indoor temperature 22°C, RH=50%.



## TECHNICAL CHARACTERISTICS OF EXTERNAL MODULES

### Electric POSTHEATER

Type	Supply power (kW)	Absorbed current (A)	Voltage (V)	Weight (kg)
SL-DI 800 3 M	3	14	1/230V, 50Hz	34,5
SL-DI 1200 4 M	4	18	1/230V, 50Hz	42
SL-DI 1600 7,5 T	7,5	11	3/400V, 50Hz	51,6
SL-DI 2000 9 T	9	14	3/400V, 50Hz	54,4

### Hot water coil

Type	Heating capacity (kW)*	Water content (L)	Weight (without liquid) (kg)	Recommended 3 way valve
SL-DC 800 2	4,5	0,4	7,6	3WV DN15 KVS1 PROP 24V
SL-DC 1200 2	6,6	0,7	9,7	3WV DN15 KVS1,6 PROP 24V
SL-DC 1600 2	9,3	1	11,4	3WV DN15 KVS2,5 PROP 24V
SL-DC 2000 2	11,7	1,1	12,4	3WV DN15 KVS2,5 PROP 24V

\*Referred to nominal air flow. In/Out water temperature 50/40°C.

### Reversible water coil for 2 pipes installation

Type	Heating capacity (kW) <sup>(1)</sup>	Cooling capacity (kW) <sup>(2)</sup>	Water content (L)	Weight (without liquid) (kg)	Recommended 3 way valve
SL-DFR 800 3	4,3	3,4	0,6	8,4	3WV DN15 KVS1 PROP 24V
SL-DFR 1200 3	7,2	5,8	1	10,8	3WV DN15 KVS1,6 PROP 24V
SL-DFR 1600 3	9,2	6,76	1,3	12,6	3WV DN20 KVS4 PROP 24V
SL-DFR 2000 3	11,7	8,6	1,7	13,7	3WV DN20 KVS4 PROP 24V

<sup>(1)</sup> Referred to nominal air flow. In/Out water temperature 50/40°C.

<sup>(2)</sup> Referred to nominal air flow. In/Out water temperature 7/12°C.

### Chilled water coil

Type	Cooling capacity (kW)*	Water content (L)	Weight (without liquid) (kg)	Recommended 3 way valve
SL-DF 800 5	4,8	1	10,5	3WV DN15 KVS1,6 PROP 24V
SL-DF 1200 5	8,3	1,6	13,7	3WV DN15 KVS2,5 PROP 24V
SL-DF 1600 5	10,9	2,3	15,8	3WV DN15 KVS2,5 PROP 24V
SL-DF 2000 5	13,8	3	17,3	3WV DN20 KVS4 PROP 24V

\*Referred to nominal air flow. In/Out water temperature 7/12°C.

### Direct expansion coil

Type	Cooling power (kW) 7°C EVAP*	Heating power (kW) 39°C COND*	Internal volumen (l)	Weight (without refrigerant) (kg)
SL-DX 800 4	4,5	4,4	0,8	9,7
SL-DX 1200 4	7,4	7,2	1,2	12,7
SL-DX 1600 4	8,4	8,8	1,7	15,5
SL-DX 2000 4	11,6	11,6	2,3	16,6

\*R410A. Subcooling= 0°C. Overheating= 5°C

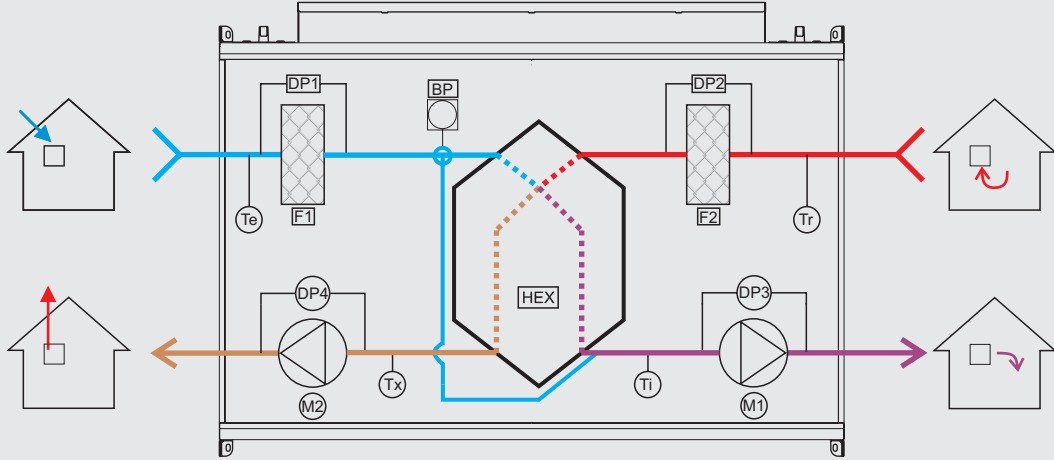
## TECHNICAL CHARACTERISTICS OF PREHEATERS

Type	Supply power (kW)	Absorbed current (A)	Voltage (V)	Weight (kg)	Max. Air pressure drop (Pa)
SL-PH 800 2,2 M	2,2	10	1/230V, 50Hz	1,8	30 Pa
SL-PH 1200 3 M	3	14	1/230V, 50Hz	3,6	30 Pa
SL-PH 1600 6 T	6	9	3/400V, 50Hz	5,4	30 Pa
SL-PH 2000 7,5 T	7,5	11	3/400V, 50Hz	7,2	30 Pa

