CAIB/T PRO-REG in-line duct fans

Airtight cabinet
Internally lined with 50 mm thickness fibre glass insulation (non-flammable).

Easy to mount
4-fixing feet.

Electrical heaters
Stainless steel 304L

Integrated electronic controller
Integrated electronic controller mounted on the cabinet.

Application
Introduction of fresh air to commercial offices and industrial kitchens.

Construction
- acoustic cabinet fan in galvanised sheet steel with reinforced insulation by: double skin panels of 50mm. Rockwood insulated,
- density 40 kg/m^3. Thermal Conductivity 0,037 W/(m·K),
- fire rated A1 in accordance with EN 13 501-1 standard (non-flammable),
- 4 mounting feet,
- in-line duct connection with rectangular connectors,
- standard version equipped with M5 filters (ePM10 ≥75%) 96mm thickness,
- double filter version available, equipped with filters M5 and F7 filters (48 + 48 mm thickness),
- safety protection on the access cover for application where the cabinet fan is fixed into the ceiling,
- direct drive backward Plug-fan with integrated EC motor,
- Impeller in galvanized steel.

Range
- 4 models with airflows from 200 to 3500 m^3/h,
- operation with complete electronic control,

5 versions:
- electric heater (E),
- hot water coil (H3),
- reversible water coil (R3),
- hot water coil + cold water coil (H3 C4),
- cold water coil (C4).

Motors
- direct drive Plug fans with EC motor.
- single-phase or three-phase motor with thermal protection managed by electronics:
- CAIB/T PRO-REG 10/20: Single-phase 230V (200-277V), 50/60Hz, IP44, class B,
- CAIB/T PRO-REG 30: Single-phase 230V (200-277V), 50/60Hz, IP 54, class B,
- CAIT PRO-REG 40: Three-phase 400V (380-480V), 50/60Hz, IP 54, class B.

Control
- includes manual or automatic control in modes: variable air volume system (VAV), constant pressure (COP) or constant air volume (CAV), through CO_2 sensors or pressure (accessories),
- post-heating management controlled by the temperature probes in the unit,
- remote control included,
- integrable into Modbus RS485 and BacNet TCP / IP communication net,
- electric box in reinforced polycarbonate IP55.

VERSIONS FEATURES

Features of electric heater (E versions)

- 304L stainless steel element rods,
- safety thermostats: auto-reset thermostat at 55ºC / manual reset thermostat at 85°C,
- proportional regulation by included SSR.

Features of reversible and water coil (R3, H3 and H3 C4 versions)

- water coil, of 3 rows of cupper pipes with aluminium fins, mounted in a galvanized sheet frame,
- connection side on the left or right hand according to air flow sense (depending on the version),
- antifreeze protection by contact probe,
- 3 way valve (24V) with proportional actuator (0-10V),
- the valve is delivered with the unit (not mounted).

Features of cold water coil (C4 and H3 C4 versions)

- water coil, of 4 rows of cupper pipes with aluminium fins, mounted in a galvanized sheet frame,
- connection side on the left or right hand according to air flow sense (Depending on the version),
- drain tray in stainless steel, and droplet separator,
- 3 way valve (24V) with proportional actuator (0-10V),
- the valve is delivered with the unit (not mounted).

Other characteristics

- they can be installed both indoors and outdoors,
- temperature range of treated air from -25°C up to + 40°C,
- models with water coil include the supply of the corresponding regulating valves (1 per coil).

ELECTRICAL CHARACTERISTICS

Before installation check that the product electrical characteristics listed on the data plate label (voltage, power, frequency, etc.) match those of the intended electrical supply.

Units with electric battery (E6 to E30)	Complete unit			Fan			Electric heater			
	power supply (50Hz)	total power	absorbed current max	speed	absorbed power max	absorbed current max	number of stages	stage power	total heating power	absorbed current max
CAIB-10 E6 PRO-REG	1/230 V	7 kW	29 A	2649 rpm	193 W	1,5 A	2	3 kW	6 kW	26,1 A
CAIT-10 E9 PRO-REG	3+N/400 V	10 kW	15 A	2649 rpm	193 W	1,5 A	3	3 kW	9 kW	13 A
CAIT-20 E9 PRO-REG	3+N/400 V	10 kW	16 A	2850 rpm	415 W	1,8 A	3	3 kW	9 kW	13 A
CAIT-20 E15 PRO-REG	3+N/400 V	16 kW	25 A	2850 rpm	415 W	1,8 A	3	5 kW	15 kW	21,7 A
CAIT-30 E9 PRO-REG	3+N/400 V	10 kW	17 A	2800 rpm	715 W	3,1 A	3	3 kW	9 kW	13 A
CAIT-30 E15 PRO-REG	3+N/400 V	17 kW	26 A	2800 rpm	715 W	3,1 A	3	5 kW	15 kW	21,7 A
CAIT-30 E24 PRO-REG	3+N/400 V	26 kW	40 A	2800 rpm	715 W	3,1 A	3	3+5 kW	24 kW	34,6 A
CAIT-40 E15 PRO-REG	3+N/400 V	17 kW	24 A	2580 rpm	1000 W	1,63 A	3	5 kW	15 kW	21,7 A
CAIT-40 E30 PRO-REG	3+N/400 V	33 kW	47 A	2580 rpm	1000 W	1,63 A	6	5 kW	30 kW	43,3 A

Units with heating coil H3	Complete unit			Fan		
	power supply (50Hz)	total power	absorbed current max	speed	absorbed power max	absorbed current max
CAIB-10 H3 PRO-REG	1/230 V	0,2 kW	2 A	2649 rpm	193 W	1,5 A
CAIB-20 H3 PRO-REG	1/230 V	0,4 kW	2 A	2850 rpm	415 W	1,8 A
CAIB-30 H3 PRO-REG	1/230 V	1 kW	3 A	2800 rpm	715 W	3,1 A
CAIT-40 H3 PRO-REG	3+N/400 V	1 kW	2 A	2580 rpm	1000 W	1,63 A

Units with cooling coil C4	Complete unit			Fan		
	power supply (50Hz)	total power	absorbed current max	speed	absorbed power max	absorbed current max
CAIB-10 C4 PRO-REG	1/230 V	0,2 kW	2 A	2649 rpm	193 W	1,5 A
CAIB-20 C4 PRO-REG	1/230 V	0,4 kW	2 A	2850 rpm	415 W	1,8 A
CAIB-30 C4 PRO-REG	1/230 V	1 kW	3 A	2800 rpm	715 W	3,1 A
CAIT-40 C4 PRO-REG	3+N/400 V	1 kW	2 A	2580 rpm	1000 W	1,63 A

Units with reversible coil R3	Complete unit			Fan		
	power supply (50Hz)	total power	absorbed current max	speed	absorbed power max	absorbed current max
CAIB-10 R3 PRO-REG	1/230 V	0,2 kW	2 A	2649 rpm	193 W	1,5 A
CAIB-20 R3 PRO-REG	1/230 V	0,4 kW	2 A	2850 rpm	415 W	1,8 A
CAIB-30 R3 PRO-REG	1/230 V	1 kW	3 A	2800 rpm	715 W	3,1 A
CAIT-40 R3 PRO-REG	3+N/400 V	1 kW	2 A	2580 rpm	1000 W	1,63 A

Units with heating and cooling coil H3 C4	Complete unit			Fan		
	power supply (50Hz)	total power	absorbed current max	speed	absorbed power max	absorbed current max
CAIB-10 H3 C4 PRO-REG	1/230 V	0,2 kW	2 A	2649 rpm	193 W	1,5 A
CAIB-20 H3 C4 PRO-REG	1/230 V	0,4 kW	2 A	2850 rpm	415 W	1,8 A
CAIB-30 H3 C4 PRO-REG	1/230 V	1 kW	3 A	2800 rpm	715 W	3,1 A
CAIT-40 H3 C4 PRO-REG	3+N/400 V	1 kW	2 A	2580 rpm	1000 W	1,63 A

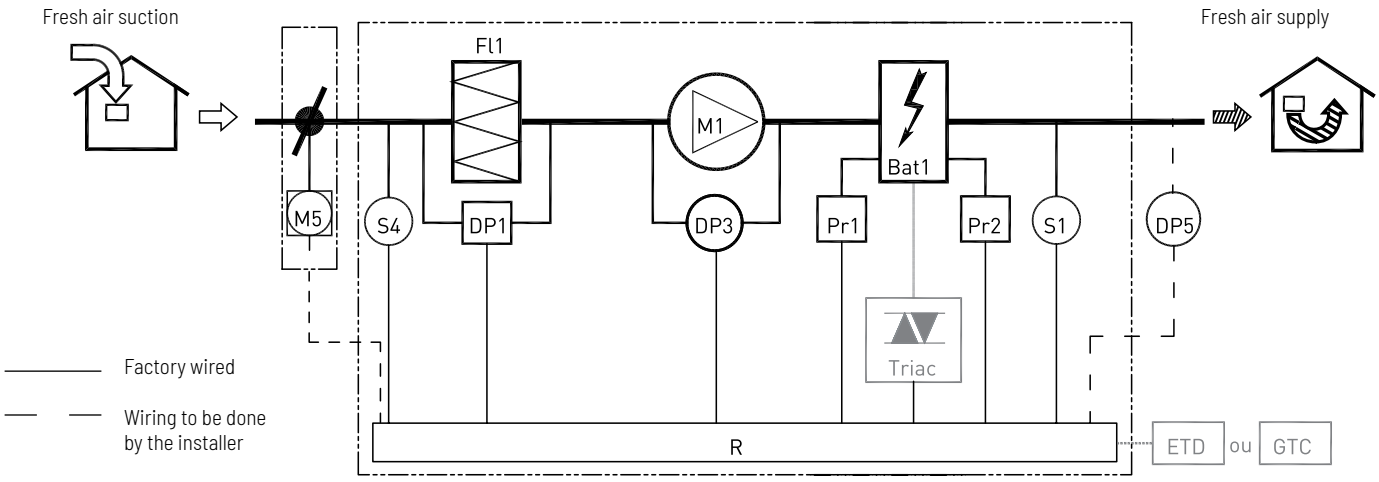
TECHNICAL CHARACTERISTICS

	E6...E30 electric battery	H3 hot water coil	C4 cold water coil	R3 reversible water coil	H3 C4 hot and cold water coils
MAIN ELEMENTS					
Control Panel includes:					
General proximity switch over the electrical box	•	•	•	•	•
Terminal connexion and regulator inside the electrical box	•	•	•	•	•
FUNCTIONALITIES					
Airflow adjustments:					
Constant or fixed airflow (CAV mode), up to 2 different airflow configurations	•	•	•	•	•
Adjustable airflow according to 0-10V external signal or via remote control	•	•	•	•	•
Airflow management depending on time schedules (clock)	•	•	•	•	•
BOOST function via external contact	•	•	•	•	•
STOP function via external contact	•	•	•	•	•
Temperature regulation:					
Temperature probe:					
Fresh air temperature probe	•	•	•	•	•
Supply air temperature probe	•	•	•	•	•
Water temperature probe installed on the coil		•	•	•	•
CHANGE OVER thermostat to be installed on the water supply coil				•	
Fresh air damper servomotor management (optional) **Battery regulation:**	•	•	•	•	•
Fresh air temperature probe TG/K3 PT1000	•	•	•	•	•
Supply temperature probe TG/K3 PT1000	•	•	•	•	•
Adjustments of internal electric batteries: Proportional regulation of the post-heating electrical battery power	•				
Regulation of internal water coil (or coils) 3V motorised damper- 0-10V proportional provided without mounting		•	•	•	•
Power adjustment by activating 3-way-damper		•	•	•	•
Room temperature probe TG-A1 PT1000		o	o	o	o
Defrost temperature probe PT1000		•	•	•	•
SECURITY FUNCTIONS					
Cloged filters signal	•	•	•	•	•
Failure on the temperature probe	•	•	•	•	•
Fan failure	•	•	•	•	•
The setpoint cannot be achieved (airflow, pressure, temperature)	•	•	•	•	•
Fire alarm via contact related to a external fire detection system	•	•	•	•	•
Alarm of communication between the controller and the remote control	•	•	•	•	•
Frost risk control on the water coil (opening of the damper, fan stops when water temperature decreases below 7° in heating mode)		•		•	•
Alarm history	•	•	•	•	•
COMMUNICATION					
Remote hand terminal	•	•	•	•	•
Adjustment communications:					
MODBUS RTU standard (RS485)	•	•	•	•	•
BACNET in TCP/IP port	•	•	•	•	•
Webserver application in TCP/IP port	•	•	•	•	•

