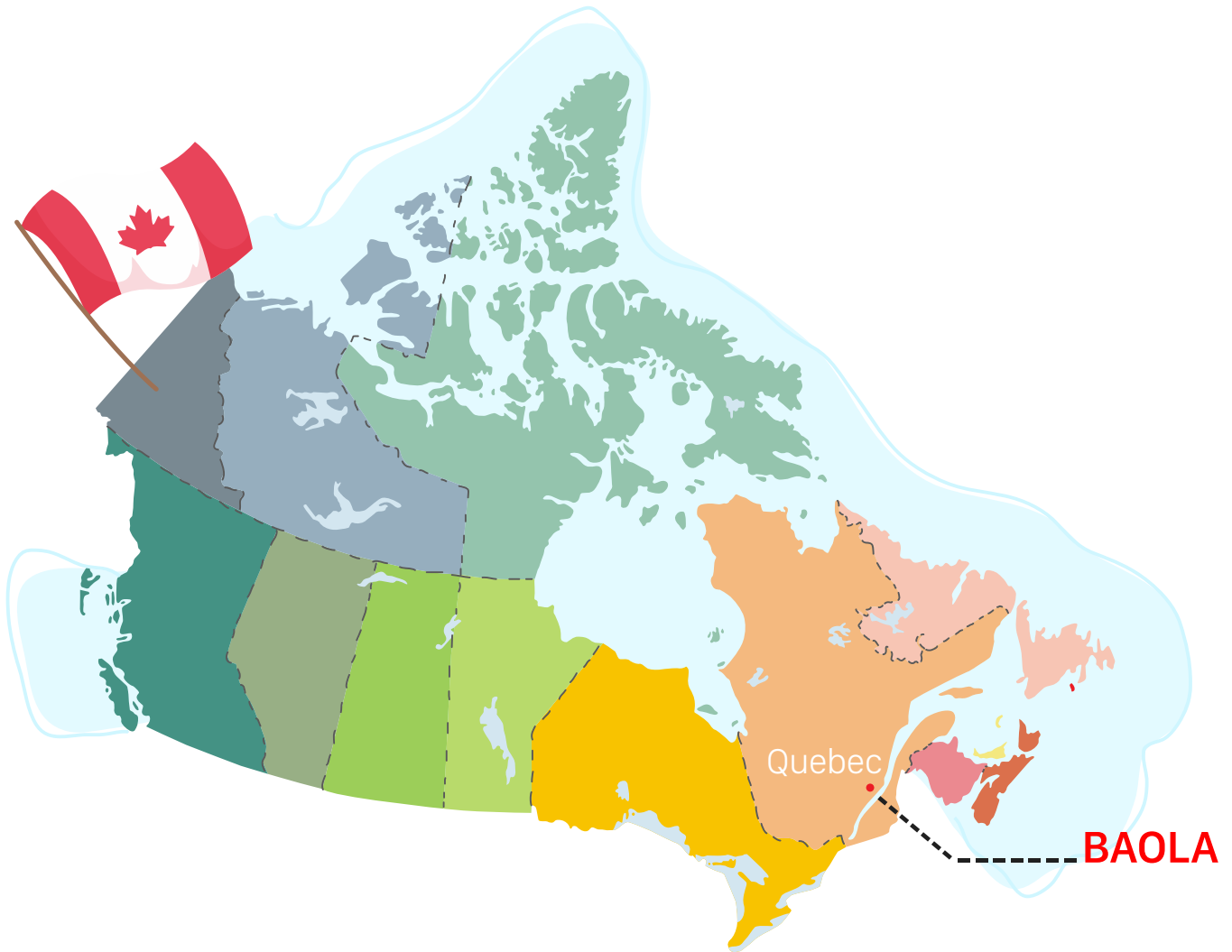




Catalogue
VAV BOX 2025





BAOLA PRODUCTION, PROMOTION & TECHNOLOGIES INC.,

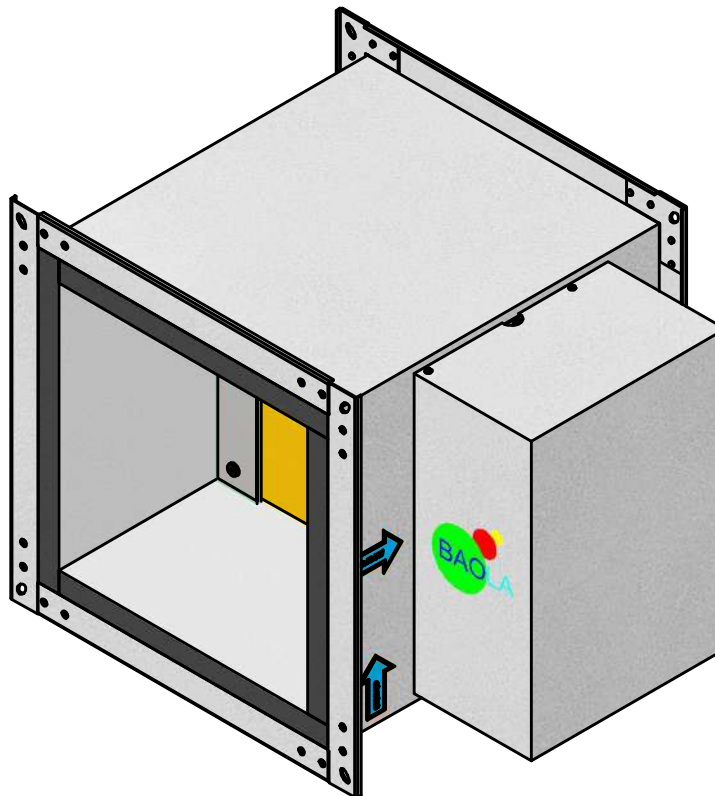
A Canadian tech company, specializes in researching and producing the world's best new technology for HVAC equipment. By leveraging the strong foundation of R&D, manufacturing, and technological application in electromechanical equipment.

BAOLA is committed to delivering cutting-edge solutions to both domestic and international markets.

The newly launched VAV, CAV BOX is a testament to our commitment to excellence. Building upon the success of