CAIB/T-10 to 40 PRO-REG

CAIT-50 PRO-REG

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

Sizes 10-40: 4 suspension/fixing brackets supplied.
Size 50: 3-part cover with removable handles. Access by side and top panels for filters.
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 (ePM10 75% + ePM1 55%) (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

5 models with airflows from 200 to 5500 m^3/h. Operation with complete electronic control.
5 versions:
- Electric heater (**E**).
- Hot water coil (**H2/H3**).
- Reversible water coil (**R3/R4**).
- Hot water coil + cold water coil (**H2 C4/ 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 40/50: Three-phase 400V (380-480V), 50/60Hz, IP 54, class B.

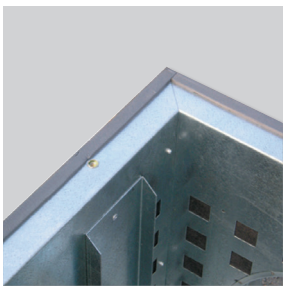
Control

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.

Specific applications

Commercial and industrial kitchens

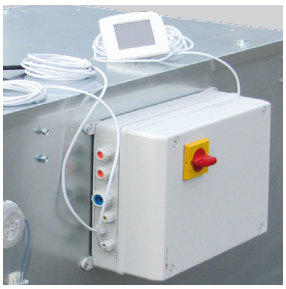
Commercial locals



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

Easy to mount
4-fixing feet.

Stainless steel 304L electrical heaters.



Integrated electronic controller
Integrated electronic controller mounted on the cabinet.

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).

VERSIONS FEATURES

Features of electric heater (**E** versions)
- 304L stainless steel element rods.
- Safety thermostats: auto-reset thermostat at 55ºC / manual reset thermostat at 85ºC
- Proportional regulation by included SSR.
- The 48KW battery of the CAIT-50 has a separate power supply with his own safety switch.

Features of hot water coil (**H2/H3** and **H2 C4/H3 C4** versions)
- Water coil, of 3 rows (2 rows in CAIT-50) 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, H2 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)

Features of reversible water coil (**R3** and **R4** versions)
- Water coil, of 3 rows (4 rows in CAIT-50) 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).

REFERENCE

C	A	I	B	-	20	M5	H3	PRO-REG	L
1					2	3	4	5	6

1 - Product range.
CAIB: Supply unit with single phase 230V supply voltage
CAIT: Supply unit with three phase 400V supply voltage

2 - Model / maximum airflow:
10: Nominal airflow 1000 m^3/h
20: Nominal airflow 2000 m^3/h
30: Nominal airflow 3000 m^3/h
40: Nominal airflow 4000 m^3/h
50: Nominal airflow 5000 m^3/h

3 - Filter
M5: Equipped with a single M5 filter 96mm thickness
M5 F7: Equipped with two filters M5+F7, 48+48 mm thickness

4 - Type of coil/battery.
E6..E48: with electric heater
H2/H3: with hot water coil
C4: with cold water coil
R3/R4: with reversible (hot and cold) water coil
H2 C4/H3 C4: with hot water coil + cold water coil

5 - Controller Type.
PRO-REG: Advanced plug&play controller

6 - Electric box and coil connection side
L: On the Left hand side according to airflow direction
R: On the right hand side according to airflow direction

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 E48)

	Complete unit			Fan			Electric heater			
	Power supply	P. total (kW)	Max. Abs. Current (A)	RPM Max	P. abs. Max (W)	Maxim current (A)	Num. of stages	Stage power (kW)	Total heating power (kW)	Max. Abs. Current (A)
CAIB-10 E6 PRO-REG	1/230V, 50Hz	7	29	2649	193	1,5	2	3	6	26,1
CAIT-10 E9 PRO-REG	3+N/400V, 50Hz	10	15	2649	193	1,5	3	3	9	13
CAIT-20 E9 PRO-REG	3+N/400V, 50Hz	10	16	2850	415	1,8	3	3	9	13
CAIT-20 E15 PRO-REG	3+N/400V, 50Hz	16	25	2850	415	1,8	3	5	15	21,7
CAIT-30 E9 PRO-REG	3+N/400V, 50Hz	10	17	2800	715	3,1	3	3	9	13
CAIT-30 E15 PRO-REG	3+N/400V, 50Hz	17	26	2800	715	3,1	3	5	15	21,7
CAIT-30 E24 PRO-REG	3+N/400V, 50Hz	26	40	2800	715	3,1	3	3+5	24	34,6
CAIT-40 E15 PRO-REG	3+N/400V, 50Hz	17	24	2580	1000	1,63	3	5	15	21,7
CAIT-40 E30 PRO-REG	3+N/400V, 50Hz	33	47	2580	1000	1,63	6	5	30	43,3
CAIT-50 E12 PRO-REG	3+N/400V, 50Hz	14	21	3410	1800	2,8	3	4	12	17,3
CAIT-50 E24 PRO-REG	3+N/400V, 50Hz	26	38	3410	1800	2,8	6	4	24	34,6
CAIT-50 E36 PRO-REG	3+N/400V, 50Hz	38	55	3410	1800	2,8	9	4	36	52
CAIT-50 E48 PRO-REG	3+N/400V, 50Hz*	50	73	3410	1800	2,8	12	4	48	69,3

*The 48 kW battery of the CAIT-50 has a separate power supply with its safety switch.

Units with heating coil H2/H3

	Complete unit			Fan		
	Power supply	P. total (kW)	Max. Abs. Current (A)	RPM Max	P. abs. Max (W)	Maxim current (A)
CAIB-10 H3 PRO-REG	1/230V, 50Hz	0,2	2	2649	193	1,5
CAIB-20 H3 PRO-REG	1/230V, 50Hz	0,4	2	2850	415	1,8
CAIB-30 H3 PRO-REG	1/230V, 50Hz	1	3	2800	715	3,1
CAIT-40 H3 PRO-REG	3+N/400V, 50Hz	1	2	2580	1000	1,63
CAIT-50 H2 PRO-REG	3+N/400V, 50Hz	2	3	3410	1800	2,8

Units with cooling coil C4

	Complete unit			Fan		
	Power supply	P. total (kW)	Max. Abs. Current (A)	RPM Max	P. abs. Max (W)	Maxim current (A)
CAIB-10 C4 PRO-REG	1/230V, 50Hz	0,2	2	2649	193	1,5
CAIB-20 C4 PRO-REG	1/230V, 50Hz	0,4	2	2850	415	1,8
CAIB-30 C4 PRO-REG	1/230V, 50Hz	1	3	2800	715	3,1
CAIT-40 C4 PRO-REG	3+N/400V, 50Hz	1	2	2580	1000	1,63

Units with reversible coil R3/R4

	Complete unit			Fan		
	Power supply	P. total (kW)	Max. Abs. Current (A)	RPM Max	P. abs. Max (W)	Maxim current (A)
CAIB-10 R3 PRO-REG	1/230V, 50Hz	0,2	2	2649	193	1,5
CAIB-20 R3 PRO-REG	1/230V, 50Hz	0,4	2	2850	415	1,8
CAIB-30 R3 PRO-REG	1/230V, 50Hz	1	3	2800	715	3,1
CAIT-40 R3 PRO-REG	3+N/400V, 50Hz	1	2	2580	1000	1,63
CAIT-50 R4 PRO-REG	3+N/400V, 50Hz	2	3	3410	1800	2,8

Units with heating and cooling coil H2 C4/H3 C4

	Complete unit			Fan		
	Power supply	P. total (kW)	Max. Abs. Current (A)	RPM Max	P. abs. Max (W)	Maxim current (A)
CAIB-10 H3 C4 PRO-REG	1/230V, 50Hz	0,2	2	2649	193	1,5
CAIB-20 H3 C4 PRO-REG	1/230V, 50Hz	0,4	2	2850	415	1,8
CAIB-30 H3 C4 PRO-REG	1/230V, 50Hz	1	3	2800	715	3,1
CAIT-40 H3 C4 PRO-REG	3+N/400V, 50Hz	1	2	2580	1000	1,63
CAIT-50 H2 C4 PRO-REG	3+N/400V, 50Hz	2	3	3410	1800	2,8

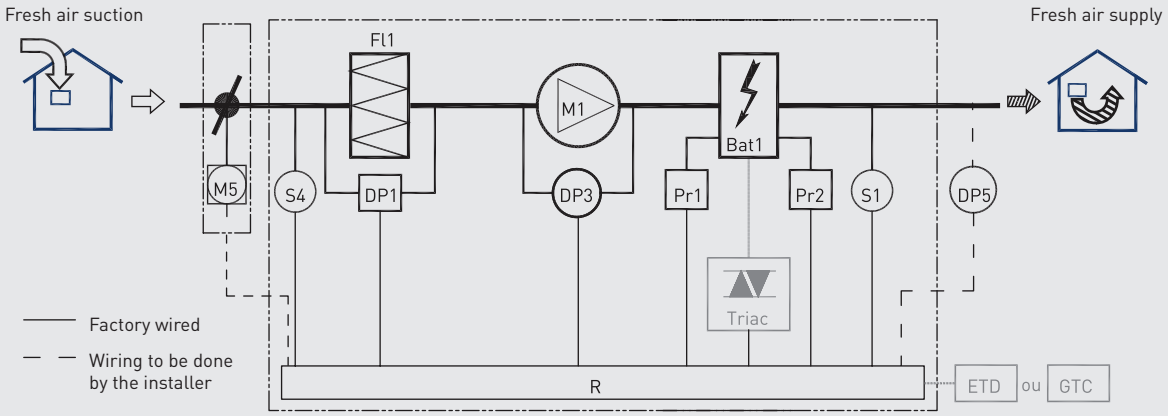
TECHNICAL CHARACTERISTICS

	E6...E48 Electric battery	H2/H3 Hot water coil	C4 Cold water coil	R3/R4 Reversible water coil	H2 C4/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		0	0	0	0
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 7º 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 0: Optional

CONTROL - SYNOPTHIC ELECTRICAL REGULATION

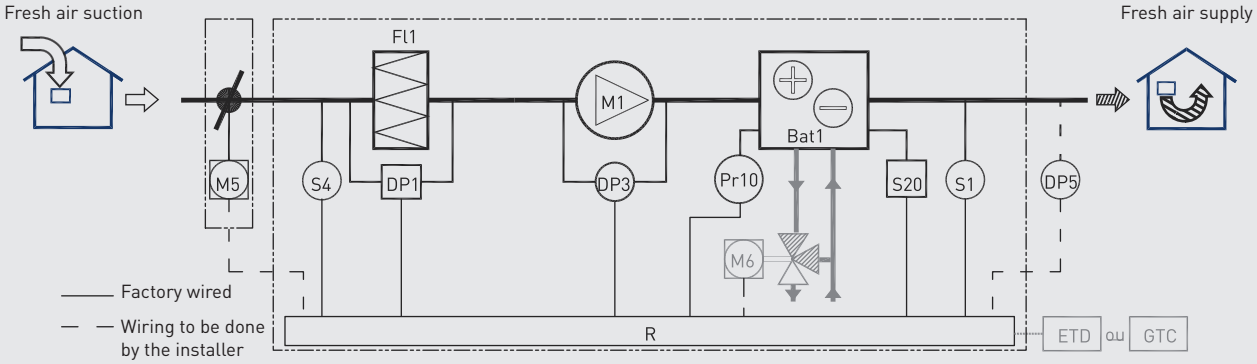
CAIB PRO-REG with electric coil



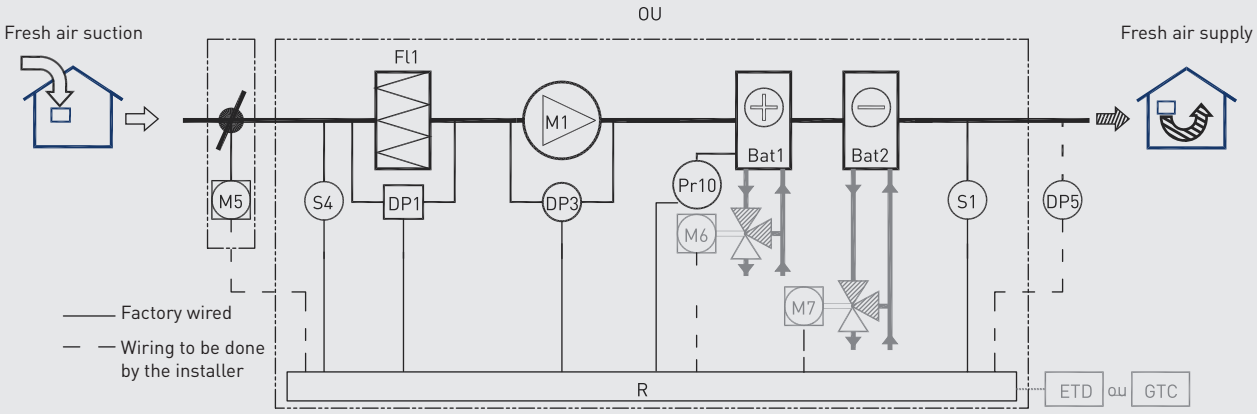
S1	Supply temperature probe	**M5**	Isolation damper (accessory)	**DP5**	Pressure sensor (mode COP accessory)
S4	Fresh air temperature probe	**Fl1**	Fresh air filter		
R	Controller	**DP1**	Filter cloging detector	**Bat1**	Electric battery
Pr1/2	Safety thermostat (man/auto)	**DP3**	Airflow sensor	**Triac**	Electric battery regulator
M1	EC-fan			**ETD**	Remote hand terminal

