CATALOG **2015**

VENTILATION and THERMOS

cata

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VENTILATION and THERMOS

CATA WORLDWIDE
In over 80 countries

Manufacturer of extractor fans, Cata was founded in Torelló in 1947. Since then, it has been a pioneer in extraction.

Its extensive product catalogue includes the most complete and innovative range of Domestic and Professional Extraction.

Based in Torelló, in the province of Barcelona, Cata also owns factories in Sao Paulo (Brazil) and Xiao Lan (China) and is in constant international expansion thanks to its team of professionals committed to the manufacture and marketing of an extensive range of products.

Cata has reached its position as leader in the extraction market thanks to its great capacity to innovate and its ability to anticipate market needs. Over recent years, it has undergone significant growth in both the Spanish and international markets, based on excellent quality and a high degree of competitiveness in all its products.

Cata's commitment to quality has been borne out by the highest certification, ISO 9001, awarded by the Bureau Veritas Quality International and accredited by the Dutch Council for Accreditation. These international standards ensure a maximum level of quality in the design and manufacture of all products. Likewise, Cata products respond to technical and safety regulations and have been obtained the European approvals of the C. C. A. (Cenelec Certificate Agreement). As a result, Cata is currently one of the leading extraction companies in the world.

COMPREHENSIVE VENTILATION SOLUTIONS

WHAT WE OFFER

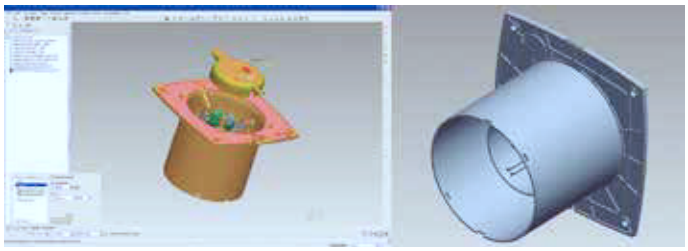
Integral ventilation solutions. Reliability, Quality, Innovation and Design. Proven experience in ventilation. International industrial capacity. Global service. And most importantly to our customers: **BENEFITS AND ADVANTAGES**

COMPREHENSIVE VENTILATION SOLUTIONS:

CATA provides subscribers, wholesalers and professionals from the sector an extensive product range, which will allow them to choose the most suitable model for every ventilation case or need, at both domestic and industrial level, and now also **models and ranges to comply with the Technical Building Code (CTE), in accordance with Royal Decree 314/2006, dated 17th March 2006.**

RELIABILITY, QUALITY, INNOVATION AND DESIGN

These concepts are basic and mandatory for **CATA** and are the main basis for all our products. For this reason, a qualified team of engineers assisted by the most modern design systems work to ensure the highest levels of quality and innovation to offer highly reliable ventilation products manufactured according to the **ISO 9001/2000 standard Management System**.



PROVEN EXPERIENCE IN VENTILATION

A pioneer in the manufacturing of fans, **CATA** has over 60 years' experience in ventilation, strengthening its position as a world leader thanks to the export of proprietary technology and differentiated products.

INTERNATIONAL INDUSTRIAL CAPACITY

CATA has a very important industrial asset, with several production centres around the world equipped with the most modern technology and machinery to be able to offer efficient and competitive distribution of our products and components.

GLOBAL SERVICE

CATA has a multicultural team with a high level of training and a clear customer care and service orientation. In addition, to offer a better service, we have logistics and distribution centres and subsidiaries around the world.

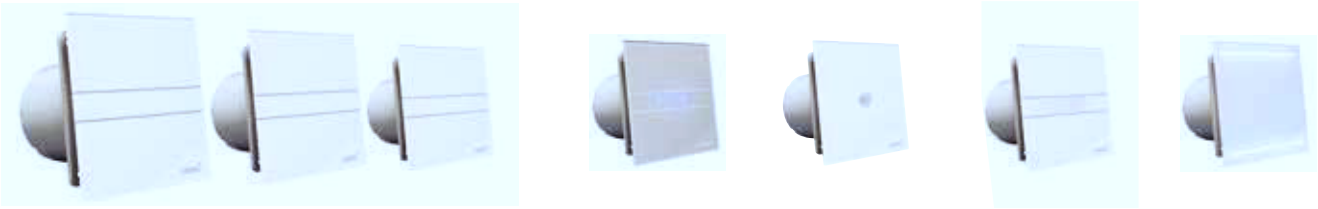
AND MOST IMPORTANTLY TO OUR CUSTOMERS: BENEFITS AND ADVANTAGES

These are the main aims that the **CATA Ventilation Division** wishes to offer the distributors, customers and professionals in the sector. For this reason, we work and renew our efforts daily to ensure that these objectives are possible.

AXIAL BATHROOM FANS

E GLASS SERIES. Energy-efficient. Low-noise

E - p.8-9



MATIC SERIES

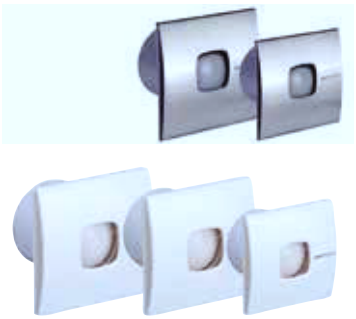
X-MART Matic - p. 10

B-Matic - p. 11

DESIGN SERIES

X-MART - p. 12

SILENTIS - p. 13



CLASIC SERIES

B-Plus - p. 14

B - p. 15

B-Pir - p. 15

CENTRIFUGAL BATHROOM FANS

CB 100 PLUS - p. 16

CB-250 PLUS - p. 16

IN-LINE DUCT FANS

Professional Series

Duct in line - p. 17

Box in line - p. 18

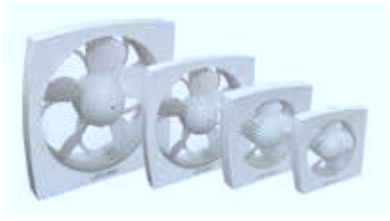
Axial

MT - p. 19

Kit in Line - p. 19

WALL FANS

LHV - p. 20



B - p. 21

KITCHEN EXTRACTION

Professional 750 / 500- p. 22

600 PLUS 2V / GS 600 - p. 23

GS 400M / GS 400 P - p. 23

DOMESTIC VENTILATION ACCESSORIES

Accessories - p. 24-25

Fixed Grill

Grill on pressure

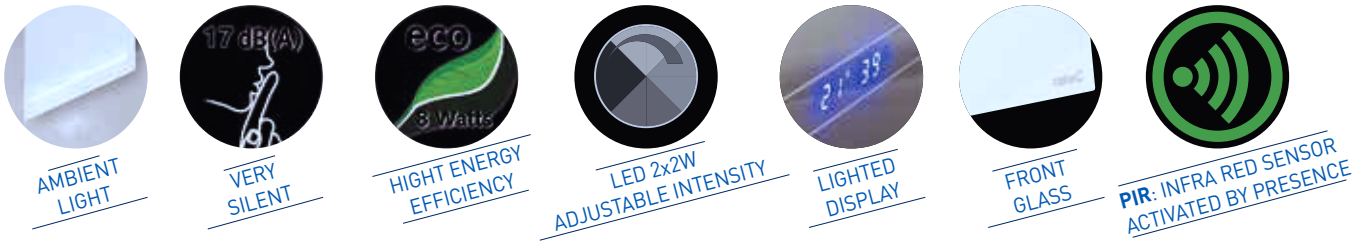
Backdraught shutter

MT support

PERFORMANCE CURVES

p. 27 - 31

E GLASS Series. Energy-efficient. Low-noise



- **Perimeter extraction** system.
- **Glass cover**.
- Available models with ambient light and infra-red sensor activated by presence (ø100).
- **High-performance** plastic **housing** and **impeller**.
- **Temperature and humidity display** (available on humidistat model).
- Backdraught shutter (accessory).
- Fitted with 220-240 50/60Hz motors (110-127V 60Hz on request), IP-44 protection and insulation class B as standard.
- **Minimum sound level of 17dB (according to the model)**
- 2-speed function (humidistat version only), to be selected prior to installation between continuous or NON continuous working.

→ 1st speed: slow speed for continuous extraction.

→ 2nd speed: activates when light is switched on, by activating the humidistat or the timer.

E-100 GLASS PIR - Infra red sensor, activated by presence

E-100 GLASS LIGHT

REMOVABLE GLASS FRONT

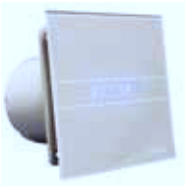
EASILY REMOVABLE

Easy and speedy removal of the cover using a single tool (included in the packaging) which is also used to adjust the timer (GT and GTH version) and the humidistat (GTH version).

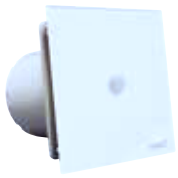
EASY TO CLEAN

Extra-flat glass cover that is easy to clean just by running a damp cloth over it.

E-100 G
E-120 G
E-150 G
E-100 GT



E-100 GST
E-100 GSTH



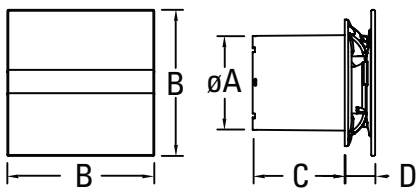
E-100 PIR

E-100 GTH

E-100 GL

CODE	MODEL	EAN CODE	VERSION	Ø (mm)	Speed (r.p.m)	Input Power (W)	Maximum Airflow (m^3/h)	Sound Pressure Level dB(A)	Units per box
HYGRO SERIES									
00900200 GLASS TIMER HYGRO	**E-100 GTH**	8422248049634		100	1ª vel 1100	4 2ª vel 2600	36 8	17 115	6 31
00901200 GLASS TIMER HYGRO	**E-120 GTH**	8422248056823		120	1ª vel 900	6 2ª vel 2400	140 11	19 210	6 33
00902200 GLASS TIMER HYGRO	**E-150 GTH**	8422248056854		150	1ª vel 900	10 2ª vel 2400	225 19	23 350	6 35
00900600 GLASS SILVER TIMER HYGRO	**E-100 GSTH**	8422248056076		100	1ª vel 1100	4 2ª vel 2600	36 8	17 115	6 31
TIMER SERIES									
00900100 GLASS TIMER	**E-100 GT**	8422248049627		100	2600	8	115	31	6
00901100 GLASS TIMER	**E-120 GT**	8422248056816		120	2400	15	210	33	6
00902100 GLASS TIMER	**E-150 GT**	8422248056847		150	2200	21	350	35	6
00900500 GLASS SILVER TIMER	**E-100 GST**	8422248056069		100	2600	8	115	31	6
STANDAR SERIES									
00900000 GLASS	**E-100 G**	8422248049610		100	2600	8	115	31	6
00900400 GLASS SILVER	**E-100 GS**	8422248056052		100	2600	8	115	31	6
00900001 GLASS LIGHT	**E-100 GL**	8422248056786		100	2600	8+4	115	31	6
00901000 GLASS	**E-120 G**	8422248056809		120	2400	15	210	33	6
00902000 GLASS	**E-150 G**	8422248056830		150	2200	21	350	35	6
PIR SERIES									
00900300 PRESENCE DETECTOR	**E-100 PIR**	8422248057622		100	2600	8	115	31	6

DIMENSIONS mm



	ø A	B	C	D
E GLASS -100	98	150	94	28,5
E GLASS -120	118	170	94	35
E GLASS -150	148	190	94	45
E GLASS -100 LIGHT	98	150	94	35

Versions

STANDARD
In combination with light, fans switches on.

TIMER
Electronic timer adjustable from 3 to 15 minutes.

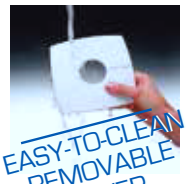
HYGRO
Adjustable humidity detector from 40% to 95%, and adjustable electronic timer from 0 seconds to 15 minutes.

PIR
Infra red sensor activated by presence and adjustable electronic timer from 40 seconds to 15 minutes.

Perimetral bathroom fans, with unique automatic shutter system.

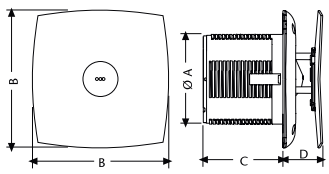
X-MART MATIC / X-MART MATIC INOX

- **Automatic shutter** system.
- Recessed and **design** of a new generation.
- **QUICK FIX GRIP**, exclusive mounting system
- **Front cover easy to dismantle without using any tools**, easy cleaning.
- Plastic housing, impeller and led.
- 220-240V 50/60Hz motors, protection **IP-X4** insulation class **B** and thermal cut out, ambient temperature max. 40ºC.
- Pilot light operation
- Finishes: White / Stainless Steel.