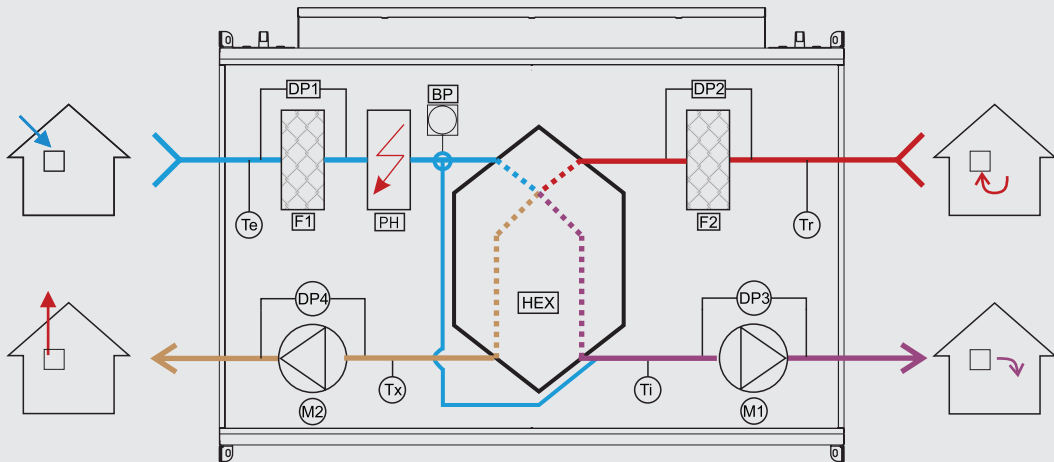


**MAIN COMPONENTS (SYNOPTIC INSTALLATION EXAMPLE )**

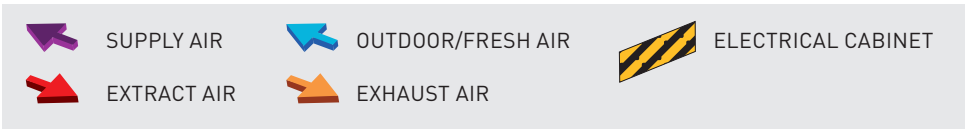
**Version without preheater**



**Version PH (With built-in preheater)**

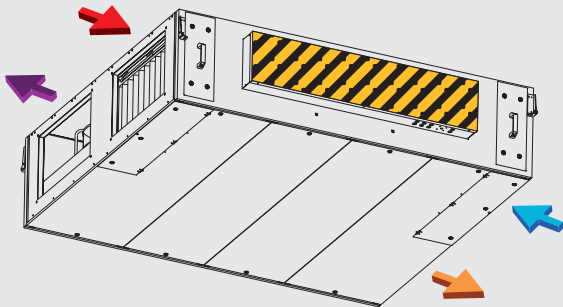


- |                          |                                 |  |
|--------------------------|---------------------------------|--|
| <b>F1</b> Supply filter  | <b>HEX</b> Heat Exchanger       | <b>PH</b> Electric preheater           |
| <b>F2</b> Extract filter | <b>DP1</b> Pressure switch      | <b>Ti</b> Temperature probe (T sup)    |
| <b>BP</b> Bypass damper  | <b>DP2</b> Pressure switch      | <b>Tr</b> Temperature probe (T indoor) |
| <b>M1</b> Supply motor   | <b>DP3</b> Pressure transmitter | <b>Te</b> Temperature probe (T out)    |
| <b>M2</b> Extract motor  | <b>DP4</b> Pressure transmitter | <b>Tx</b> Temperature probe (T exha)   |