CAIB PRO-REG with water coil

Version with a single coil



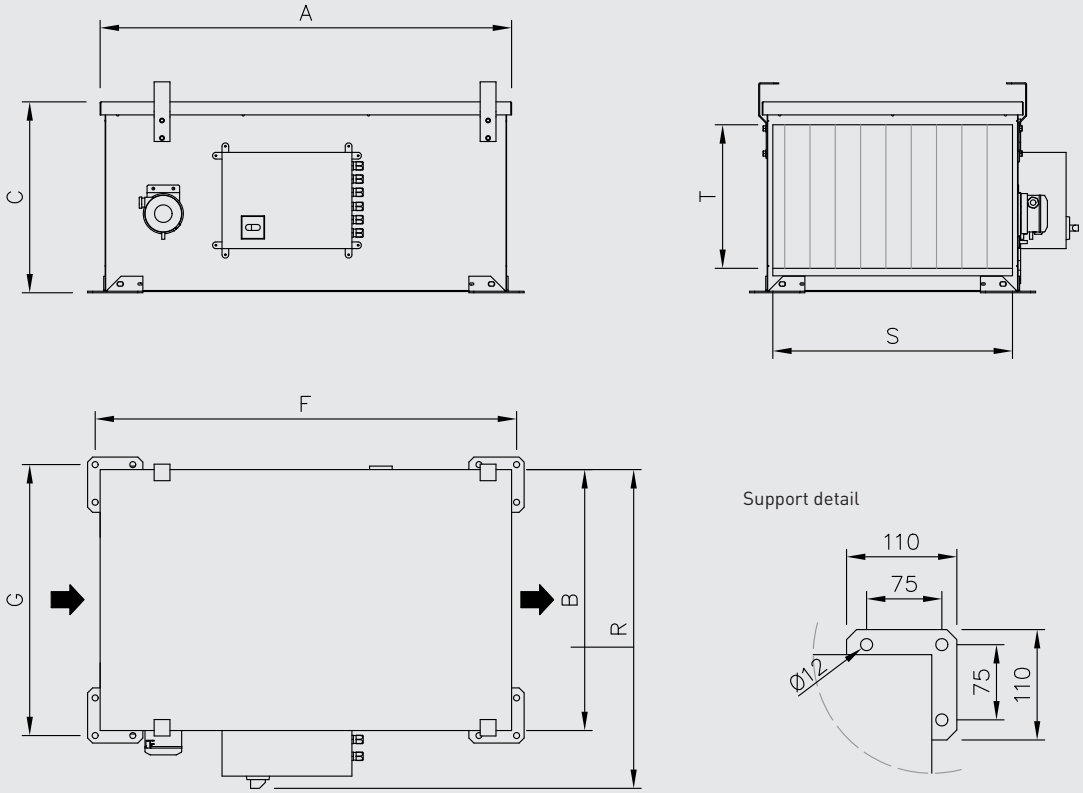
Version with hot and cold water coil (H2 C4/H3 C4)



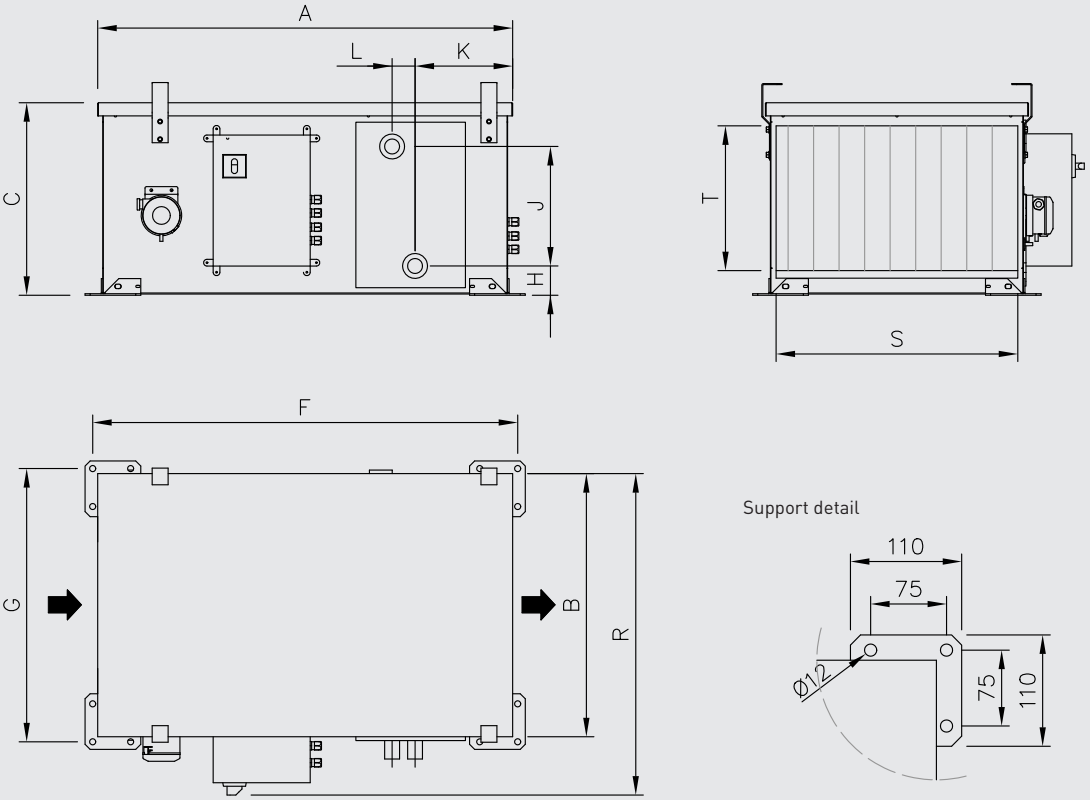
S1	Supply temperature probe	**M5**	Isolation damper (accessory)	**DP5**	Pressure sensor (mode COP accessory)
S4	Fresh air temperature probe	**M6**	Water valve with actuator		
R	Controller	**M7**	Water valve with actuator	**Bat1**	Reversible water coil / hot water
Pr10	Water coil defrost	**Fl1**	Fresh air filter		
S20	Change-over thermostat	**DP1**	Filter cloging detector	**Bat2**	Cold water coil
M1	EC-fan	**DP3**	Aiflow sensor	**ETD**	Remote hand terminal

DIMENSIONS (mm)

CAIB/T-10 to 40
Version with electric heater **(E6..E30)**

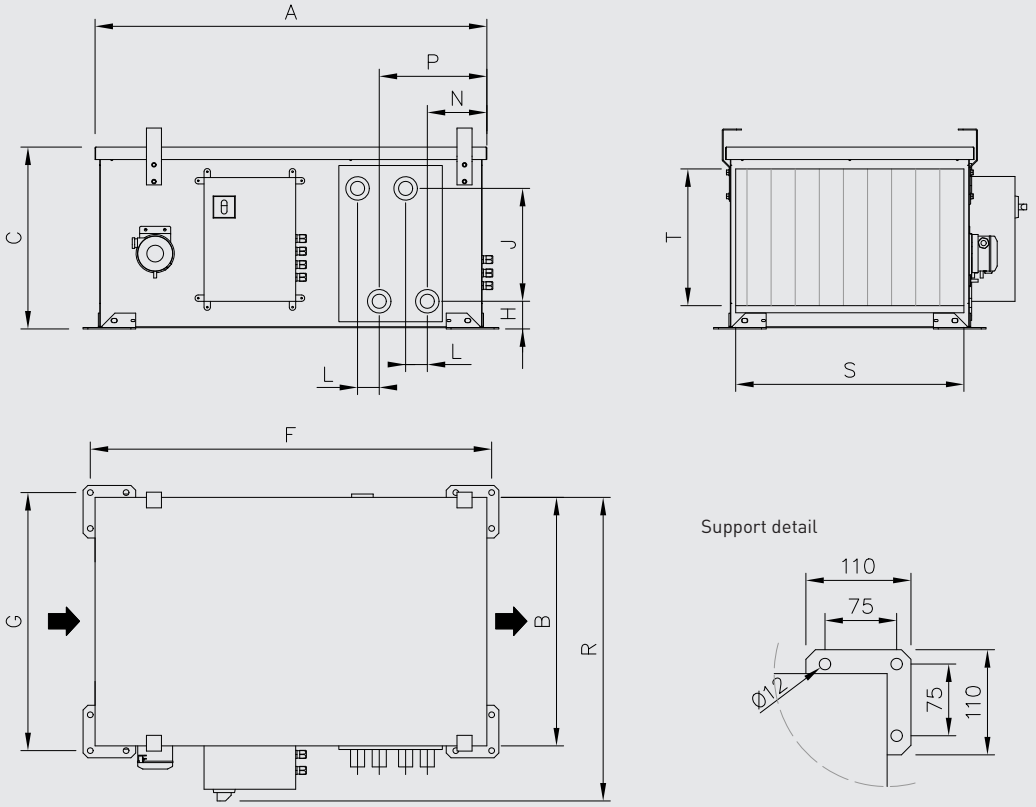


CAIB/T-10 to 40
Version with hot, cold or reversible water coil **(H3 / C4/ R3)**



DIMENSIONS (mm)

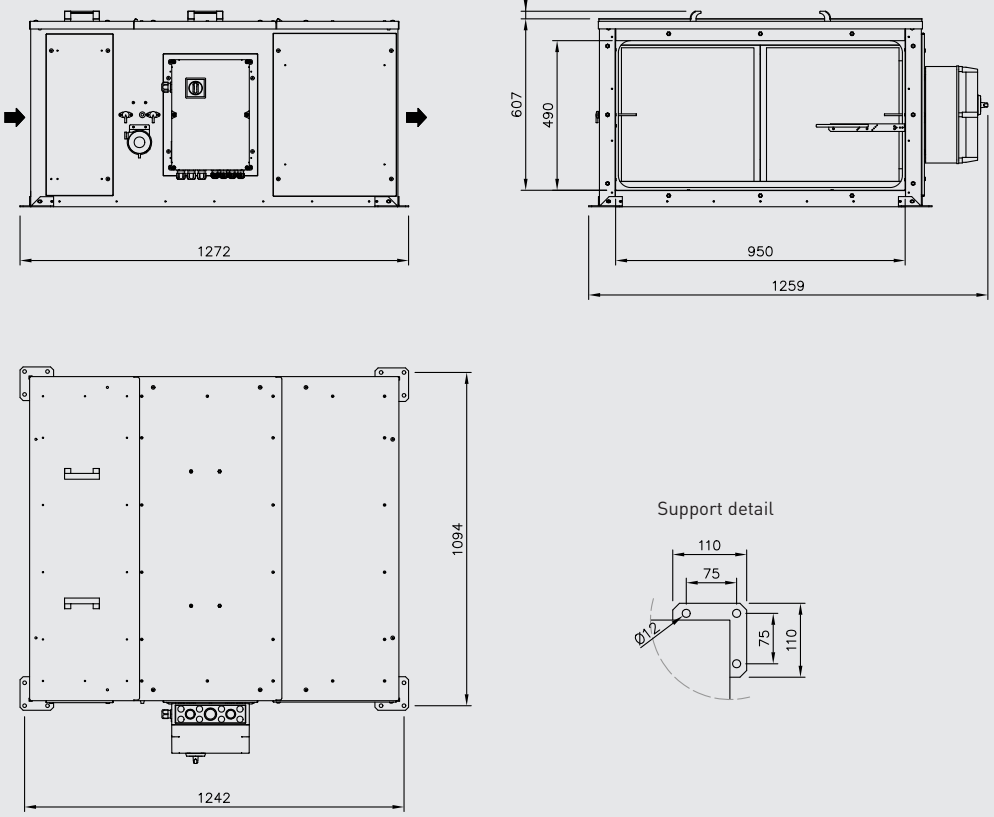
CAIB/T-10 to 40
Version with hot + cold water coil **(H3 C4)**