CODE	MODEL	EAN CODE	VERSION	Ø (mm)	Speed (r.p.m)	Imput Power (W)	Maximum AirFlow (m^3/h)	Sound Pressure Level dB(A)	Weight (kg)	Units per box
TIMER SERIES										
01016000	**X-MART 10 MATIC T**	8422248003551		100	2500	15	98	38	0,65	10
01026000	**X-MART 12 MATIC T**	8422248003582		120	2450	20	190	40	0,82	5
01046000	**X-MART 10 MATIC INOX T**	8422248003735		100	2500	15	98	38	0,78	10
01056000	**X-MART 12 MATIC INOX T**	8422248003766		120	2450	20	190	40	0,98	5
01066000	**X-MART 15 MATIC INOX T**	8422248003797		150	2100	25	320	42	1,14	5
STANDAR SERIES										
01015000	**X-MART 10 MATIC**	8422248003544		100	2500	15	98	38	0,65	10
01025000	**X-MART 12 MATIC**	8422248003575		120	2450	20	190	40	0,82	5
01035000	**X-MART 15 MATIC**	8422248003605		150	2100	25	320	42	0,97	5
01045000	**X-MART 10 MATIC INOX**	8422248003728		100	2500	15	98	38	0,78	10
01055000	**X-MART 12 MATIC INOX**	8422248003759		120	2450	20	190	40	0,98	5
01065000	**X-MART 15 MATIC INOX**	8422248003780		150	2100	25	320	42	1,14	5

DIMENSIONS mm



	Ø A	B	C	D
X-MART MATIC 10	98	150	87	38 máx.
X-MART MATIC 12	118	170	101	38 máx.
X-MART MATIC 15	148	194	120	38 máx.

Versions

STANDARD
In combination with light, fans switches on.

TIMER
Electronic timer adjustable from 3 to 15 minutes.

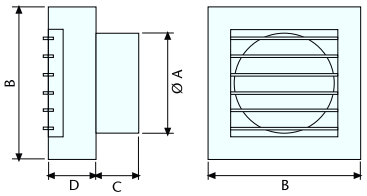
Axial fans for bathrooms, with short tube, to be installed in ceiling, wall or window.

B-MATIC

- With **automatic shutter**.
- White finish.
- Plastic housing and impeller.
- 220-240V 50/60Hz motors, protection **IP-X4**, insulation class **B** and thermal cut out, ambient temperture max. 40ºC.

CODE	MODEL	EAN CODE	VERSION	Ø (mm)	Speed (r.p.m)	Imput Power (W)	Maximum AirFlow (m^3/h)	Sound Pressure Level dB(A)	Weight (kg)	Units per box
SERIE TIMER										
00916000	**B-10 MATIC T**	8422248110303		100	2500	15	98	41	0,70	5
00926000	**B-12 MATIC T**	8422248110808		120	2450	20	190	43	0,90	5
SERIE ESTANDAR										
00915000	**B-10 MATIC**	8422248110204		100	2500	15	98	41	0,70	5
00925000	**B-12 MATIC**	8422248110709		120	2450	20	190	43	0,90	5
00935000	**B-15 MATIC**	8422248111102		150	2100	28	320	43	1,20	5

DIMENSIONS mm



	Ø A	B	C	D
B-10 MATIC	98	150	42	47
B-12 MATIC	118	180	45	56
B-15 MATIC	148	209	60	58

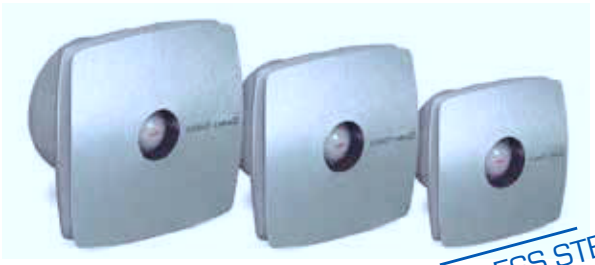
Versions

STANDARD
In combination with light, fans switches on.

TIMER
Electronic timer adjustable from 3 to 15 minutes.

Perimetral bathroom fans.

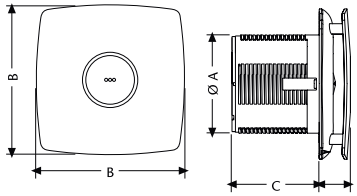
X-MART / X-MART INOX



- Aerodynamic and cutting-edge **design**.
- **QUICK FIX GRIP**, exclusive mounting system.
- **Backdraught shutters incorporated**.
- **Front cover easy to dismantle without using any tools**, easy cleaning.
- 220-240V 50/60Hz motors, protection **IP-X4** insulation class **B** and thermal cut out, ambient temperature max. 40ºC.
- Plastic housing, impeller and led.
- Pilot light operation
- Finishes: White / Stainless Steel.

CODE	MODEL	EAN CODE	VERSION	Ø (mm)	Speed (r.p.m)	Imput Power (W)	Maximum AirFlow (m^3/h)	Sound Pressure Level dB(A)	Weight (kg)	Units per box
HYGRO SERIES										
01044000	**X-MART 10 INOX H**	8422248003650	●	100	2500	15	98	38	0,66	5
01054000	**X-MART 12 INOX H**	8422248003681	●	120	2450	20	190	40	0,87	5
01064000	**X-MART 15 INOX H**	8422248003711	●	150	2100	25	320	42	1,04	5
TIMER SERIES										
01011000	**X-MART 10 T**	8422248003414	●	100	2500	15	98	38	0,64	10
01021000	**X-MART 12 T**	8422248003438	●	120	2450	20	190	40	0,84	5
01041000	**X-MART 10 INOX T**	8422248003643	●	100	2500	15	98	38	0,66	10
01051000	**X-MART 12 INOX T**	8422248003674	●	120	2450	20	190	40	0,87	5
01061000	**X-MART 15 INOX T**	8422248003704	●	150	2100	25	320	42	1,04	5
STANDAR SERIES										
01010000	**X-MART 10**	8422248003384	●	100	2500	15	98	38	0,64	10
01020000	**X-MART 12**	8422248003391	●	120	2450	20	190	40	0,84	5
01030000	**X-MART 15**	8422248003407	●	150	2100	25	320	42	1,02	5
01040000	**X-MART 10 INOX**	8422248003636	●	100	2500	15	98	38	0,66	10
01050000	**X-MART 12 INOX**	8422248003667	●	120	2450	20	190	40	0,87	5
01060000	**X-MART 15 INOX**	8422248003698	●	150	2100	25	320	42	1,04	5

DIMENSIONS mm



	Ø A	B	C	D
X-MART 10	98	150	89,5	31
X-MART 12	118	170	103,5	32
X-MART 15	148	194	123,5	34

Versions

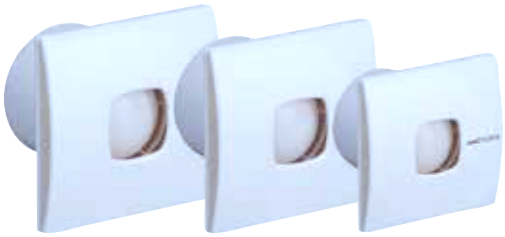
STANDARD
In combination with light, fans switches on.

TIMER
Electronic timer adjustable from 3 to 15 minutes.

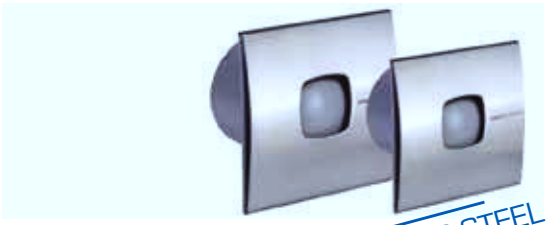
HYGRO
Adjustable humidity detector from 40% to 90%, and adjustable electronic timer from 0 to 15 minutes.

Completely built-in bathroom fans with perimetral and central extraction system, high-performance and low noise level.

SILENTIS / SILENTIS INOX

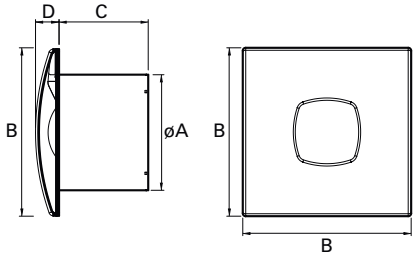


- Cutting-edge **design**.
- **Backdraught shutters incorporated**.
- Front cover easy to dismantle and to clean.
- Plastic housing and impeller and led.
- 220-240V 50/60Hz motors, protection **IP-X4** insulation class **B** and thermal cut out, ambient temperature max. 40ºC.
- Finishes: White / Stainless Steel.



CODE	MODEL	EAN CODE	VERSION	Ø (mm)	Speed (r.p.m)	Imput Power (W)	Maximum AirFlow (m³/h)	Sound Pressure Level dB(A)	Weight (kg)	Units per box
SERIE TIMER										
01071000	**SILENTIS 10 T**	8422248016940		100	2500	15	98	37	0,64	10
01071300	**SILENTIS 10 INOX T**	8422248016964		100	2500	15	98	37	0,64	10
01081300	**SILENTIS 12 INOX T**	8422248017008		120	2450	20	190	39	0,85	5
STANDAR SERIES										
01070000	**SILENTIS 10**	8422248016643		100	2500	15	98	37	0,64	10
01080000	**SILENTIS 12**	8422248016971		120	2450	20	190	39	0,85	5
01090000	**SILENTIS 15**	8422248017015		150	2100	25	320	41	1,02	5
01070300	**SILENTIS 10 INOX**	8422248016957		100	2500	15	98	37	0,64	10
01080300	**SILENTIS 12 INOX**	8422248016995		120	2450	20	190	39	0,85	5

DIMENSIONS mm



	Ø A	B	C	D
SILENTIS 10	98	140	80	22
SILENTIS 12	118	170	95	30
SILENTIS 15	148	190	112	32

Versions

STANDARD
In combination with light, fans switches on.

TIMER
Electronic timer adjustable from 3 to 15 minutes.

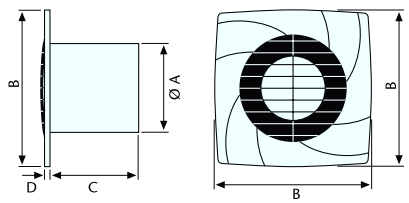
Axial fans for bathrooms, very slim, to be installed in ceiling or wall.

B-PLUS

- Very slim, recessed design.
- Plastic housing and impeller.
- 220-240V 50/60Hz motors, protection **IP-X4**, insulation class **B** and thermal cut out, ambient temperature max. 40ºC.
- Light senser in **HUMIDISTAT** version and **B15 PLUS** models.
- Window kit not available for models **B8 PLUS** and **B15 PLUS**.

CODE	MODEL	EAN CODE	VERSION	Ø (mm)	Speed (r.p.m)	Imput Power (W)	Maximum AirFlow (m^3/h)	Sound Pressure Level dB(A)	Weight (kg)	Units per box
SERIE HYGRO										
00981401	**B10 PLUS H**	8422248050876	●	100	2500	15	98	41	0,6	10
SERIE TIMER										
00981101	**B10 PLUS T**	8422248049566	●	100	2500	15	98	41	0,6	10
00982100	**B12 PLUS T**	8422248113489	●	120	2450	20	190	43	0,8	5
00983100	**B15 PLUS T**	8422248114257	●	150	2100	28	320	43	0,9	5
SERIE ESTANDAR										
00990000	**B8 PLUS**	8422248113168	●	90	2500	15	70	39	0,57	10
00281000	**B10 PLUS**	8422248047210	●	100	2500	15	98	41	0,6	10
00282000	**B12 PLUS**	8422248053969	●	120	2450	20	190	43	0,8	5
00283000	**B15 PLUS**	8422248047227	●	150	2100	28	320	43	0,9	5

DIMENSIONS mm



	Ø A	B	C	D
B-8 PLUS	86	140	88	10
B-10 PLUS	98	140	85	10
B-12 PLUS	118	170	100	13
B-15 PLUS	148	190	112	15

Versions

STANDARD
In combination with light, fans switches on.

TIMER
Electronic timer adjustable from 3 to 15 minutes.

HYGRO
Adjustable humidity detector from 40% to 90%, and adjustable electronic timer from 0 to 15 minutes.

Axial fans for bathrooms with short tube for wall, ceiling and glass (using Glass Kit accessory).

