

## Fan casing with 25 mm insulation, safety switch, EC motor and potentiometer type MVB EC

Double skinned ventilation box with EC fan

### Application

- The range consists of 5 sizes and 7 types and covers an air flow range from 200 up to 10.000 m<sup>3</sup>/h.
- Use for ventilation of buildings requesting medium to high air flow
- Can be used for air intake as well as exhaust (in line)
- Designed to meet the highest standards in thermal and acoustic insulation

### Composition

- Structure with aluminum profiles
- Corners in reinforced polyamiden
- Removable panels
- Outer layer: prelacquered steel plate (RAL 7035) with protection sheet
- Insulation: high-quality glass wool (60 kg/m<sup>3</sup>) 25 mm with fire class A2-s1,d0 (M0)
- Inside: galvanized steel plate
- Internal elements access panel equipped with security bolt
- Built-in nuts for fastening on floor, wall or ceiling
- Round connections with lip seals
- IP55 box wired in factory with safety switch and IP66 potentiometer to select the required air volume for the installation
- Possibility to connect a manual remote control on/out or a clock
- Standard equipped with suction- and discharge panels with round connection piece and lip seal to secure the airtightness of this system
- The standard configuration of this deaze fan casing is with horizontal suction and discharge (type HH) - other configurations available on demand

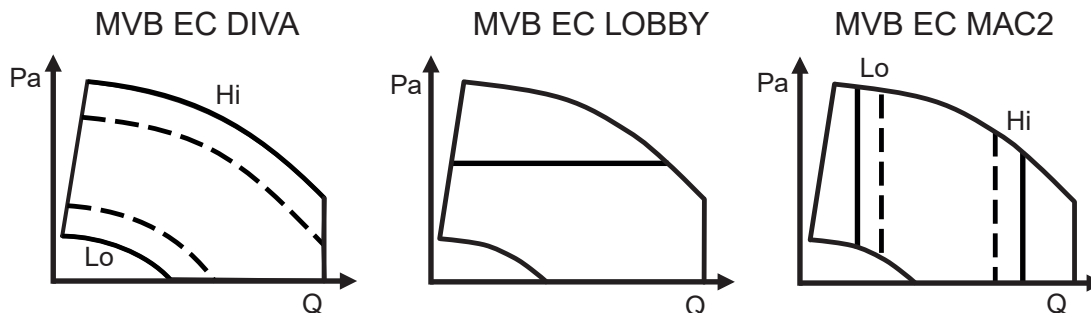
### Fan

- Ziehl Abegg plug fan with EC motor
- Directly driven EC motor with thermal protection
- Fan mounted on anti-vibration mounts
- Plug fan with epoxy coating (MVB EC 4B in galvanized steel)
- Direct driven EC current motor with electronic commutation (EC) with high efficiency, thermal protection and integrated speed control
- The EC technology has brought together high efficient DC motors with low energetic consumption for the management, control and the supervision of the duty point (regulation of the air volume from 10 up to 100%)

- Low noise level for a better acoustic comfort
- Dynamically balanced, class G6.3 according to DIN ISO 1940

**Options**

- **MVB EC DIVA:** Proportional modulating flow (between a set min. And max. Flow) of each fan based on a built-in CO2 measurement.
- **MVB EC LOBBY:** constant pressure modulation of the air flow with an integrated transmitter
- **MVB EC MAC2:** modulation for 1 or 2 constant air flows (except MVB EC 4A)



**Accessories**

- Roof **MXV-TCB** for outside use
- Canopy with guard **MXV-AGC**
- Damper to be motorised **MXV-RM**
- Flexible connectors **MTS**
- Filterbox **MXV-PF-M5** or **MXV-PF-F7**
- Electrical heating module **MXV-BE**
- Hot water heating module **MXV-BC**
- Chilled water module **MXV-BF**
- Direct expansion coil module **MXV-DX**
- VAV-boxes, type **VAV-CS**, **VAV-B** and **VAV-RS**
- External displays, type **E3-DSP** (only with LOBBY-DIVA-MAC2)