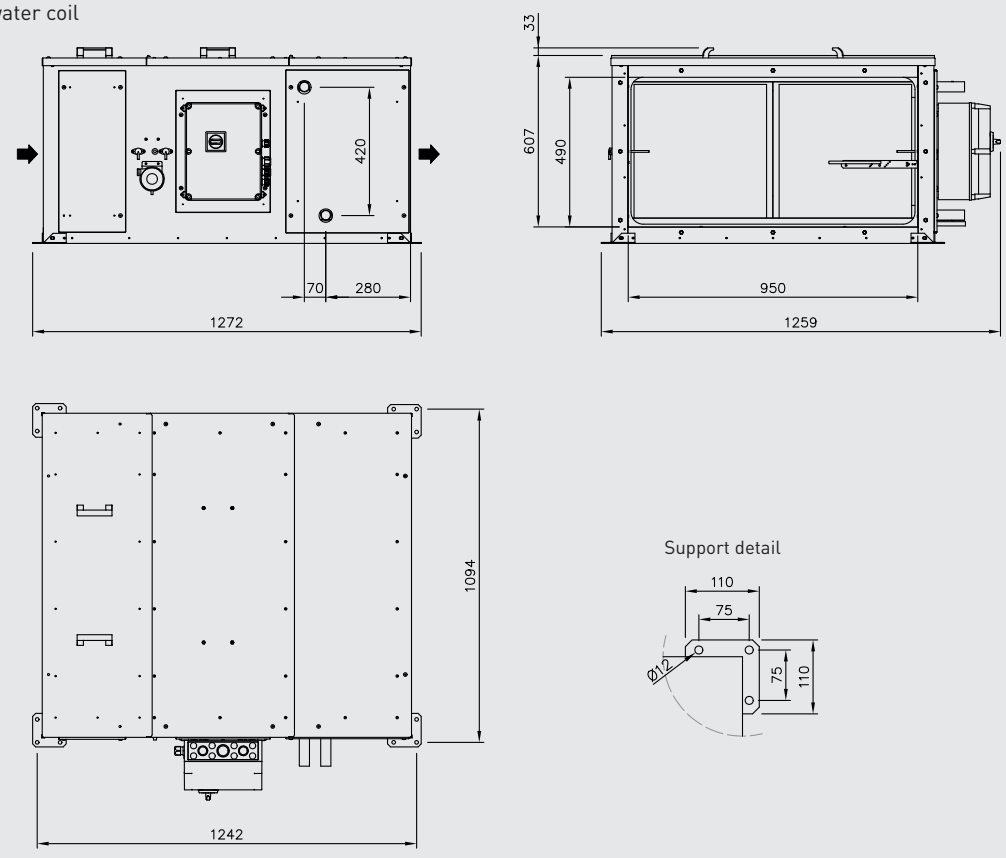
Model	External Dimensions (mm)				Fixation (mm)		Water coils (mm)						Air inlet/Outlet		Weight		
	A	B	C	R	F	G	H	J	K	L	N	P	S	T	E	H3, R3, C4	H3 C4
CAIB/T-10	819	520	385	720	840	540	89	210	150	52	-	-	396	266	55	58	67
CAIB/T-20	1119	670	615	870	1140	690	112	390	250	52	178	326	546	495	99	104	127
CAIB/T-30	1119	670	615	870	1140	690	112	390	250	52	178	326	546	495	103	115	131
CAIB/T-40	1119	670	615	870	1140	690	112	390	250	52	178	326	546	495	112	121	140

DIMENSIONS (mm)

CAIT-50 E12..E48
Version with electric battery



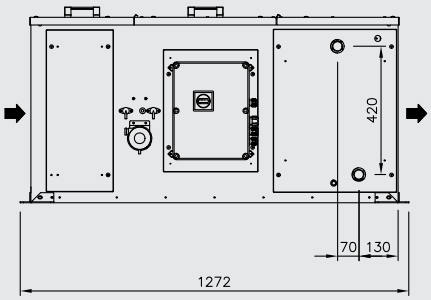
CAIT-50 H2
Version with hot water coil

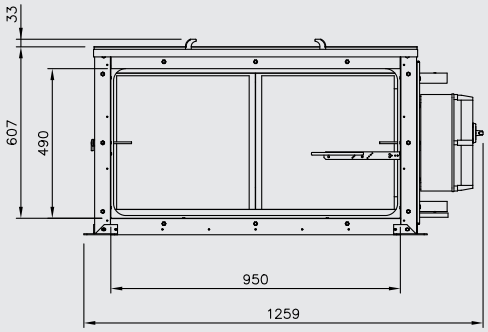


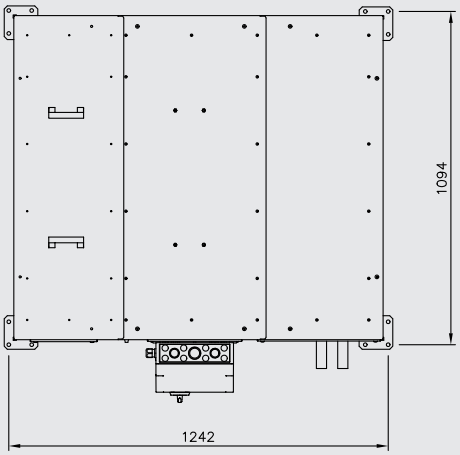
DIMENSIONS (mm)

CAIT-50 R4

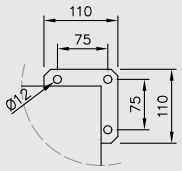
Version with reversible cool water coil





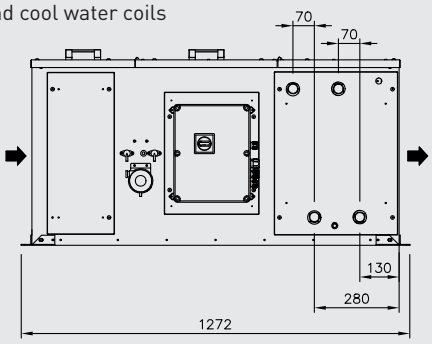


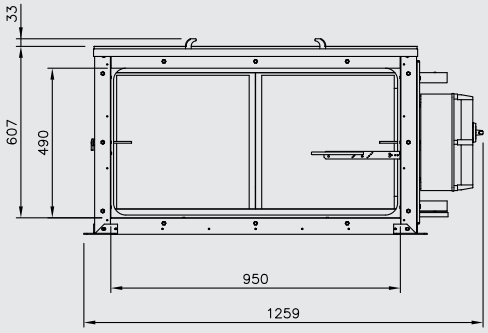
Support detail

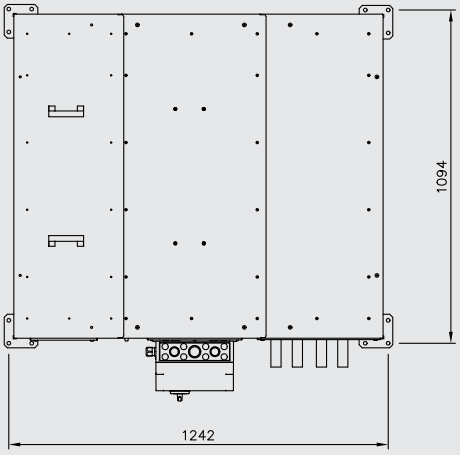


CAIT-50 H2 C4

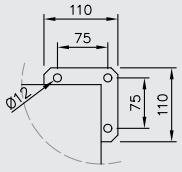
Version with hot and cool water coils







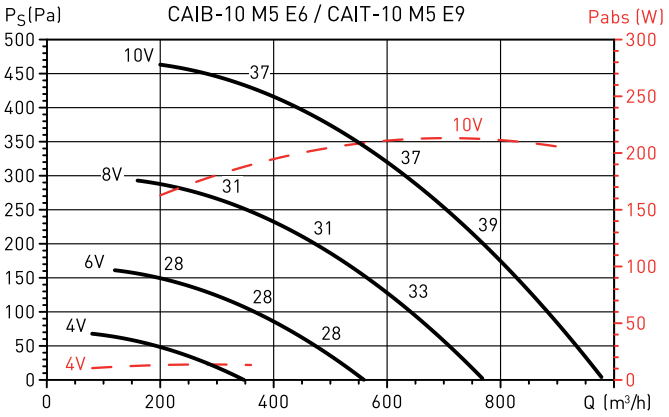
Support detail

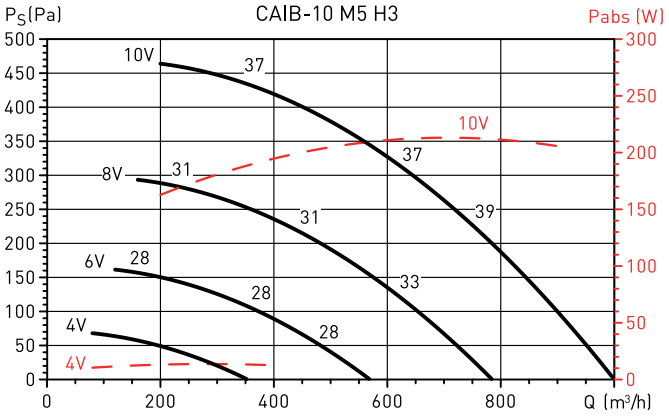


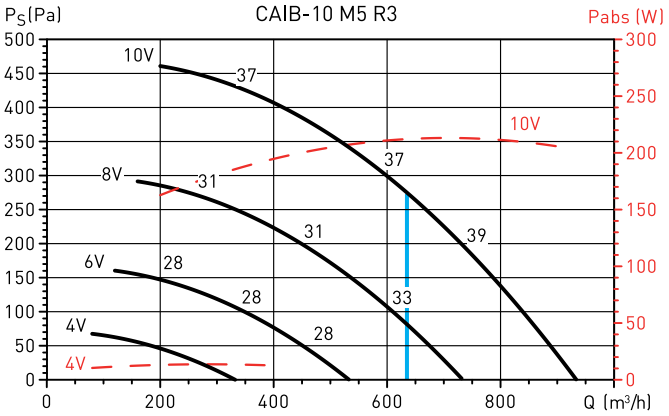
PERFORMANCE CURVES

- Q_v: Air volume in m^3/h and m^3/s.
- P_t: Total pressure in mmWG and Pa.
- Dry air at 20ºC 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).

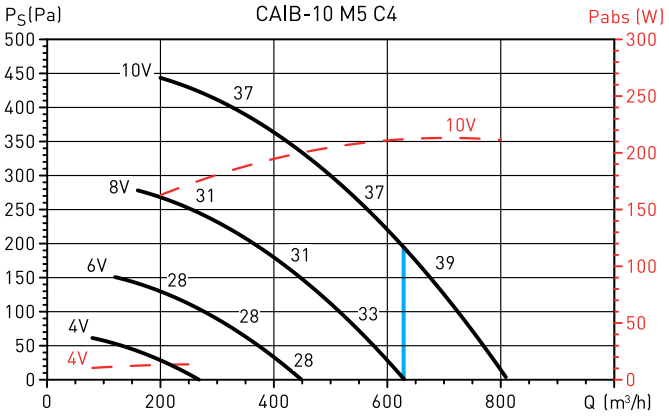
VERSIONS WITH SINGLE M5 FILTER (96mm)



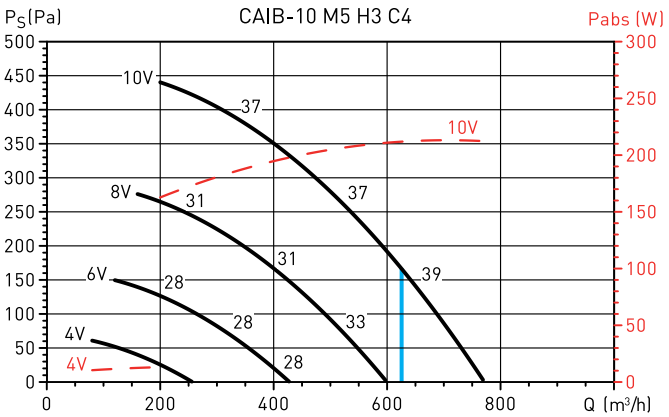




Recommended limit to avoid droplep drag.



Recommended limit to avoid droplep drag.



Recommended limit to avoid droplep drag.

PERFORMANCE CURVES

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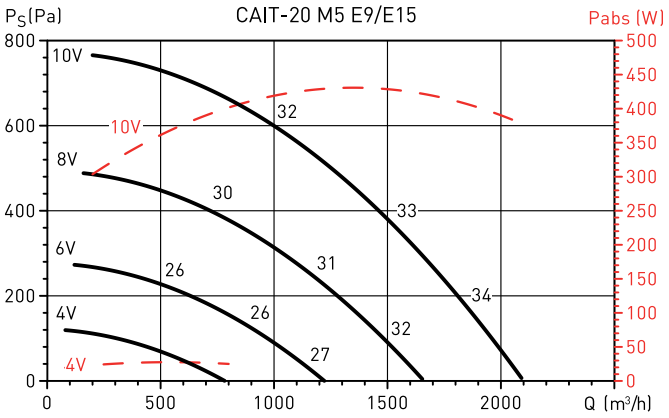
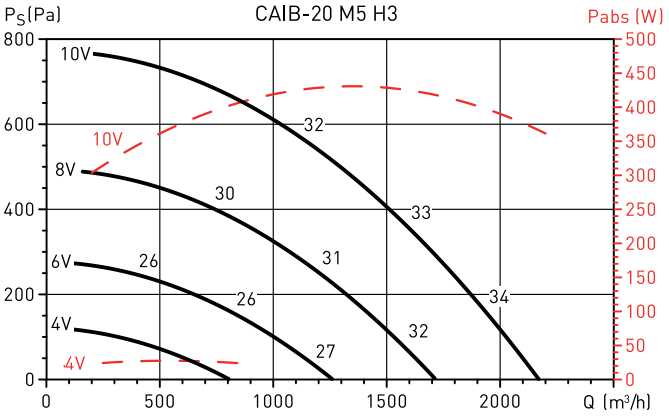
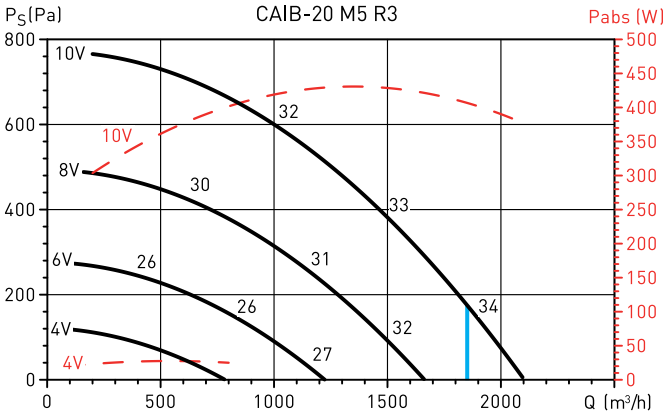
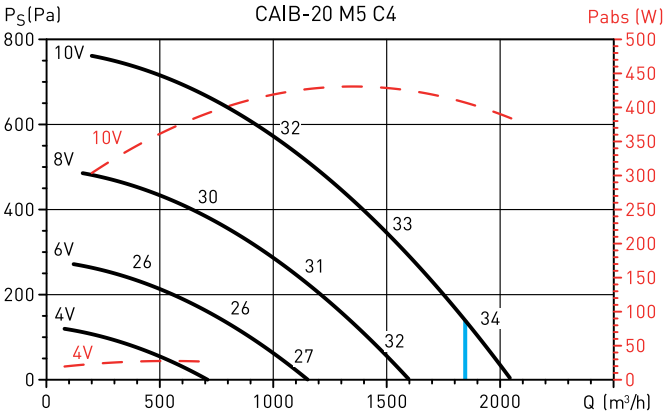
VERSIONS WITH SINGLE M5 FILTER (96mm)



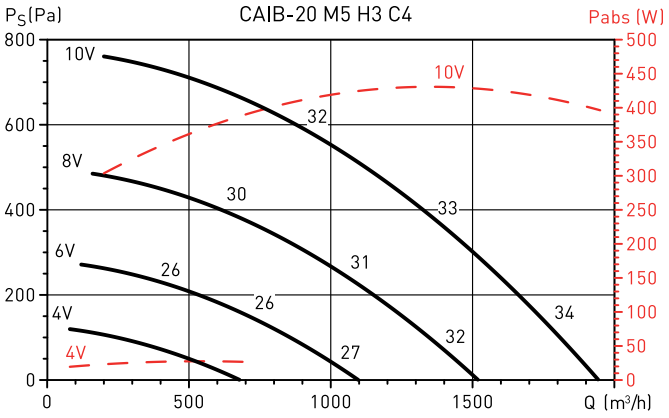




Recommended limit to avoid droplep drag.