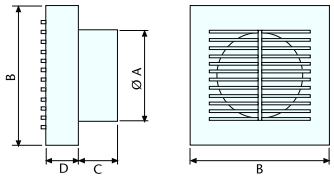
B

- White finishing.
- Plastic housing and impeller.
- Fitted with 220-240V 50/60Hz motors, **IP-X4** protection and class **B** as standard.
- Neon light sensor in humidistat versions.

SHORT TUBE

CODE	MODEL	EAN CODE	VERSION	Ø (mm)	Speed (r.p.m)	Imput Power (W)	Maximum AirFlow (m^3/h)	Sound Pressure Level dB(A)	Weight (kg)	Units per box
SERIE TIMER										
00911000	**B-10 T**	8422248110105		100	2500	15	98	41	0,60	10
SERIE ESTANDAR										
00910000	**B-10**	8422248110006		100	2500	15	98	41	0,60	10
00920000	**B-12**	8422248110501		120	2450	20	190	43	0,85	5
00930000	**B-15**	8422248110907		150	2100	28	320	43	0,95	5

DIMENSIONS mm



	Ø A	B	C	D
B-10	98	150	42	35
B-12	118	180	45	44
B-15	148	209	60	45

Axial fans for bathrooms with infra-red sensor.

B-PIR

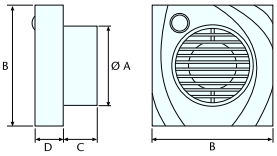
PIR: INFRA RED SENSOR ACTIVATED BY PRESENCE

- Fitted with infra-red sensor activated by presence.
- Timer (electronic timer adjustable from 3 to 15 minutes).
- White finishing.
- Plastic housing and impeller.
- 220-240V 50/60Hz motor, protection **IP-X4**, insulation class **B** as thermal cut out, ambient temperature max. 40ºC.

SHORT TUBE

CODE	MODEL	EAN CODE	Ø (mm)	Speed (r.p.m)	Imput Power (W)	Maximum AirFlow (m^3/h)	Sound Pressure Level dB(A)	Weight (kg)	Units per box
00913000	**B-10 PIR**	8422248112123	100	2500	15	98	41	0,60	4

DIMENSIONS mm



	Ø A	B	C	D
B-10 PIR	98	150	42	35

Versions

STANDARD
In combination with light, fans switches on.

TIMER
Electronic timer adjustable from 3 to 15 minutes.

PIR
Infra red sensor activated by presence and adjustable electronic timer from 40 seconds to 15 minutes.

CENTRIFUGAL BATHROOM FANS

High-performance centrifugal bathroom fans, slim version, to be installed in ceilings or walls.

CB-100 PLUS / CB-250 PLUS

CB-100 PLUS

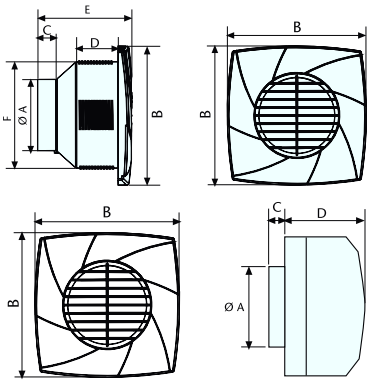
CB-250 PLUS

- **CB-100 PLUS** totally recessed.
- Finishing: white.
- **CB-250** with short tube.
- Modern slim version.
- Centrifugal impeller for high pressure, which need to be passed in longer ductings.
- **Backdraught shutters included.**
- Plastic housing and impeller.
- 220-240V 50/60Hz motors, protection **IP-X4**, insulation class **B** and thermal cut out, ambient temperature max. 40ºC.

BACKDRAUGHT SHUTTERS

CODE	MODEL	EAN CODE	VERSION	Ø (mm))	Speed (r.p.m)	Imput Power (W)	Maximum AirFlow (m³/h)	Sound Pressure Level dB(A)	Weight (kg)	Units per box
TIMER SERIES										
00841000	**CB-100 PLUS T**	8422248114394		100	2300	25	130	49	0,98	5
STANDARD SERIES										
00840000	**CB-100 PLUS**	8422248114387		100	2300	25	130	49	0,98	5
00850000	**CB-250 PLUS**	8422248114417		100/120	2300	45	270	52	1,64	5

DIMENSIONS mm



	Ø A	B	C	D	E	F
CB-100 PLUS	97,6	190	26	57,4	129,4	147,8

	Ø A	B	C	D
CB-250 PLUS	96/118	208	17	122

* Double outflow diameter included.

Versions

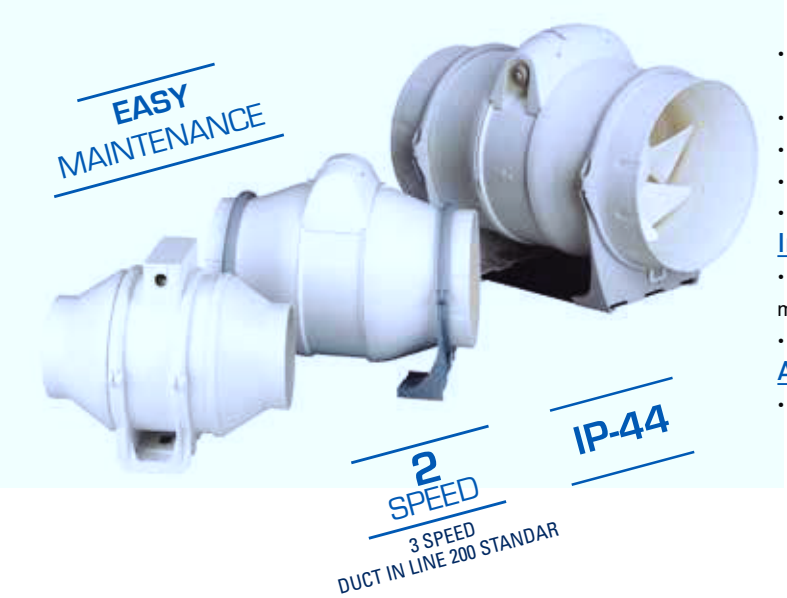
STANDARD
In combination with light, fans switches on.

TIMER
Electronic timer adjustable from 3 to 15 minutes.

IN-LINE DUCT FANS

In-line mixed flow fans with high performance air flow capacity and low noise level.

DUCT IN-LINE



Fan:

- Housing polypropylene plastic.
- Easy accessible motor due to the motor support, which can be dismantled without interfering existing duct system. (1)

Motor:

- Asynchronous 1, 2 and 3 speeds motor, self-lubricating bearings for life.
- Protection **IP44** insulation Class **B** (not **DUCT IN-LINE 100/130**), and thermal cut out.
- External terminal box.
- 230 V at 50 and 60 Hz (**DUCT IN-LINE 100/130**, just in 50 Hz).
- Speed control possible (not timer versions).
- TIMER version models adjustable from 3 to 15 minutes.

Impeller:

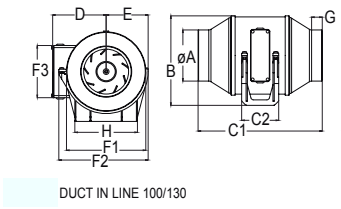
- High performance and very silence helicocentrifugal mixed flow, made in ABS plastic.
- **DUCT IN-LINE 100/130** with centrifugal impeller.

Accessories:

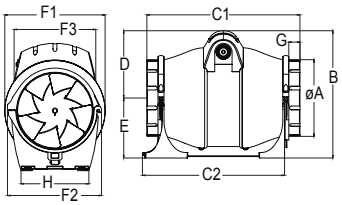
- Fixed plastic grills.

CODE	MODEL	EAN CODE	Speed (r.p.m)	Imput Power (W)	Max. Amps (A)	AirFlow (m^3/h)	Sound Pressure Level dB(A)	Weight (kg)
SERIE TIMER								
00771000	**DUCT IN-LINE 100/130 T**	8422248920742	2.200	25	0,16	130	24	1,2
00702100	**DUCT IN-LINE 100/270 T**	8422248021210	2.300/1.700	30/18	0,18/0,10	270/190	30/24	2,1
00703100	**DUCT IN-LINE 125/320 T**	8422248021234	2.300/1.700	30/18	0,18/0,10	365/250	32/26	2,1
SERIE ESTANDAR								
00770000	**DUCT IN-LINE 100/130**	8422248920735	2.200	25	0,16	130	24	1,2
00702000	**DUCT IN-LINE 100/270**	8422248021203	2.300/1.700	30/18	0,18/0,10	270/190	30/24	2,1
00703000	**DUCT IN-LINE 125/320**	8422248021227	2.300/1.700	30/18	0,18/0,10	365/250	32/26	2,1
00704000	**DUCT IN-LINE 150/560**	8422248021241	2.700/2.000	80/60	0,36/0,27	595/420	33/27	3,2
00705000	**DUCT IN-LINE 160/560**	8422248021265	2.700/2.000	80/60	0,36/0,27	595/420	33/27	3,2
00706000	**DUCT IN-LINE 200/910**	8422248021289	2.700/2.000/1.800	85/65/55	0,34/0,27/0,24	910/820/720	39/34/32	4,5

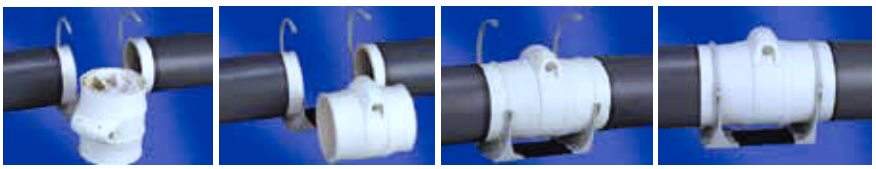
DIMENSIONS mm



DUCT IN LINE 100/130



	Ø A	B	C1	C2	D	E	F1	F2	F3	G	H
DUCT IN LINE 100/130	98	171,5	238	71	102,5	80,5	152	171	100	20	120
DUCT IN LINE 100/270	98	232	315	241,6	117	115	168	180	155	25	130
DUCT IN LINE 125/320	122	232	279	241,6	117	115	168	180	155	25	130
DUCT IN LINE 150/560	147	244	293,4	272,4	129	115	192	180	158	21	130
DUCT IN LINE 160/560	157	244	312,6	272,4	129	115	192	180	158	23	130
DUCT IN LINE 200/910	197	278,5	353,6	272,4	138,5	140	211	230	161,5	51,5	142



In line fans with soundproof box.

BOX IN LINE

IP-44

Box:

- Sheet steel box.
- Thermal and acoustic insulation.
- Inspection door for easy access to motor and maintenance.
- Outlets according current norms and with rubber gasket in order to avoid vibration and leak.
- Mounting feet for easy installation on ceiling or wall.
- Terminal box outside.

Housing:

- High efficient centrifugal fan (polypropylene) with aerodynamical design. (1)

Motor:

- External rotor, **IP-44** insulation class **B**.
- 230V 50Hz/60Hz.
- Speed controlled.
- Maximum working temperature +50ºC.

Impeller:

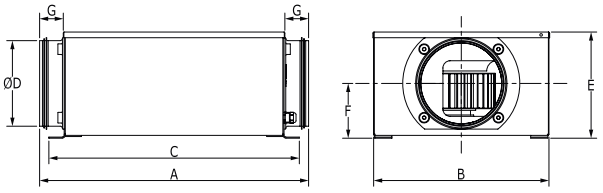
- Forward curved impeller directly mounted on motor shaft.

Accessories:

- Electrical speed controllers **REGM**.

CODE	MODEL	EAN CODE	Speed (r.p.m)	Imput Power (W)	Max. Amps (A)	Maximum AirFlow (m^3/h)	Sound Pressure Level dB(A)	Weight (kg)
00722000	**BOX IN-LINE 100**	8422248018081	2.220	0,08	0,65	300	29	6
00723000	**BOX IN-LINE 125**	8422248018098	2.220	0,08	0,65	420	29	6
00724000	**BOX IN-LINE 150**	8422248018104	2.220	0,23	1,05	580	38	7
00725000	**BOX IN-LINE 200**	8422248018111	1.280	0,10	0,75	890	42	9

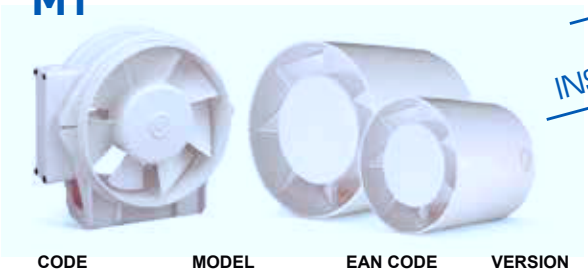
DIMENSIONS mm



	A	B	C	Ø D	E	F	G
BOX IN-LINE 100	505	285	419	100	166	86	70
BOX IN-LINE 125	445	285	419	125	166	86	40
BOX IN-LINE 150	471	309	439	150	186	96	42
BOX IN-LINE 200	530	404	484	200	246	124	50

Duct fans for installation in rigid and flexible tubes.