• - included
o - optional

CONTROL - SYNOPTHIC ELECTRICAL REGULATION

CAIB PRO-REG with electric coil

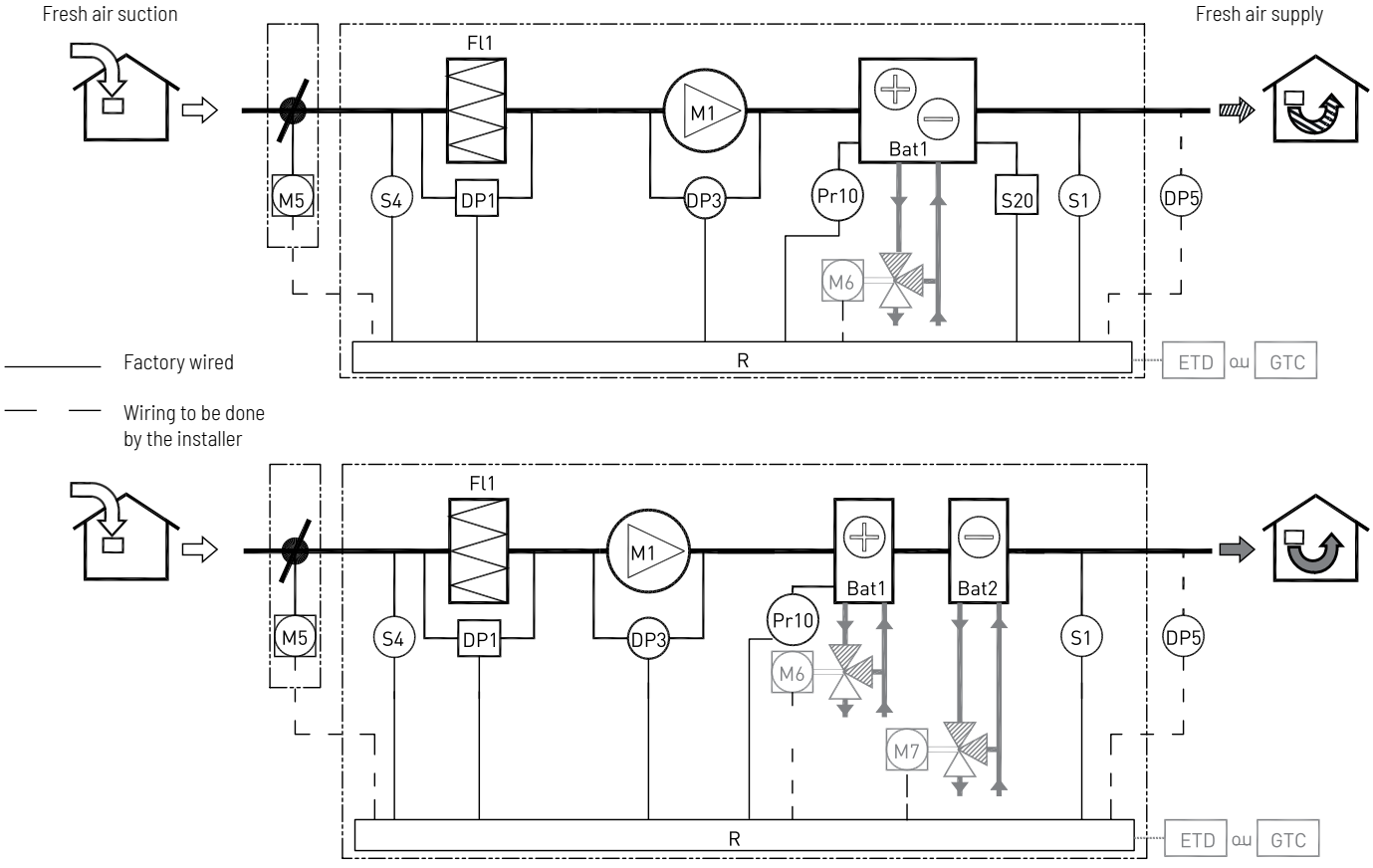


S1 Supply temperature probe
S4 Fresh air temperature probe
R Controller
Pr1/2 Safety thermostat (man/auto)
M1 EC-fan

M5 Isolation damper (accessory)
Fl1 Fresh air filter
DP1 Filter cloging detector
DP3 Airflow sensor

DP5 Pressure sensor (mode COP accessory)
Bat1 Electric battery
Triac Electric battery regulator
ETD Remote hand terminal

CAIB PRO-REG with water coil



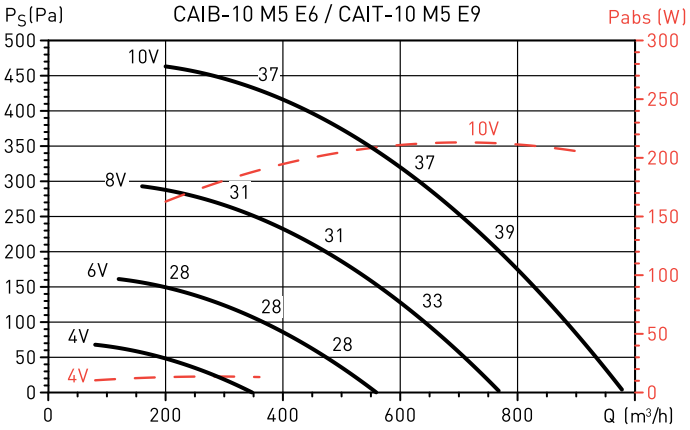
S1 Supply temperature probe
S4 Fresh air temperature probe
R Controller
Pr10 Water coil defrost
S20 Change-over thermostat
M1 EC-fan

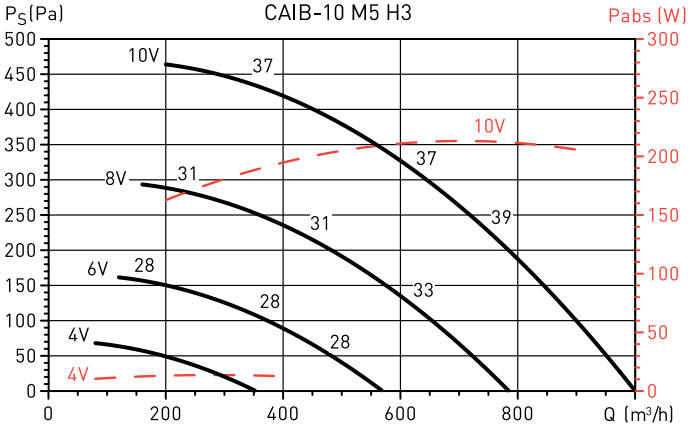
M5 Isolation damper (accessory)
M6 Water valve with actuator
M7 Water valve with actuator
Fl1 Fresh air filter
DP1 Filter cloging detector
DP3 Aiflow sensor

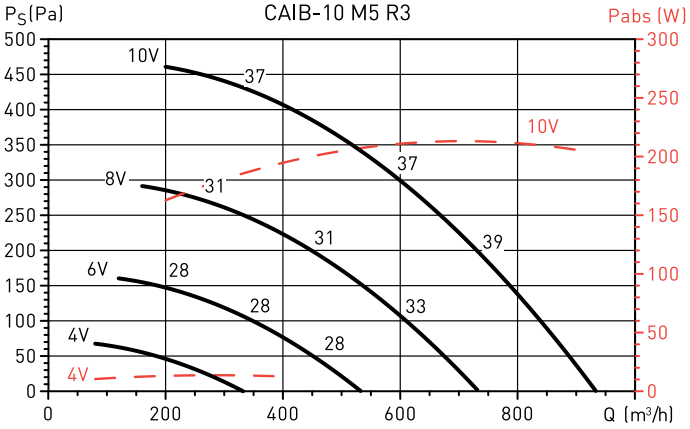
DP5 Pressure sensor (mode COP accessory)
Bat1 Reversible water coil / hot water
Bat2 Cold water coil
ETD Remote hand terminal

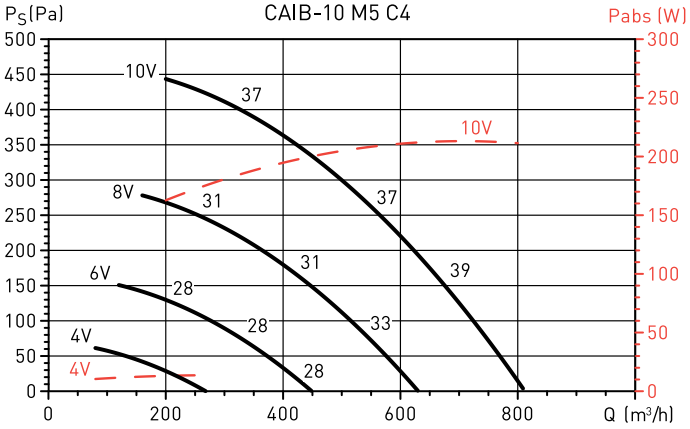
PERFORMANCE CURVES - VERSIONS WITH SINGLE M5 FILTER (96mm)

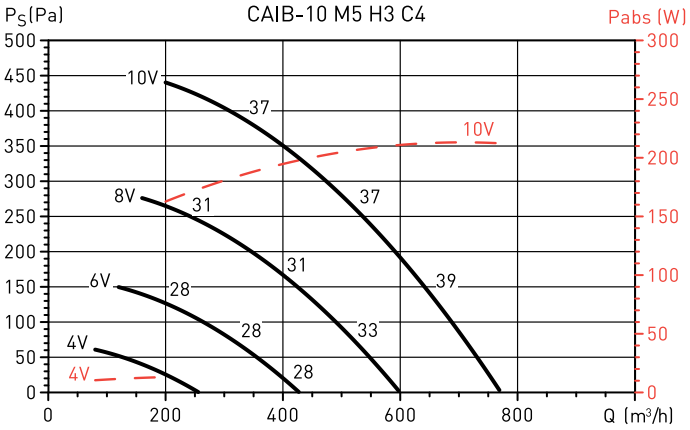
Q: Air volume in m^3/h,
P_s: Total pressure in Pa,
Dry air at 20°C and 760 mmHg,
Performance data in accordance with ISO 5801 and AMCA 210-99 Standards,
Break out pressure sound level in hemispherical free field, measured at 4 m, with outlet ducted Lp in dB (A).