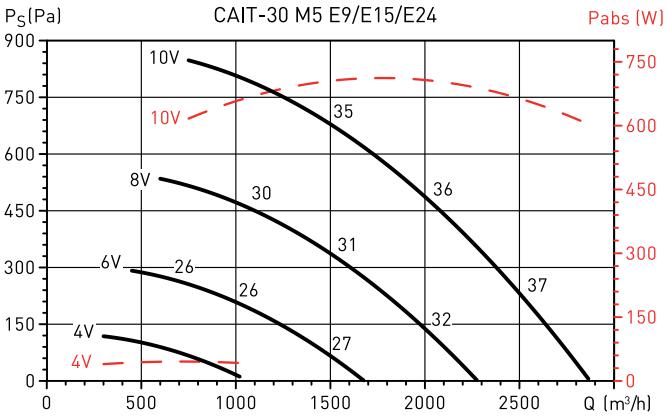
Recommended limit to avoid droplep drag.

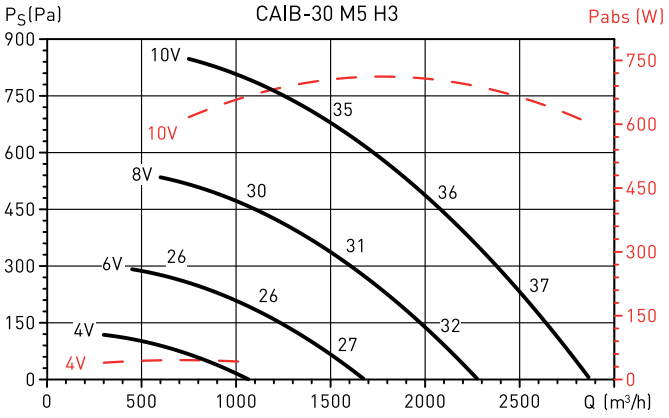


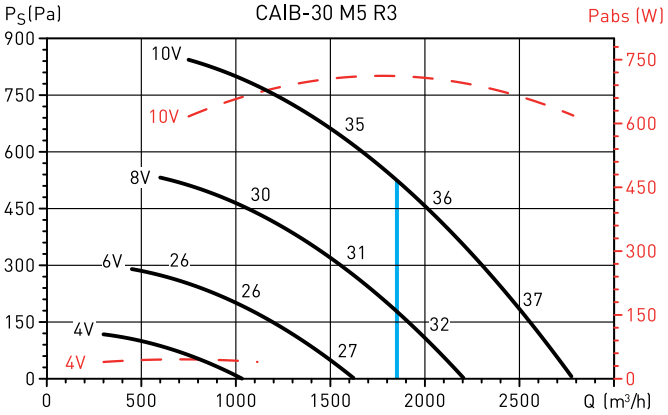
PERFORMANCE CURVES

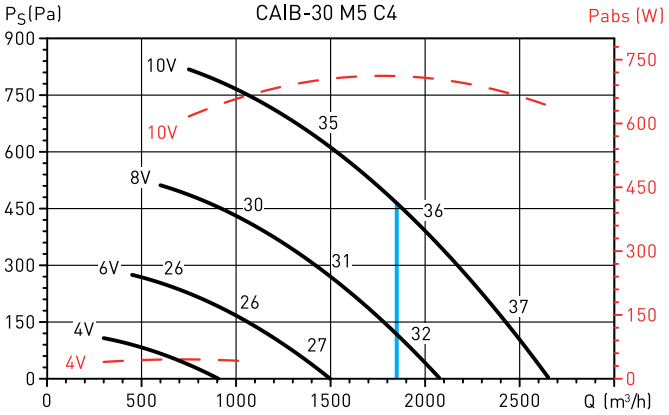
- Q_v: Air volume in m^3/h and m^3/s.
- P_t: Total pressure in mmWG and Pa.
- Dry air at 20ºC and 760 mmHg.
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.
- Break out pressure sound level in hemispherical free field, measured at 4 m, with outlet ducted Lp in dB (A).

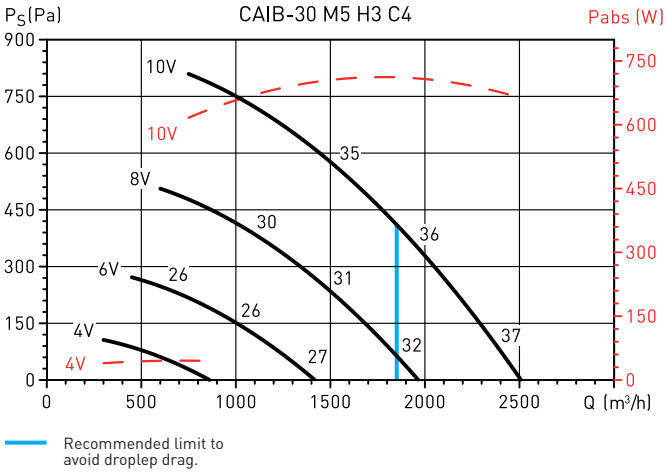
VERSIONS WITH SINGLE M5 FILTER (96mm)











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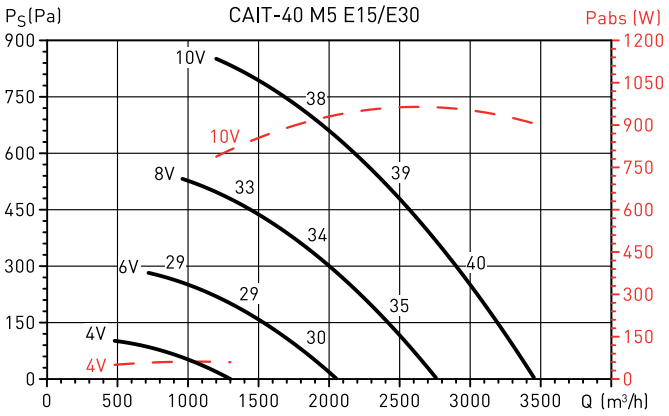
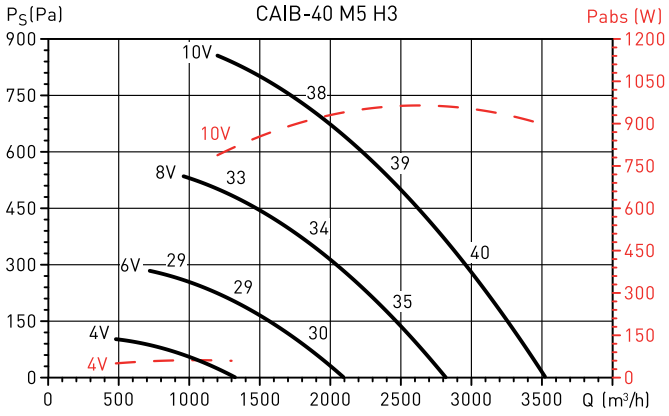
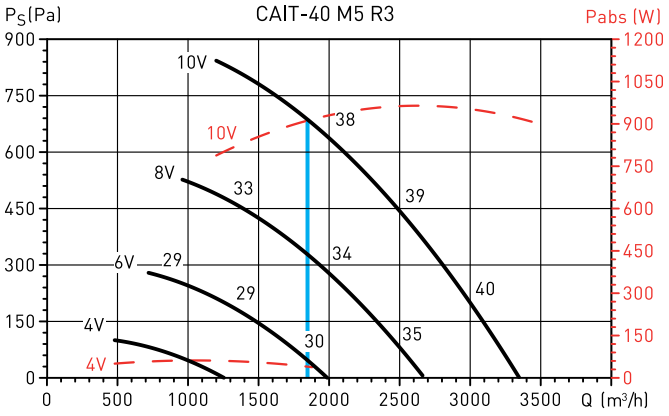
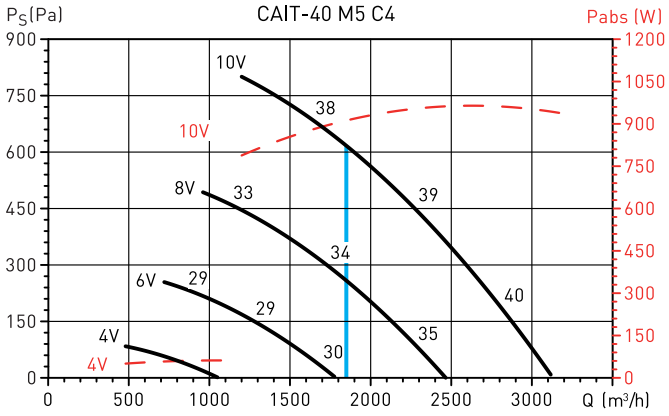


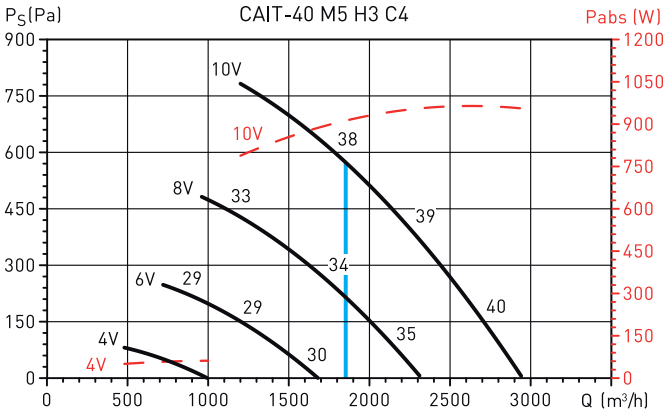




Recommended limit to avoid droplep drag.



Recommended limit to avoid droplep drag.



Recommended limit to avoid droplep drag.