MT

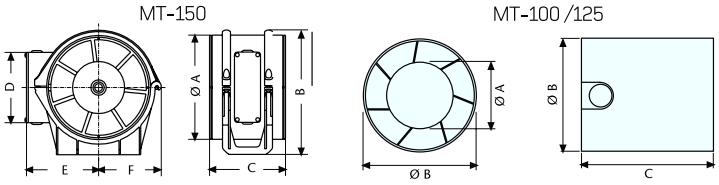


EASY INSTALLATION

- Very silent fans.
- Plastic housing and impeller.
- All models and versions fitted with 220-240V 50/60Hz motors, **IP-X2** protection and class **B** as standard.
- Mounting support for 100 and 100 T is optional.
- White finishing.

CODE	MODEL	EAN CODE	VERSION	Ø (mm)	Speed (r.p.m)	Imput Power (W)	Maximum AirFlow (m^3/h)	Sound Pressure Level dB(A)	Weight (kg)	Units per box
TIMER SERIES										
00711000	**MT-100 T**	8422248920513		100	2500	15	98	41	0,4	10
STANDARD SERIES										
00710000	**MT-100**	8422248920186		100	2500	15	98	41	0,4	10
00720000	**MT-125**	8422248920520		125	2450	20	190	43	0,6	10
00730000	**MT-150**	8422248920797		150	2100	25	320	45	1,2	5

DIMENSIONS mm



	Ø A	B	C	D	E	F
MT-100	60	97	92	-	-	-
MT-125	65	118	96	-	-	-
MT-150	148	177	108	100	99,5	89,2

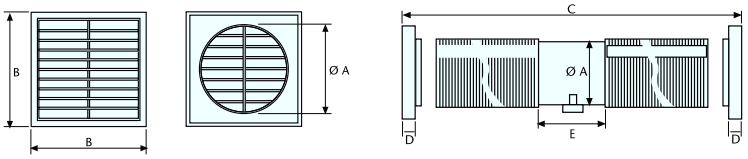
Duct fans with installation kit to be installed in ductings with flexible and rigid tubes.

KIT IN LINE

- Composed by MT series, flexible PVC ducts and two fixed plastic grills.
- Plastic housing and impeller.

CODE	MODEL	EAN CODE	VERSION	Ø (mm)	Speed (r.p.m)	Imput Power (W)	Maximum AirFlow (m^3/h)	Sound Pressure Level dB(A)	Weight (kg)	Units per box
TIMER SERIES										
00711100	**KIT IN LINE 100 T**	8422248920216		100	2500	15	98	41	1,10	10
STANDARD SERIES										
00710100	**KIT IN LINE 100**	8422248920209		100	2500	15	98	41	1,10	10
00720100	**KIT IN LINE 125**	8422248920612		125	2450	20	190	43	1,83	10
00730100	**KIT IN LINE 150**	8422248920803		150	2100	25	320	45	2,10	5

DIMENSIONES



	Ø A	B	C	D	E
KIT IN LINE 100	100	140	3.000	15	92
KIT IN LINE 125	124	140	3.000	18	106
KIT IN LINE 150	150	175	3.000	15	108

Versions

STANDARD
In combination with light, fans switches on.

TIMER
Electronic timer adjustable from 3 to 15 minutes.

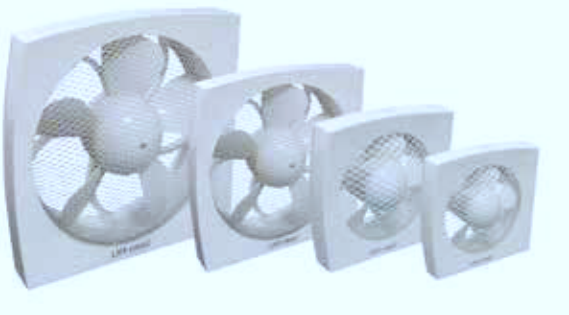
WALL FANS

Helicoidal fans to be installed in walls or windows.

LHV

- Modern design.
- Impeller with low **noise profile and high efficiency**.
- **Window kit included**.
- Protection guard on inlet side.
- Series with 230 V, 50 motor, potection **IP-44**, insulation class **B** (type 160 IP-X4).
- Speed controlled.
- Working temperature from: -20ºC to +50ºC.

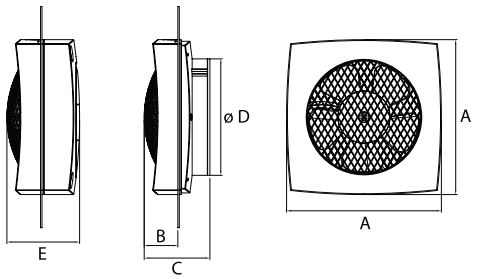
Ø 400 **Ø 350**



Ø 300 **Ø 225** **Ø 190** **Ø 160**

CODE	MODEL	EAN CODE	Ø (mm)	Speed (r.p.m)	Imput Power (W)	Maximum AirFlow (m^3/h)	Sound Pressure Level dB(A)	Weight (kg)	Units per box
00660000	**LHV 160**	8422248009324	160	1750	20	450	40	1,2	1
00661000	**LHV 190**	8422248009331	190	1500	30	700	42	1,7	1
00662000	**LHV 225**	8422248009348	225	1150	45	900	44	3	1
00663000	**LHV 300**	8422248009355	300	1050	50	1450	47	3,4	1
00664000	**LHV 350**	8422248009362	350	1300	100	1850	52	4,3	1
00665000	**LHV 400**	8422248009379	400	1400	215	3150	55	7,4	1

DIMENSIONS mm



	A	B	C	Ø D	E
LHV 160	210	46	89	160	99
LHV 190	250	54	97	194	109
LHV 225	285	61	110	229	123
LHV 300	370	77	125	315	144
LHV 350	430	85	142	365	159
LHV 400	490	95	160	415	181

Helicoidal fans to be installed in walls or windows.

B-23 / B-30

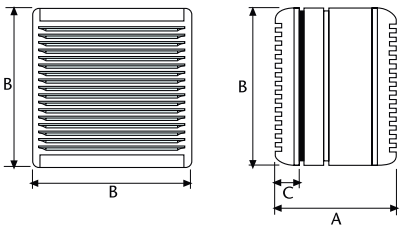
AUTOMATIC SHUTTER SYSTEM

REVERSIBLE FAN

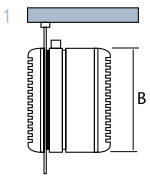
- Elegant design.
- **Glass installation kit included as standard**.
- Protection guard on inlet side.
- Fitted with 230V 50 Hz motors, **IP-X4** protection and class **B** as standard.
- Fully adjustable.
- Working temperatures from -20ºC to +50ºC.
- Model **B**: MATIC (with automatic blind).
- **RA**: Reversible with 5-speed adjuster.

CODE	MODEL	EAN CODE	Ø (mm)	Speed (r.p.m)	Imput Power (W)	Max. Amps (A)	Maximum AirFlow (m^3/h)		Sound Pressure Level dB(A)	Weight (kg)	Units per box
							extract	intake			
00610000	**B-23**	8422248120234	230	1350	45	0,19	825	530	49	5,19	1
00620000	**B-30**	8422248120241	305	1260	90	0,39	1900	700	51	7,45	1
00611003	**B-23 RA**	8422248007740	230	1350	45	0,19	825	530	49	5,19	1
00621003	**B-30 RA**	8422248007764	305	1260	90	0,39	1900	700	51	7,45	1

DIMENSIONS mm



	A	B	C
B-23/RA	190	340	40
B-30/RA	230	420	40



Centrifugal extract fan for kitchens.

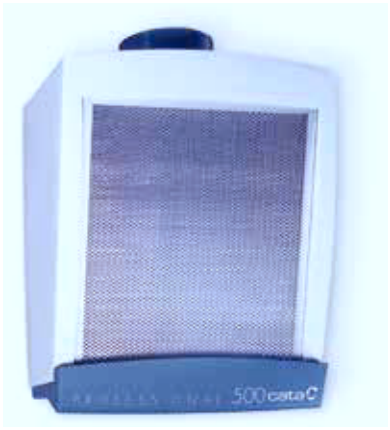
PROFESSIONAL 750 / 750L / 500

EASY INSTALLATION

EXCELLENT PERFORMANCE

WASHABLE FILTERS

PROFESSIONAL 750/750L

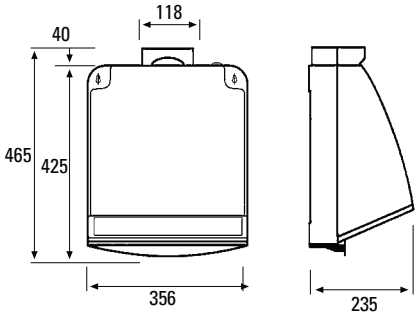


PROFESSIONAL 500

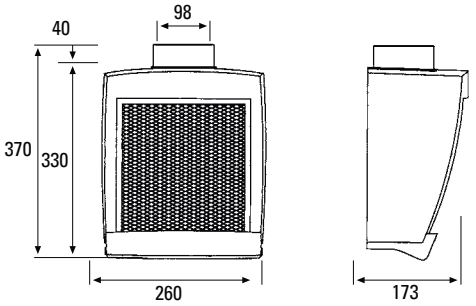
- High air flow capacity.
- High efficient centrifugal impeller.
- Metal grease filter.
- **Easy to install and clean.**
- 750 model with metal housing and plastic impeller.
- 500 model with plastic housing and impeller.
- Energy class: C (model PROFESSIONAL 750)
  F (model PROFESSIONAL 750L)
  D (model PROFESSIONAL 500)

Lámparas 2 x 40W
modelo PROFESSIONAL 750L

CODE	MODEL	EAN CODE	Ø (mm)	Speed (r.p.m)	Input Power (W)	Maximum AirFlow (m^3/h)	Sound Pressure Level dB(A)	Weight (kg)	Units per box
00117000	**PROFESSIONAL 750**	8422248100816	120	1.200	125	700	49	5	3
00117100	**PROFESSIONAL 750 L**	8422248100823	120	1.200	125	700	49	5	3
00117400	**PROFESSIONAL 500**	8422248010832	100	1.900	150	450	57	2,09	4



PROFESSIONAL 750/750L



PROFESSIONAL 500

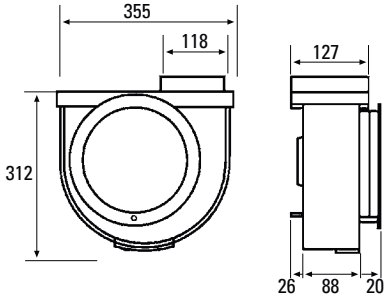
Dimensions in mm

Centrifugal extract fan for kitchens.