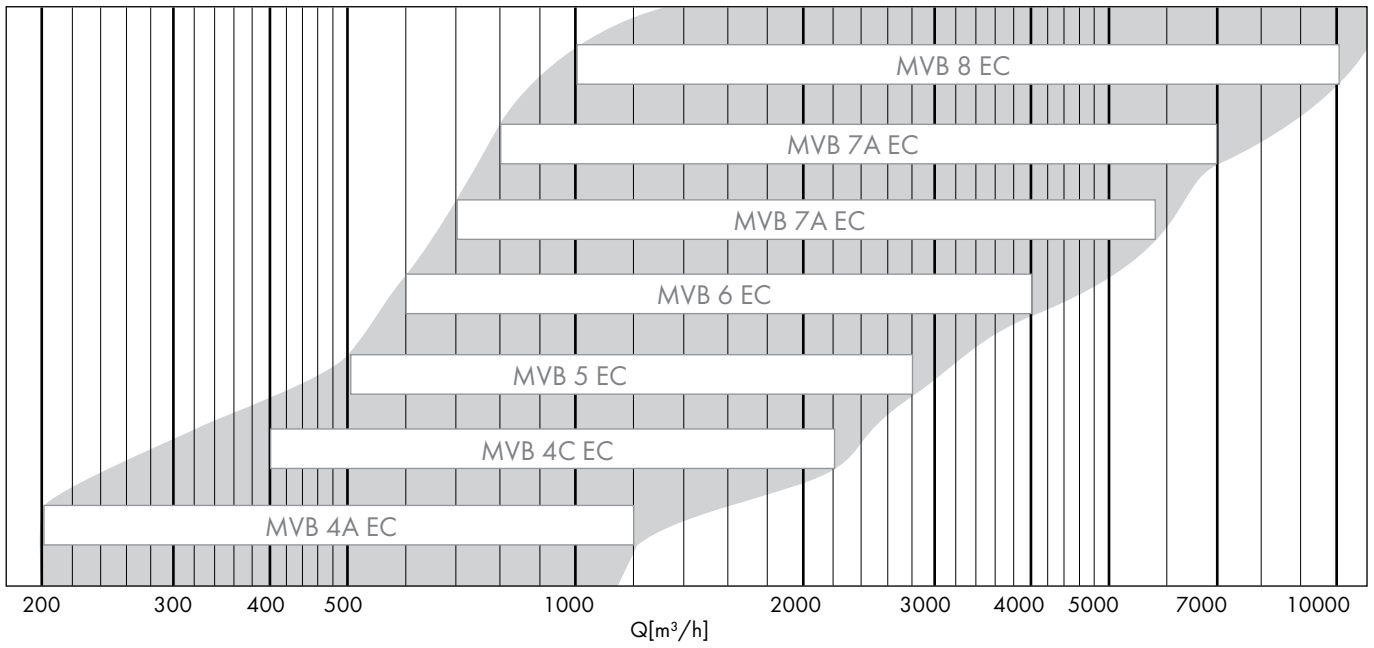
**Order example**

- **MVB-EC 5**
- **MVB-EC:** type of fan
- **5:** size

	Air performance data									
	Q [m³/h]									
	100Pa	200Pa	300Pa	400Pa	500Pa	600Pa	700Pa	800Pa	900Pa	1000Pa
MVB EC 4A	1225	1100	965	800	410	400	-	-	-	-
MVB EC 4B*	1930	1860	1800	1740	1670	1520	1360	1200	1000	770
MVB EC 4C	2180	2055	1910	1765	1625	1450	1215	-	-	-
MVB EC 5	2810	2715	2610	2475	2360	2200	1975	1750	-	-
MVB EC 6	-	3925	3750	3540	3310	3025	2650	2080	-	-
MVB EC 7*	6580	6560	6500	6800	6700	6300	6000	5550	5500	5600
MVB EC 7A	-	5600	5400	5250	5050	4800	4500	4050	3650	2925
MVB EC 7B	-	6675	6425	6100	5775	5400	5010	4625	4150	3500
MVB EC 8	-	9380	9000	8650	8260	7805	7380	6615	5760	4500

