

## DOMEX EEC



### HIGH EFFICIENCY COUNTER FLOW HEAT EXCHANGER WITH EC MOTOR

#### MANUFACTURING FEATURES

High efficiency heat recovery unit (Eff.92%) with electronic regulation, EC motor and modbus connection for an optimized and centralized management. Counter flow heat exchanger, Eurovent certified. Set in insulated steel boxes with sandwich self-extinguishing polystyrene foam panels. With total bypass and CTRL-MAX control (see options in control panel in documentation), with COP, CAV, VAV and modbus. Configuration options: without heating, with electric or water battery (cold or hot). With F7/F7 or F7+F9/F7 filters. Versions for vertical and horizontal installation.

#### CHASSIS:

- Modular structure, in 30mm extruded aluminum profile and reinforced with nylon corners.
- Made up of sandwich panels insulated with self-extinguishing polystyrenes, thickness 25 mm and density 30 kg/m3.

#### HEAT EXCHANGER:

- Aluminium Counter flow heat exchanger with 92% efficiency.
- Eurovent certified.

#### FANS:

- PLUG FAN Probat EEC by Casals, ErP compliant.

#### FILTERS:

- F7/F7 or F7+F9/F7.

#### COILS:

- In the horizontal configuration, the heating module is incorporated in the unit, while in the vertical version this module is external to the unit.

#### CONTROL:

- CTRL-MAX: Automatic bypass, manual or automatic speed control by choosing constant flow (CAV), variable flow rate (VAV) and constant pressure (COP). Automatic management of the post-heating temperature of the electric coil or cold or hot water coil. Modbus connection.

CAV- CONSTANT FLOW

COP- CONSTANT PRESSURE

VAV - VARIABLE FLOW (CO2 sensor)

#### APPLICATIONS

- Shopping centers, small shops, banks, hospitality, schools, office buildings, public buildings.

#### UNDER REQUEST

- Without control.
- Manual bypass.
- Kit COP+CAV, VAV.
- F9/F7 filters.
- Cold water coil.
- Remote display and/or Modbusprotocol

## Accessories



DCO2

FILTRO  
S  
RECUPE  
RADORES

SCO2

TEJ

### CONFIGURATIONS

Vertical and horizontal configurations with and with- out coils. Consult other special configurations.

DOMEX EEC vertically only available with electrical coil; it is not possible to install a water coil. Both coils can only be installed in CV and EV configurations.

[See maintenance video](#)

## Technical data

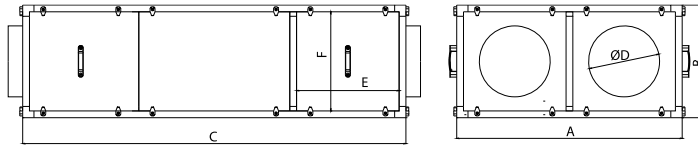
### Single-phase motor

Code	Model	R.P.M.	Rated I. (A) 230V	Rated power kW	Max. Airflow m <sup>3</sup> /h	Sound db (A)**	Weight	Connect. diagram
-	DOMEX 1000 EEC H	-	2x1,4	0,17	973	-	105	1
-	DOMEX 1000 EEC V	-	2x1,4	0,17	973	-	105	1
-	DOMEX 1600 EEC H	-	2x2,2	0,50	1.656	-	140	1
-	DOMEX 1600 EEC V	-	2x2,2	0,50	1.656	-	140	1
-	DOMEX 2300 EEC H	-	2x2,2	0,50	2.299	-	185	1
-	DOMEX 2300 EEC V	-	2x2,2	0,50	2.299	-	185	1
-	DOMEX 3900 EEC H	-	2x6,7	1,35	3.944	-	200	1
-	DOMEX 3900 EEC V	-	2x6,7	1,35	3.944	-	200	1
-	DOMEX 5400 EEC H	-	2x6	1,40	5.365	-	350	1
-	DOMEX 5400 EEC V	-	2x6	1,40	5.365	-	350	1