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P_s: Total pressure in Pa,
Dry air at 20°C and 760 mmHg,
Performance data in accordance with ISO 5801 and AMCA 210-99 Standards,
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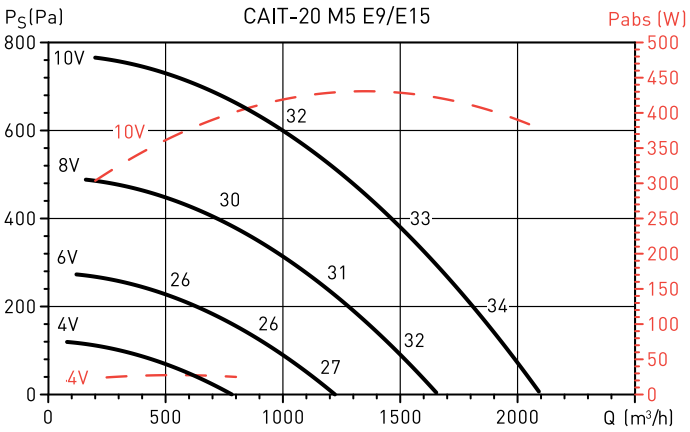
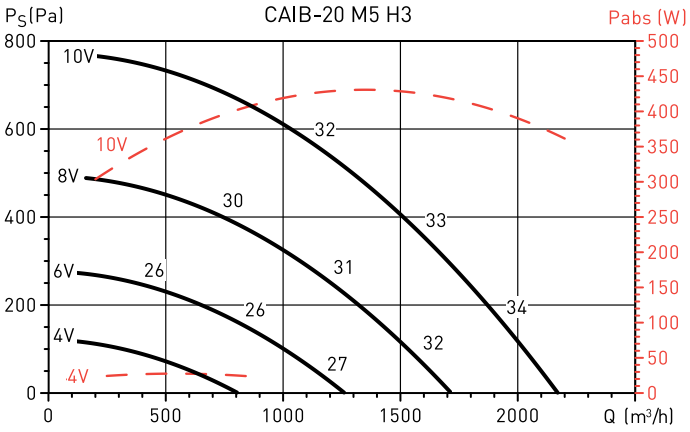
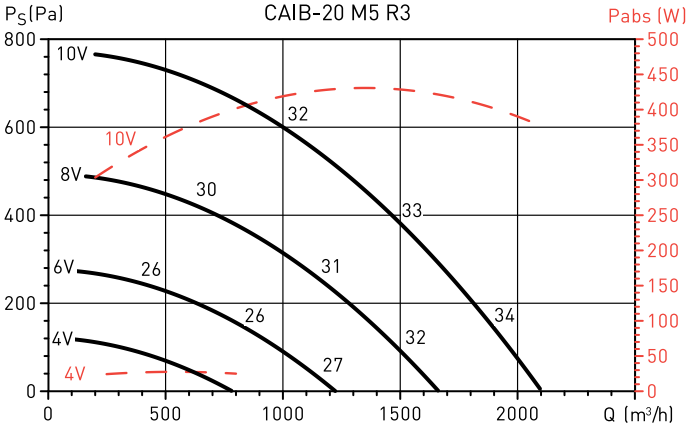
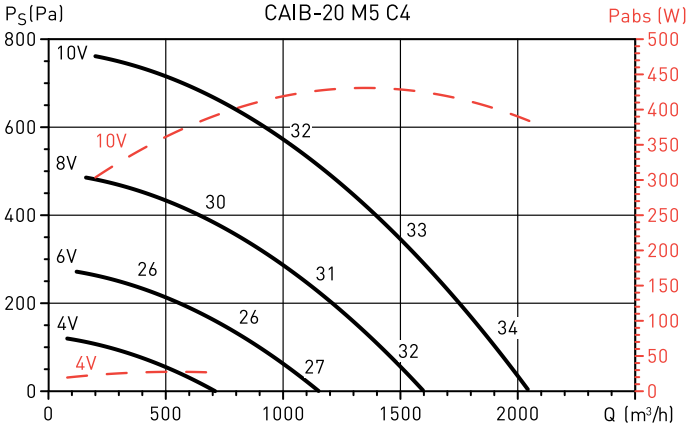
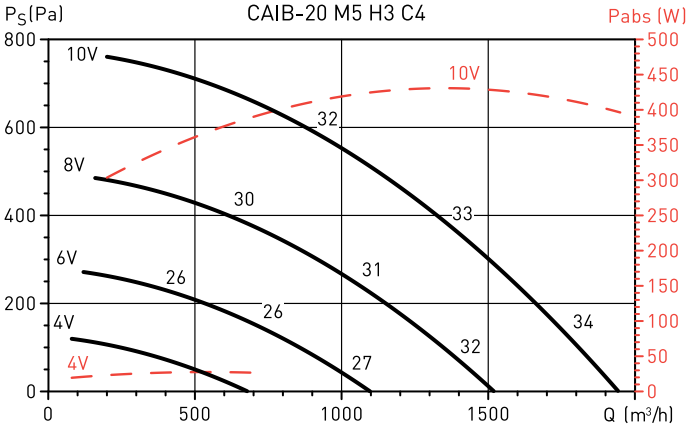




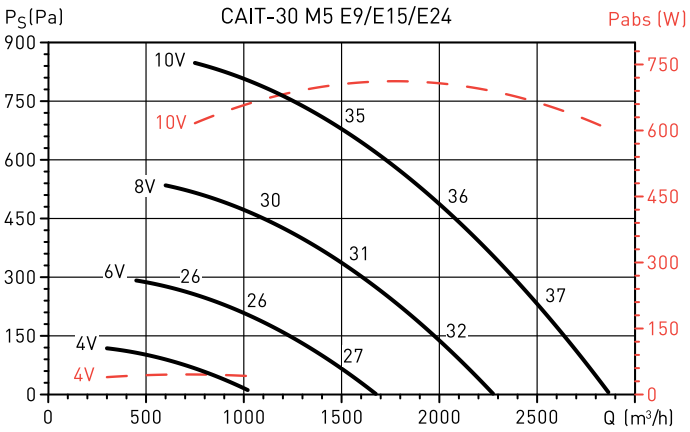


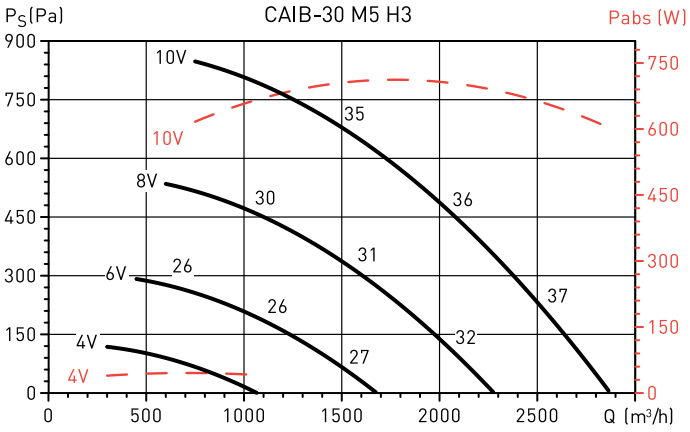


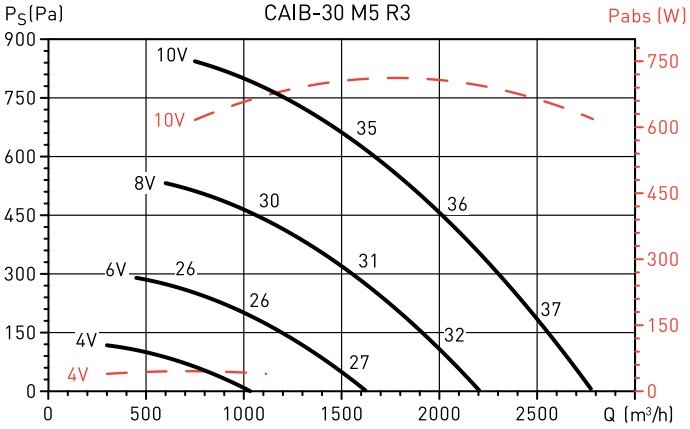


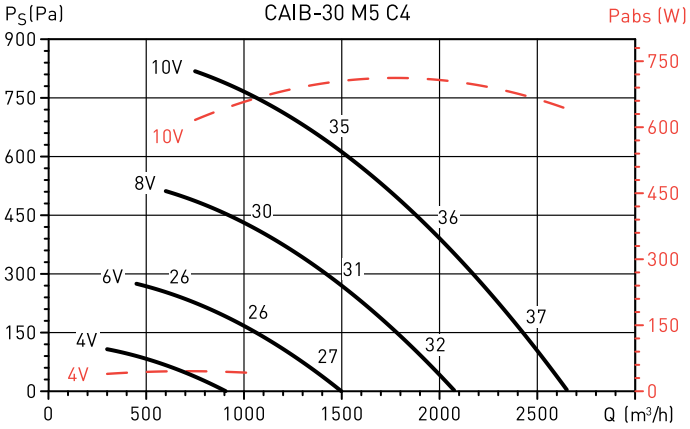
PERFORMANCE CURVES - VERSIONS WITH SINGLE M5 FILTER (96mm)

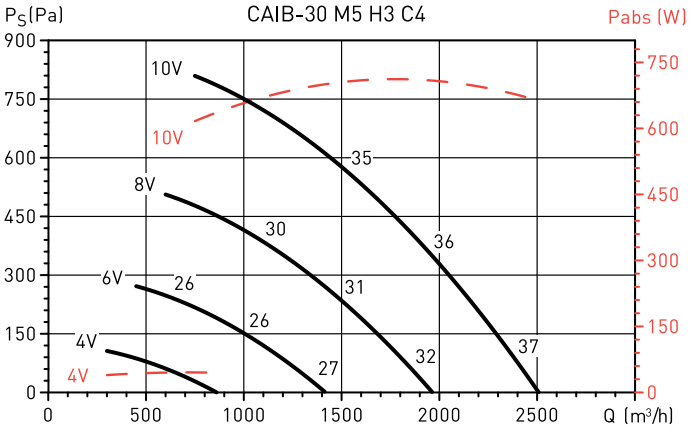
Q: Air volume in m^3/h,
P_S: Total pressure in Pa,
Dry air at 20°C and 760 mmHg,
Performance data in accordance with ISO 5801 and AMCA 210-99 Standards,
Break out pressure sound level in hemispherical free field, measured at 4 m, with outlet ducted Lp in dB (A).





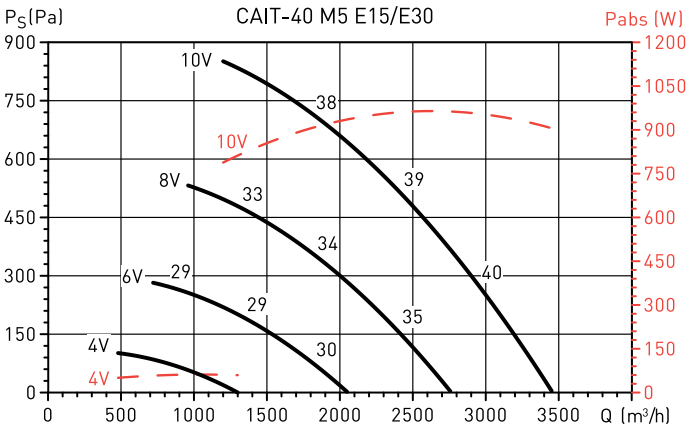


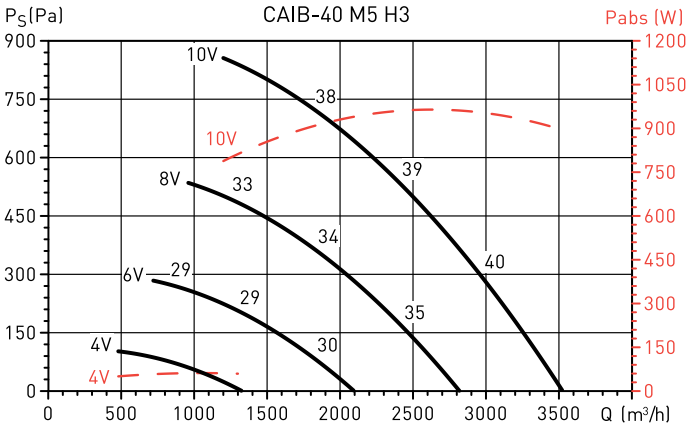


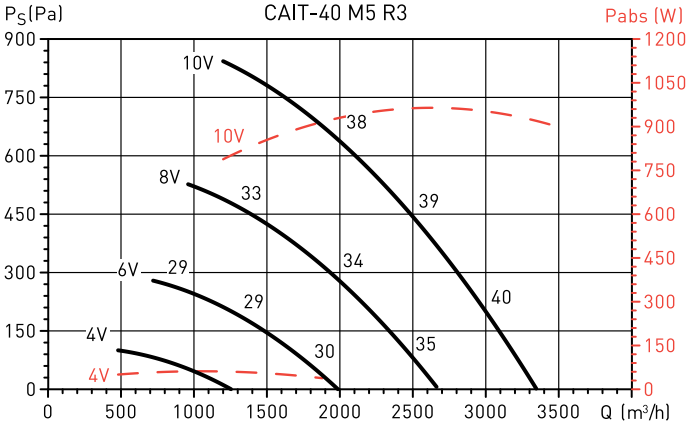


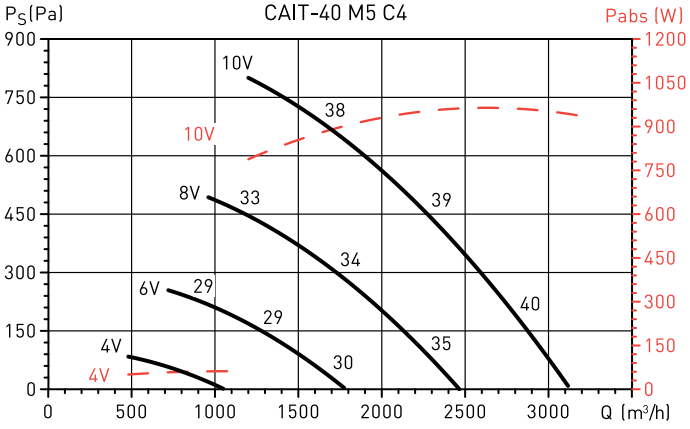
PERFORMANCE CURVES - VERSIONS WITH SINGLE M5 FILTER (96mm)

