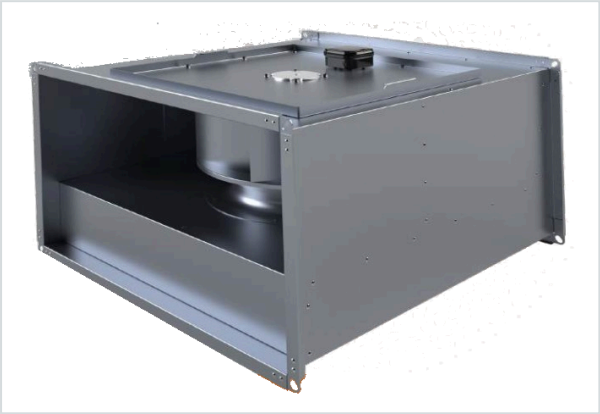
AYSU
HVAC SYSTEMS

FANS · TECHNICAL DATASHEET

Product code: **AYS-FAN-RC**

RECTANGULAR DUCT FAN



Radial duct fan for rectangular duct systems, offering high air efficiency, balanced pressure and quiet operation.

SUPPLY	230 V / 380 V
AIRFLOW	1,250 – 9,800 m³/h
MAX. PRESSURE	700 – 1,150 Pa
DUCT SIZE	400×200–1000×500

FEATURES

- Durable galvanized steel casing
- Easy maintenance via service panel
- Motor with thermal protection
- Single-phase and three-phase versions
- Speed-controllable motor
- Flanged connection to rectangular ducts
- Low maintenance, long service life
- Compatible with filters, silencers and flexible connectors

TECHNICAL SPECIFICATIONS

Casing material galvanized steel sheet	Impeller material galvanized, radial
Protection class IP 44	Insulation class F
Frequency 50 Hz	Operating temperature −20 / +50 °C
Sound level 66 – 78 dB(A)	Weight 12 – 90 kg

APPLICATIONS

Commercial buildings, restaurants, shopping centres, offices; supply and extract systems with rectangular ducts.

PRODUCT DATA

Model	Voltage V	Current A	Power W	Speed rpm	Max. airflow m³/h	Max. pressure Pa	Sound dB(A)	Weight kg
AYS-FAN-RC-400×200	230	0.78	180	2,675	1,250	700	73	12
AYS-FAN-RC-500×250	230	0.87	200	2,635	1,700	800	75	16
AYS-FAN-RC-600×300	230	0.60	140	1,440	1,950	850	66	30
AYS-FAN-RC-600×350	230	1.20	360	1,420	3,400	950	72	34
AYS-FAN-RC-700×400	230	2.20	690	1,435	4,900	1,050	78	48
AYS-FAN-RC-800×500	230	2.84	1,080	1,350	7,800	1,100	77	69
AYS-FAN-RC-1000×500	380	3.30	1,550	1,350	9,800	1,150	77	90

The model size is the duct connection size (E × F, mm). Max. airflow is given at free blowing (0 Pa).
AYS-FAN-RC-1000×500 is three-phase (380 V); all other models are single-phase (230 V).
Order code: AYS-FAN-[TYPE]-[SIZE], e.g. AYS-FAN-RC-600×300. Values are manufacturer data.

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HVAC SYSTEMS

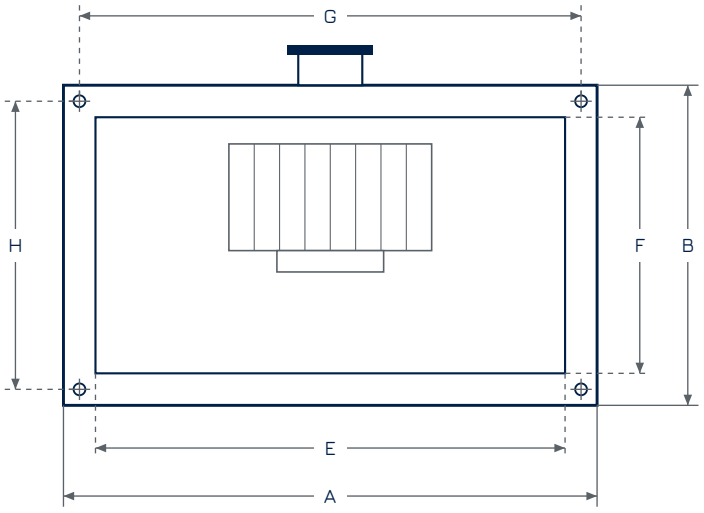
FANS · TECHNICAL DATASHEET

Product code: AYS-FAN-RC

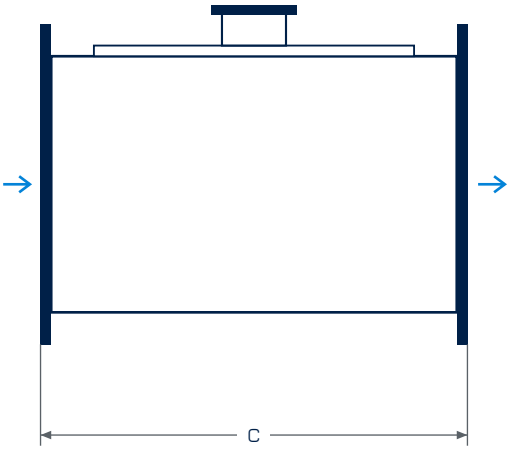
RECTANGULAR DUCT FAN

DIMENSIONS

Front and side view · dimensions in mm



FRONT VIEW



SIDE VIEW · airflow direction

DIMENSION TABLE

mm

Model	A	B	C	E	F	G	H
AYS-FAN-RC-400×200	450	250	500	400	200	425	225
AYS-FAN-RC-500×250	550	300	565	500	250	525	275
AYS-FAN-RC-600×300	650	350	750	600	300	625	325
AYS-FAN-RC-600×350	650	400	750	600	350	825	375
AYS-FAN-RC-700×400	750	450	800	700	400	725	425
AYS-FAN-RC-800×500	850	550	900	800	500	825	525
AYS-FAN-RC-1000×500	1,050	550	1,050	1,000	500	1,025	525

A × B: flange outer size · E × F: duct connection (inner) size · G × H: flange hole spacing · C: casing length.
Dimensions are manufacturer data; confirm against the project before installation.