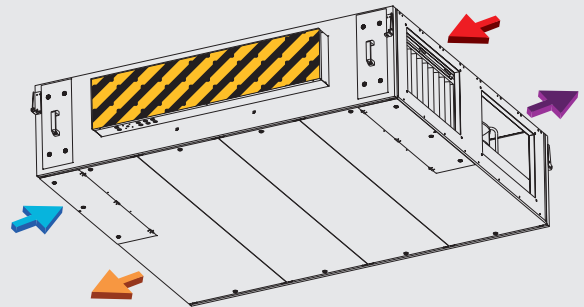


**STANDARD CONFIGURATIONS**

**SLIM-L**

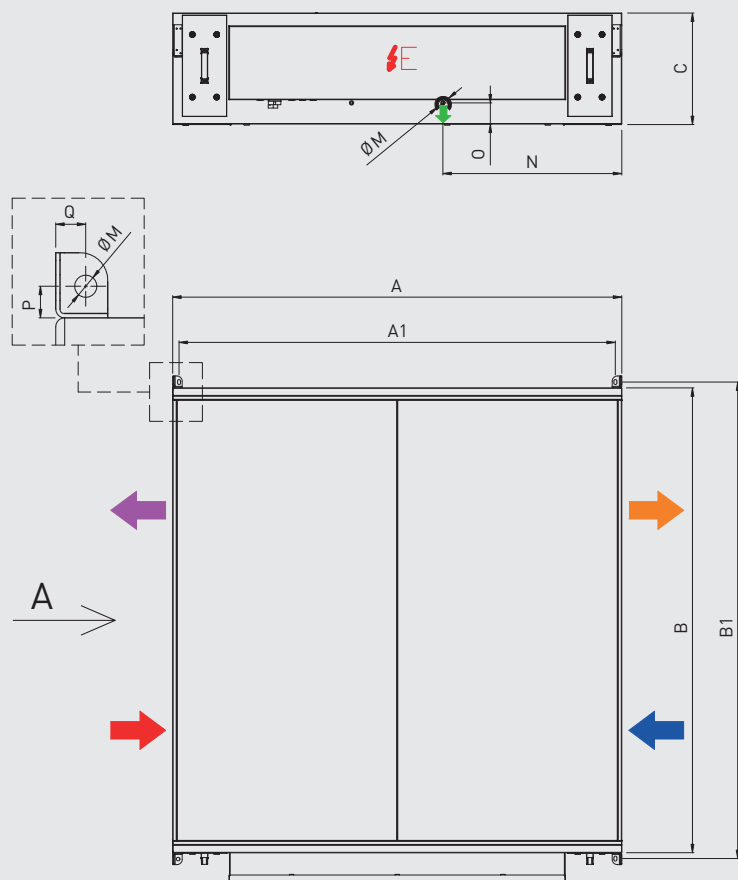


**SLIM-R**

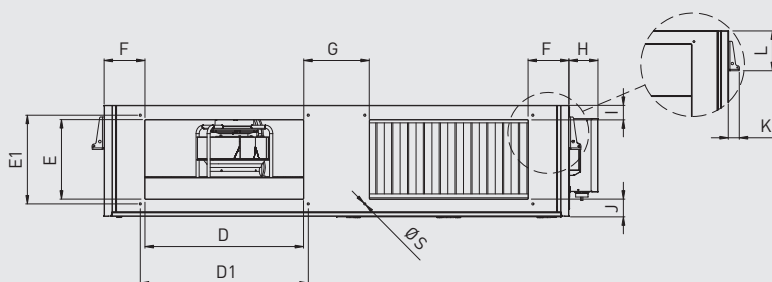


**DIMENSIONS - MAIN UNIT**

**SLIM L (Left hand version)**



**VIEW FROM "A"**



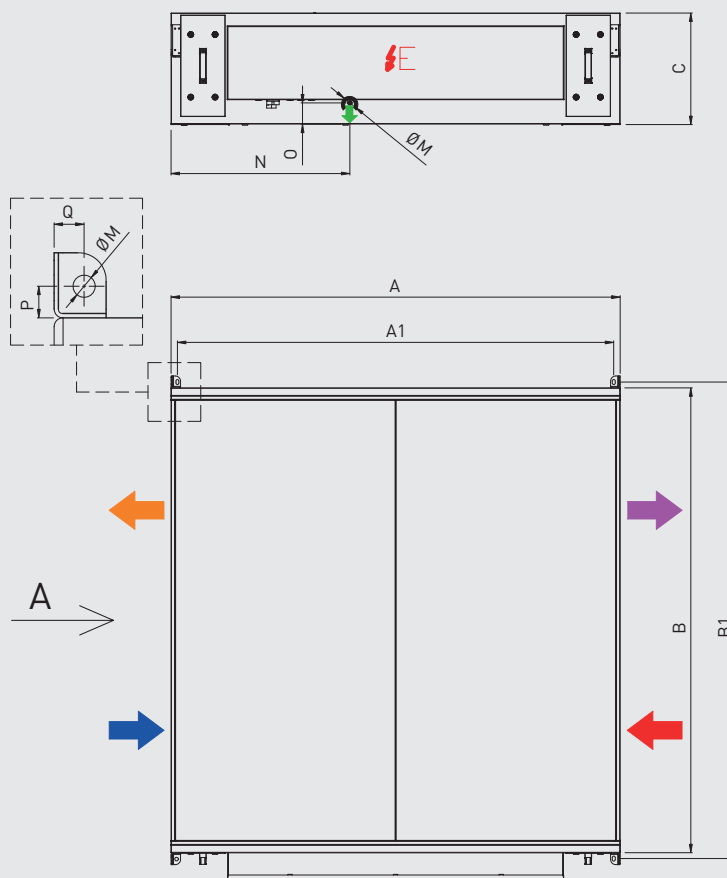
- ELECTRICAL CABINET
- OUTDOOR / FRESH AIR
- SUPPLY AIR
- EXTRACT AIR
- EXHAUST AIR
- DRAIN OUTLET

Model	A	A1	B	B1	C	D	D1	E	E1	F	G	H
SLIM 800	1700	1659	1080	1130	380	400	420	200	220	85	110	110
SLIM 1200	1700	1659	1560	1610	380	500	520	250	270	155	250	110
SLIM 1600	1700	1659	1760	1810	420	600	620	300	320	155	250	110
SLIM 2000	2000	1953	1760	1810	500	600	620	350	370	155	250	110

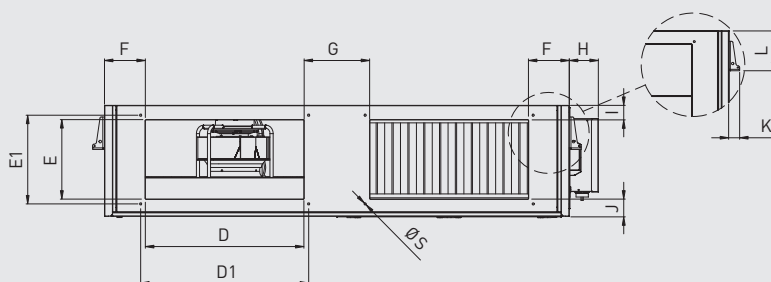
Model	I	J	K	L	M	N	O	P	Q	R	S
SLIM 800	55	125	45	167	8	685	80	22	14,4	17	M8
SLIM 1200	55	75	45	167	8	685	80	22	14,4	17	M8
SLIM 1600	55	65	45	167	8	677	80	22	14,4	17	M8
SLIM 2000	55	95	45	167	8	785	86	22	14,4	17	M8

**DIMENSIONS - MAIN UNIT**

**SLIM R (Right hand version)**



VIEW FROM "A"