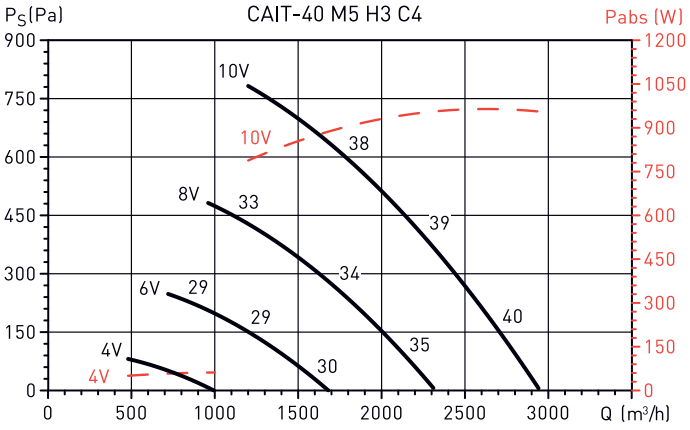
Q: Air volume in m^3/h,
P_S: Total pressure in Pa,
Dry air at 20°C and 760 mmHg,
Performance data in accordance with ISO 5801 and AMCA 210-99 Standards,
Break out pressure sound level in hemispherical free field, measured at 4 m, with outlet ducted Lp in dB (A).





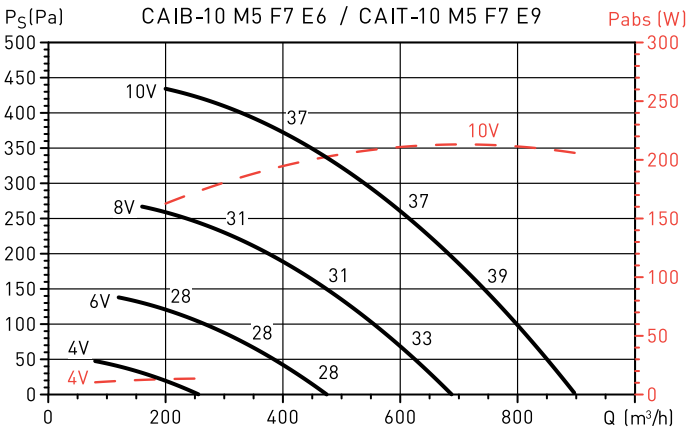


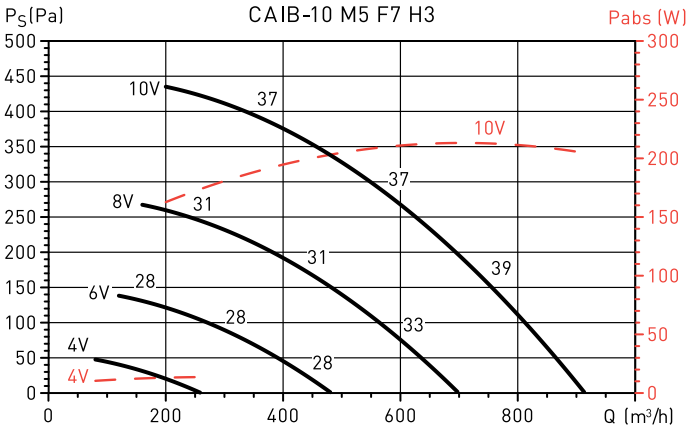


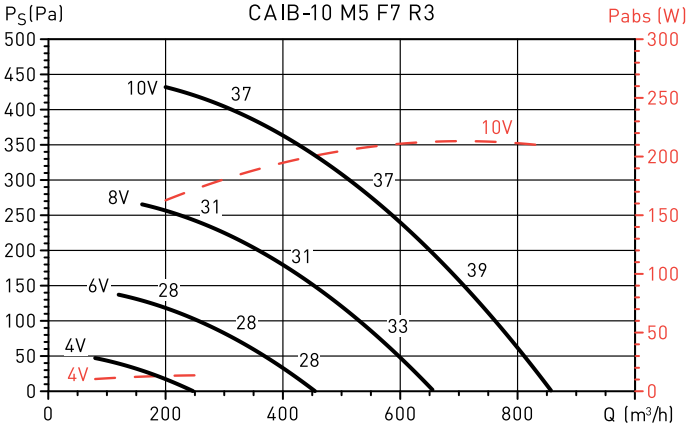


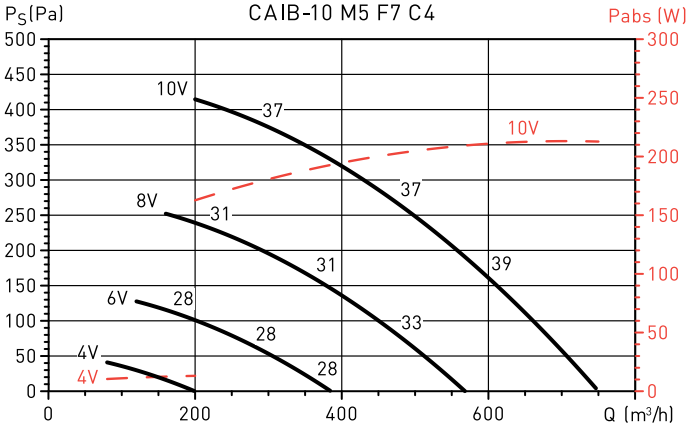
PERFORMANCE CURVES - VERSIONS WITH DOUBLE FILTER M5+F7 (48+48mm)

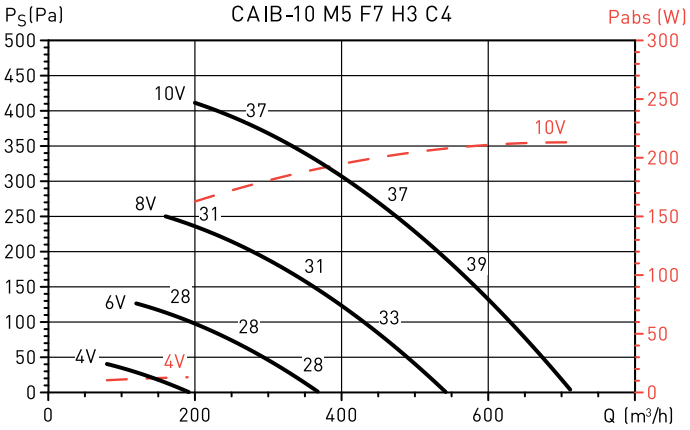
Q: Air volume in m^3/h,
P_S: Total pressure in Pa,
Dry air at 20°C and 760 mmHg,
Performance data in accordance with ISO 5801 and AMCA 210-99 Standards,
Break out pressure sound level in hemispherical free field, measured at 4 m, with outlet ducted Lp in dB (A).





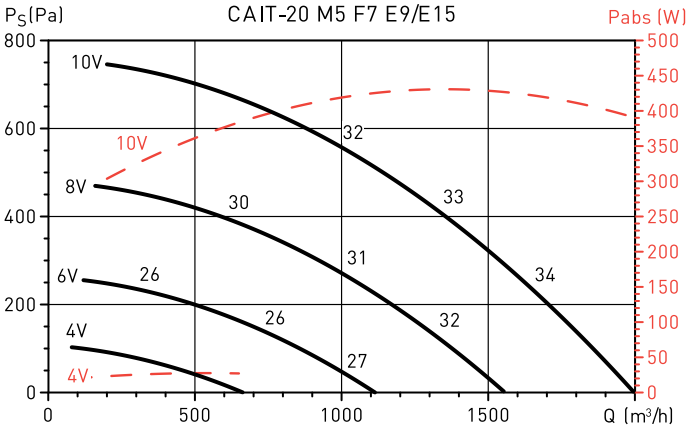


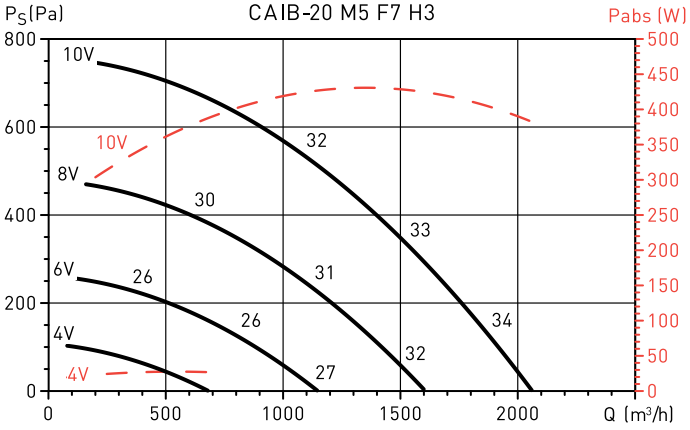


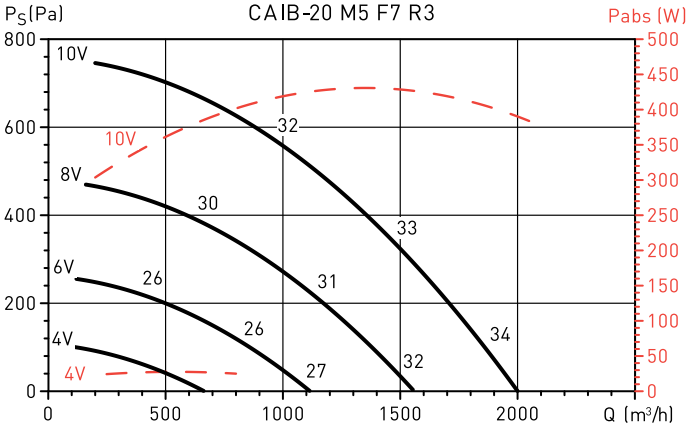


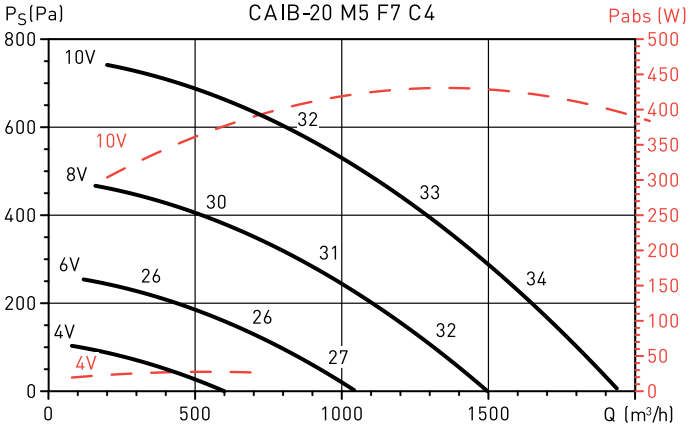
PERFORMANCE CURVES - VERSIONS WITH DOUBLE FILTER M5+F7 (48+48mm)

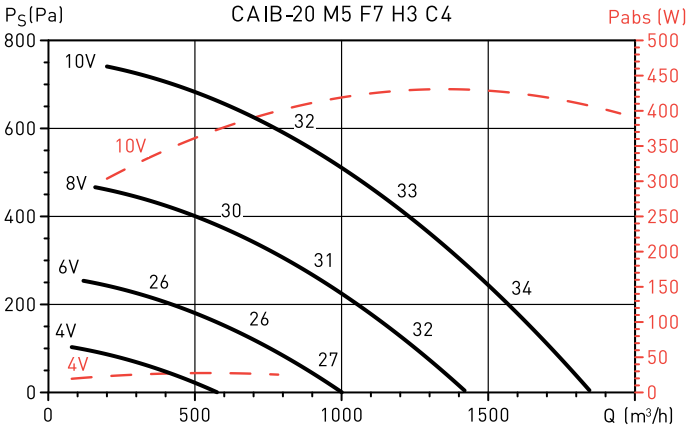
Q: Air volume in m^3/h,
P_s: Total pressure in Pa,
Dry air at 20°C and 760 mmHg,
Performance data in accordance with ISO 5801 and AMCA 210-99 Standards,
Break out pressure sound level in hemispherical free field, measured at 4 m, with outlet ducted Lp in dB (A).





