

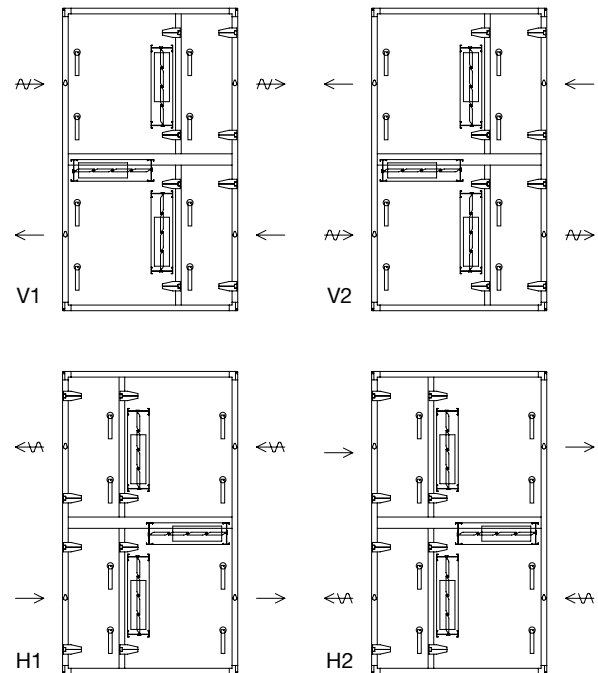
Mixing Section (code EBC)



The EBC mixing section is a unit section with three dampers for mixing exhaust air, recirculated air and outdoor air.

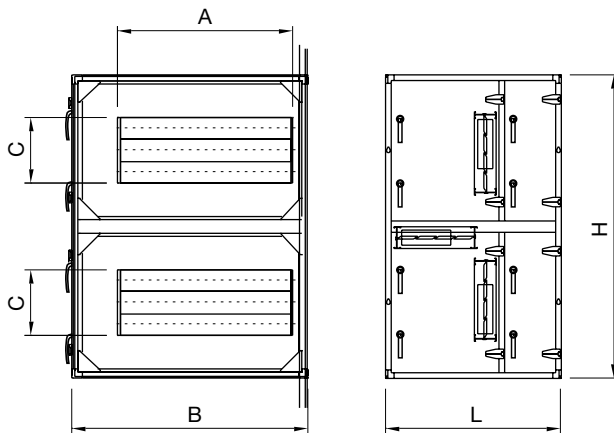
- The EBC mixing section has built-in type KJS dampers of IV Produkt manufacture.
- The dampers are made of aluminium -profiled sections and meet the provisions of corrosion resistance class C4 to SS-EN ISO 12944-2.
- The damper blades are driven by ABS plastic gears and a tubular silicone rubber gasket achieves a tight seal between the blades.
- The dampers for the size 060–600 units are interlinked to two internal shafts.
- Tightness class 3 to SS-EN1751 (VVS AMA-98).
- Permissible temperature: -40 to +80 °C.
Permissible differential pressure: max. 1400 Pa.
- The EBC mixing section has inspection covers for access to both the upper and lower levels.

Configuration



V = left-hand version, H = right-hand version

Dimensions and Weights



Size	Dimensions (mm)					Wgt (kg)*	Req. torque (Nm)
	L	B	H	A	C		
060	630	850	880	500	200	55	3**
100	630	980	1010	700	200	70	3**
150	780	1080	1390	800	300	105	5**
190	780	1360	1390	1000	300	115	5**
240	930	1360	1610	1000	400	140	6**
300	930	1580	1610	1200	400	155	6**
360	930	1580	1980	1200	500	190	8**
480	930	1950	1980	1400	500	215	8**
600	1080	2160	2190	1600	600	260	12**
740	962	2480	2480	2000	500	410	3×6***
750	962	2020	2740	1600	500	370	3×6***
850	962	2560	2740	2200	500	445	3×6***
950	1162	2020	3320	1600	700	455	3×7***

* The specified weight refers to a casing with standard insulation. For calculating the weight of casings with insulation to fire resistance class EI30, use the IV Produkt Designer product selection software.

** 2 damper motors are required (12×12 mm damper shaft), of which the one motor can be sized using the table; the other motor must be sized to the table value × 0.5.

*** 3 damper motors are required.

Operation and Maintenance Instructions

Dampers

General

The function of the dampers is to control, shut-off and guide the air.

Faulty operation leads to disturbances that can result in serious consequences. For example if the outdoor damper does not shut completely when the unit stops, the heating coil may freeze and burst.

If the damper leaks, energy consumption will increase due to leakage caused by thermal lift. If the outdoor damper does not open completely, this will reduce the airflow.

Measures

What to check

Check how the actuator operates (see Control Operation according to the operating instructions).

Check that the damper blades seal tightly when they are supposed to be closed. If not, adjust the damper blades to achieve optimal tightness.

Inspect the sealing strips.

Inspect the connecting rod between the various dampers.

Lubricate if required.

Cleaning

Clean the damper blades.