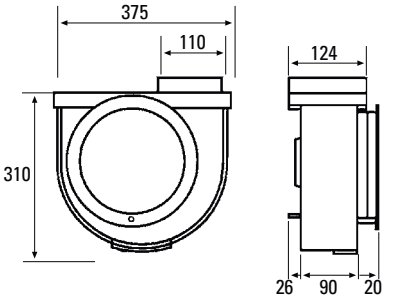
600 PLUS 2V / GS 600

- High air flow capacity.
- Metal housing and high performance plastic impeller.
- Plate to collect grease.
- Easy to install and clean.
- The 600 Plus model incorporates a 2 speeds switch that can be wall mounted.
- Metallic grease filter in GS 600 PLUS and protection guard in GS 600.
- Energy class: C

CODE	MODEL	EAN CODE	Ø (mm)	Speed (r.p.m)	Input Power (W)	Maximum AirFlow (m^3/h)	Sound Pressure Level dB(A)	Weight (kg)	Units per box
00116110	**600 PLUS 2 VEL.**	8422248006316	120	1.185	105	420/600	52	4	4
00116002	**GS 600**	8422248100601	110	1.180	105	480	50	4,8	4



600 PLUS 2V



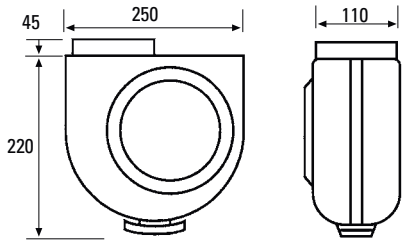
GS 600

Dimensions in mm

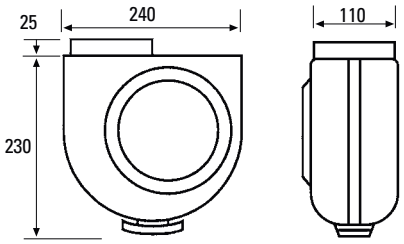
GS 400M / GS 400P

- GS 400 M with metal housing GS 400 P with termal plastic housing.
- Standard protection guard in all types.
- Plate to collect grease.
- Easy to install.
- Energy class: B

CODE	MODEL	EAN CODE	Ø (mm)	Speed (r.p.m)	Input Power (W)	Maximum AirFlow (m^3/h)	Sound Pressure Level dB(A)	Weight (kg)	Units per box
00114102	**GS 400M**	8422248100403	110	2.200	60	290	52	2,98	4
00111002	**GS 400P**	8422248100830	110	2.200	60	290	52	2,02	4



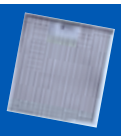
GS 400 M



GS 400 P

Dimensions in mm

DOMESTIC VENTILATION RANGE ACCESSORIES		 FIXED GRILL	 GRILL ON PRESSURE	 GLASS KIT	 RING FIXTURE
E-100	REF.	01910200	01910300		
E-120	REF.	01920200	01920300		
E-150	REF.	01930200	01930300		
X-MART 10	REF.	01910200	01910300	01970000	01910100
X-MART 12	REF.	01920200	01920300	01971000	01920100
X-MART 15	REF.	01930200	01930300	01972000	01930100
X-MART 10 MATIC	REF.	01910200	01910300	01970000	01910100
X-MART 12 MATIC	REF.	01920200	01920300	01971000	01920100
X-MART 15 MATIC	REF.	01930200	01930300	01972000	01930100
X-MART 10 INOX	REF.				
X-MART 12 INOX	REF.				
X-MART 15 INOX	REF.				
X-MART 10 MATIC INOX	REF.				
X-MART 12 MATIC INOX	REF.				
X-MART 15 MATIC INOX	REF.				
SILENTIS 10	REF.	01910200	01910300		
SILENTIS 12	REF.	01920200	01920300		
SILENTIS 15	REF.	01930200	01930300		
SILENTIS 10 INOX	REF.				
SILENTIS 12 INOX	REF.				
SILENTIS 15 INOX	REF.				
B-10 Plus /C (00281000)	REF.	01910200	01910300		
B-12 Plus /C (00282000)	REF.	01920200	01920300		
B-15 Plus /C (00283000)	REF.	01930200	01930300		
B-12 Plus Timer	REF.	01920200	01920300		01920100
B-15 Plus Timer	REF.	01930200	01930300	01983000	01930100
B-10	REF.	01910200	01910300	01910000	01910100
B-12	REF.	01920200	01920300	01920000	01920100
B-15	REF.	01930200	01930300	01930000	01930100
B-10 MATIC	REF.	01910200	01910300	01910000	01910100
B-12 MATIC	REF.	01920200	01920300	01920000	01920100
B-15 MATIC	REF.	01930200	01930300	01930000	01930100
B-10 PIR	REF.	01910200	01910300	01910000	01910100
CB-100	REF.	01910200	01910300		01910100
CB-100 Plus	REF.	01910200	01910300		
MT-100	REF.	01910200	01910300		
MT-125	REF.	01920200	01920300		
MT-150	REF.	01930200	01930300		
B-23	REF.				
B-30	REF.				
B-23 RA	REF.				
B-30 RA	REF.				
DUCT IN LINE 100/130	REF.	01910200	01910300		
DUCT IN LINE 100/270	REF.	01910200	01910300		
DUCT IN LINE 125/320	REF.	01920200	01920300		
DUCT IN LINE 150/560	REF.	01930200	01930300		
LHV-160	REF.		01560160		
LHV-190	REF.		01560190		
LHV-225	REF.		01560225		
LHV-300	REF.		01560300		
LHV-350	REF.		01560350		
LHV-400	REF.		01560400		
PROFESSIONAL 750	REF.				
PROFESSIONAL 500	REF.				
GS-600 Plus 2V	REF.				

 BACKDRAUGHT SHUTTER	 ANTI RETURN SHUTTER	 SUPPORT	 SPEED CONTROL	 METAL FILTER
	01990097			
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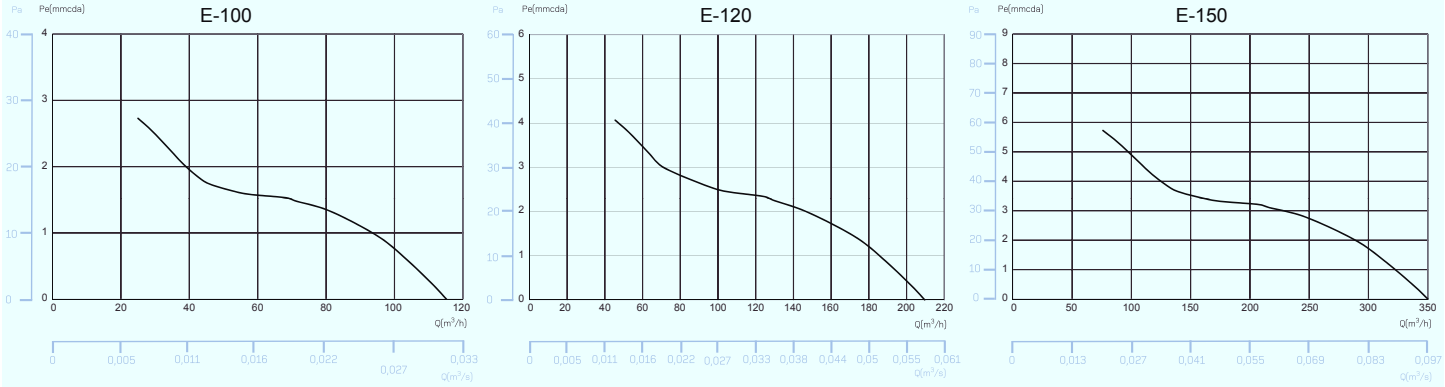
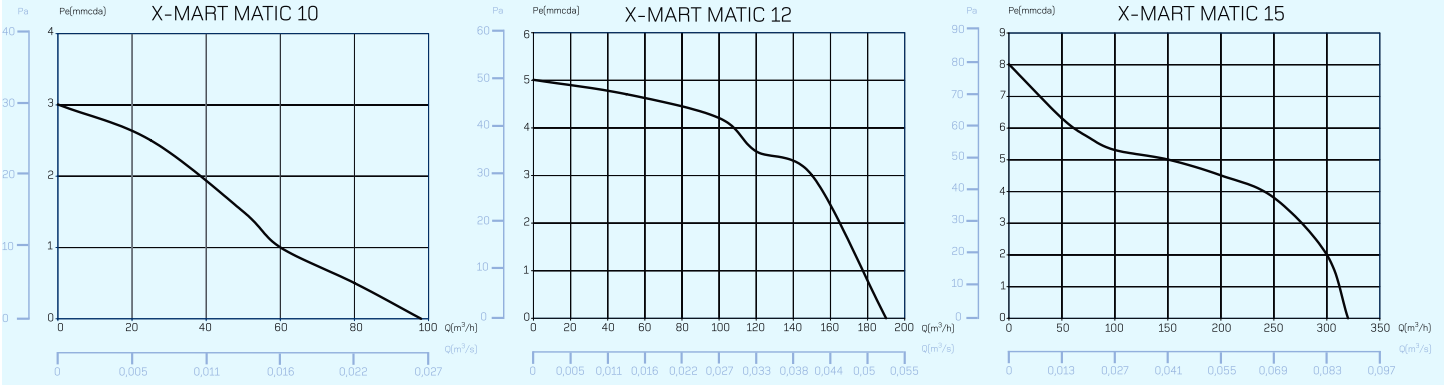
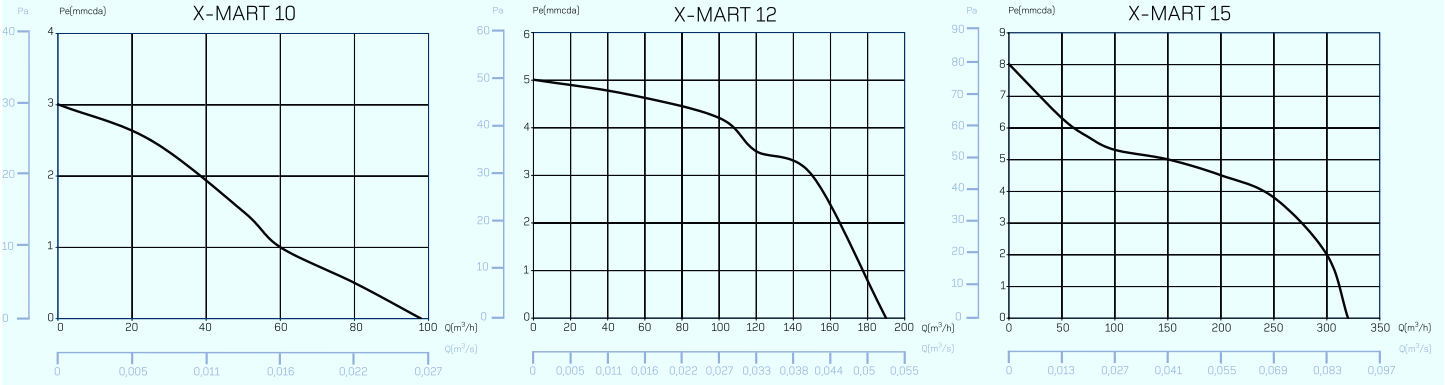
	01990094			
	01990095			
	01990397			
	01990394			
	01990395			
	01990397			
	01990394			
	01990395			
	01990097			
	01990094			
	01990095			
	01990397			
	01990394			
	01990395			
	01990097			
	01990094			
	01990095			
01920600				
01930600				
01990098				
	01990097			
		01991000		
		01992000		
			01142001	
			01142001	
			01142001	
			01142001	
				01140700
				65200040
			01141051	01100000