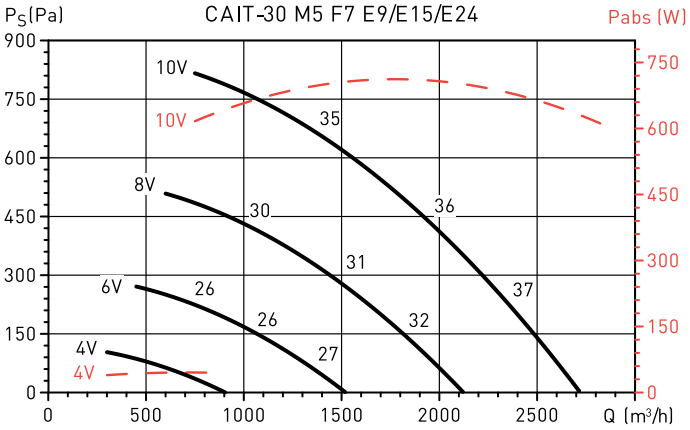


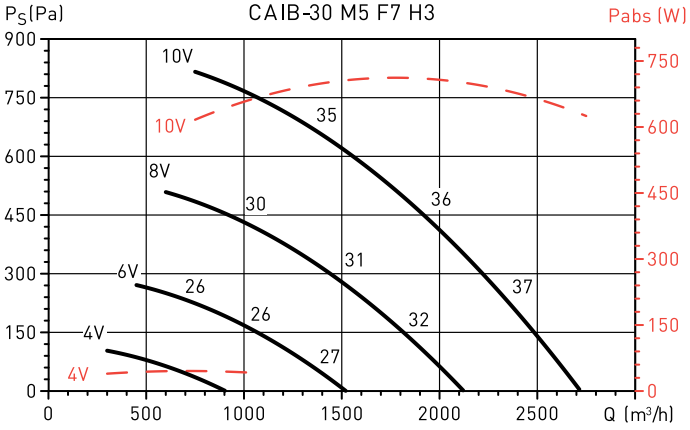


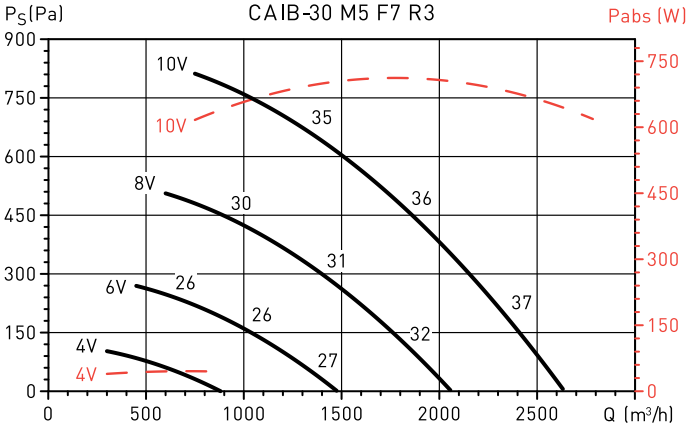


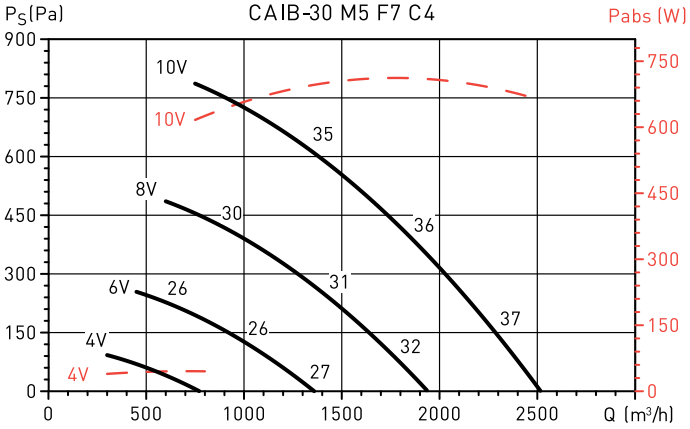
PERFORMANCE CURVES - VERSIONS WITH DOUBLE FILTER M5+F7 (48+48mm)

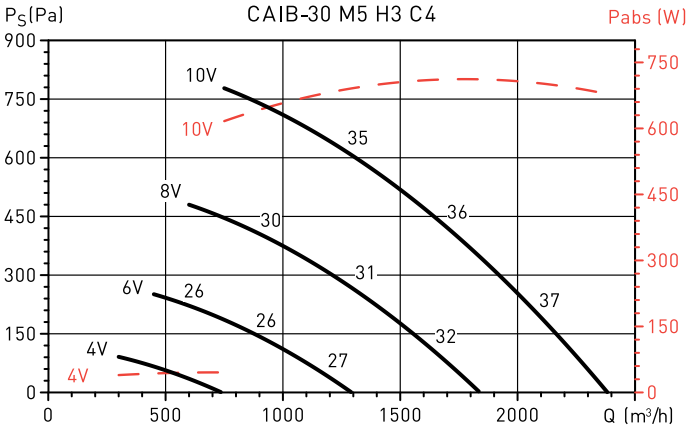
Q: Air volume in m^3/h,
P_S: Total pressure in Pa,
Dry air at 20°C and 760 mmHg,
Performance data in accordance with ISO 5801 and AMCA 210-99 Standards,
Break out pressure sound level in hemispherical free field, measured at 4 m, with outlet ducted Lp in dB (A).





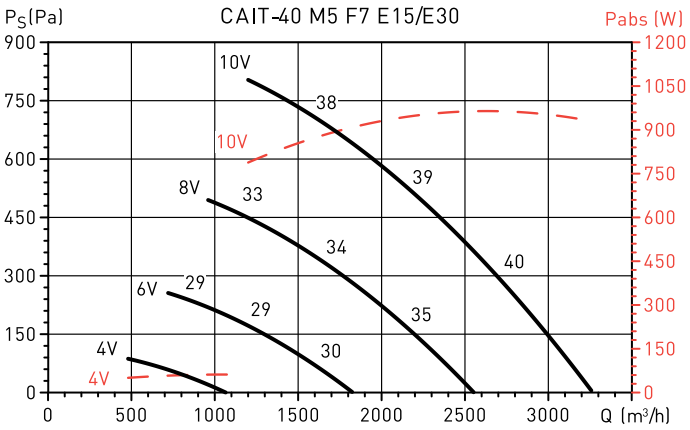


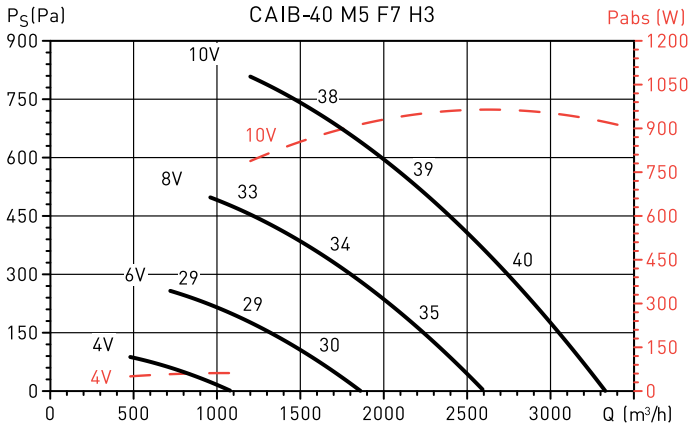


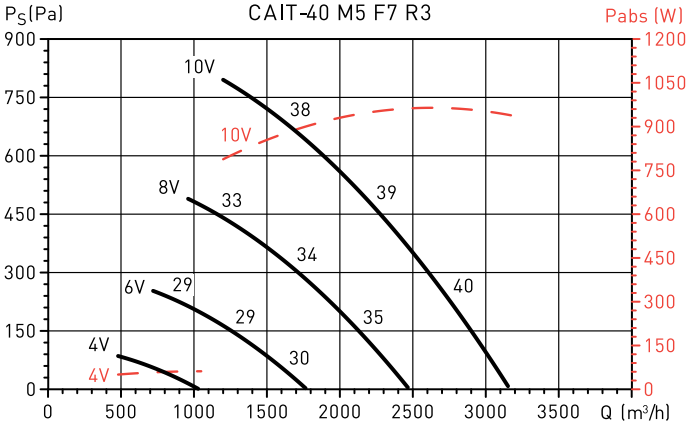


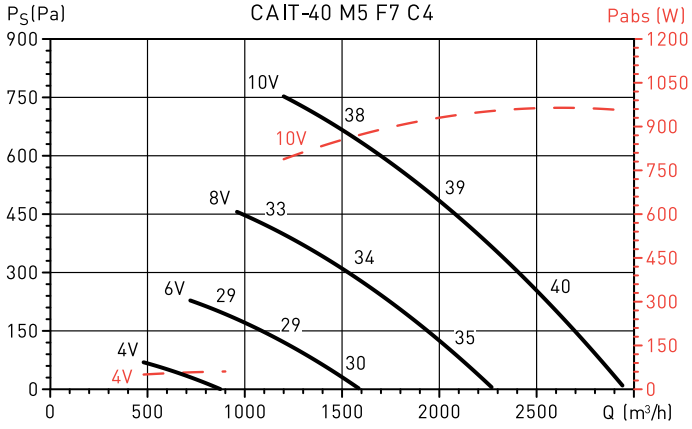
PERFORMANCE CURVES - VERSIONS WITH DOUBLE FILTER M5+F7 (48+48mm)

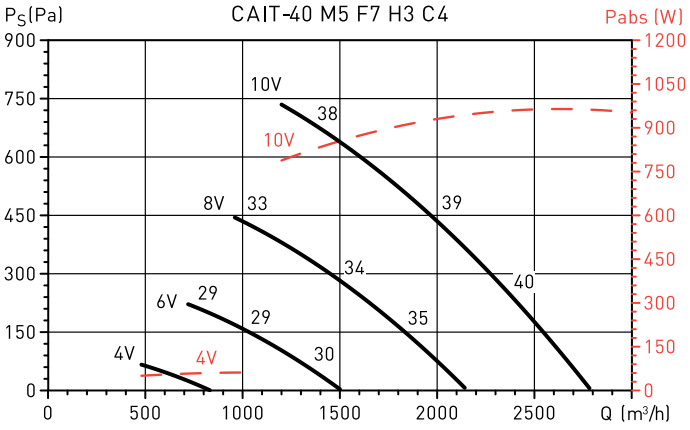
Q: Air volume in m^3/h,
P_S: Total pressure in Pa,
Dry air at 20°C and 760 mmHg,
Performance data in accordance with ISO 5801 and AMCA 210-99 Standards,
Break out pressure sound level in hemispherical free field, measured at 4 m, with outlet ducted Lp in dB (A).