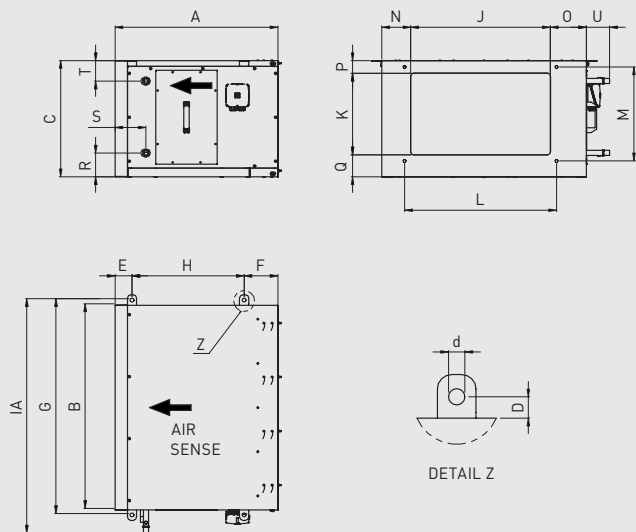
- ELECTRICAL CABINET
- OUTDOOR / FRESH AIR
- SUPPLY AIR
- EXTRACT AIR
- EXHAUST AIR
- DRAIN OUTLET

Model	A	A1	B	B1	C	D	D1	E	E1	F	G	H
SLIM 800	1700	1659	1080	1130	380	400	420	200	220	85	110	110
SLIM 1200	1700	1659	1560	1610	380	500	520	250	270	155	250	110
SLIM 1600	1700	1659	1760	1810	420	600	620	300	320	155	250	110
SLIM 2000	2000	1953	1760	1810	500	600	620	350	370	155	250	110

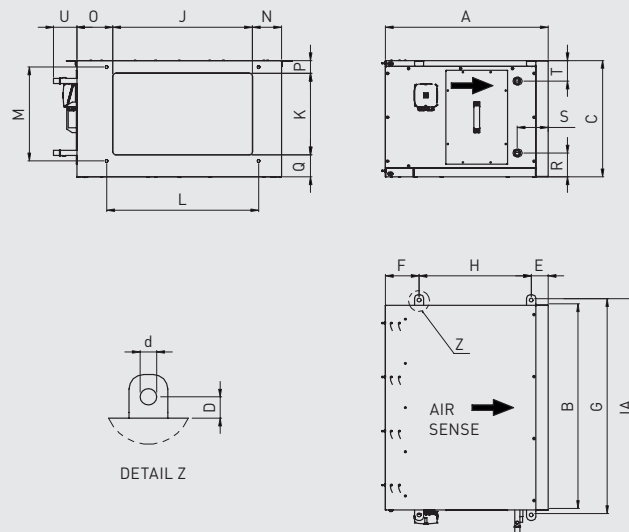
Model	I	J	K	L	M	N	O	P	Q	R	S
SLIM 800	55	125	45	167	8	685	80	22	14,4	17	M8
SLIM 1200	55	75	45	167	8	685	80	22	14,4	17	M8
SLIM 1600	55	65	45	167	8	677	80	22	14,4	17	M8
SLIM 2000	55	95	45	167	8	785	86	22	14,4	17	M8