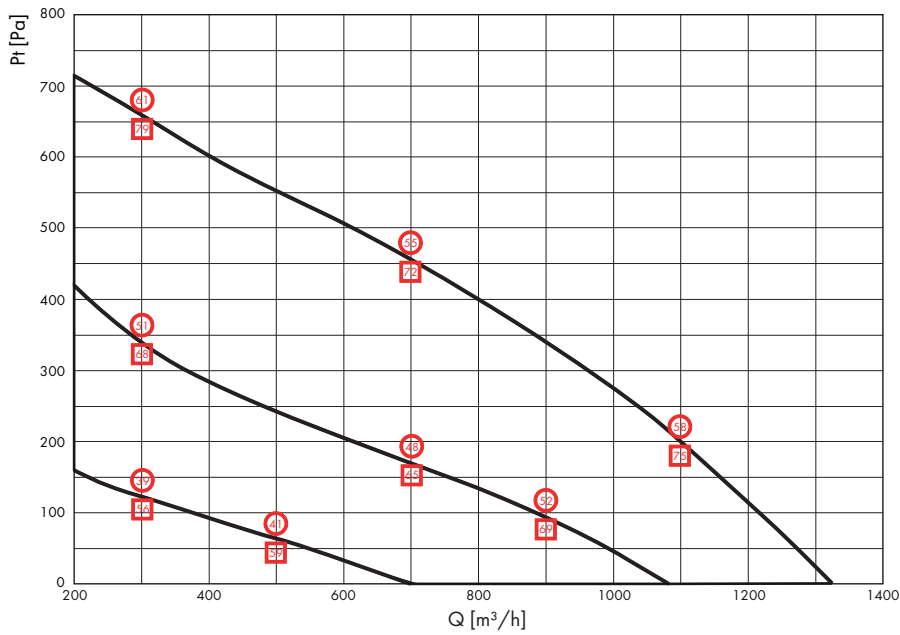
\* niet meer verkrijgbaar / n'est plus disponible / no longer available