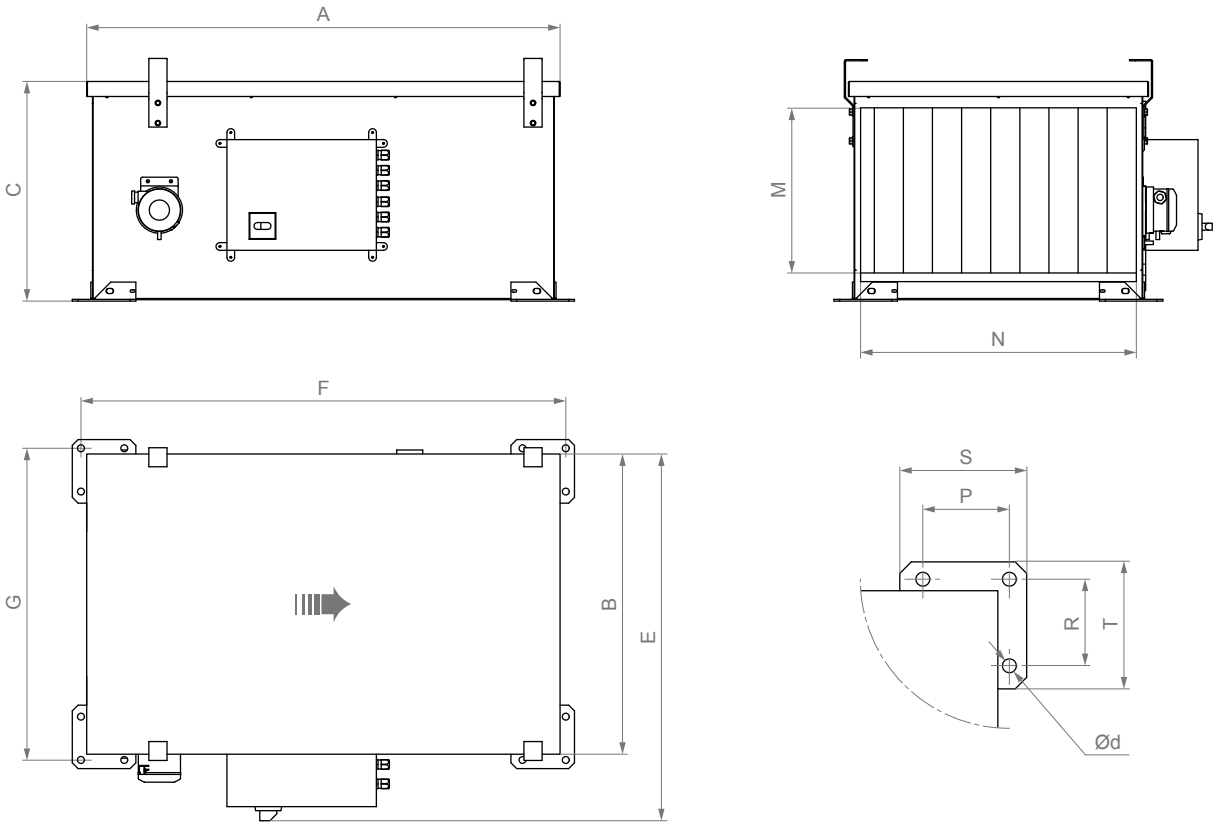






DIMENSIONS

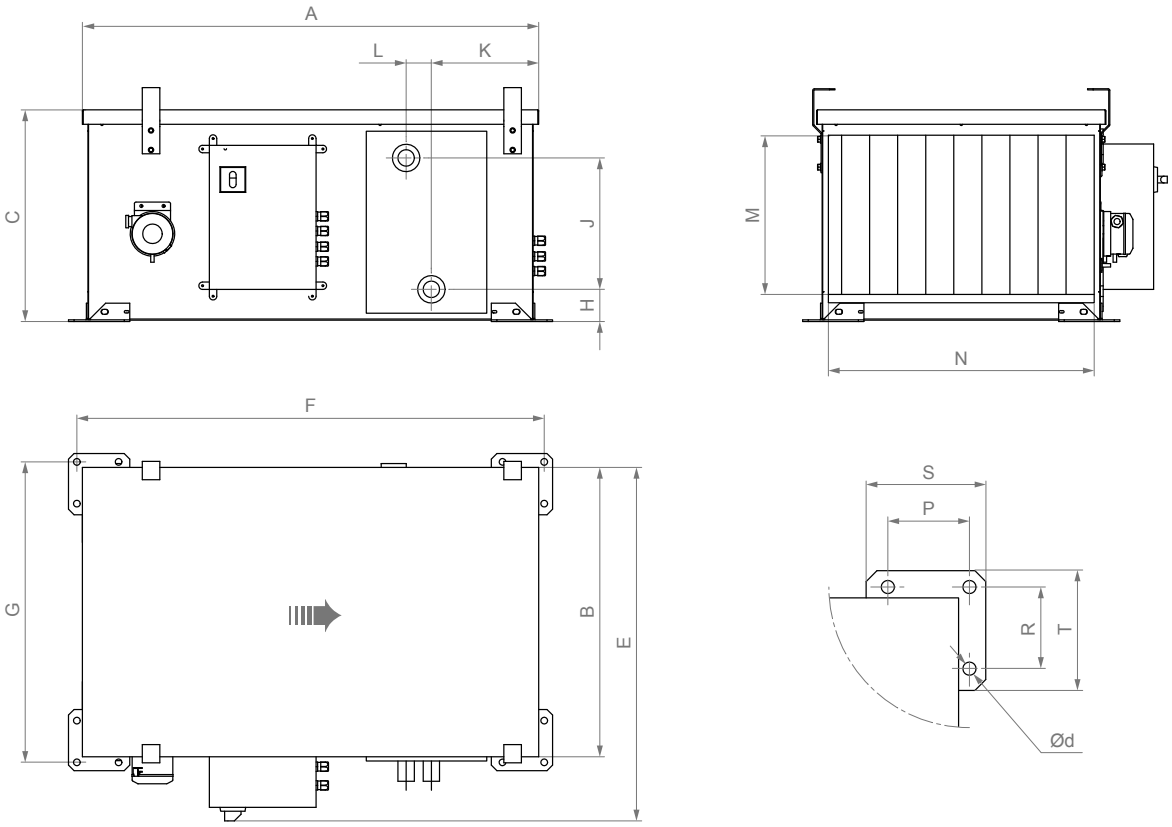
Version with electric heater (**E6..E30**)



type	A mm	B mm	C mm	E mm	F mm	G mm	M mm	N mm	P mm	R mm	S mm	T mm	Ød mm	weight kg
CAIB/T-10	819	520	385	720	840	540	266	396	75	75	110	110	12	55
CAIB/T-20	1119	670	615	870	1140	690	495	546	75	75	110	110	12	99
CAIB/T-30	1119	670	615	870	1140	690	495	546	75	75	110	110	12	103
CAIB/T-40	1119	670	615	870	1140	690	495	546	75	75	110	110	12	112

DIMENSIONS

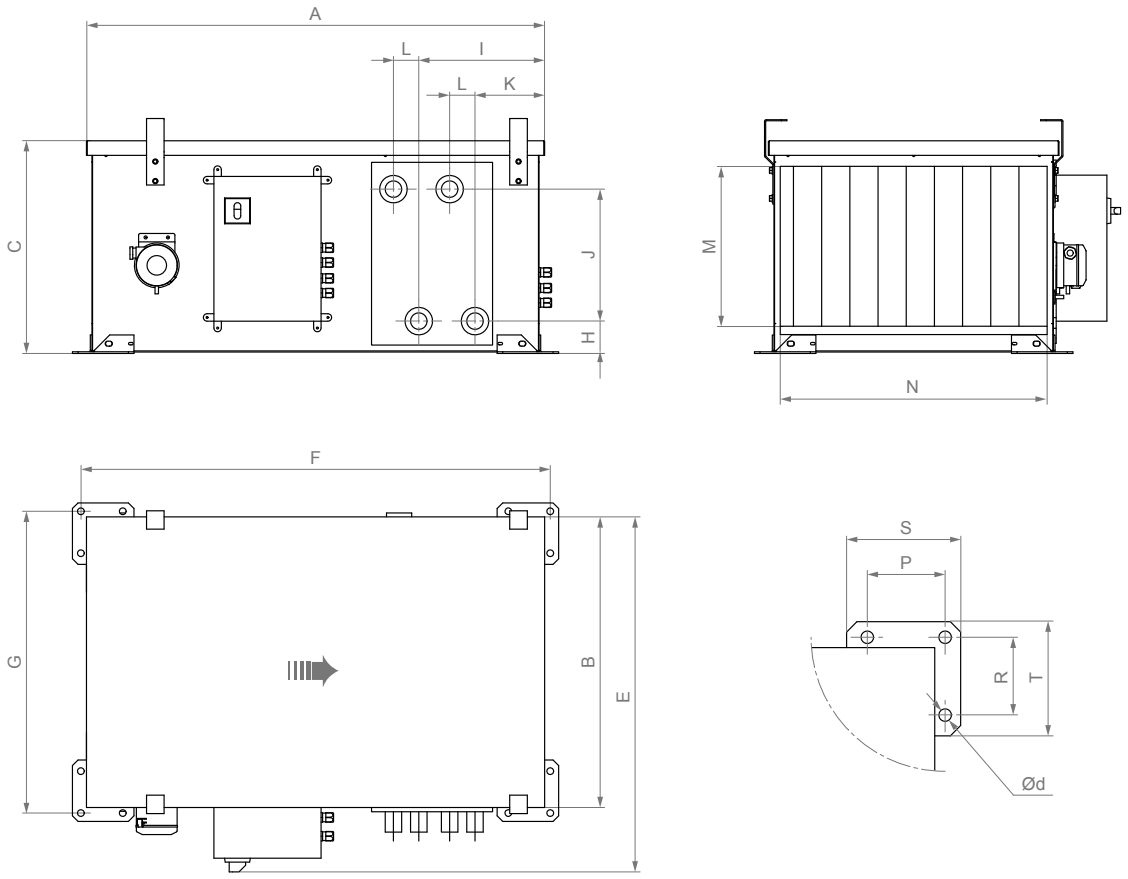
Version with hot, cold or reversible water coil (**H3 / C4 / R3**)



type	A mm	B mm	C mm	E mm	F mm	G mm	H mm	J mm	K mm	L mm	M mm	N mm	P mm	R mm	S mm	T mm	Ød mm	weight kg
CAIB/T-10	819	520	385	720	840	540	89	210	150	52	266	396	75	75	110	110	12	58
CAIB/T-20	1119	670	615	870	1140	690	112	390	250	52	495	546	75	75	110	110	12	104
CAIB/T-30	1119	670	615	870	1140	690	112	390	250	52	495	546	75	75	110	110	12	115
CAIB/T-40	1119	670	615	870	1140	690	112	390	250	52	495	546	75	75	110	110	12	121

DIMENSIONS

Version with hot + cold water coil (**H3 / C4**)



type	A mm	B mm	C mm	E mm	F mm	G mm	H mm	I mm	J mm	K mm	L mm	M mm	N mm	P mm	R mm	S mm	T mm	Ød mm	weight kg
CAIB/T-10	819	520	385	720	840	540	89	-	210	150	52	266	396	75	75	110	110	12	67
CAIB/T-20	1119	670	615	870	1140	690	112	326	390	250	52	495	546	75	75	110	110	12	127
CAIB/T-30	1119	670	615	870	1140	690	112	326	390	250	52	495	546	75	75	110	110	12	131
CAIB/T-40	1119	670	615	870	1140	690	112	326	390	250	52	495	546	75	75	110	110	12	140

TECHNICAL CHARACTERISTICS - HEATING COILS H3 / R3

Water temperature: 90/70°C.
For different water temperatures see the chart at the bottom of the page.