PERFORMANCE CURVES

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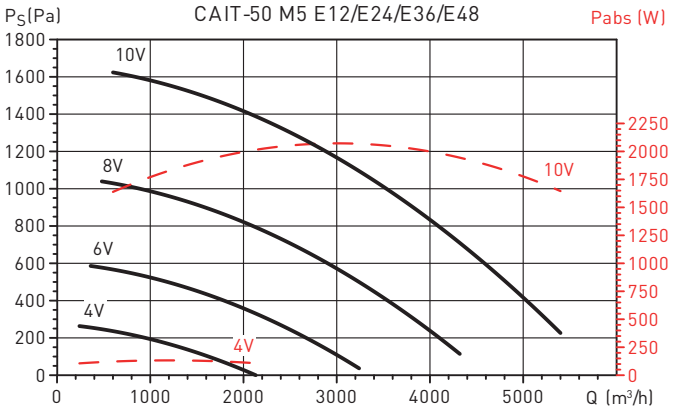
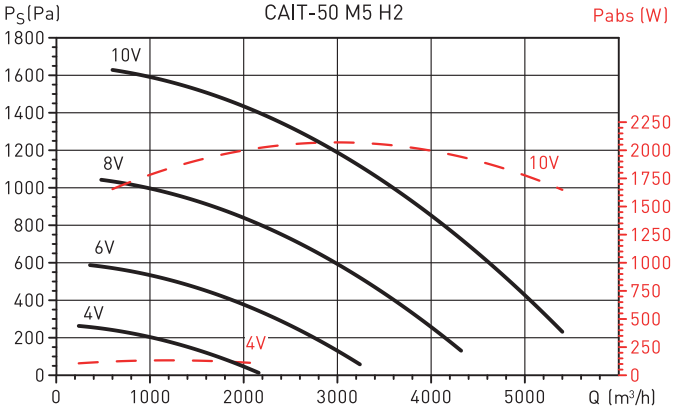
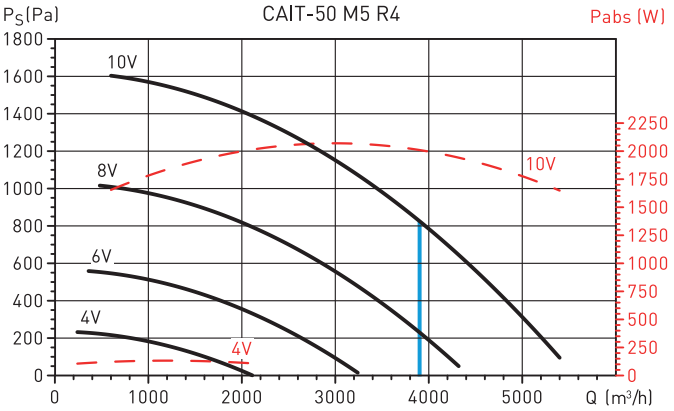
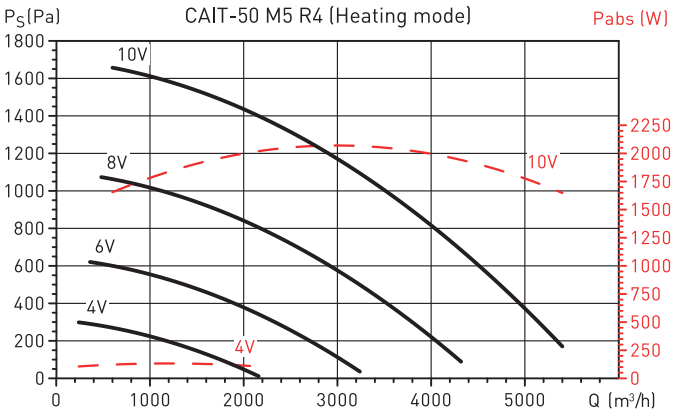
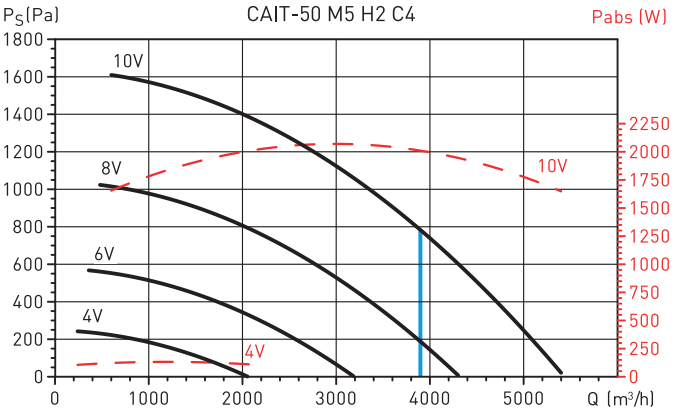








Recommended limit to avoid droplep drag.



Recommended limit to avoid droplep drag.

PERFORMANCE CURVES

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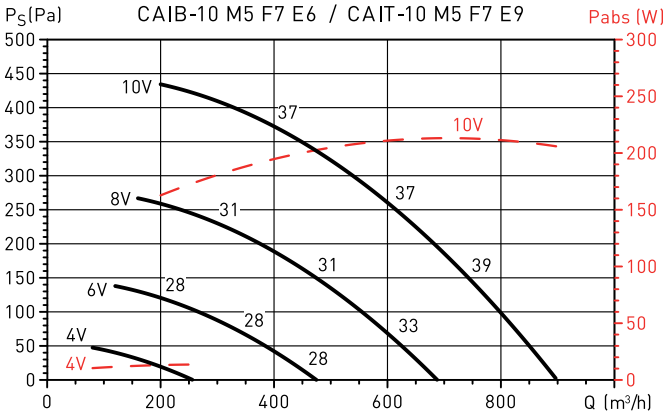
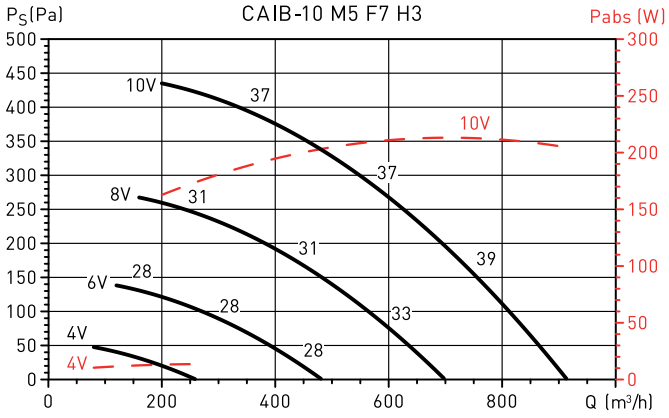
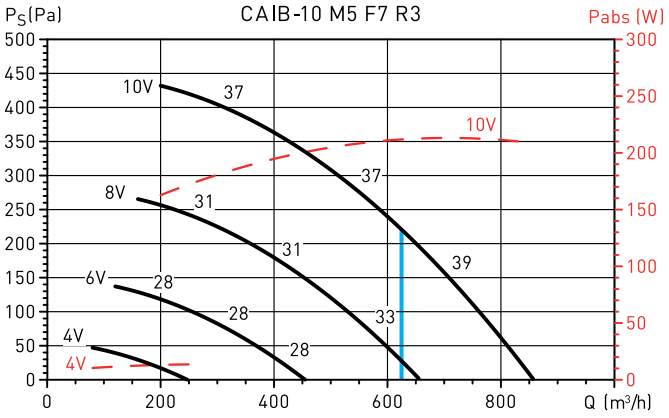
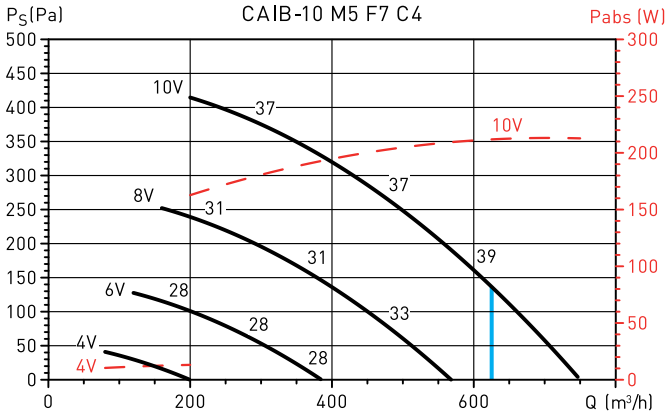
VERSIONS WITH DOUBLE FILTER M5+F7 (48+48mm)



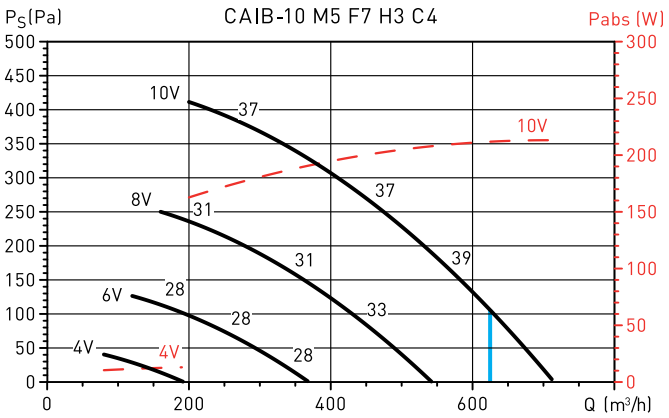




Recommended limit to avoid droplep drag.



Recommended limit to avoid droplep drag.



Recommended limit to avoid droplep drag.

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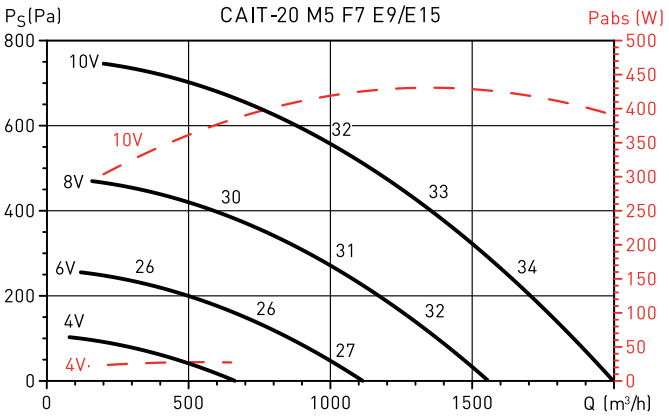
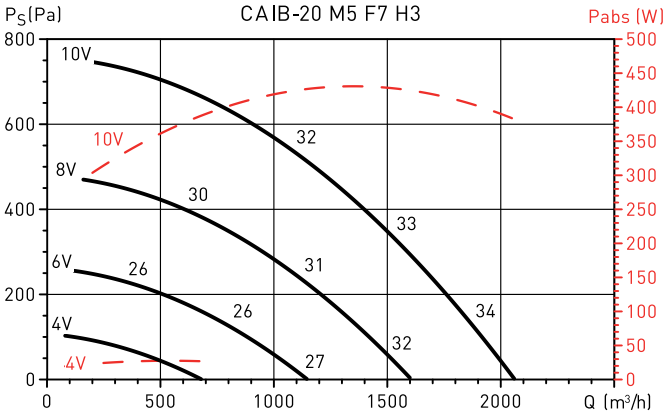
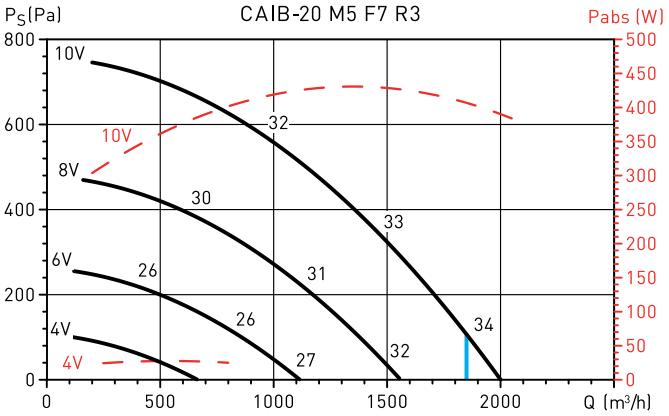
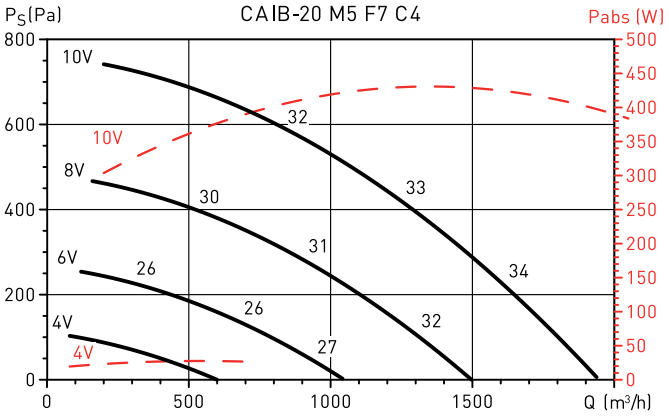
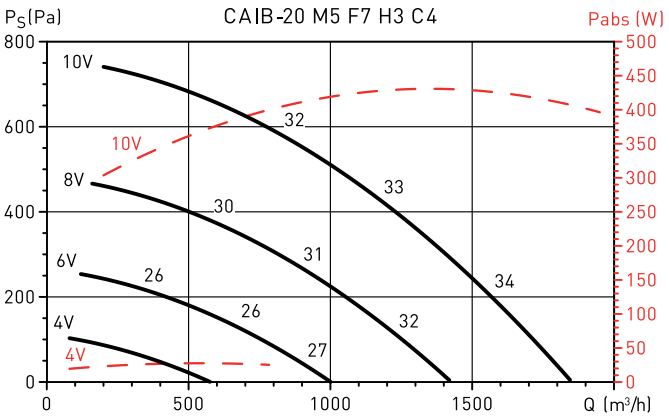






Recommended limit to avoid droplep drag.