**Selection curves**

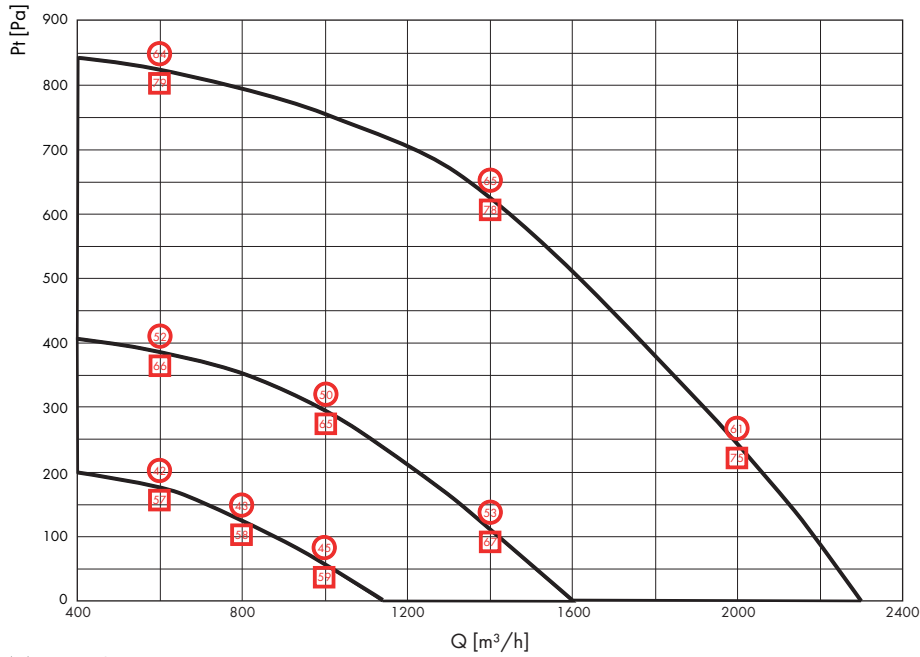


**Selection curves**

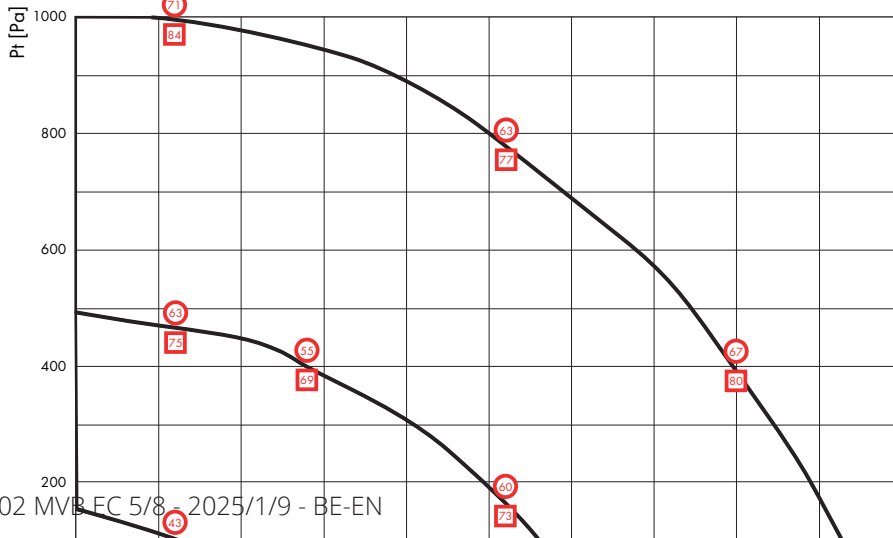
MVB EC 4A



MVB EC 4C

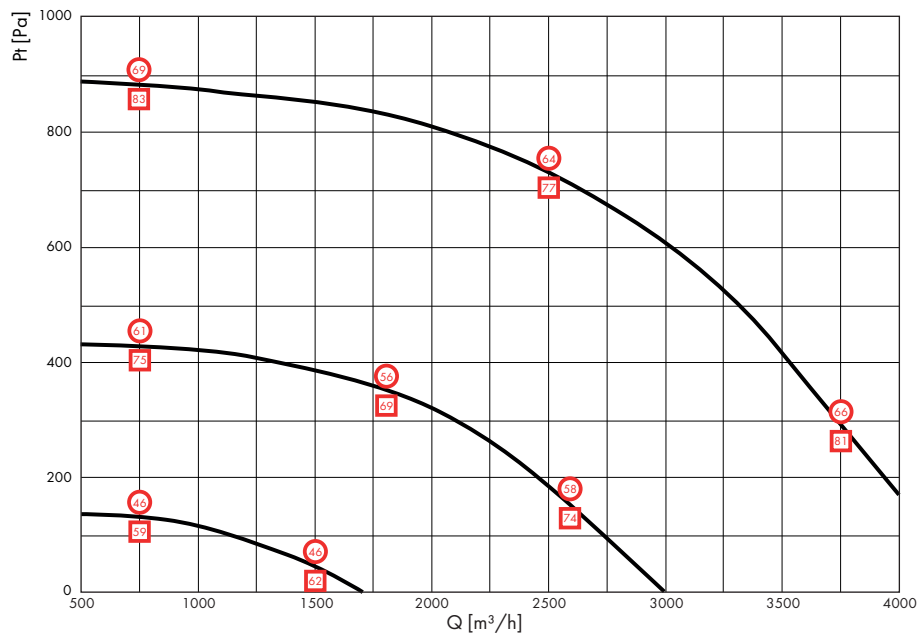


MVB EC 5

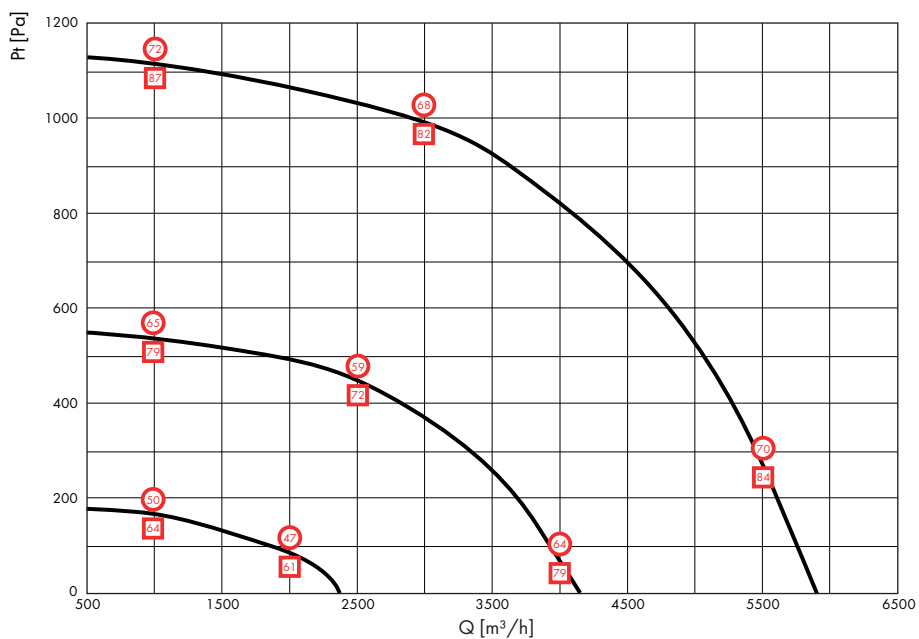


Selection curves

MVB EC 6

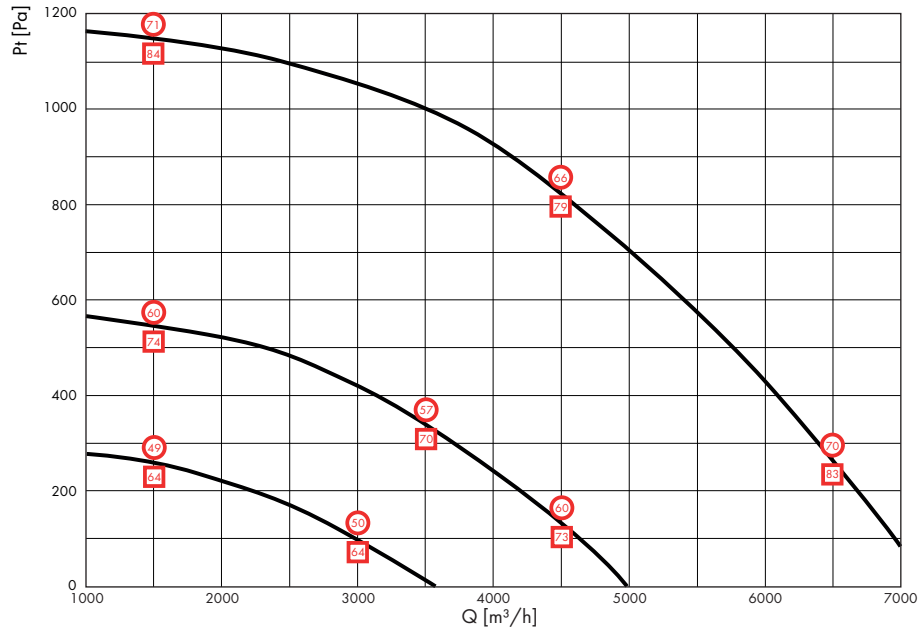


MVB EC 7A

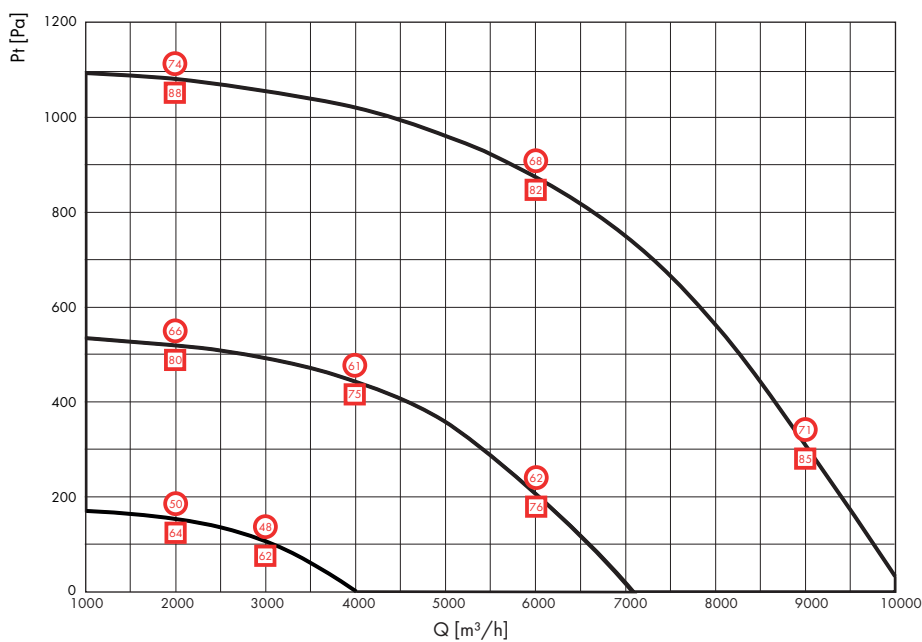


Selection curves

MVB EC 7B



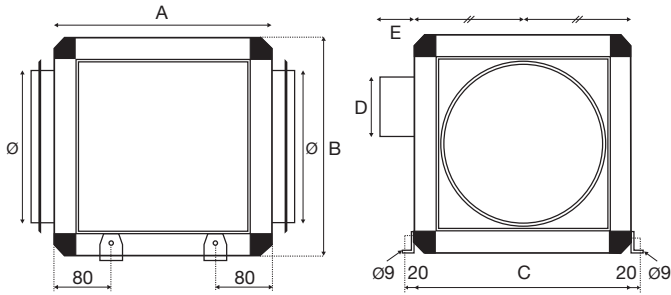
MVB EC 8



	Technical data							
	U [V]	P [W]	I [A]	Tm [°C]	To [°C]	Lwa 5 [dB(A)]	Lpa @ 4m [dB(A)]	IP
MVB EC 4A	1 x 230	230	1.60	60	-20	79	61	IP44 / B
MVB EC 4B*	1 x 230	485	3.10	60	-20	82	65	IP54 / B
MVB EC 4C	1 x 230	490	2.30	60	-20	79	64	IP54 / B
MVB EC 5	1 x 230	700	3.00	40	-20	84	71	IP54 / B