air inlet temp.	CAIB-10 H3 / CAIB-10 R3											
	-10°C			0°C			10°C			15°C		
airflow	power	air outlet temp.	water flow	power	air outlet temp.	water flow	power	air outlet temp.	water flow	power	air outlet temp.	water flow
300 m³/h	5,9 kW	48 °C	260 l/h	5,2 kW	52 °C	231 l/h	4,6 kW	55 °C	201 l/h	4,2 kW	57 °C	186 l/h
350 m³/h	6,6 kW	46 °C	292 l/h	5,9 kW	50 °C	259 l/h	5,1 kW	53 °C	225 l/h	4,7 kW	55 °C	209 l/h
400 m³/h	7,3 kW	44 °C	323 l/h	6,5 kW	48 °C	286 l/h	5,6 kW	52 °C	249 l/h	5,2 kW	54 °C	230 l/h
450 m³/h	8,0 kW	43 °C	351 l/h	7,1 kW	47 °C	311 l/h	6,1 kW	51 °C	271 l/h	5,7 kW	53 °C	250 l/h
500 m³/h	8,6 kW	41 °C	379 l/h	7,6 kW	45 °C	336 l/h	6,6 kW	49 °C	292 l/h	6,1 kW	51 °C	270 l/h
550 m³/h	9,2 kW	40 °C	405 l/h	8,1 kW	44 °C	359 l/h	7,1 kW	48 °C	312 l/h	6,5 kW	50 °C	289 l/h
600 m³/h	9,8 kW	38 °C	431 l/h	8,6 kW	43 °C	381 l/h	7,5 kW	47 °C	331 l/h	6,9 kW	49 °C	306 l/h
650 m³/h	10,3 kW	37 °C	455 l/h	9,1 kW	42 °C	403 l/h	7,9 kW	46 °C	350 l/h	7,3 kW	49 °C	324 l/h
700 m³/h	10,9 kW	36 °C	479 l/h	9,6 kW	41 °C	424 l/h	8,3 kW	45 °C	368 l/h	7,7 kW	48 °C	340 l/h
750 m³/h	11,4 kW	35 °C	502 l/h	10,1 kW	40 °C	444 l/h	8,7 kW	45 °C	386 l/h	8,1 kW	47 °C	356 l/h
800 m³/h	11,9 kW	34 °C	524 l/h	10,5 kW	39 °C	463 l/h	9,1 kW	44 °C	402 l/h	8,4 kW	46 °C	372 l/h
850 m³/h	12,4 kW	33 °C	545 l/h	10,9 kW	38 °C	482 l/h	9,5 kW	43 °C	419 l/h	8,8 kW	46 °C	387 l/h
900 m³/h	12,8 kW	32 °C	566 l/h	11,3 kW	37 °C	501 l/h	9,9 kW	43 °C	435 l/h	9,1 kW	45 °C	401 l/h

air inlet temp.	CAIB/T-20/30/40 H3 - CAIB/T-20/30/40 R3											
	-10°C			0°C			10°C			15°C		
airflow	power	air outlet temp.	water flow	power	air outlet temp.	water flow	power	air outlet temp.	water flow	power	air outlet temp.	water flow
500 m³/h	13,0 kW	67 °C	579 l/h	11,6 kW	69 °C	517 l/h	10,2 kW	70 °C	453 l/h	9,5 kW	71 °C	421 l/h
600 m³/h	15,0 kW	64 °C	668 l/h	13,4 kW	66 °C	596 l/h	11,8 kW	68 °C	522 l/h	10,9 kW	68 °C	485 l/h
700 m³/h	17,0 kW	62 °C	753 l/h	15,1 kW	64 °C	671 l/h	13,2 kW	66 °C	588 l/h	12,3 kW	67 °C	446 l/h
800 m³/h	18,8 kW	59 °C	833 l/h	16,7 kW	62 °C	742 l/h	14,6 kW	64 °C	650 l/h	13,6 kW	65 °C	604 l/h
900 m³/h	20,5 kW	57 °C	910 l/h	18,3 kW	59 °C	810 l/h	16,0 kW	62 °C	710 l/h	14,8 kW	63 °C	659 l/h
1 000 m³/h	21,4 kW	54 °C	943 l/h	19,0 kW	56 °C	838 l/h	16,6 kW	59 °C	732 l/h	15,4 kW	61 °C	679 l/h
1 200 m³/h	24,6 kW	51 °C	1 085 l/h	21,8 kW	54 °C	963 l/h	19,1 kW	57 °C	841 l/h	17,7 kW	59 °C	779 l/h
1 400 m³/h	27,6 kW	49 °C	1 217 l/h	24,5 kW	52 °C	1 081 l/h	21,4 kW	55 °C	943 l/h	19,8 kW	57 °C	873 l/h
1 600 m³/h	30,4 kW	47 °C	1 342 l/h	27,0 kW	50 °C	1 191 l/h	23,6 kW	54 °C	1 039 l/h	21,8 kW	56 °C	963 l/h
1 800 m³/h	133,1 kW	45 °C	1 461 l/h	29,4 kW	49 °C	1 296 l/h	25,6 kW	52 °C	1 130 l/h	23,7 kW	54 °C	1 047 l/h
2 000 m³/h	35,7 kW	43 °C	1 575 l/h	31,7 kW	47 °C	1 396 l/h	27,6 kW	51 °C	1 217 l/h	25,6 kW	53 °C	1 127 l/h
2 200 m³/h	38,2 kW	42 °C	1 683 l/h	33,8 kW	46 °C	1 492 l/h	29,5 kW	50 °C	1 300 l/h	27,3 kW	52 °C	1 203 l/h
2 400 m³/h	40,5 kW	40 °C	1 786 l/h	35,9 kW	44 °C	1 584 l/h	31,3 kW	49 °C	1 380 l/h	29,0 kW	51 °C	1 277 l/h
2 600 m³/h	42,8 kW	39 °C	1 886 l/h	37,9 kW	43 °C	1 672 l/h	33,0 kW	48 °C	1 456 l/h	30,6 kW	50 °C	1 348 l/h
2 800 m³/h	44,9 kW	38 °C	1 982 l/h	39,8 kW	42 °C	1 756 l/h	34,7 kW	47 °C	1 530 l/h	32,1 kW	49 °C	1 415 l/h
3 000 m³/h	47,1 kW	37 °C	2 075 l/h	41,7 kW	41 °C	1 839 l/h	36,3 kW	46 °C	1 601 l/h	33,6 kW	48 °C	1 481 l/h
3 200 m³/h	49,1 kW	36 °C	2 164 l/h	43,5 kW	40 °C	1 918 l/h	37,8 kW	45 °C	1 669 l/h	35,0 kW	48 °C	1 544 l/h
3 400 m³/h	51,0 kW	35 °C	2 251 l/h	45,2 kW	40 °C	1 994 l/h	39,3 kW	44 °C	1 735 l/h	36,4 kW	47 °C	1 605 l/h

Power correction factors

0,86	Water temperature 80/60°C
0,55	Water temperature 50/40°C

TECHNICAL CHARACTERISTICS – REVERSIBLE WATER COIL R3

Water temperature: 7/12°C.
For different water temperatures see the chart at the bottom of the page.

air inlet temperature	CAIB-10 R3								
	25°C and 50%			27°C and 50%			32°C and 50%		
airflow	power	air outlet temperature	water flow	power	air outlet temperature	water flow	power	air outlet temperature	water flow
300 m³/h	0,80 kW	17,38 °C	137 l/h	0,94 kW	18,49 °C	161 l/h	1,31 kW	22,10 °C	225 l/h
350 m³/h	0,86 kW	17,81 °C	148 l/h	1,01 kW	18,97 °C	174 l/h	1,47 kW	22,41 °C	252 l/h
400 m³/h	0,95 kW	18,05 °C	164 l/h	1,09 kW	19,38 °C	187 l/h	1,76 kW	22,36 °C	302 l/h
450 m³/h	1,01 kW	18,44 °C	174 l/h	1,15 kW	19,73 °C	198 l/h	1,96 kW	22,51 °C	337 l/h
500 m³/h	1,07 kW	18,77 °C	183 l/h	1,21 kW	20,04 °C	208 l/h	2,12 kW	22,72 °C	365 l/h
550 m³/h	1,12 kW	19,06 °C	192 l/h	1,27 kW	20,32 °C	217 l/h	2,26 kW	22,95 °C	388 l/h
600 m³/h	1,17 kW	19,33 °C	200 l/h	1,35 kW	20,43 °C	233 l/h	2,38 kW	23,16 °C	409 l/h
650 m³/h	1,21 kW	19,56 °C	208 l/h	1,46 kW	20,46 °C	251 l/h	2,50 kW	23,35 °C	429 l/h
700 m³/h	1,25 kW	19,78 °C	215 l/h	1,60 kW	20,38 °C	275 l/h	2,61 kW	23,54 °C	448 l/h
750 m³/h	1,29 kW	19,97 °C	222 l/h	1,80 kW	20,19 °C	308 l/h	2,71 kW	23,71 °C	466 l/h
800 m³/h	1,33 kW	20,14 °C	229 l/h	1,92 kW	20,20 °C	330 l/h	2,81 kW	23,87 °C	483 l/h
850 m³/h	1,39 kW	20,23 °C	239 l/h	2,01 kW	20,30 °C	345 l/h	2,90 kW	24,02 °C	499 l/h
900 m³/h	1,48 kW	20,21 °C	254 l/h	2,10 kW	20,38 °C	361 l/h	2,99 kW	24,16 °C	514 l/h

air inlet temperature	CAIB/T-20/30/40 H3 - CAIB/T-20/30/40 R3								
	25°C and 50%			27°C and 50%			32°C and 50%		
airflow	power	air outlet temperature	water flow	power	air outlet temperature	water flow	power	air outlet temperature	water flow
500 m³/h	1,82 kW	15,01 °C	312 l/h	2,09 kW	16,25 °C	359 l/h	3,71 kW	17,92 °C	638 l/h
600 m³/h	2,02 kW	15,58 °C	348 l/h	2,31 kW	16,81 °C	397 l/h	4,29 kW	18,36 °C	737 l/h
700 m³/h	2,21 kW	16,06 °C	379 l/h	2,58 kW	17,05 °C	444 l/h	4,77 kW	18,82 °C	821 l/h
800 m³/h	2,38 kW	16,45 °C	409 l/h	2,89 kW	17,20 °C	496 l/h	5,24 kW	19,21 °C	890 l/h
900 m³/h	2,53 kW	16,81 °C	435 l/h	3,36 kW	17,18 °C	576 l/h	5,64 kW	19,61 °C	969 l/h
1 000 m³/h	2,80 kW	16,83 °C	481 l/h	3,84 kW	17,10 °C	659 l/h	6,01 kW	19,96 °C	1 033 l/h
1 200 m³/h	3,72 kW	16,3 °C	638 l/h	4,43 kW	17,42 °C	761 l/h	6,71 kW	20,55 °C	1 153 l/h
1 400 m³/h	4,27 kW	16,44 °C	733 l/h	4,95 kW	17,75 °C	850 l/h	7,33 kW	21,05 °C	1 260 l/h
1 600 m³/h	4,71 kW	16,71 °C	809 l/h	5,39 kW	18,07 °C	926 l/h	7,90 kW	21,45 °C	1 358 l/h
1 800 m³/h	5,10 kW	16,97 °C	876 l/h	5,79 kW	18,36 °C	995 l/h	8,43 kW	21,82 °C	1 449 l/h
2 000 m³/h	5,47 kW	17,21 °C	940 l/h	6,17 kW	18,62 °C	1 060 l/h	8,94 kW	22,13 °C	1 537 l/h
2 200 m³/h	5,81 kW	17,43 °C	998 l/h	6,87 kW	18,49 °C	1 181 l/h	9,44 kW	22,39 °C	1 622 l/h
2 400 m³/h	6,07 kW	17,69 °C	1 044 l/h	7,18 kW	18,78 °C	1 235 l/h	9,80 kW	22,68 °C	1 684 l/h
2 600 m³/h	6,36 kW	17,90 °C	1 093 l/h	7,54 kW	18,99 °C	1 296 l/h	10,25 kW	22,89 °C	1 761 l/h
2 800 m³/h	6,92 kW	17,79 °C	1 190 l/h	7,87 kW	19,19 °C	1 352 l/h	10,67 kW	23,09 °C	1 834 l/h
3 000 m³/h	7,26 kW	17,94 °C	1 248 l/h	8,19 kW	19,38 °C	1 408 l/h	11,08 kW	23,26 °C	1 904 l/h
3 200 m³/h	7,55 kW	18,12 °C	1 298 l/h	8,49 kW	19,55 °C	1 460 l/h	11,50 kW	23,41 °C	1 977 l/h
3 400 m³/h	7,83 kW	18,28 °C	1 346 l/h	8,79 kW	19,71 °C	1 511 l/h	12,36 kW	23,28 °C	2 124 l/h