**Notes:**

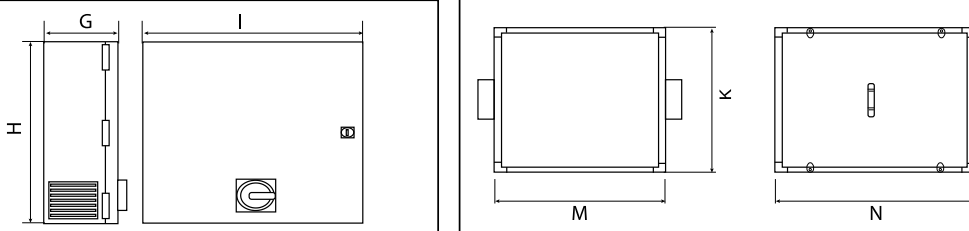
\*\* Total sound pressure level at the point of maximum flow measured in dB(A) in the suction measured in free field at a distance of 6m from the source

## Dimensions



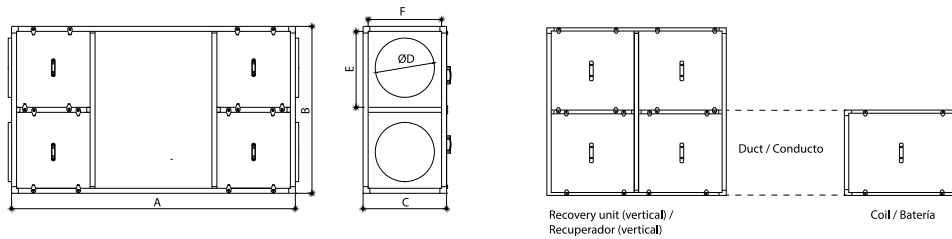
Electrical box / Cuadro eléctrico

Coil / Bateria



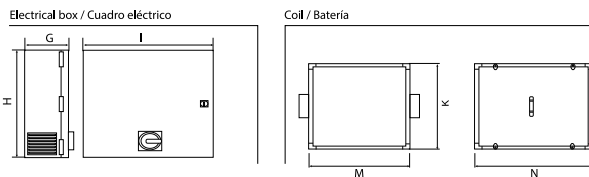
Model	A	B	C	D	E	F	G	H	I (BA)
DOMEX 1000 EEC H	860	465	1500	315	385	405	230	600	400
DOMEX 1600 EEC H	1000	500	1700	355	455	440	230	600	400
DOMEX 2300 EEC H	1450	500	1900	355	593	440	230	600	400
DOMEX 3900 EEC H	1600	650	2200	450	700	590	230	600	400
DOMEX 5400 EEC H	1740	785	2600	450	825	725	230	600	400

Model	I (BE)	K	M	N	Ø (BA)
DOMEX 1000 EEC H	500	465	430	350	1/2"
DOMEX 1600 EEC H	500	500	520	350	1/2"
DOMEX 2300 EEC H	500	500	725	350	1/2"
DOMEX 3900 EEC H	500	650	800	350	1/2"
DOMEX 5400 EEC H	500	785	870	350	3/4"



Recovery unit (vertical) / Recuperador (vertical)

Coil / Bateria



Electrical box / Cuadro eléctrico

Coil / Bateria

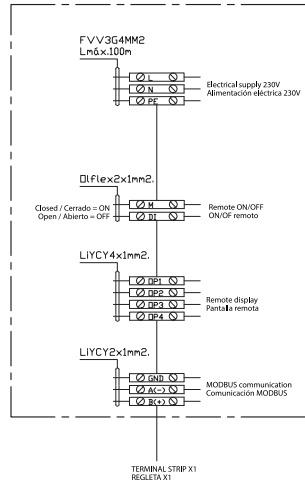
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DOMEX 1600 EEC V	1700	1000	500	355	455	440	230	600	400
DOMEX 2300 EEC V	1900	1450	500	355	600	440	230	600	400
DOMEX 3900 EEC V	2200	1600	650	450	700	590	230	600	400
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# Wiring diagram

DIAGRAM Nº 1

Connection by the installer  
Conexiones a cargo del instalador



# CHARACTERISTIC CURVE

1	DOMEX 1000 EEC H	2	DOMEX 1000 EEC V	3	DOMEX 1600 EEC H	4	DOMEX 1600 EEC V
5	DOMEX 2300 EEC H	6	DOMEX 2300 EEC V	7	DOMEX 3900 EEC H	8	DOMEX 3900 EEC V
9	DOMEX 5400 EEC H	10	DOMEX 5400 EEC V				

## AIR FLOW - PRESSURE