our previous R&D endeavors, BAOLA's VAV, CAV BOX offers a unique and superior solution that addresses the limitations of existing VAV systems.

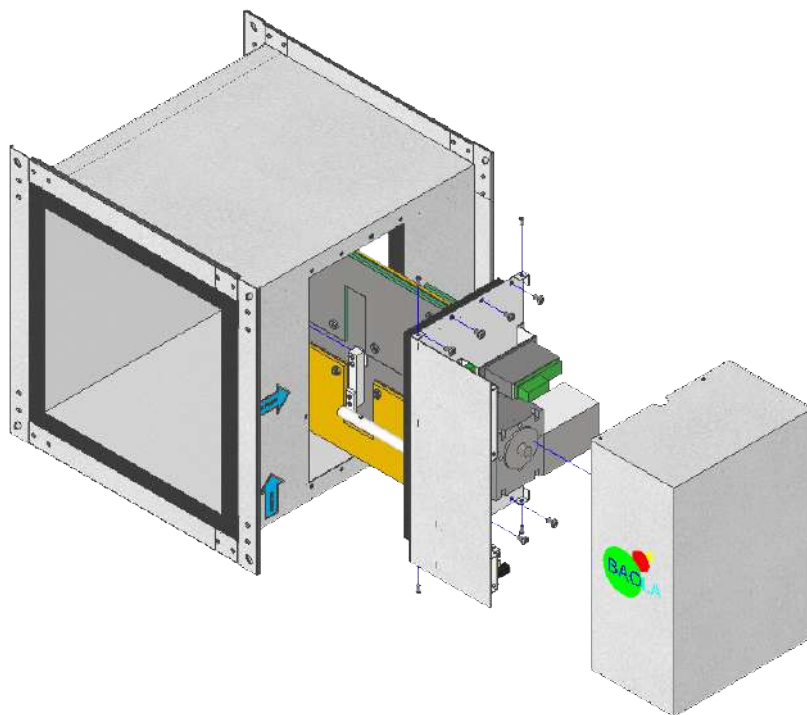
Our innovative VAV, CAV BOX features groundbreaking advancements in technology, setting it apart from competitors worldwide. Key improvements include:

- Exceptional performance in high turbulence conditions
- Unparalleled accuracy and sensor calibration capabilities
- Robust operation in harsh, dusty environments
- Ability to operate at extremely low flow rates, approaching zero
- An exceptionally wide operating flow range.