**DIMENSIONS - MAIN UNIT**

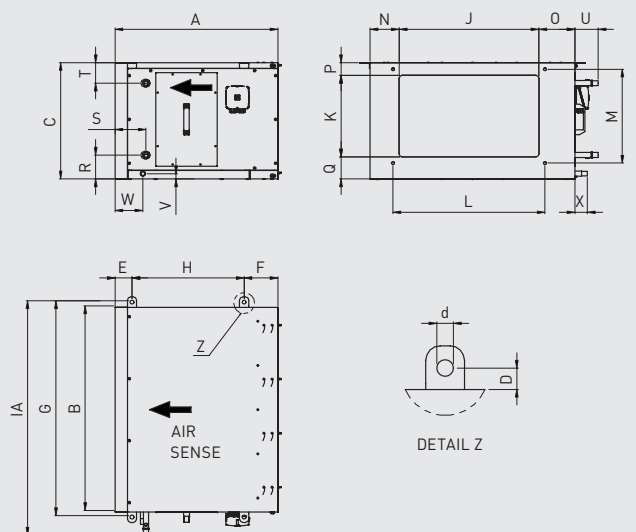
**SL-DC Hot water coil**  
 Version -R



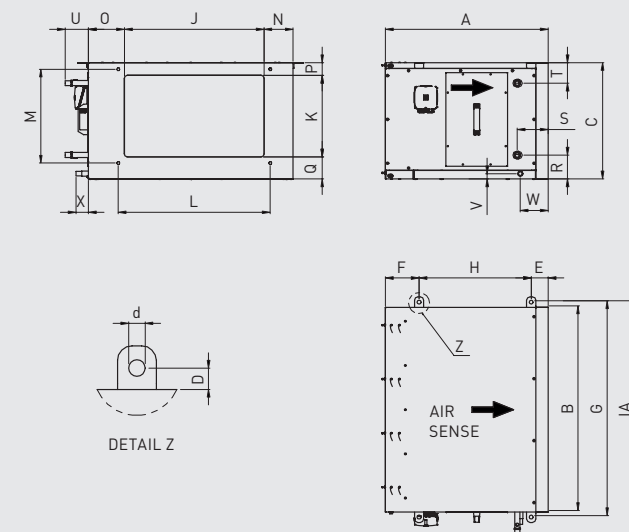
**SL-DC Hot water coil**  
 Version -L



**SL-DF/DFR/DX Cold water coil / Reversible / DX**  
 Version -R



**SL-DF/DFR/DX Cold water coil / Reversible / DX**  
 Version -L

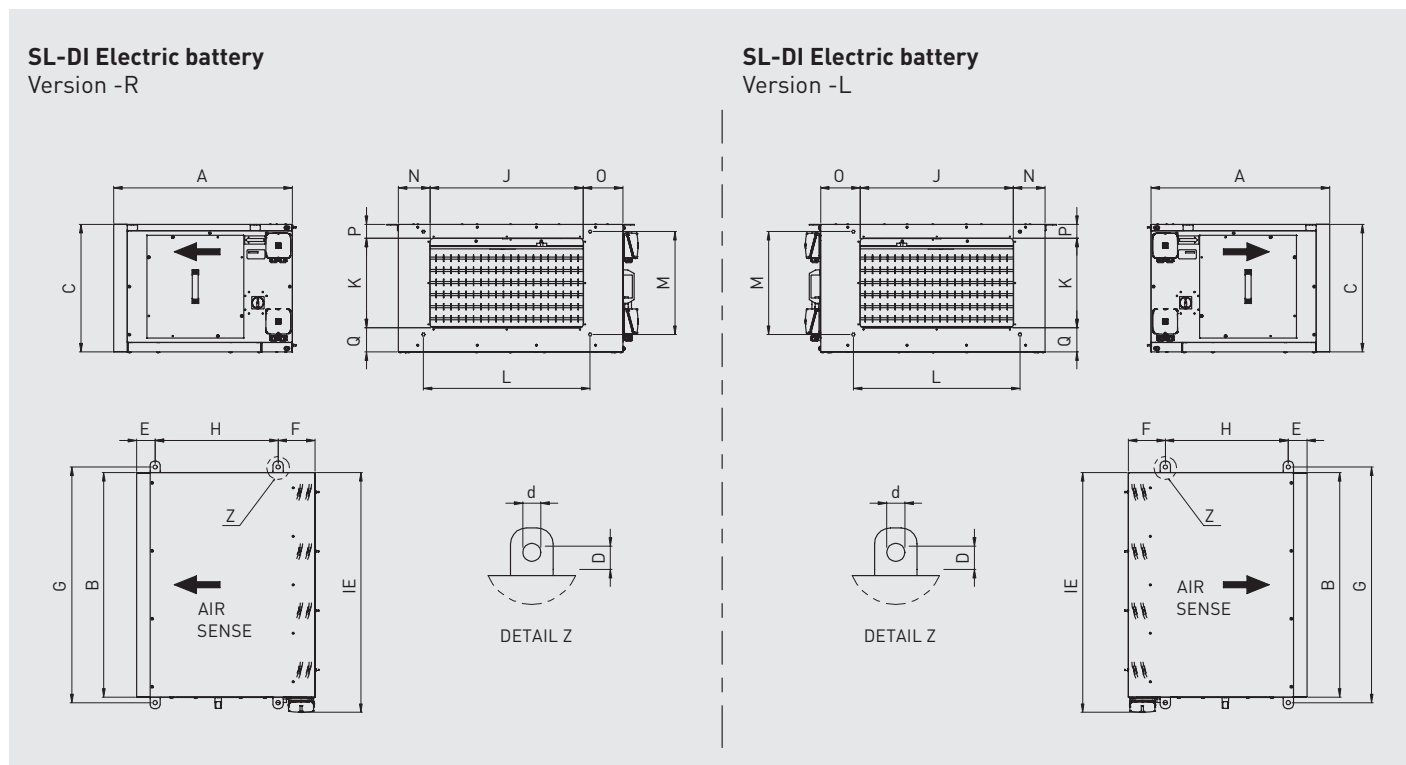


**SL-DF / SL-DFR / SL-DX**

Size/Model	A	B	C	d	D	E	F	G	H	IA	J	K
800	700	540	380	17	22	73	145	584	482	685	400	200
1200	700	780	380	17	22	73	145	824	482	925	500	250
1600	700	880	420	17	22	73	145	924	482	1025	600	298
2000	700	880	500	17	22	73	145	924	482	1025	600	350

Size/Model	L	M	N	O	P	Q	R	S	T	U	V	W	X
800	420	220	55	85	55	125	107,6	133	88,4	100	22,7	119,8	54
1200	520	270	125	155	55	75	107,6	133	88,4	100	22,7	119,8	54
1600	620	320	125	155	55	67	97,6	133	88,4	100	22,7	119,8	54
2000	620	370	125	155	55	95	102,6	133	88,4	100	22,7	119,8	54

**DIMENSIONS - MAIN UNIT**



**SL-DI**

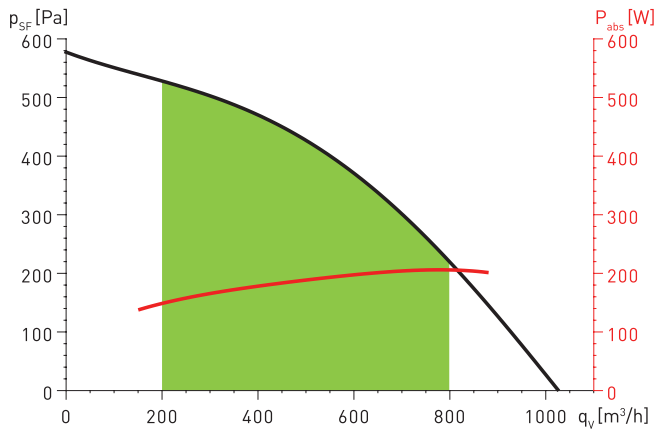
Size/Model	A	B	C	d	D	E	F	G	H
800	700	540	380	17	22	73	145	584	482
1200	700	780	380	17	22	73	145	824	482
1600	700	880	420	17	22	73	145	924	482
2000	700	880	500	17	22	73	145	924	482