TECHNICAL CHARACTERISTICS	KITCHEN EXTRACTION						
Models	**PROFESSIONAL 750**	**PROFESSIONAL 750 L**	**PROFESSIONAL 500**	**600 PLUS 2V**	**GS 600**	**GS 400 M**	**GS 400 P**
Code	**00117000**	**00117100**	**00117400**	**00116110**	**00116002**	**00114102**	**00111002**
Product features according to directives EU65/2014 - EN61591, EN60704-2-13, EN50564							
AEC (Anual Energy consumption) (kWh/annum)	54	173,4	73,5	54,8	51,7	29,2	30,3
EEI class (Energy Efficiency Class)	C	F	D	C	C	B	B
FDE (Fluid Dynamic Efficiency)	9,5	4,6	4,5	9,3	12,5	10,7	10,5
FDE class (Fluid Dynamic Efficiency Class)	E	F	F	E	E	E	E
LE (Lighting Efficiency) (lux/W)	-	1,1	-	-	-	-	-
LE class (Lighting Efficiency Class)	-	G	-	-	-	-	-
GFE (Grease Filtering Efficiency)	53,7	53,7	51,9	51,9	-	-	-
GFE Class (Grease Filtering Efficiency class)	F	F	F	F	-	-	-
Air flow at minimum speed (m3/h)	-	-	-	420	-	-	-
Air flow at maximum speed (m3/h)	600	600	450	600	480	290	290
Air flow at intensive speed (TURBO) (m3/h)	-	-	-	-	-	-	-
Sound Power Level at minimum speed (dB)	-	-	-	45	-	-	-
Sound Power Level at maximum speed (dB)	49	49	57	52	50	52	52
Sound Power Level at intensive speed (TURBO) (dB)	-	-	-	-	-	-	-
Po (Power Consumption in off mode) (W)	0	0	0	0	0	0	0
Ps (Power Consumption in standby) (W)	0	0	0	0	0	0	0
Integration directive EU 66/2014							
f (Time Increase Factor)	1,7	1,8	1,8	1,7	1,6	1,6	1,6
EEI (Energy Efficiency Index)	86	111,9	97,4	84,5	78,9	68,7	69,7
QBEP (Flow Rate at Best Efficiency Point) (m3/h)	287,3	287,3	128,8	285,9	311,7	163,2	174,2
PBEP (Static Pressure Difference at Best Efficiency Point) (Pa)	106	106	136,3	105	131,6	117	110,6
WBEP (Electric Power Input at Best Efficiency Point) (W)	89,1	169,1	109,5	90,1	91,4	49,6	51,1
WL (Nominal Power Consumption of Lighting system) (W)	-	80	-	-	-	-	-
EMIDDLE (Average Illumination of Lighting system on Cooking surface) (lux)	-	84	-	-	-	-	-
Features							
Motor	INDUCCION	INDUCCION	INDUCCION	INDUCCION	INDUCCION	INDUCCION	
Maximum Power Consumption	105W	105W	125W	105W	105W	60W	60W
Maximum Pressure	190	190	235	205	200	210	225
Intensive Speed (TURBO) Pressure	-	-	-	-	-	-	-
Control Type	-	-	-	CONMUTADOR	-	-	-
Automatic Switch Off	NO	NO	NO	NO	NO	NO	NO
Electronic Filter Saturation Indicator	NO	NO	NO	NO	NO	NO	NO
Filter Type	METALICO	METALICO	METALICO	METALICO	-	-	-
Anti-grease Filter Number	1	1	1	1	-	-	-
Inner Shield	NO	NO	NO	NO	NO	NO	NO
Extraction Capacity							
Extraction Levels	1	1	1	2	1	1	1
Lighting							
Light Type	-	Incandescente	-	-	-	-	-
Adjustable Intensity Lighting	-	NO	-	-	-	-	-
Nº of Lamps	-	2 X 40W	-	-	-	-	-
Electric Connection							
Total Rush Power (W)	105	185	125	105	105	60	60
Rated Voltage (V)	230	230	230	230	230	230	230
Network Frequency (Hz)	50	50	50	50	50	50	50
Electrical Insulation Class	CLASE I	CLASE I	CLASE II	CLASE I	CLASE I	CLASE I	CLASE I
Plug	-	-	-	-	-	-	-
External Dimensions							
Width (mm)	356	356	260	355	375	250	240
Depth (mm)	235	235	173	134	136	125	120
Instalation							
Outlet Diameter (mm)	120	120	100	120	125	110	110
Minimum height distance to a electric worktop hob (mm)	65	65	65	65	65	65	65
Minimum height distance to a gas worktop hob (mm)	65	65	65	65	65	65	65
Instalation with Outlet tube to the exterior / Recirculating	EXTERIOR	EXTERIOR	EXTERIOR	EXTERIOR	EXTERIOR	EXTERIOR	EXTERIOR
Easy Instalation System	SI	SI	SI	SI	SI	SI	SI
Accessories							
Upper Decorative tube Extension	-	-	-	-	-	-	-
White Decorative Tube	-	-	-	-	-	-	-
Black Decorative Tube	-	-	-	-	-	-	-
Island Tube Enhancer	-	-	-	-	-	-	-
Check Valve	-	-	-	-	-	-	-
MAX PRO Metal Filter	-	-	-	-	-	-	-
Metal Filter	01140700	01140700	65200040	01100000	-	-	-
DUAL Filter (metal + active charcoal)	-	-	-	-	-	-	-
Active Charcoal Filter	-	-	-	-	-	-	-
Noiseless Flexible Duct	-	-	-	-	-	-	-
Kit Universal Led	-	-	-	-	-	-	-