These advancements were made possible by completely reimagining VAV technology. Unlike traditional VAV, CAV systems that rely on dynamic pressure sensors to calculate flow rates, BAOLA has developed a novel sensor technology, advanced mechanical designs, and sophisticated simulation algorithms to precisely control airflow

New generation of BAOLA VAV, CAV BOX technology



BAOLA's VAV and CAV BOX, the latest innovation in airflow control technology.

- Cutting-edge sensor technology: BAOLA devices feature a novel sensor directly mounted at the location of damper shaft, significantly enhancing accuracy and enabling measurement of extremely low flow rates. This innovative approach eliminates the limitations of traditional pressure-based sensors.
- Advanced algorithms: BAOLA's proprietary algorithms provide precise airflow simulation under both laminar and turbulent flow conditions, optimizing system performance and expanding the operational flow range.
- BAOLA-engineered hardware and software: Our integrated hardware and software solutions ensure unparalleled control accuracy and reliability.
- User-friendly features: The VAV and CAV BOX offer self-calibration capabilities, diverse connectivity options (Wi-Fi, Modbus, Analog,...), and a user-friendly interface for easy operation and maintenance.
- New design: The unique design of the damper, sensor, and shaft guarantees precise control, safe operation, and easy maintenance.

WHAT'S NEW

ITEM - FUNCTION	BAOLA'S VAV CAV BOX	OTHER VAV CAV BOX
Different pressure sensor	Yes	Yes
Pressure independent	Yes	Yes
Air flow control	Yes	Yes
Air flow monitor	Yes	Yes
Operates in laminar flow conditions	Yes	Yes
Calibrate at the factory	Yes	Yes
Calibrate on site	Yes	No
Operates in dusty flow conditions	Yes	No
Operates in turbulent flow conditions (high flow)	Yes	No
Operates in extremely low flow conditions (approaching zero)	Yes	No
Pre-set the air density for air temperature change or other kind of air	Yes	No
Remote wireless air flow presetting via cell phone	Yes	

Large air volume

With advanced technology and a wide power range, the BAOLA VAV Box can easily adjust the airflow, optimally meeting different usage needs for each space. The HVAC system can maintain more precise room temperatures and create comfort for users. The BAOLA VAV Box is an ideal solution for zoning and adjusting the climate for areas with various sizes and purposes in buildings.