Size/Model	IE	J	K	L	M	N	O	P	Q
800	645	400	200	420	220	55	85	55	125
1200	885	500	250	520	270	125	155	55	75
1600	985	600	298	620	320	125	155	55	67
2000	985	600	350	620	370	125	155	55	95

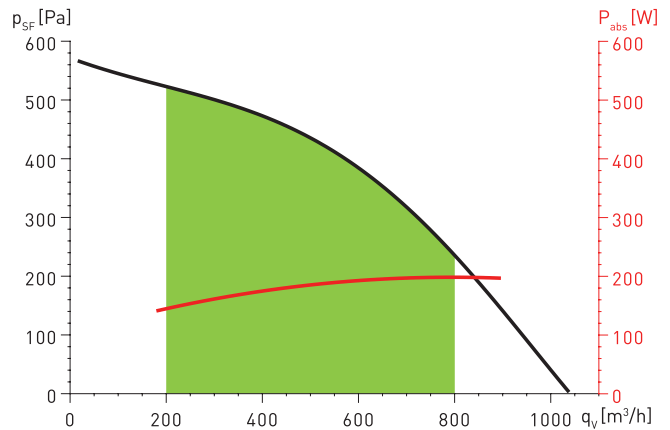
**PERFORMANCE CURVES**

- $q_v$ : Flow rate (m<sup>3</sup>/h).
- $p_{sf}$ : Static pressure in Pa and mmcda.
- $P_{abs}$  = Absorbed power at maximum speed (W).
- Normal dry air at 20°C and 760 mm.c.d.Hg.
- Tests performed according to ISO 5801 and AMCA 210-99.
- Absorbed power corresponding to a single circuit.

SLIM 800 - Extract Air

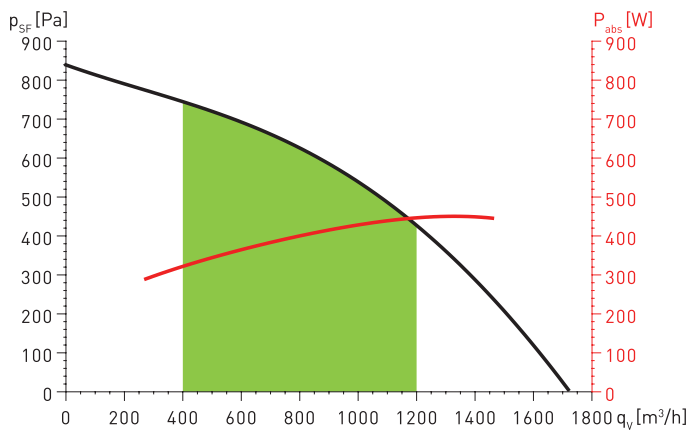


SLIM 800 - Supply Air

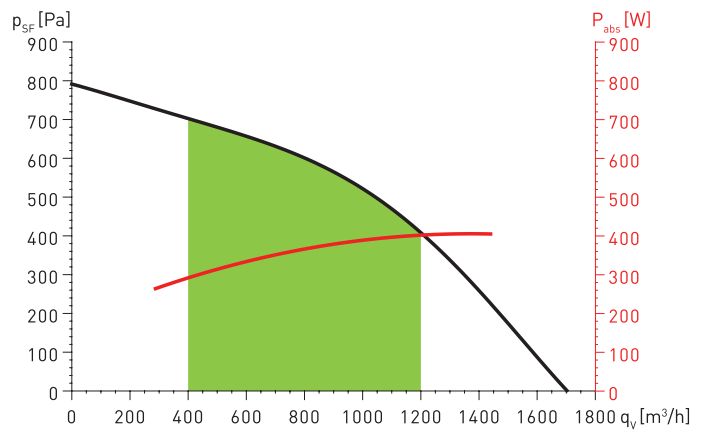


SL-DI 800-3	Pa
0	2 5 10 15 20 25 30 35
SL-DC 800-2	Pa
0	5 10 20 30 40 50 60 80 100
SL-DFR 800-3	Pa
0	10 20 30 40 50 60 70 90 110 140
SL-DF 800-5	Pa
0	10 20 30 40 60 80 100 130 160 200 260
SL-DX 800-4	Pa
0	10 20 30 40 60 80 100 130 160 190 230 270

SLIM 1200 - Extract Air



SLIM 1200 - Supply Air

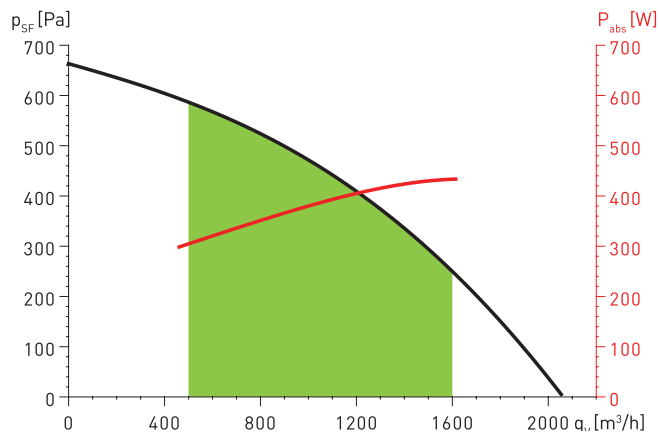


SL-DI 1200-4,0M	Pa
0	1 3 5 8 11 15 20 25 30 35 40
SL-DC 1200-2	Pa
0	5 10 20 30 40 50 60 70 80 90 105
SL-DFR 1200-3	Pa
0	5 10 20 30 40 50 60 75 90 105 125 145 170
SL-DF 1200-5	Pa
0	10 20 40 60 80 100 130 160 190 230 270
SL-DX 1200-4	Pa
0	10 20 40 60 80 100 130 160 190 230 270