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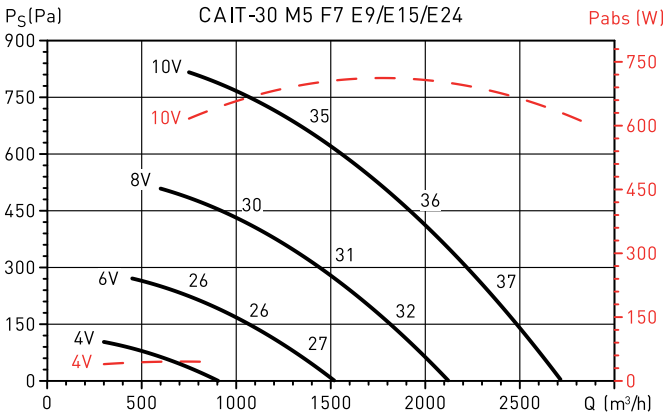

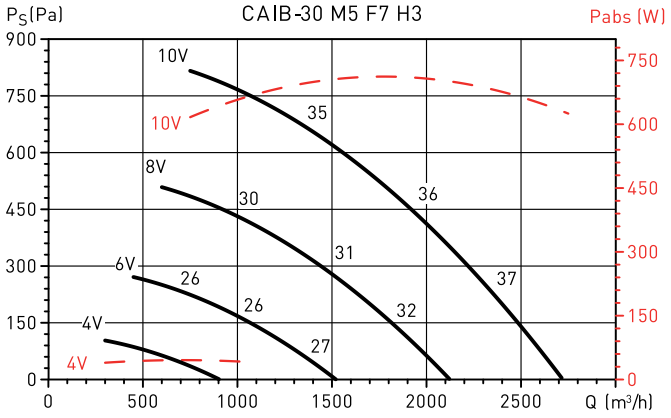

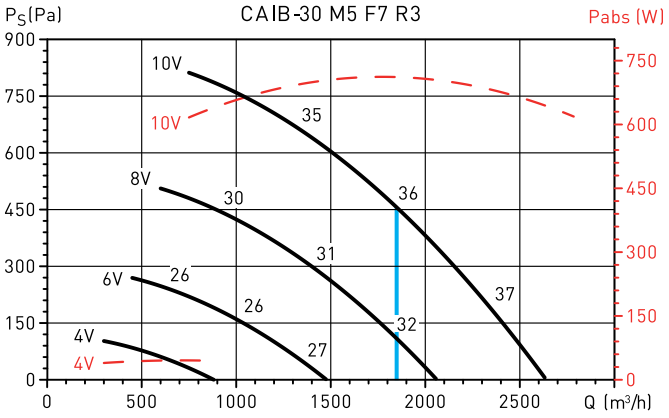

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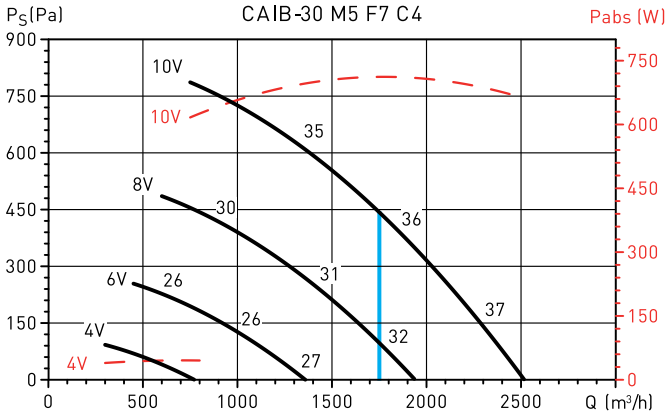

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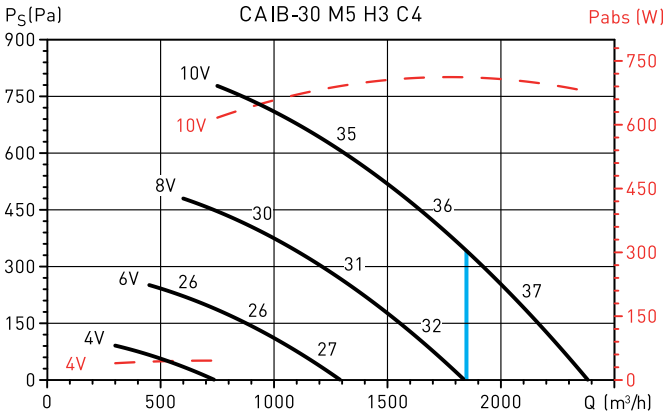

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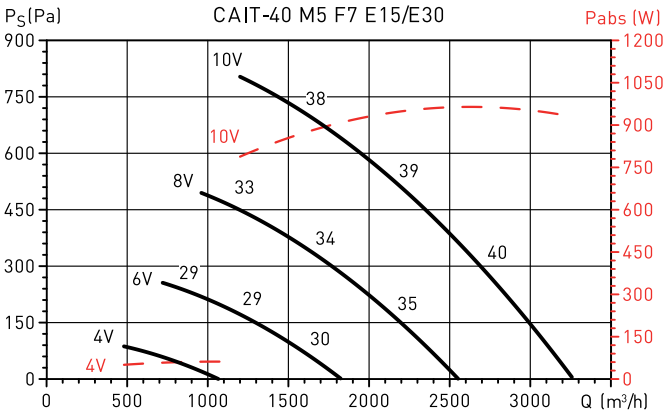

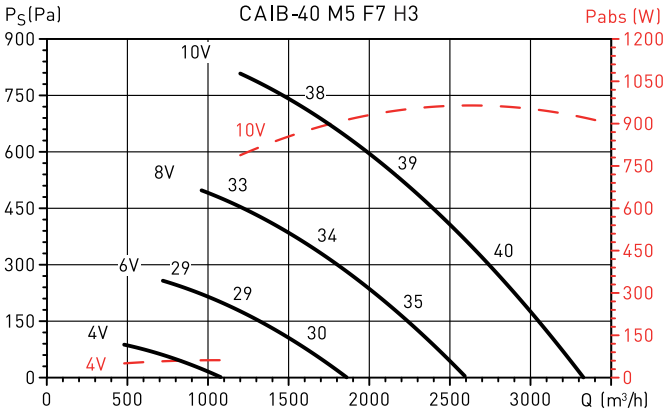

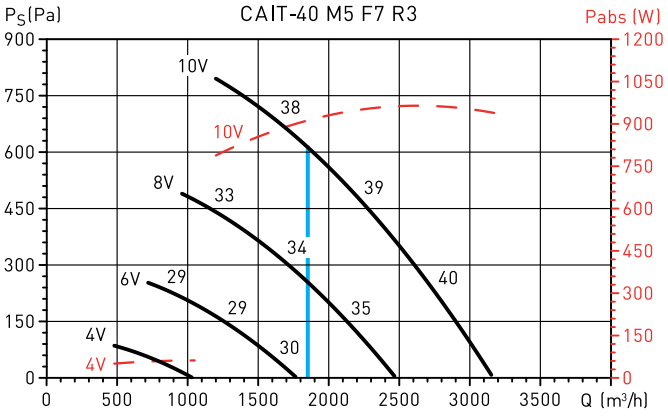

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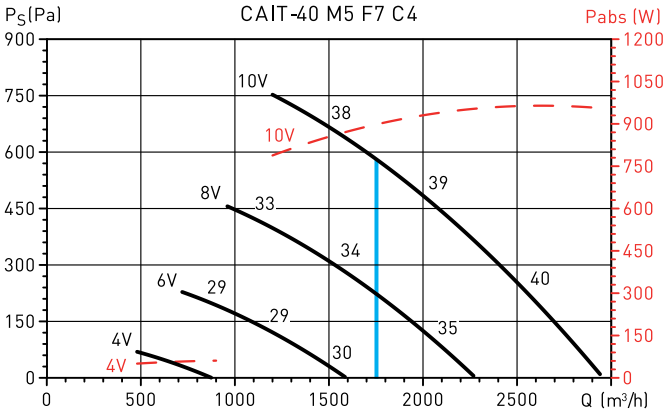

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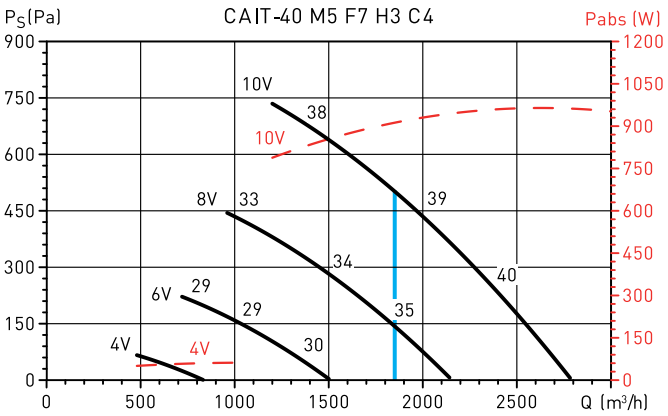

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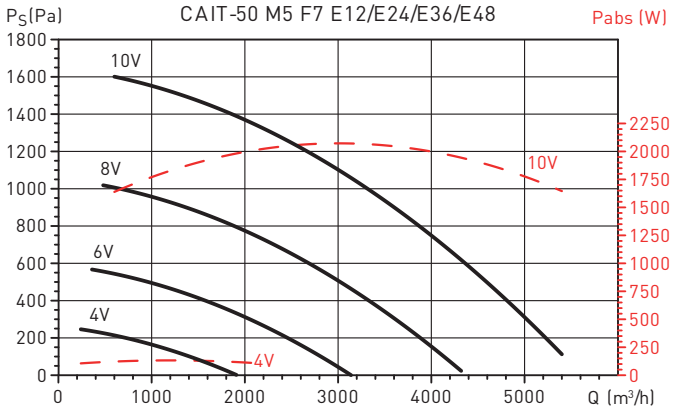

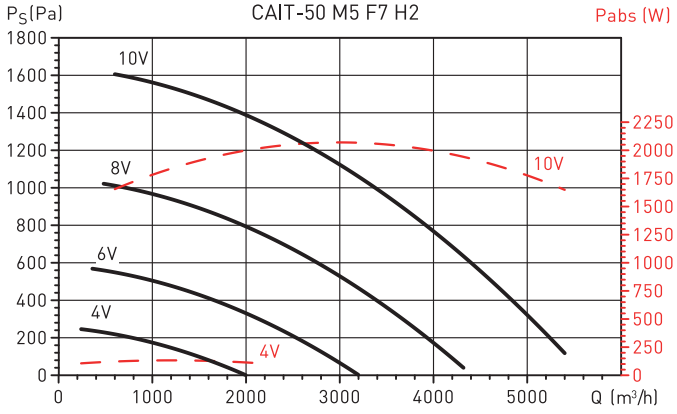

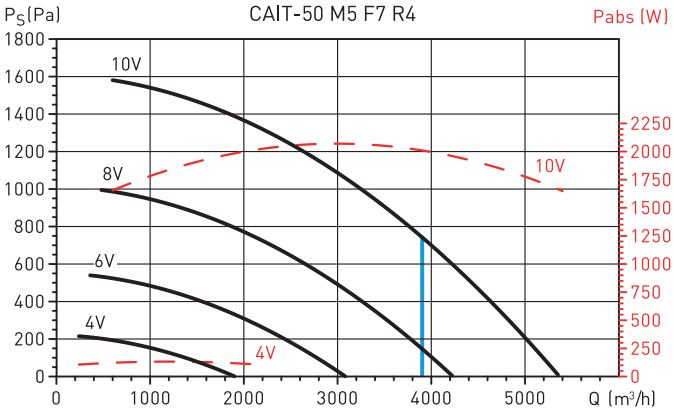

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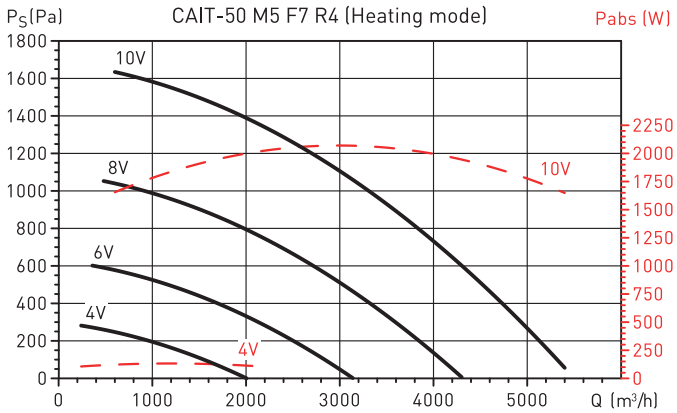
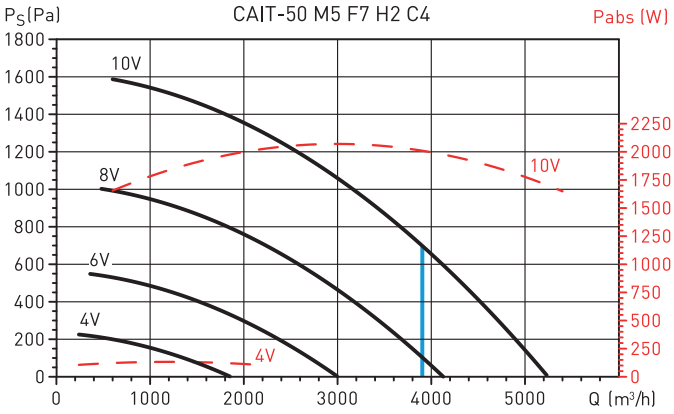




Recommended limit to avoid droplep drag.