Apartment/ Building



Office



School

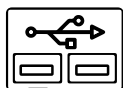


Hospital/ Factory

Multi Controller



BAOLA software and hardware



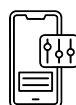
Modbus



LED monitor



Analog



Remote wireless flow-rate
presetting via cell phone

Material

Casing: 0.7 mm thickness galvanized steel

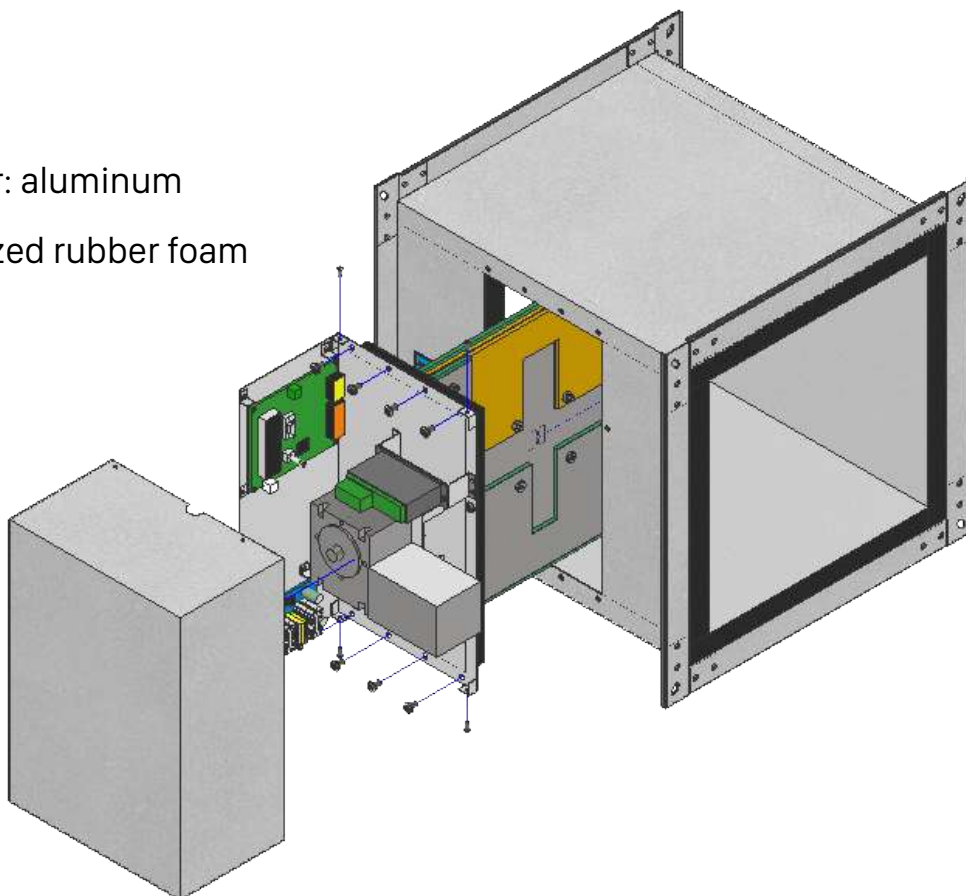
Damper blade: 7 layers

Bearing: steel

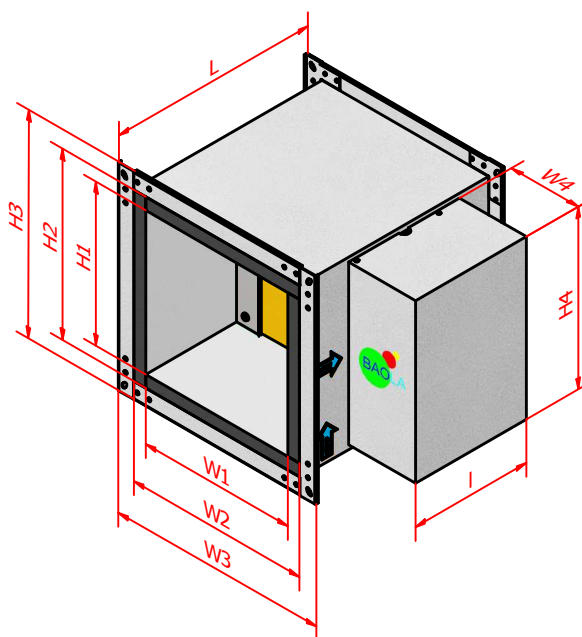
Shaft: mild steel

Differential pressure sensor: aluminum

Internal insulation: Vulcanized rubber foam



DIMENSION



No.	Model	Unit size (mm)									
		W1 (mm)	H1 (mm)	W2 (mm)	H2 (mm)	W3 (mm)	H3 (mm)	W4 (mm)	H4 (mm)	L (mm)	I (mm)
1	VRE0100-01-1RE1RE	100	100	150	150	214	214	140	132	200	
2	VRE0125-01-1RE1RE	125	125	175	175	239	239	140	157	225	
3	VRE0150-01-1RE1RE	150	150	200	200	264	264	140	182	250	
4	VRE0200-01-1RE1RE	200	200	250	250	314	314	140	232	300	232
5	VRE0250-01-1RE1RE	250	250	300	300	364	364	140	282	350	232
6	VRE0300-01-1RE1RE	300	300	350	350	414	414	140	332	400	232
7	VRE0350-01-1RE1RE	350	350	400	400	464	464	140	382	450	
8	VRE0400-01-1RE1RE	400	400	450	450	514	514	140	432	500	

Characteristics

No.	Model	Air volume range		
		Min (L/s, CFM)	Max (L/s)	Max (CFM)
1	VRE0100-01-1RE1RE	0	318	674
2	VRE0125-01-1RE1RE	0	495	1049
3	VRE0150-01-1RE1RE	0	636	1348
4	VRE0200-01-1RE1RE	0	1134	2403
5	VRE0250-01-1RE1RE	0	1911	4049
6	VRE0300-01-1RE1RE	0	2973	6299
7	VRE0350-01-1RE1RE	0	4530	9599
8	VRE0400-01-1RE1RE	0	5664	12001



A better feeling

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