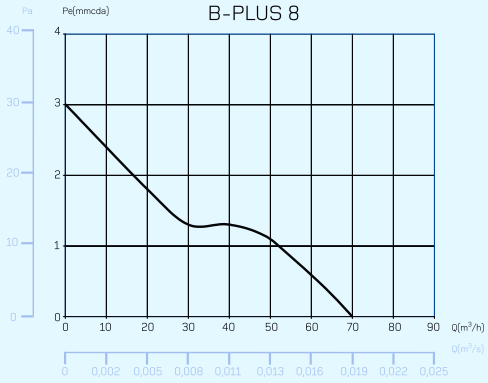
PERFORMANCE CURVES



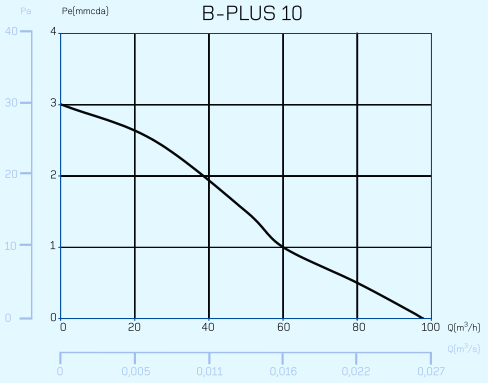




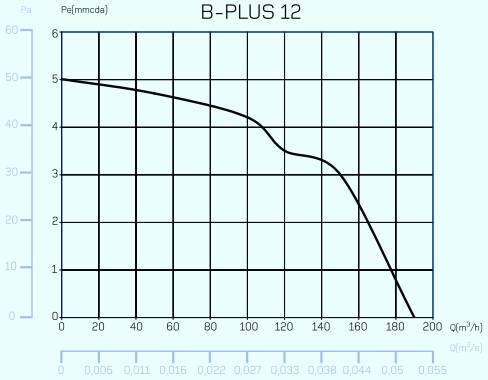
B-PLUS 8



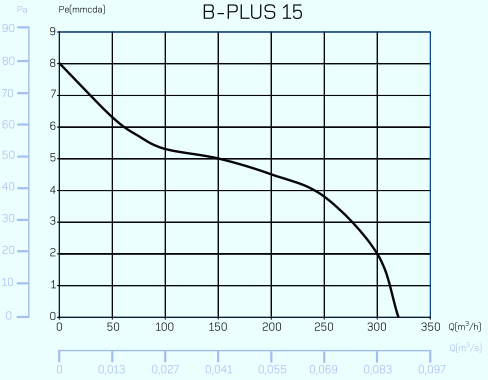
B-PLUS 10



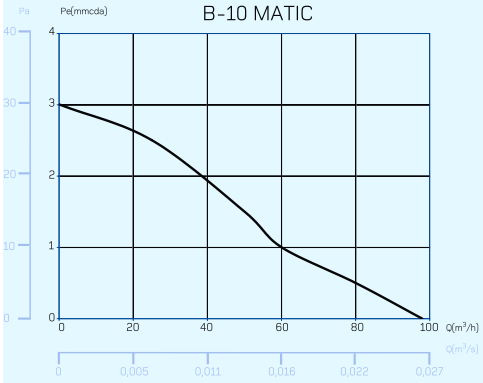
B-PLUS 12



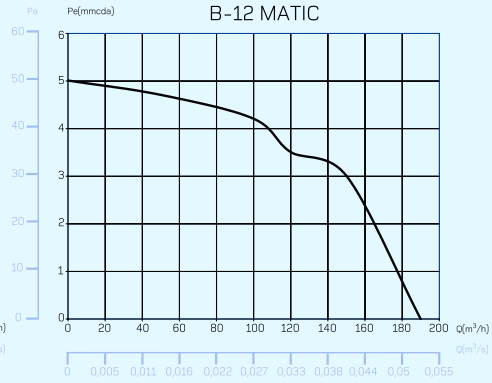
B-PLUS 15



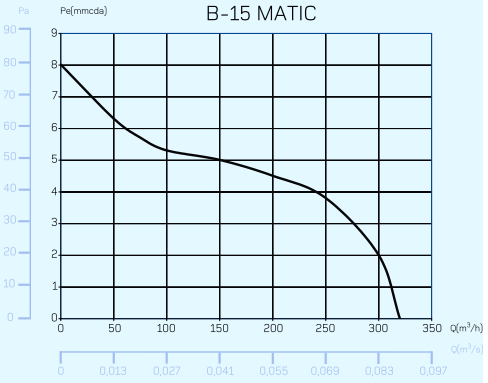
B-10 MATIC



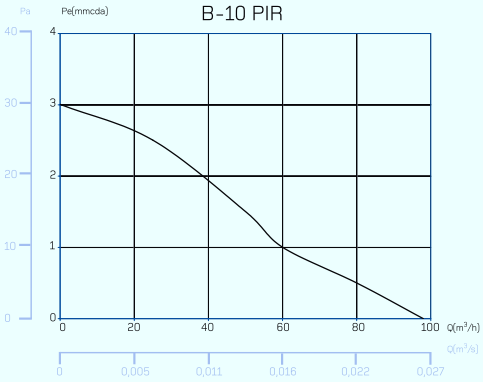
B-12 MATIC

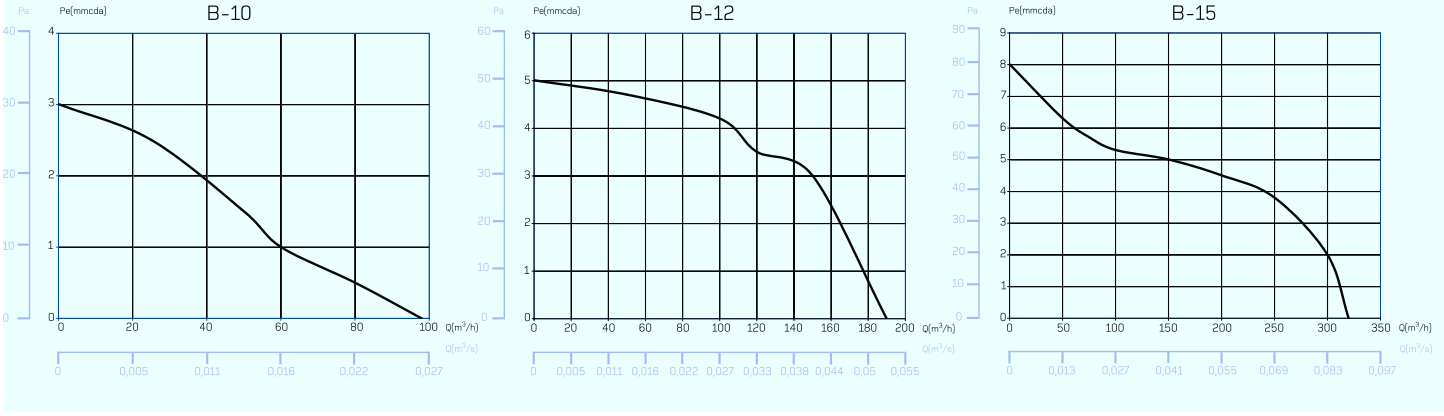


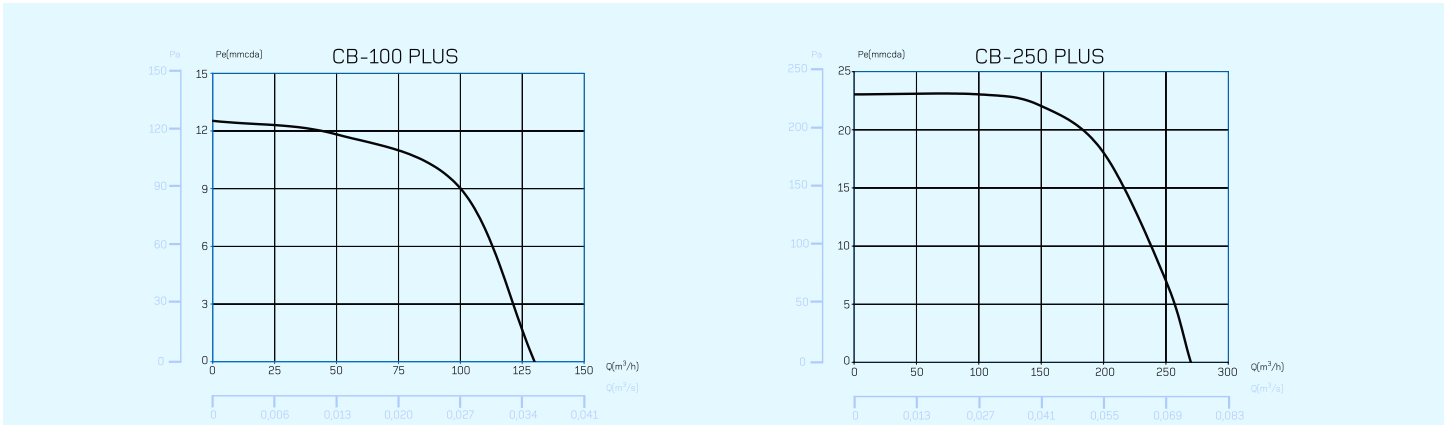
B-15 MATIC

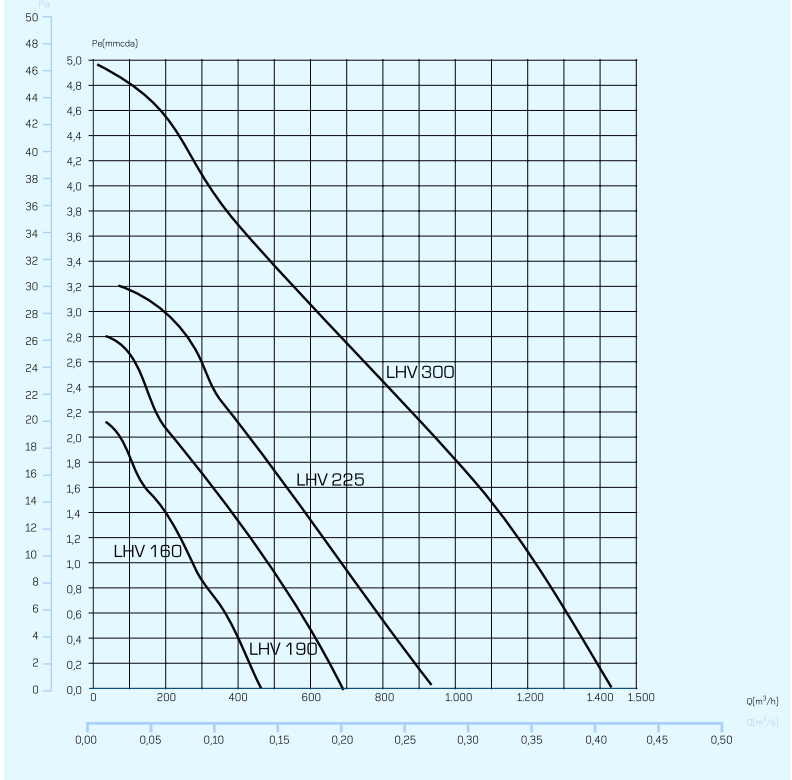


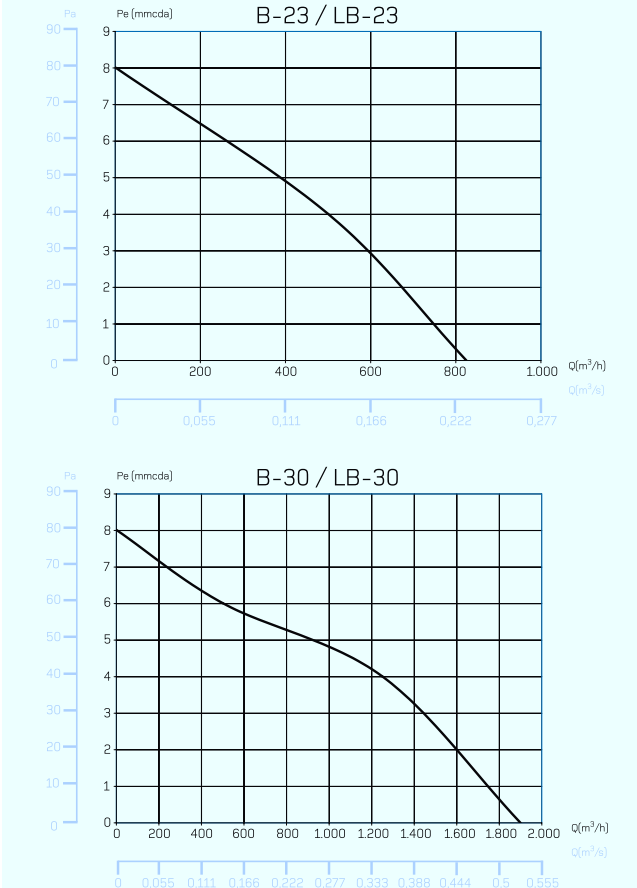
B-10 PIR

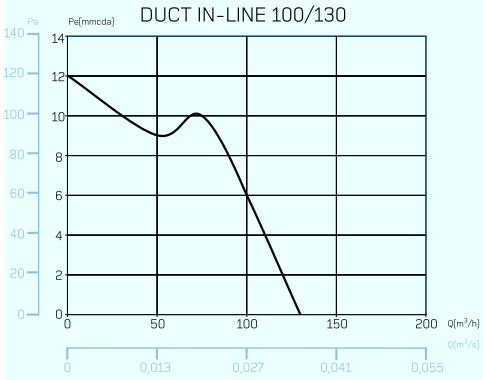


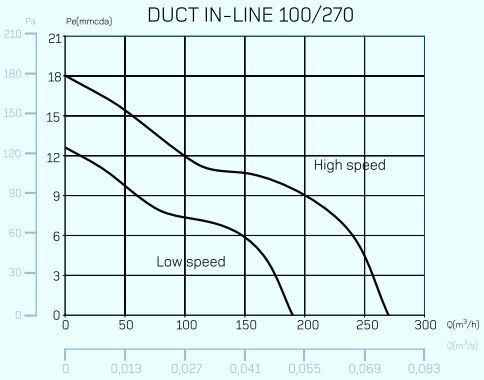

B-10
Pe(mmcda)
Pa
Q(m³/h)
Q(m³/s)
B-12
Pe(mmcda)
Pa
Q(m³/h)
Q(m³/s)
B-15
Pe(mmcda)
Pa
Q(m³/h)
Q(m³/s)

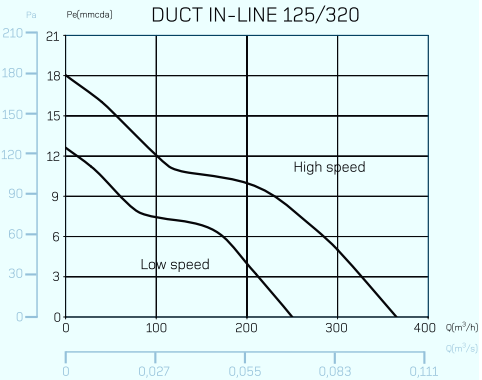

CB-100 PLUS
Pe(mmcda)
Pa
Q(m³/h)
Q(m³/s)
CB-250 PLUS
Pe(mmcda)
Pa
Q(m³/h)
Q(m³/s)

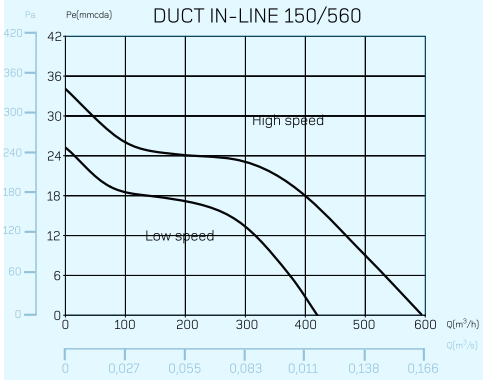

Pe(mmcda)
Pa
LHV 300
LHV 225
LHV 160
LHV 190
Q(m³/h)
Q(m³/s)

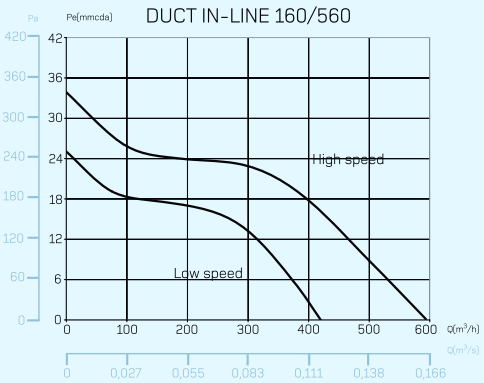

B-23 / LB-23
Pe (mmcda)
Pa
Q(m³/h)
Q(m³/s)
B-30 / LB-30
Pe (mmcda)
Pa
Q(m³/h)
Q(m³/s)

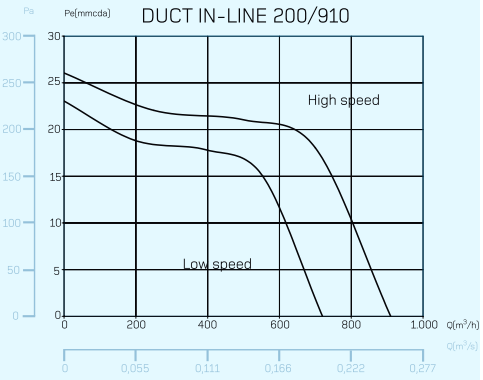

DUCT IN-LINE 100/130
Pe(mmcda)
Pa
Q(m³/h)
Q(m³/s)

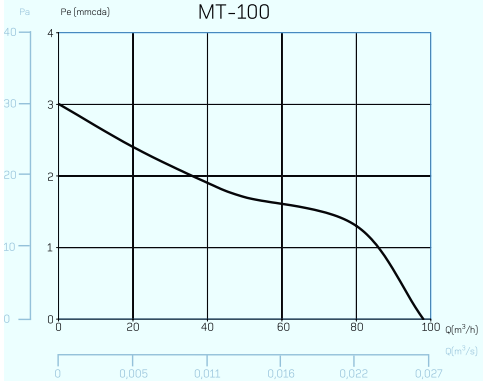

DUCT IN-LINE 100/270
Pe(mmcda)
Pa
High speed
Low speed
Q(m³/h)
Q(m³/s)

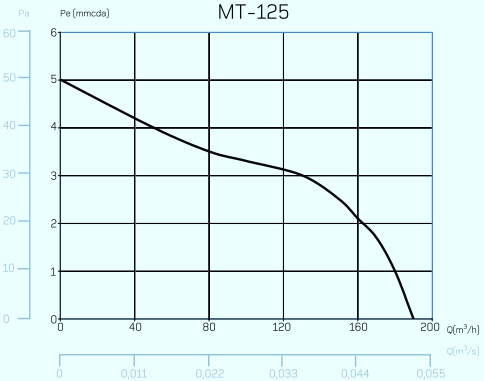

DUCT IN-LINE 125/320
Pe(mmcda)
Pa
High speed
Low speed
Q(m³/h)
Q(m³/s)

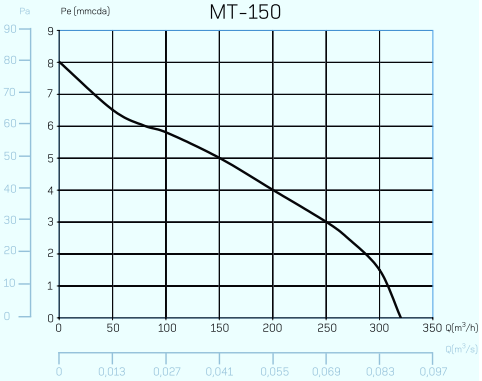

DUCT IN-LINE 150/560
Pe(mmcda)
Pa
High speed
Low speed
Q(m³/h)
Q(m³/s)

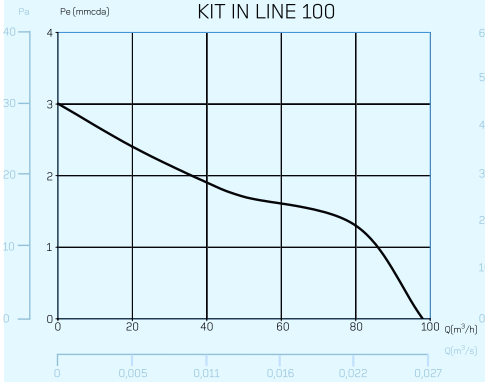

DUCT IN-LINE 160/560
Pe(mmcda)
Pa
High speed
Low speed
Q(m³/h)
Q(m³/s)

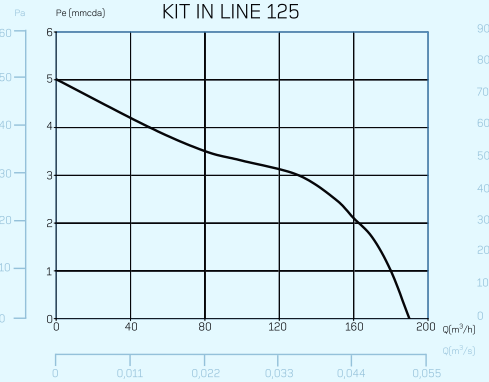

DUCT IN-LINE 200/910
Pe(mmcda)
Pa
High speed
Low speed
Q(m³/h)
Q(m³/s)


MT-100
Pe (mmcda)
Pa
Q(m³/h)
Q(m³/s)


MT-125
Pe (mmcda)
Pa
Q(m³/h)
Q(m³/s)