MVB EC 6	3 x 400	1000	1.60	55	-20	83	69	IP54 / B
MVB EC 7*	3 x 400	2500	4.00	40	-20	88	75	IP54 / B
MVB EC 7A	3 x 400	1700	2.60	40	-20	87	72	IP54 / B
MVB EC 7B	3 x 400	1950	3.15	40	-20	84	71	IP54 / B
MVB EC 8	3 x 400	2730	4.20	40	-20	88	74	IP54 / F

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- Tm = Maximum air temperature
- To = Minimum operating temperature
- Lwa 5 = Sound power level @inlet
- Lpa = Sound pressure level

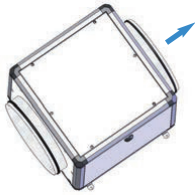


	A [mm]	B [mm]	C [mm]	Dimensions		Ø [mm]	[kg]
				D [mm]	E [mm]		
MVB EC 4A	445	445	445	MVB EC DIVA/LOBBY/MAC2	245	180	29
MVB EC 4B*	445	445	445	MVB EC DIVA/LOBBY/MAC2	245	180	34
MVB EC 4C	445	445	445	MVB EC DIVA/LOBBY/MAC2	245	180	32
MVB EC 5	545	545	545	MVB EC DIVA/LOBBY/MAC2	245	180	43
MVB EC 6	645	645	645	MVB EC DIVA/LOBBY/MAC2	245	180	64
MVB EC 7*	745	745	745	MVB EC DIVA/LOBBY/MAC2	245	180	89
MVB EC 7A	745	745	745	MVB EC DIVA/LOBBY/MAC2	245	180	86
MVB EC 7B	745	745	745	MVB EC DIVA/LOBBY/MAC2	245	180	90
MVB EC 8	845	845	970	MVB EC DIVA/LOBBY/MAC2	245	180	125

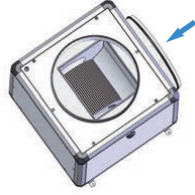
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### Configurations

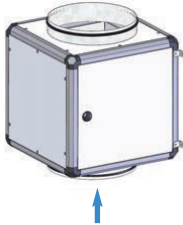
HH



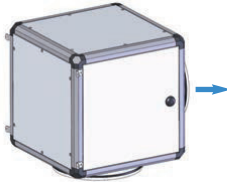
HV



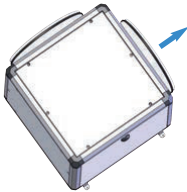
VV



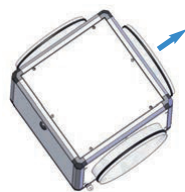
VH



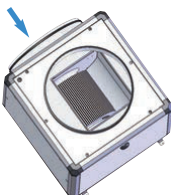
OH



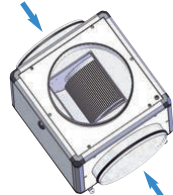
2 OH



OV



2 OV



\* No longer available