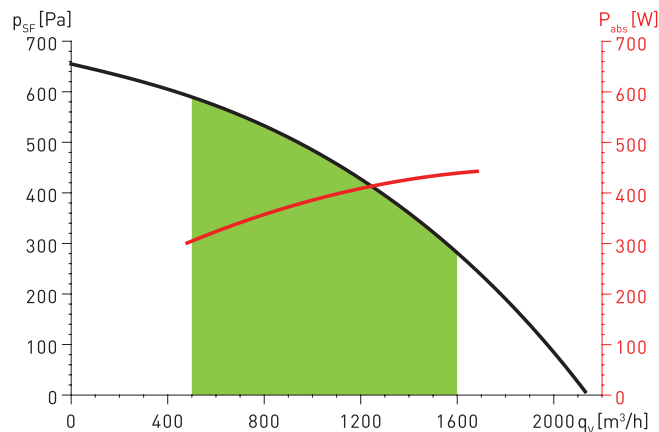
### PERFORMANCE CURVES

- $q_v$ : Flow rate (m<sup>3</sup>/h).
- $p_{sf}$ : Static pressure in Pa and mmca.
- $P_{abs}$  = Absorbed power at maximum speed (W).
- Normal dry air at 20°C and 760 mm.c.d.Hg.
- Tests performed according to ISO 5801 and AMCA 210-99.
- Absorbed power corresponding to a single circuit.

SLIM 1600 - Extract Air

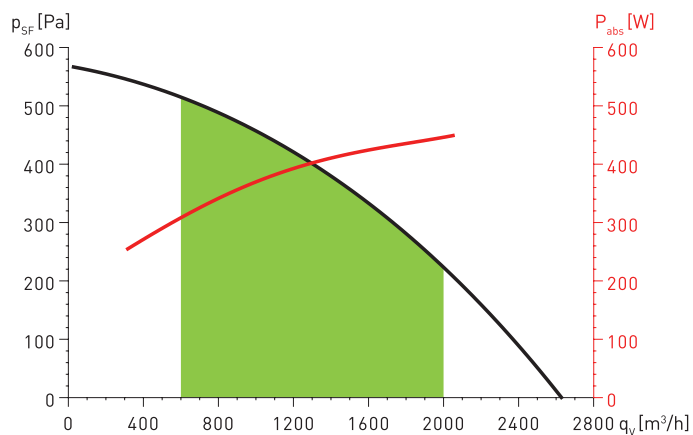


SLIM 1600 - Supply Air

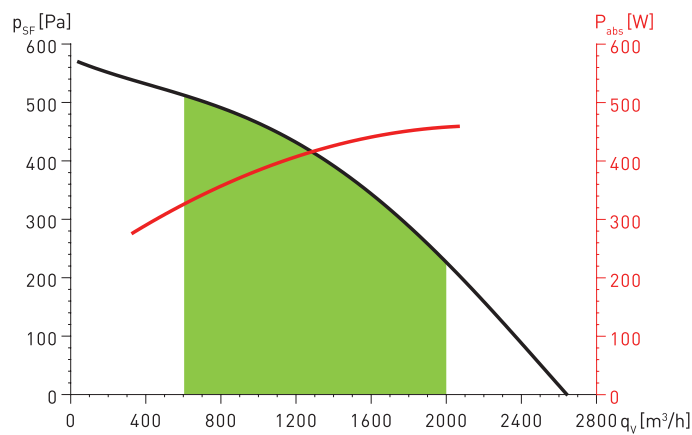


SL-DI 1600-7,5T	Pa									
0	2	5	10	20	30					
SL-DC 1600-2	Pa									
0	5	10	20	30	40	50	60	70	80	
SL-DFR 1600-3	Pa									
0	10	20	30	40	50	60	70	85	100	120
SL-DF 1600-5	Pa									
0	10	20	30	40	50	60	70	80	100	120
SL-DX 1600-4	Pa									
0	10	20	30	40	50	60	70	80	100	120

SLIM 2000 - Extract Air



SLIM 2000 - Supply Air



SL-DI 2000-9,0T	Pa												
0	2	5	7	10	15	20	25	30	35				
SL-DC 2000-2	Pa												
0	5	10	15	20	30	40	50	60	70				
SL-DFR 2000-3	Pa												
0	10	20	30	40	50	60	70	80	90	110	130		
SL-DF 2000-5	Pa												
0	10	20	30	40	50	60	70	85	100	120	140	160	
SL-DX 2000-4	Pa												
0	10	20	30	40	50	60	75	90	105	125	145	170	



### SPECIFIC ACCESSORIES

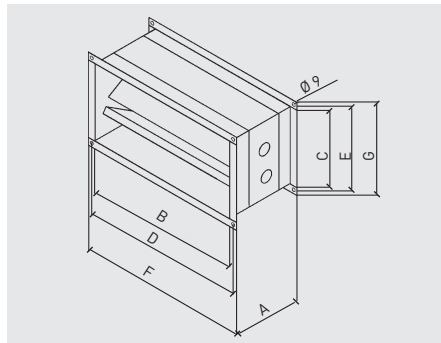
SLIM units are complemented with a wide range of air treatment accessories, specifically designed to integrate in the supply.