TECHNICAL CHARACTERISTICS - HEATING COILS H2/H3 AND REVERSIBLE COILS R3/R4 IN HEATING MODE

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

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

Air inlet T° (°C)	CAIB/T-20/30/40 H3 - CAIB/T-20/30/40 R3											
	- 10°C			0°C			10°C			15°C		
Airflow (m³/h)	P (kW)	Air outlet Temp. (°C)	Water flow (l/h)	P (kW)	Air outlet Temp. (°C)	Water flow (l/h)	P (kW)	Air outlet Temp. (°C)	Water flow (l/h)	P (kW)	Air outlet Temp. (°C)	Water flow (l/h)
500	13,0	67	579	11,6	69	517	10,2	70	453	9,5	71	421
600	15,0	64	668	13,4	66	596	11,8	68	522	10,9	68	485
700	17,0	62	753	15,1	64	671	13,2	66	588	12,3	67	446
800	18,8	59	833	16,7	62	742	14,6	64	650	13,6	65	604
900	20,5	57	910	18,3	59	810	16,0	62	710	14,8	63	659
1000	21,4	54	943	19,0	56	838	16,6	59	732	15,4	61	679
1200	24,6	51	1085	21,8	54	963	19,1	57	841	17,7	59	779
1400	27,6	49	1217	24,5	52	1081	21,4	55	943	19,8	57	873
1600	30,4	47	1342	27,0	50	1191	23,6	54	1039	21,8	56	963
1800	133,1	45	1461	29,4	49	1296	25,6	52	1130	23,7	54	1047
2000	35,7	43	1575	31,7	47	1396	27,6	51	1217	25,6	53	1127
2200	38,2	42	1683	33,8	46	1492	29,5	50	1300	27,3	52	1203
2400	40,5	40	1786	35,9	44	1584	31,3	49	1380	29,0	51	1277
2600	42,8	39	1886	37,9	43	1672	33,0	48	1456	30,6	50	1348
2800	44,9	38	1982	39,8	42	1756	34,7	47	1530	32,1	49	1415
3000	47,1	37	2075	41,7	41	1839	36,3	46	1601	33,6	48	1481
3200	49,1	36	2164	43,5	40	1918	37,8	45	1669	35,0	48	1544
3400	51,0	35	2251	45,2	40	1994	39,3	44	1735	36,4	47	1605

TECHNICAL CHARACTERISTICS - HEATING COILS H2/H3 AND REVERSIBLE COILS R3/R4 IN HEATING MODE

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

Air inlet T° (°C)	CAIT-50 H2								
	-10°C / 90%			0°C / 90%			10°C / 90%		
Airflow (m³/h)	P (kW)	Air outlet Temp. (°C)	Water flow (l/h)	P (kW)	Air outlet Temp. (°C)	Water flow (l/h)	P (kW)	Air outlet Temp. (°C)	Water flow (l/h)
1800	34,77	47,15	1545,00	30,70	50,27	1363,00	26,61	53,27	1182,00
2000	37,50	45,47	1666,00	33,09	48,77	1470,00	28,68	51,97	1274,00
2200	40,12	43,95	1782,00	35,39	47,37	1572,00	30,66	50,78	1362,00
2400	42,63	42,57	1894,00	37,60	46,14	1670,00	32,56	49,71	1446,00
2600	45,07	41,29	2002,00	39,73	45,01	1765,00	34,39	48,72	1528,00
2800	47,42	40,12	2106,00	41,79	43,97	1856,00	36,16	47,81	1606,00
3000	49,69	39,02	2207,00	43,79	43,04	1945,00	37,87	46,97	1682,00
3200	51,90	38,00	2305,00	45,72	42,09	2030,50	39,53	46,18	1756,00
3400	54,05	37,04	2401,00	47,60	41,24	2114,50	41,15	45,44	1828,00
3600	56,13	36,15	2493,00	49,42	40,45	2195,00	42,71	44,75	1897,00
3800	58,16	35,30	2583,00	51,20	39,69	2274,00	44,24	44,08	1965,00
4000	60,14	34,50	2671,00	52,93	38,99	2351,00	45,72	43,48	2031,00
4200	62,07	33,74	2757,00	54,62	38,32	2426,00	47,17	42,89	2095,00
4400	63,95	33,02	2841,00	56,27	37,68	2499,50	48,58	42,33	2158,00
4600	65,79	32,33	2922,00	57,88	37,07	2570,50	49,96	41,81	2219,00
4800	67,59	31,68	3002,00	59,45	36,50	2640,50	51,31	41,31	2279,00
5000	69,35	31,05	3081,00	60,99	35,94	2709,50	52,63	40,83	2338,00
5200	71,08	30,46	3157,00	62,50	35,41	2776,00	53,92	40,36	2395,00
5400	72,77	29,89	3232,00	63,98	34,91	2841,50	55,18	39,92	2451,00
5600	74,42	29,34	3306,00	65,42	34,43	2906,00	56,42	39,51	2506,00

Air inlet T° (°C)	CAIT-50 R4														
	-10°C / 90%					0°C / 90%					10°C / 90 %				
Airflow (m³/h)	P (kW)	Air outlet Temp. (°C)	ΔP air (Pa)	Water flow (l/h)	ΔP water (kPa)	P (kW)	Air outlet Temp. (°C)	ΔP air (Pa)	Water flow (l/h)	ΔP water (kPa)	P (kW)	Air outlet Temp. (°C)	ΔP air (Pa)	Water flow (l/h)	ΔP water (kPa)
2000	52,49	67,55	22,70	2331,00	5,90	46,75	68,74	23,25	2076,00	5,60	41,00	69,93	23,80	1821,00	5,30
2200	56,51	65,91	26,80	2510,00	6,20	50,31	67,27	27,45	2234,50	5,85	44,11	68,63	28,10	1959,00	5,50
2400	60,44	64,43	31,30	2685,00	6,50	53,80	65,94	32,05	2390,00	6,05	47,16	67,45	32,80	2095,00	5,60
2600	64,22	63,00	36,00	2852,00	6,70	57,16	64,68	36,90	2538,50	6,25	50,09	66,36	37,80	2225,00	5,80
2800	67,92	61,71	41,00	3017,00	7,00	60,43	63,50	42,00	2684,00	6,50	52,93	65,28	43,00	2351,00	6,00
3000	71,51	60,47	46,30	3177,00	7,30	63,61	62,35	47,45	2825,50	6,70	55,70	64,23	48,60	2474,00	6,10
3200	75,02	59,32	51,90	3332,00	7,60	66,72	61,36	53,20	2963,50	6,95	58,42	63,40	54,50	2595,00	6,30
3400	78,44	58,23	57,70	3485,00	7,90	69,75	60,38	59,15	3098,50	7,20	61,06	62,53	60,60	2712,00	6,50
3600	81,78	57,17	63,80	3633,00	8,20	72,72	59,44	65,40	3230,00	7,45	63,65	61,71	67,00	2827,00	6,70
3800	85,05	56,19	70,20	37778,00	8,50	75,60	58,56	71,95	20358,00	7,70	66,14	60,92	73,70	2938,00	6,90
4000	88,24	55,24	76,80	3920,00	8,80	78,43	57,71	78,75	3484,00	7,90	68,61	60,18	80,70	3048,00	7,00
4200	91,37	54,34	83,70	4059,00	9,10	81,19	56,91	85,85	3606,50	8,15	71,01	59,47	88,00	3154,00	7,20
4400	94,44	53,48	90,80	4195,00	9,40	83,92	56,14	93,15	3727,50	8,40	73,39	58,80	95,50	3260,00	7,40
4600	97,45	52,66	98,20	4329,00	9,70	86,57	55,40	100,75	3845,50	8,65	75,69	58,13	103,30	3362,00	7,60
4800	100,36	51,85	105,80	4458,00	10,00	89,17	54,69	108,60	3961,00	8,90	77,98	57,53	111,40	3464,00	7,80
5000	103,27	51,09	113,70	4587,00	10,30	91,72	54,01	116,70	4074,00	9,15	80,17	56,92	119,70	3561,00	8,00
5200	106,10	50,36	121,80	4713,00	10,70	94,24	53,36	125,00	4186,00	9,45	82,37	56,36	128,20	3659,00	8,20
5400	108,89	49,65	130,10	4837,00	11,00	96,70	52,72	133,60	4295,50	9,70	84,51	55,79	137,10	3754,00	8,40
5600	111,62	48,96	138,70	4958,00	11,30	99,13	52,11	142,45	4403,00	9,95	86,63	55,26	146,20	3848,00	8,60

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

TECHNICAL CHARACTERISTICS – REVERSIBLE WATER COIL R3/R4 IN COOLING MODE

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

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

Air inlet Tº (ºC)	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 (m³/h)	P (kW)	Air outlet Temp. (°C)	Water flow (l/h)	P (kW)	Air outlet Temp. (°C)	Water flow (l/h)	P (kW)	Air outlet Temp. (°C)	Water flow (l/h)
500	1,82	15,01	312	2,09	16,25	359	3,71	17,92	638
600	2,02	15,58	348	2,31	16,81	397	4,29	18,36	737
700	2,21	16,06	379	2,58	17,05	444	4,77	18,82	821
800	2,38	16,45	409	2,89	17,20	496	5,24	19,21	890
900	2,53	16,81	435	3,36	17,18	576	5,64	19,61	969
1000	2,80	16,83	481	3,84	17,10	659	6,01	19,96	1033
1200	3,72	16,3	638	4,43	17,42	761	6,71	20,55	1153
1400	4,27	16,44	733	4,95	17,75	850	7,33	21,05	1260
1600	4,71	16,71	809	5,39	18,07	926	7,90	21,45	1358
1800	5,10	16,97	876	5,79	18,36	995	8,43	21,82	1449
2000	5,47	17,21	940	6,17	18,62	1060	8,94	22,13	1537
2200	5,81	17,43	998	6,87	18,49	1181	9,44	22,39	1622
2400	6,07	17,69	1044	7,18	18,78	1235	9,80	22,68	1684
2600	6,36	17,90	1093	7,54	18,99	1296	10,25	22,89	1761
2800	6,92	17,79	1190	7,87	19,19	1352	10,67	23,09	1834
3000	7,26	17,94	1248	8,19	19,38	1408	11,08	23,26	1904
3200	7,55	18,12	1298	8,49	19,55	1460	11,50	23,41	1977
3400	7,83	18,28	1346	8,79	19,71	1511	12,36	23,28	2124

TECHNICAL CHARACTERISTICS – REVERSIBLE WATER COIL R3/R4 IN COOLING MODE

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

Air inlet Tº (ºC)	CAIT-50 R4														
	25°C / 50%					27°C / 50%					32°C / 40%				
Airflow (m^3/h)	P (kW)	Air outlet Temp. (°C)	ΔP air (Pa)	Water flow (l/h)	ΔP water (kPa)	P (kW)	Air outlet Temp. (°C)	ΔP air (Pa)	Water flow (l/h)	ΔP water (kPa)	P (kW)	Air outlet Temp. (°C)	ΔP air (Pa)	Water flow (l/h)	ΔP water (kPa)
1800	5,89	15,68	25,00	1011,00	4,60	6,94	16,61	30,90	1190,00	4,70	9,10	18,13	31,10	1562,00	5,10
2000	6,21	16,04	29,90	1066,00	4,70	7,31	16,94	36,70	1254,00	4,80	9,63	18,63	37,25	1652,00	5,30
2200	6,52	16,37	35,20	1118,00	4,70	7,65	17,34	38,90	1313,00	4,80	10,91	18,31	43,40	1872,00	5,60
2400	6,80	16,75	36,20	1167,00	4,70	7,99	17,67	41,10	1370,00	4,90	14,55	16,89	58,60	2496,00	6,60
2600	7,08	17,07	37,30	1215,00	4,80	8,30	17,97	47,10	1424,00	4,90	15,93	16,89	66,70	2733,00	7,00
2800	7,34	17,36	42,50	1260,00	4,80	8,58	18,25	53,50	1473,00	4,90	16,94	17,06	75,30	2907,00	7,40
3000	7,59	17,63	48,10	1303,00	4,80	8,86	18,50	60,20	1520,00	5,10	17,82	17,26	84,20	3058,00	7,70
3200	7,82	17,88	54,00	1342,00	4,80	9,12	18,74	67,20	1564,00	5,10	18,66	17,46	93,50	3201,00	8,00
3400	8,05	18,11	60,10	1381,00	4,90	9,29	19,06	82,10	1594,00	5,20	19,45	17,66	103,10	3337,00	8,30
3600	8,25	18,32	66,60	1416,00	4,90	13,86	16,91	97,00	2378,00	6,40	20,18	17,87	113,10	3462,00	8,60
3800	8,45	18,52	73,30	1450,00	4,90	14,93	16,83	106,10	2562,00	6,70	20,89	18,05	123,50	3583,00	8,90
4000	8,65	18,71	80,30	1483,00	5,00	15,65	16,89	115,50	2686,00	6,90	21,56	18,23	134,20	3698,00	9,10
4200	8,83	18,88	87,70	1514,00	5,00	16,49	16,90	125,30	2829,00	7,20	22,21	18,41	145,30	3810,00	9,40
4400	9,00	19,04	95,20	1544,00	5,10	17,11	16,99	135,30	2938,00	7,40	22,84	18,58	156,70	3918,00	9,70

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: 7/12ºC
For different water temperatures see the chart at the bottom of the page.