Power correction factors

Air inlet	Water temperature		
	5-10°C	6-11°C	8-13°C
25°C and 50% HR	1,2	1,1	0,9
27°C and 50% HR	1,18	1,08	0,9
32°C and 50% HR	1,12	1,06	0,9

TECHNICAL CHARACTERISTICS - COLD WATER COIL C4

Water temperature: 7/12°C.
For different water temperatures see the chart at the bottom of the page.

air inlet temperature	CAIB-10 C4								
	25°C and 50%			27°C and 50%			32°C and 50%		
airflow	power	air outlet temperature	water flow	power	air outlet temperature	water flow	power	air outlet temperature	water flow
300 m³/h	1,51 kW	13,17 °C	259 l/h	1,84 kW	13,94 °C	315 l/h	2,92 kW	15,43 °C	501 l/h
350 m³/h	1,7 kW	13,46 °C	292 l/h	2,07 kW	14,22 °C	356 l/h	3,29 kW	15,86 °C	565 l/h
400 m³/h	1,88 kW	13,71 °C	323 l/h	2,31 kW	14,43 °C	397 l/h	3,64 kW	16,23 °C	626 l/h
450 m³/h	2,05 kW	13,94 °C	352 l/h	2,53 kW	14,67 °C	434 l/h	3,98 kW	16,57 °C	684 l/h
500 m³/h	2,21 kW	14,15 °C	380 l/h	2,73 kW	14,92 °C	468 l/h	4,3 kW	16,88 °C	739 l/h
550 m³/h	2,37 kW	14,35 °C	406 l/h	2,92 kW	15,14 °C	502 l/h	4,61 kW	17,16 °C	793 l/h
600 m³/h	2,52 kW	14,52 °C	433 l/h	3,1 kW	15,35 °C	533 l/h	4,91 kW	17,41 °C	844 l/h
650 m³/h	2,68 kW	14,64 °C	461 l/h	3,28 kW	15,53 °C	564 l/h	5,19 kW	17,66 °C	892 l/h

air inlet temperature	CAIB/T-20/30/40 C4 - CAIB/T-20/30/40 C4								
	25°C and 50%			27°C and 50%			32°C and 50%		
airflow	power	air outlet temperature	water flow	power	air outlet temperature	water flow	power	air outlet temperature	water flow
500 m³/h	2,77 kW	12,36 °C	475 l/h	3,4 kW	12,94 °C	584 l/h	5,38 kW	14,08 °C	924 l/h
600 m³/h	3,24 kW	12,58 °C	557 l/h	3,95 kW	13,26 °C	679 l/h	6,25 kW	14,53 °C	1 074 l/h
700 m³/h	3,68 kW	12,82 °C	631 l/h	4,47 kW	13,54 °C	768 l/h	7,09 kW	14,91 °C	1 218 l/h
800 m³/h	4,08 kW	13,06 °C	701 l/h	4,97 kW	13,79 °C	854 l/h	7,9 kW	15,23 °C	1 358 l/h
900 m³/h	4,47 kW	13,28 °C	767 l/h	5,44 kW	14,04 °C	935 l/h	8,66 kW	15,56 °C	1 488 l/h
1 000 m³/h	4,85 kW	13,45 °C	834 l/h	5,98 kW	14,12 °C	1 027 l/h	9,41 kW	15,84 °C	1 617 l/h
1 100 m³/h	5,22 kW	13,63 °C	897 l/h	6,43 kW	14,32 °C	1 104 l/h	10,13 kW	16,1 °C	1 740 l/h
1 200 m³/h	5,57 kW	13,8 °C	957 l/h	6,86 kW	14,51 °C	1 178 l/h	10,82 kW	16,35 °C	1 859 l/h
1 300 m³/h	5,9 kW	13,96 °C	1 014 l/h	7,26 kW	14,7 °C	1 247 l/h	11,49 kW	16,58 °C	1 974 l/h
1 400 m³/h	6,23 kW	14,11 °C	1 070 l/h	7,68 kW	14,86 °C	1 319 l/h	12,13 kW	16,79 °C	2 084 l/h
1 500 m³/h	6,54 kW	14,25 °C	1 124 l/h	8,08 kW	15,01 °C	1 388 l/h	12,75 kW	17 °C	2 192 l/h
1 600 m³/h	6,86 kW	14,37 °C	1 178 l/h	8,45 kW	15,16 °C	1 452 l/h	13,38 kW	17,18 °C	2 299 l/h
1 700 m³/h	7,15 kW	14,5 °C	1 228 l/h	8,81 kW	15,31 °C	1 514 l/h	13,96 kW	17,37 °C	2 399 l/h
1 800 m³/h	7,49 kW	14,56 °C	1 287 l/h	9,18 kW	15,45 °C	1 577 l/h	14,55 kW	17,53 °C	2 500 l/h
1 900 m³/h	7,78 kW	14,69 °C	1 336 l/h	9,53 kW	15,57 °C	1 680 l/h	15,12 kW	17,69 °C	2 599 l/h
2 000 m³/h	8,08 kW	14,79 °C	1 338 l/h	9,88 kW	15,69 °C	1 697 l/h	15,66 kW	17,86 °C	2 692 l/h

Power correction factors

Air inlet	Water temperature		
	5-10°C	6-11°C	8-13°C
25°C and 50% HR	1,2	1,1	0,9
27°C and 50% HR	1,18	1,08	0,9
32°C and 50% HR	1,12	1,06	0,9

ACOUSTIC CHARACTERISTICS

type	regulation	sound power level L_w (A)			
CAIB/T-10	10 V	**airflow**	**300 m³/h**	**500 m³/h**	**700 m³/h**
		inlet	70 dB(A)	70 dB(A)	73 dB(A)
		outlet	76 dB(A)	77 dB(A)	77 dB(A)
		emitted	57 dB(A)	57 dB(A)	59 dB(A)
	8 V	**airflow**	**240 m³/h**	**400 m³/h**	**560 m³/h**
		inlet	65 dB(A)	65 dB(A)	68 dB(A)
		outlet	71 dB(A)	72 dB(A)	72 dB(A)
		emitted	51 dB(A)	51 dB(A)	53 dB(A)
	6 V	**airflow**	**150 m³/h**	**250 m³/h**	**350 m³/h**
		inlet	60 dB(A)	60 dB(A)	60 dB(A)
		outlet	65 dB(A)	65 dB(A)	66 dB(A)
		emitted	48 dB(A)	48 dB(A)	48 dB(A)

type	regulation	sound power level L_w (A)			
CAIB/T-20	10 V	**airflow**	**1000 m³/h**	**1400 m³/h**	**1800 m³/h**
		inlet	69 dB(A)	70 dB(A)	70 dB(A)
		outlet	74 dB(A)	76 dB(A)	76 dB(A)
		emitted	52 dB(A)	53 dB(A)	54 dB(A)
	8 V	**airflow**	**800 m³/h**	**1120 m³/h**	**1440 m³/h**
		inlet	64 dB(A)	65 dB(A)	65 dB(A)
		outlet	69 dB(A)	71 dB(A)	71 dB(A)
		emitted	50 dB(A)	51 dB(A)	52 dB(A)
	6 V	**airflow**	**500 m³/h**	**700 m³/h**	**900 m³/h**
		inlet	57 dB(A)	57 dB(A)	58 dB(A)
		outlet	61 dB(A)	62 dB(A)	62 dB(A)
		emitted	46 dB(A)	46 dB(A)	47 dB(A)

type	regulation	sound power level L_w (A)			
CAIB/T-30	10 V	**airflow**	**1500 m³/h**	**2000 m³/h**	**2500 m³/h**
		inlet	72 dB(A)	73 dB(A)	73 dB(A)
		outlet	77 dB(A)	79 dB(A)	79 dB(A)
		emitted	55 dB(A)	56 dB(A)	57 dB(A)
	8 V	**airflow**	**1200 m³/h**	**1600 m³/h**	**2000 m³/h**
		inlet	67 dB(A)	68 dB(A)	68 dB(A)
		outlet	72 dB(A)	74 dB(A)	74 dB(A)
		emitted	50 dB(A)	51 dB(A)	52 dB(A)
	6 V	**airflow**	**750 m³/h**	**1000 m³/h**	**1750 m³/h**
		inlet	60 dB(A)	60 dB(A)	61 dB(A)
		outlet	64 dB(A)	65 dB(A)	65 dB(A)
		emitted	46 dB(A)	46 dB(A)	47 dB(A)

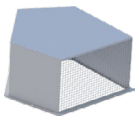
ACOUSTIC CHARACTERISTICS

type	regulation	sound power level L_w (A)			
CAIB/T-40	10 V	**airflow**	**1500 m³/h**	**2500 m³/h**	**3000 m³/h**
		inlet	75 dB(A)	76 dB(A)	76 dB(A)
		outlet	81 dB(A)	83 dB(A)	83 dB(A)
		emitted	58 dB(A)	59 dB(A)	60 dB(A)
	8 V	**airflow**	**1200 m³/h**	**2000 m³/h**	**2400 m³/h**
		inlet	70 dB(A)	71 dB(A)	71 dB(A)
		outlet	76 dB(A)	78 dB(A)	78 dB(A)
		emitted	53 dB(A)	54 dB(A)	55 dB(A)
	6 V	**airflow**	**750 m³/h**	**1250 m³/h**	**1500 m³/h**
		inlet	63 dB(A)	63 dB(A)	64 dB(A)
		outlet	68 dB(A)	69 dB(A)	69 dB(A)
		emitted	49 dB(A)	49 dB(A)	50 dB(A)

MOUNTING ACCESSORIES








1 2 3 4 5 6 7

type	single filter	double filter		protection guard	flexible connector	rectangular flange	conversor
	M5	M5	F7				
CAIB/T-10	AFR CAIB-10 M5	AFR CAIB-10 M5-PRE	AFR CAIB-10 F7-POST	APR CAIB-10	MSCE 410x270 M0	BRC CAIB-10	BCC-250 CAIB-10
CAIB/T-20	AFR CAIB-20/30/40 M5	AFR CAIB-20/30/40 M5-PRE	AFR CAIB-20/30/40 F7-POST	APR CAIB-20/30/40	MSCE 560x510 M0	BRC CAIB-20/30/40	BCC-355 CAIB-20
CAIB/T-30/40	AFR CAIB-20/30/40 M5	AFR CAIB-20/30/40 M5-PRE	AFR CAIB-20/30/40 F7-POST	APR CAIB-20/30/40	MSCE 560x510 M0	BRC CAIB-20/30/40	BCC-400 CAIB-30/40

Accessories in combination with BCC conversor








1 8 9 10 11 12 13

type	diameter after installation of BCC conversor	protection guard	silencer	flexible connector	isolation damper	actuator	
						230V	24V
CAIB/T-10	250	APC-250	SIL-250	ACOPEL F400-250/160 N	REEV 250	LF 230 S	LF 24 S
CAIB/T-20	355	APC-355	SIL-355	ACOPEL F400-355/160 N	REEV 355	LF 230 S	LF 24 S
CAIB/T-30/40	400	APC-400	SIL-400	ACOPEL F400-400/160 N	REEV 400	LF 230 S	LF 24 S

ELECTRICAL ACCESSORIES







1 2 3 4 5 6 7 8 9

type	control box 2 speeds	remote control ON/OFF + potentiometer	CO_2 sensor for the duct	ambient sensor	ambient sensor	room sensor	humidity sensor	pressure sensor
CAIB/T-10	BCCA 2V	CVF	SCO2-G	SCO2 A	SCO2	TGR	SHUR	SPRD B
CAIB/T-20	BCCA 2V	CVF	SCO2-G	SCO2 A	SCO2	TGR	SHUR	SPRD B
CAIB/T-30/40	BCCA 2V	CVF	SCO2-G	SCO2 A	SCO2	TGR	SHUR	SPRD B