Heat recovery unit model	Connection (h x w)	M5 spare filter	F7 spare filter	F9 filter (to replace F7 filter)	Rectangular flexible connection	Antivibration mounts (4 pieces kit)	Isolation dampers	On-off damper actuator (spring return)
SLIM 800	400 x 200 mm	AFR-SLIM 800 M5	AFR-SLIM 800 F7	AFR-SLIM 800 F9	IAE-200	KIT AM CAD-COMPACT / SLIM	IJK-200	LF-230 S
SLIM 1200	500 x 250 mm	AFR-SLIM 1200 M5	AFR-SLIM 1200 F7	AFR-SLIM 1200 F9	IAE-225	KIT AM CAD-COMPACT / SLIM	IJK-225	LF-230 S
SLIM 1600	600 x 300 mm	AFR-SLIM 1600 M5	AFR-SLIM 1600 F7	AFR-SLIM 1600 F9	IAE-285	KIT AM CAD-COMPACT / SLIM	IJK-285	LF-230 S
SLIM 2000	600 x 350 mm	AFR-SLIM 2000 M5	AFR-SLIM 2000 F7	AFR-SLIM 2000 F9	IAE-315	KIT AM CAD-COMPACT / SLIM	IJK-315	LF-230 S



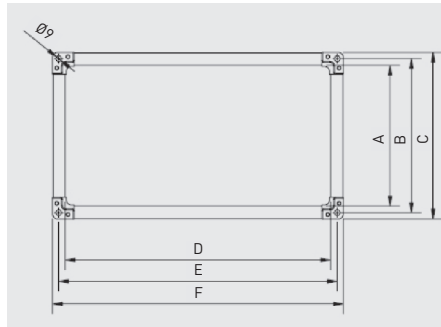
**IJK**  
Manual motorisable dampers. Supplied with standard rectangular flanges. Manufactured from galvanised sheet steel. Fitted as standard with removable handle. Shaft diameter: 10 mm.



Model	A	B	C	D	E	F	G	Weight (kg)
IJK-200	162	400	200	420	220	440	240	3,3
IJK-225	162	500	250	520	270	540	290	4,2
IJK-285	162	600	300	620	320	640	340	5,4
IJK-315	162	600	350	620	370	640	390	5,8



**IAE**  
Rectangular flexible connection.



Model	A	B	C	D	E	F
IAE-200	198	220	240	400	420	440
IAE-225	248	270	290	500	520	540
IAE-285	298	320	340	600	620	640
IAE-315	348	370	390	600	620	640



**LF 230 S**  
On-Off actuator with spring return. Power supply: 230 V 50 Hz.

### REQUIRED ACCESORIES FOR EXTERNAL MODULES (WATER COILS)



#### 3 WAY VALVE WITH PROPORTIONAL ACTUATOR

Three way motorised control valve.  
Pressure 16 bar.  
Rp" internal nut.  
Nickel-plated forged brass casing.  
Stainless steel valve cone.  
Stainless steel shaft.

Average temperatures -10°C...+120°C.  
5Nm mounted rotatory actuator.  
AC/DC 24V, proportional.  
90s/90° valve response time.  
DC 2...10V working range.  
IP 54.

Heat recovery unit model	3-way-valve for SL-DC modules	3-way-valve for SL-DFR modules	3-way-valve for SL-DF modules
SLIM 800	3WV DN15 KVS1 PROP 24V	3WV DN15 KVS1 PROP 24V	3WV DN15 KVS1,6 PROP 24V
SLIM 1200	3WV DN15 KVS1,6 PROP 24V	3WV DN15 KVS1,6 PROP 24V	3WV DN15 KVS2,5 PROP 24V
SLIM 1600	3WV DN15 KVS2,5 PROP 24V	3WV DN20 KVS4 PROP 24V	3WV DN15 KVS2,5 PROP 24V
SLIM 2000	3WV DN15 KVS2,5 PROP 24V	3WV DN20 KVS4 PROP 24V	3WV DN20 KVS4 PROP 24V

Note: These are only general recommendations that will meet the KVS requirements in a certain installation type. It is highly recommended to select the 3WV through EasyVent Selector.

### ELECTRIC ACCESORIES FOR VENTILATION CONTROL

Accessories for Variable Air Volume. VAV by CO <sub>2</sub> level		Accessories for constant air flow operation CAV	Accessories for constant pressure operation COP
Duct	Ambience		
SCO2-G 0-10V	AIRSENS CO <sub>2</sub>	Airflow transmitters included in the unit (factory mounted)	TDP-S



#### AIRSENS CO<sub>2</sub>

Indoor air-quality control device with a built-in CO<sub>2</sub> sensor. Especially designed to create DCV systems directly used with single-phase or ECOWATT fans, depending on the relay or analogue control output selected.

Main features:

- 4 working modes:
  - Relay output and Modbus (reading).
  - 0-10V output and Modbus (reading).
  - 2-10V output and Modbus (reading)
  - Full Modbus control.

Adjustable set point.

- Air-quality level indicator (3-LED diffuser).
- Adjustable brightness 3-LED diffuser.

Model	Electrical supply	Power (W)	Relay	Analogue output	Lecture range	IP Protection	Dimensions LxWxH (mm)
AIRSENS-CO2	100-240 VAC 50/60Hz	0,7W	3A 250 VAC	0-10 V 2-10 V	450-2000 ppm	IP30	122x23x89



#### TDP-S

Pressure sensor.



#### SCO2-G 0/10V

CO<sub>2</sub> sensor for duct installation. It controls the ventilation depending on the CO<sub>2</sub> levels in the air circulating through the extraction duct. Outlet: 0-10V. Power: 24 VDC.