AYSU
HVAC SYSTEMS

FANS · TECHNICAL DATASHEET

Product code: **AVS-FAN-RC**

RECTANGULAR DUCT FAN

PERFORMANCE TABLE

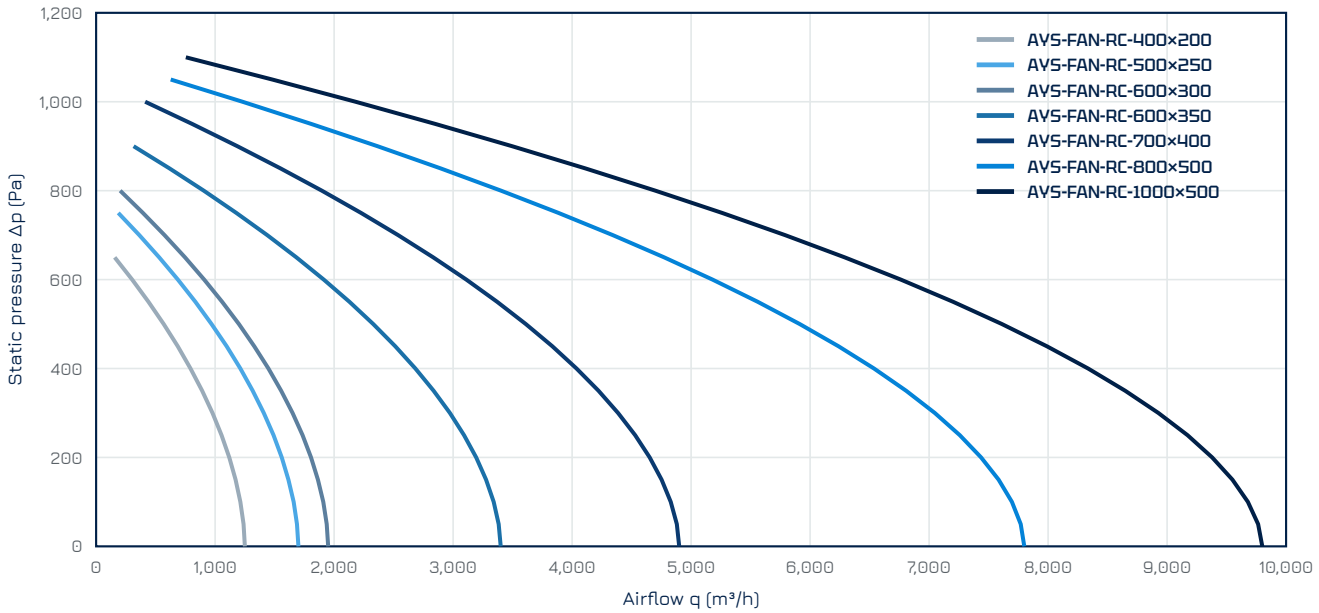
Airflow versus static pressure (m³/h)

Model / Pa	0	50	100	150	200	250	300	350	400	450	500	550
AVS-FAN-RC-400×200	1,250	1,239	1,212	1,172	1,119	1,054	978	891	793	686	568	440
AVS-FAN-RC-500×250	1,700	1,688	1,660	1,616	1,560	1,491	1,409	1,316	1,212	1,097	970	834
AVS-FAN-RC-600×300	1,950	1,938	1,909	1,864	1,806	1,735	1,651	1,555	1,448	1,329	1,200	1,059
AVS-FAN-RC-600×350	3,400	3,383	3,341	3,277	3,194	3,092	2,973	2,836	2,683	2,514	2,329	2,129
AVS-FAN-RC-700×400	4,900	4,880	4,829	4,752	4,652	4,530	4,386	4,222	4,037	3,834	3,611	3,370
AVS-FAN-RC-800×500	7,800	7,770	7,696	7,584	7,437	7,258	7,048	6,807	6,537	6,239	5,913	5,560
AVS-FAN-RC-1000×500	9,800	9,765	9,679	9,549	9,379	9,172	8,927	8,648	8,336	7,990	7,612	7,202

Model / Pa	600	650	700	750	800	850	900	950	1,000	1,050	1,100	1,150
AVS-FAN-RC-400×200	303	156	–	–	–	–	–	–	–	–	–	–
AVS-FAN-RC-500×250	687	530	363	186	–	–	–	–	–	–	–	–
AVS-FAN-RC-600×300	908	747	575	393	202	–	–	–	–	–	–	–
AVS-FAN-RC-600×350	1,913	1,683	1,438	1,178	905	617	315	–	–	–	–	–
AVS-FAN-RC-700×400	3,111	2,833	2,538	2,226	1,897	1,550	1,187	808	412	–	–	–
AVS-FAN-RC-800×500	5,180	4,774	4,342	3,885	3,403	2,896	2,365	1,809	1,230	627	–	–
AVS-FAN-RC-1000×500	6,762	6,291	5,790	5,260	4,700	4,112	3,496	2,852	2,180	1,480	754	–

FAN CURVES

Static pressure – airflow



Curves are plotted from the performance table points; the last point is each model's highest operating pressure.
The operating point is where the fan curve meets the system resistance curve. Values are manufacturer data.