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

Air inlet Tº (ºC)	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 (m³/h)	P (kW)	Air outlet Temp. (°C)	Water flow (l/h)	P (kW)	Air outlet Temp. (°C)	Water flow (l/h)	P (kW)	Air outlet Temp. (°C)	Water flow (l/h)
500	2,77	12,36	475	3,4	12,94	584	5,38	14,08	924
600	3,24	12,58	557	3,95	13,26	679	6,25	14,53	1074
700	3,68	12,82	631	4,47	13,54	768	7,09	14,91	1218
800	4,08	13,06	701	4,97	13,79	854	7,9	15,23	1358
900	4,47	13,28	767	5,44	14,04	935	8,66	15,56	1488
1000	4,85	13,45	834	5,98	14,12	1027	9,41	15,84	1617
1100	5,22	13,63	897	6,43	14,32	1104	10,13	16,1	1740
1200	5,57	13,8	957	6,86	14,51	1178	10,82	16,35	1859
1300	5,9	13,96	1014	7,26	14,7	1247	11,49	16,58	1974
1400	6,23	14,11	1070	7,68	14,86	1319	12,13	16,79	2084
1500	6,54	14,25	1124	8,08	15,01	1388	12,75	17	2192
1600	6,86	14,37	1178	8,45	15,16	1452	13,38	17,18	2299
1700	7,15	14,5	1228	8,81	15,31	1514	13,96	17,37	2399
1800	7,49	14,56	1287	9,18	15,45	1577	14,55	17,53	2500
1900	7,78	14,69	1336	9,53	15,57	168	15,12	17,69	2599
2000	8,08	14,79	1338	9,88	15,69	1697	15,66	17,86	2692

TECHNICAL CHARACTERISTICS - COLD WATER COIL C4

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

Air inlet Tº (ºC)	CAIT-50 C4														
	25°C / 50%					27°C / 50%					32°C / 40%				
Airflow (m^3/h)	P (kW)	Air outlet Temp. (°C)	ΔP air (Pa)	Water flow (l/h)	ΔP water (kPa)	P (kW)	Air outlet Temp. (°C)	ΔP air (Pa)	Water flow (l/h)	ΔP water (kPa)	P (kW)	Air outlet Temp. (°C)	ΔP air (Pa)	Water flow (l/h)	ΔP water (kPa)
1800	5,89	15,68	25,00	1011,00	4,60	6,94	16,61	30,90	1190,00	4,70	9,10	18,13	31,10	1562,00	5,10
2000	6,21	16,04	29,90	1066,00	4,70	7,31	16,94	36,70	1254,00	4,80	9,63	18,63	37,25	1652,00	5,30
2200	6,52	16,37	35,20	1118,00	4,70	7,65	17,34	38,90	1313,00	4,80	10,91	18,31	43,40	1872,00	5,60
2400	6,80	16,75	36,20	1167,00	4,70	7,99	17,67	41,10	1370,00	4,90	14,55	16,89	58,60	2496,00	6,60
2600	7,08	17,07	37,30	1215,00	4,80	8,30	17,97	47,10	1424,00	4,90	15,93	16,89	66,70	2733,00	7,00
2800	7,34	17,36	42,50	1260,00	4,80	8,58	18,25	53,50	1473,00	4,90	16,94	17,06	75,30	2907,00	7,40
3000	7,59	17,63	48,10	1303,00	4,80	8,86	18,50	60,20	1520,00	5,10	17,82	17,26	84,20	3058,00	7,70
3200	7,82	17,88	54,00	1342,00	4,80	9,12	18,74	67,20	1564,00	5,10	18,66	17,46	93,50	3201,00	8,00
3400	8,05	18,11	60,10	1381,00	4,90	9,29	19,06	82,10	1594,00	5,20	19,45	17,66	103,10	3337,00	8,30
3600	8,25	18,32	66,60	1416,00	4,90	13,86	16,91	97,00	2378,00	6,40	20,18	17,87	113,10	3462,00	8,60
3800	8,45	18,52	73,30	1450,00	4,90	14,93	16,83	106,10	2562,00	6,70	20,89	18,05	123,50	3583,00	8,90
4000	8,65	18,71	80,30	1483,00	5,00	15,65	16,89	115,50	2686,00	6,90	21,56	18,23	134,20	3698,00	9,10
4200	8,83	18,88	87,70	1514,00	5,00	16,49	16,90	125,30	2829,00	7,20	22,21	18,41	145,30	3810,00	9,40
4400	9,00	19,04	95,20	1544,00	5,10	17,11	16,99	135,30	2938,00	7,40	22,84	18,58	156,70	3918,00	9,70

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

Sound power levels in dB(A).

Model	Regulation	Sound power (Lw (A))			
CAIB/T-10	10 V	**Airflow (m³/h)**	**300**	**500**	**700**
		Inlet	70	70	73
		Outlet	76	77	77
		Radiated	57	57	59
	8 V	**Airflow (m³/h)**	**240**	**400**	**560**
		Inlet	65	65	68
		Outlet	71	72	72
		Radiated	51	51	53
	6 V	**Airflow (m³/h)**	**150**	**250**	**350**
		Inlet	60	60	60
		Outlet	65	65	66
		Radiated	48	48	48

Model	Regulation	Sound power (Lw (A))			
CAIB/T-20	10 V	**Airflow (m³/h)**	**1000**	**1400**	**1800**
		Inlet	69	70	70
		Outlet	74	76	76
		Radiated	52	53	54
	8 V	**Airflow (m³/h)**	**800**	**1120**	**1440**
		Inlet	64	65	65
		Outlet	69	71	71
		Radiated	50	51	52
	6 V	**Airflow (m³/h)**	**500**	**700**	**900**
		Inlet	57	57	58
		Outlet	61	62	62
		Radiated	46	46	47

Model	Regulation	Sound power (Lw (A))			
CAIB/T-30	10 V	**Airflow (m³/h)**	**1500**	**2000**	**2500**
		Inlet	72	73	73
		Outlet	77	79	79
		Radiated	55	56	57
	8 V	**Airflow (m³/h)**	**1200**	**1600**	**2000**
		Inlet	67	68	68
		Outlet	72	74	74
		Radiated	50	51	52
	6 V	**Airflow (m³/h)**	**750**	**1000**	**1750**
		Inlet	60	60	61
		Outlet	64	65	65
		Radiated	46	46	47

ACOUSTIC CHARACTERISTICS

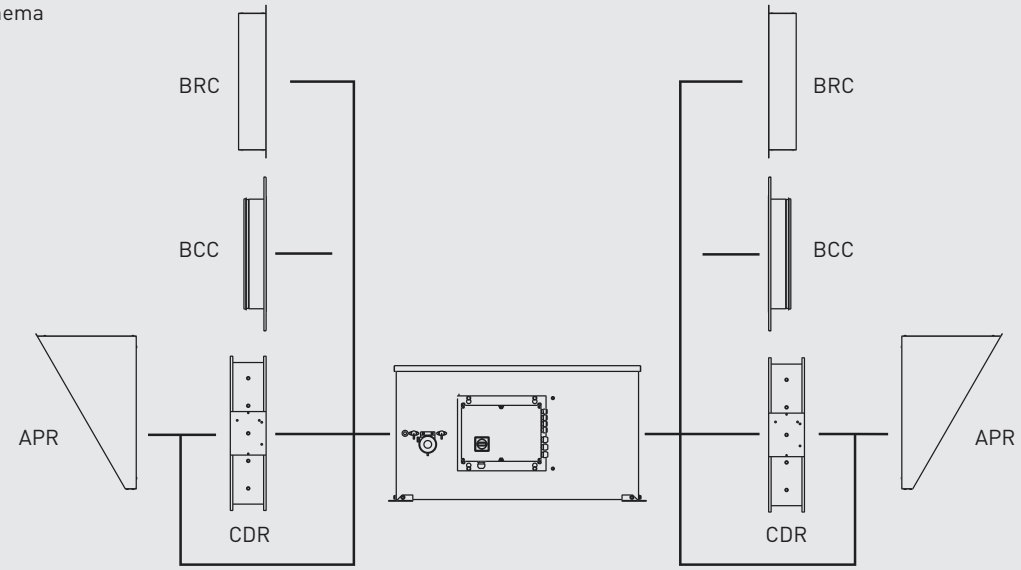
Sound power levels in dB(A).

Model	Regulation	Sound power Lw (A)			
CAIB/T-40	10 V	**Airflow (m³/h)**	**1500**	**2500**	**3000**
		Inlet	75	76	76
		Outlet	81	83	83
		Radiated	58	59	60
	8 V	**Airflow (m³/h)**	**1200**	**2000**	**2400**
		Inlet	70	71	71
		Outlet	76	78	78
		Radiated	53	54	55
	6 V	**Airflow (m³/h)**	**750**	**1250**	**1500**
		Inlet	63	63	64
		Outlet	68	69	69
		Radiated	49	49	50

Model	Regulation	Sound power Lw (A)			
CAIT-50	10 V	**Airflow (m³/h)**	**2000**	**3750**	**5000**
		Inlet	84	81	84
		Outlet	88	85	87
		Radiated	65	57	59
	8 V	**Airflow (m³/h)**	**1600**	**3000**	**4000**
		Inlet	80	76	79
		Outlet	83	80	82
		Radiated	60	53	54
	6 V	**Airflow (m³/h)**	**1200**	**2250**	**3000**
		Inlet	73	70	73
		Outlet	77	74	76
		Radiated	54	46	47

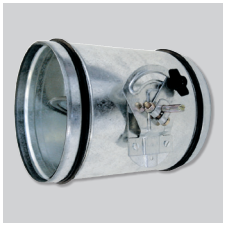
MOUNTING ACCESSORIES

Accessories schema



BRC: Rectangular flange.
BCC: Conversor from rectangular to circular spigot.
APR: Rain cap with protection cowl.
CDR: Motorized damper for antifreeze or fire.

LF-24 S
Motor for the defrost damper.



REEV 250/355/400
Defrost damper.

MSCE
Rectangular flexible conector.

Filter
G4, M5 and F7 filters available.

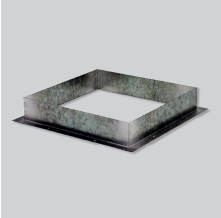
CDR
Rectangular isolation damper.

Model CAIB/T	Rectangular protection guard	Rectangular flexible connector	Rectangular flange	Rectangular damper	Conversor from rectangular to circular
CAIB/T-10	APR CAIB-10	MSCE 438x308 M0	BRC CAIB-10	CDR-100F 478x343	BCC-250 CAIB-10
CAIB/T-20/30/40	APR CAIB-20/30/40	MSCE 588x537 M0	BRC CAIB-20/30/40	CDR-100F 628x577	BCC-355 CAIB-20
					BCC-400 CAIB-30/40
CAIT-50	APR CAIT-50	MSCE 970x500 M0	BRC CAIT-50	CDR 100F 950x510	BCC-560 CAIT-50

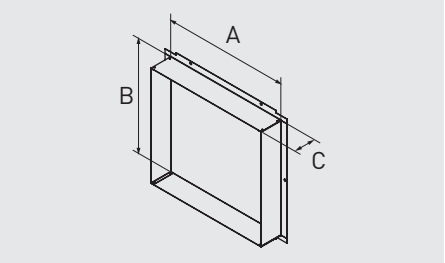
FILTERS

Model CAIT	Version with 1 single filter			Version with 2 filters					
	M5			Prefilter M5			Final filter F7		
	Reference	Filter dimension	Units of AFR for each CAIT	Reference	Filter dimension	Units of AFR for each CAIT	Reference	Filter dimension	Units of AFR for each CAIT
CAIB/T-10	AFR CAIB-10 M5	390x265x96	1	AFR CAIB-10 M5-PRE	390x265x48	1	AFR CAIB-10 F7-POST	390x265x48	1
CAIB/T-20/30/40	AFR CAIB-20/30/40 M5	541x495x96	1	AFR CAIB-20/30/40 M5-PRE	541x495x48	1	AFR CAIB-20/30/40 F7-POST	541x495x48	1
CAIT-50	AFR CAIT-50 M5	473x494x96	2	AFR CAIT-50 M5-PRE	473x494x48	2	AFR CAIT-50 F7-POST	473x494x48	2

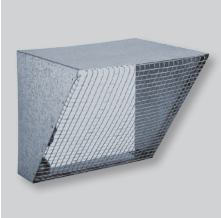
MOUNTING ACCESSORIES



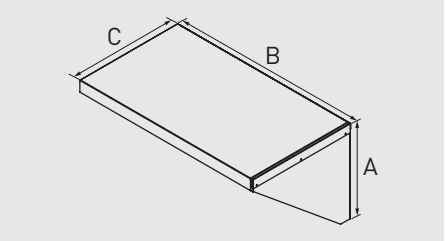
BRC
Rectangular flange.



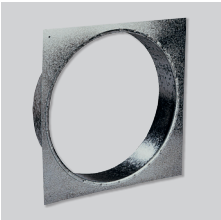
Dimensions	A (mm)	B (mm)	C (mm)
CAIB/T-10	396	266	98
CAIB/T-20/30/40	546	495	98
CAIT-50	965	470	130



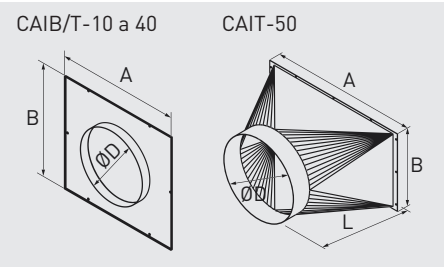
APR
Rectangular protection guard. Rain cap with protection cowl against birds.



Dimensions	A (mm)	B (mm)	C (mm)
CAIB/T-10	336	438	231
CAIB/T-20/30/40	564	588	365
CAIT-50	514	1067	609



BCC
Conversor from rectangular to circular flange.



Model	A (mm)	B (mm)	ØD (mm)	L (mm)
CAIB/T-10	458	328	250	–
CAIB/T-20	610	559	355	–
CAIB/T-30-40	610	559	400	–
CAIT-50	1020	536	560	600

Accessories in combination with BCC conversor

Model	Diameter after installation of BCC conversor	Protection guard	Silencer	Flexible connector	Isolation damper	Actuator 24V
CAIB/T-10	250	APC-250	SIL-250	ACOPEL F400-250/160 N	REEV 250	LF 24 S
CAIB/T-20	355	APC-355	SIL-355	ACOPEL F400-355/160 N	REEV 355	
CAIB/T-30/40	400	APC-400	SIL-400	ACOPEL F400-400/160 N	REEV 400	
CAIT-50	560	APC-560	SIL-560	ACOPEL F400-560/160 N	REEV 560	

ELECTRICAL ACCESSORIES

BCCA 2V
Control box 2 speeds

CVF
Remote control ON/OFF + potentio-meter

SCO2-G
CO_2 sensor for the duct.

SCO2 A
Ambient Sensor

SCO2
Ambient sensor that optimizes the energy of the ventilation system

TGR
Room Sensor

SHUR
Humidity sensor

SPRD B
Pressure sensor.