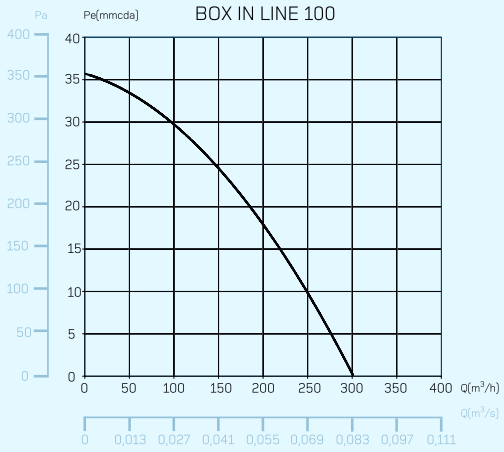

MT-150
Pe (mmcda)
Pa
Q(m³/h)
Q(m³/s)


KIT IN LINE 100
Pe (mmcda)
Pa
Q(m³/h)
Q(m³/s)

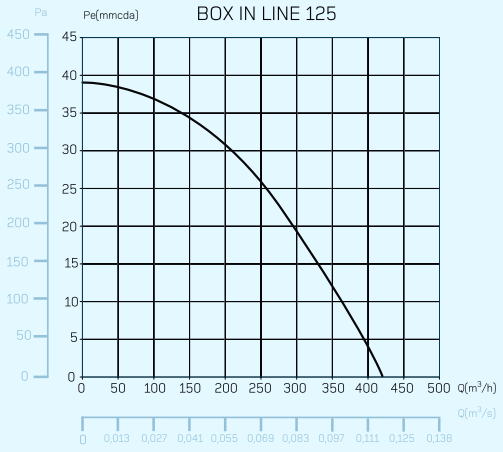

KIT IN LINE 125
Pe (mmcda)
Pa
Q(m³/h)
Q(m³/s)


KIT IN LINE 150
Pe (mmcda)
Pa
Q(m³/h)
Q(m³/s)

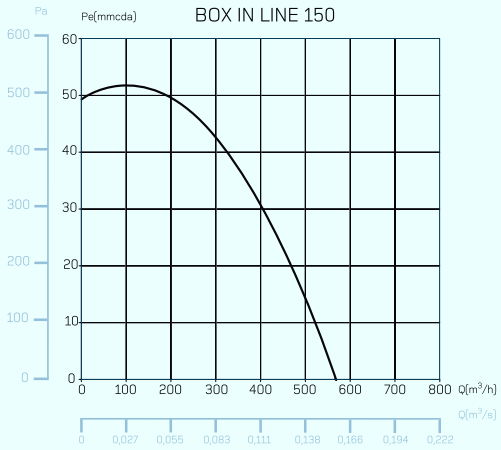
BOX IN LINE 100



BOX IN LINE 125



BOX IN LINE 150



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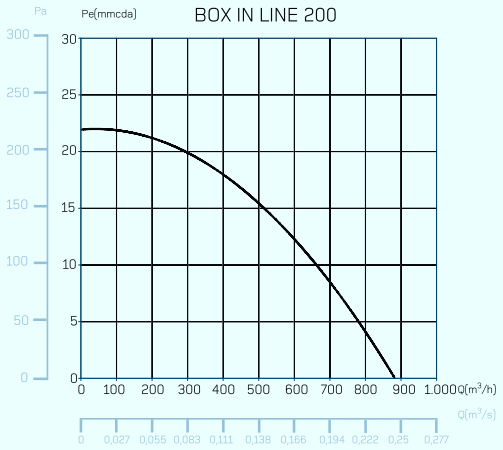
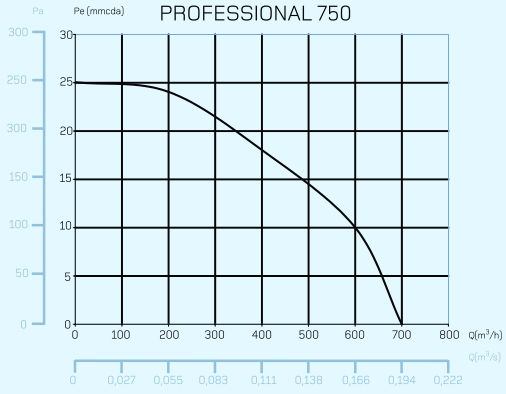
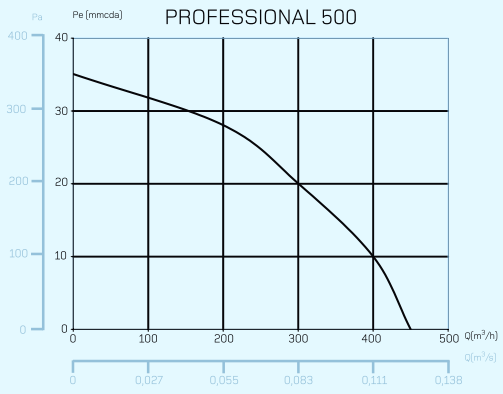


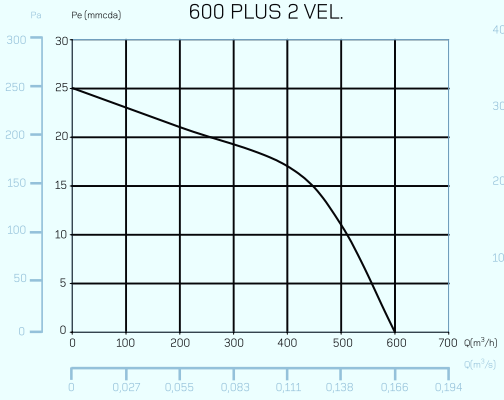
PROFESSIONAL 750



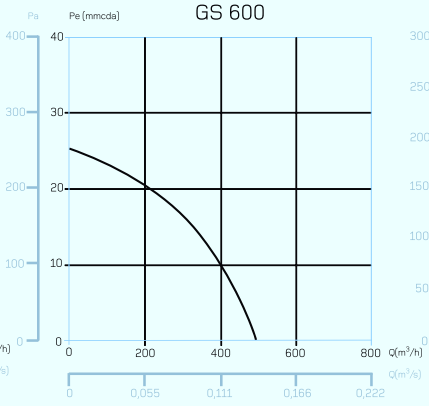
PROFESSIONAL 500



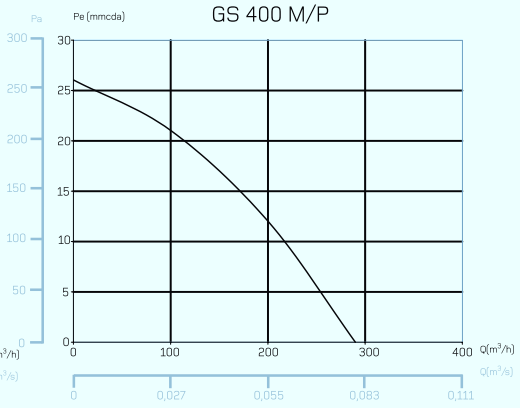
600 PLUS 2 VEL.



GS 600



GS 400 M/P



BASIC VENTILATION CONCEPTS

WHAT IS VENTILATION?

Ventilation is understood to be the replacement of a portion of air which is considered undesirable (polluted), by another that provides an improvement both in terms of purity, and of temperature, humidity, etc.

FUNCTIONS

To maintain the air in an enclosure under suitable conditions of temperature, humidity, pressure, speed and degree of pollution to ensure the health and wellbeing of people, or living beings.

FLOW RATE

This is the amount of air displaced in a given unit of time. (The flow given in the technical specifications is at free discharge, in other words, with no pressure loss). Flow is shown as Q and is usually expressed in m^3/h, although it is also commonly expressed in m^3/min, m^3/sec, l/s, C.F.M

$1 m^3/h$ = 3,6 l/s

1,7 m^3/h = 1 C.F.M

The FLOW RATE and the section are related as follows:

Q = V * S = m^3/h

V = Air speed (m/sec)

S = Section (m^2) of the duct

$$S = \frac{d^2 * \pi}{4}$$

WHAT IS PRESSURE?

It is the pushing force per surface unit that air needs to circulate and overcome the resistance of the system (pressure losses). Pressure is given in: mmH2O and Pa

9,8 Pa = 1 mmH2O

THERE ARE THREE TYPES OF PRESSURE:

Static Pressure (Pe): This is the force of the air in all directions on the walls of the tube, in a perpendicular direction to them.

Dynamic Pressure (Pd): Is the force that accelerates the air from zero to the velocity of the system. It is manifested only in the direction of the air.

There is a formula that links dynamic pressure and speed:

$$Pd = (V / 4{,}04)_2$$

Speed Table with its Dynamic Pressure (table 3)

Speed (m/s)	Dynamic Pressure mmH_2O
1	0.06
2	0.24
3	0.55
4	0.98
5	1.53
6	2.20
7	3.00
8	3.92
9	4.96
10	6.12
11	7.41
12	8.82
13	10.35
14	12.00
15	13.78
16	15.68
17	17.70
18	19.85
19	22.11
20	24.50
21	27.01
22	29.65

Total Pressure: This is the sum between the static pressure and the dynamic pressure Pt = Pe + Pd

WHAT IS NOISE?

It is the audible sound, that is propagated through the air and which is unpleasant to the receiver.

The **Sound Pressure (Lp)** level is what we really hear and it varies according to the premises and the distance between the source of the noise (extractor or fan) and the receiver.

The **Sound Power (Lw)** level is the amount of sound energy of a sound source (extractor or fan) every second and it is constant, in other words, it does not vary according to the premises or the distance from the sound source.

BASIC VENTILATION CONCEPTS

Sound pressure level (dB)

Noise	dB	Examples
DEAFENING	120	Thunder
		Cannon fire
	110	Steam whistle
VERY STRONG	100	Train in a tunnel
	90	Street with dense traffic
	80	Noisy factory
STRONG	70	Noisy office
		Medium-sized workshop
	60	Radio with the volume up high
MODERATE	60	Large shop
	50	Office
GENTLE	40	Public library
		Country road
	30	Scrunching up paper
		Quiet conversation
VERY GENTLE	20	Peaceful church
	10	Silent night
	0	Hearing limit

HOW TO CHOOSE A FAN

You need to know the following parameters:

- Output
- Pressure
- Sound level
- Type of Electricity Supply

Output (Q m^3/h): You have to determine the necessary flow according to:

1● The recommended renewals with regard to the volume of the premises in m3 and the activity there.

Q = m3 * Renow/h

RENEW./HOUR TABLE

Result of Health and Safety studies/Experience

INDUSTRIAL PREMISES	
Noxious atmospheres	30-60
Goods deposit	3-6
Cast-iron	20-30
Industrial laundry	15-30
Machine room	20-30
Workshop (general)	8-10
Workshop with kilns	30-60
Tooling workshop	5-10
Paint workshop	30-60
Welding workshop	15-30
Dry cleaner	20-30
SERVICES SECTOR AND PREMISES	**NR/h**
Classroom	2-4
Bank	3-4
Bar-café	10-12
Library	3-5
Cinema-theatre	10-15
Industrial kitchen	15-30
Canteen	5-10
Recording studio	10-12
Garage	6-8
Gym	6-12
Entrance hall	3-5
Hospitals	4-6
Public lavatories	8-15
Laundry	15-30
Offices	4-8
Baker's	20-30
Restaurant	5-10
Dance hall	6-8
Conference room	8-12
Hairdressing salon	10-15
Meeting room	4-8

2● The recommended renewals with regard to the number of people that there are in the premises.

Q = n° person * m^3/h

Normal activity with no smoking	29 m^3/h per person
Normal activity with smoking	58 m^3/h per person
Light physical activity	45 m^3/h per person
Industrial warehouses and premises	60 m^3/h per person

BASIC VENTILATION CONCEPTS

3● When localised extraction is required in the place where the contaminating source is, the flow (**Q**) will be determined taking the following into account:

- Surface area of the hood
- Speed of catchment
- Speed of transport by the recommended renewals system with regard to the number of people that there are in the premises.

$Q = 3.600*V*S = m^3/h$

Q = Necessary air flow (**m^3/h**)

V = Speed of catchment (**m/h**)

S = Hood or ducting section (**m^2**)

LOCALISED EXTRACTION GUIDE COOKER HOODS			
Hood Class	Speed Catchment in m/sec On hood surface	Calculation per m2 of surface area of the hood	Speed of transport m/sec
4 sides open	from 1 to 1,2 m/sec.	3.500 to 4.500 m^3/h	from 6 to 10 m/sec.
3 sides open	from 0,85 to 1 m/sec.	3.000 to 3.500 m^3/h	
2 sides open	from 0,75 to 0,85 m/sec.	2.700 to 3.000 m^3/h	
1 side open	from 0,5 to 0,75 m/sec.	1.750 to 2.700 m^3/h	

THERMOS

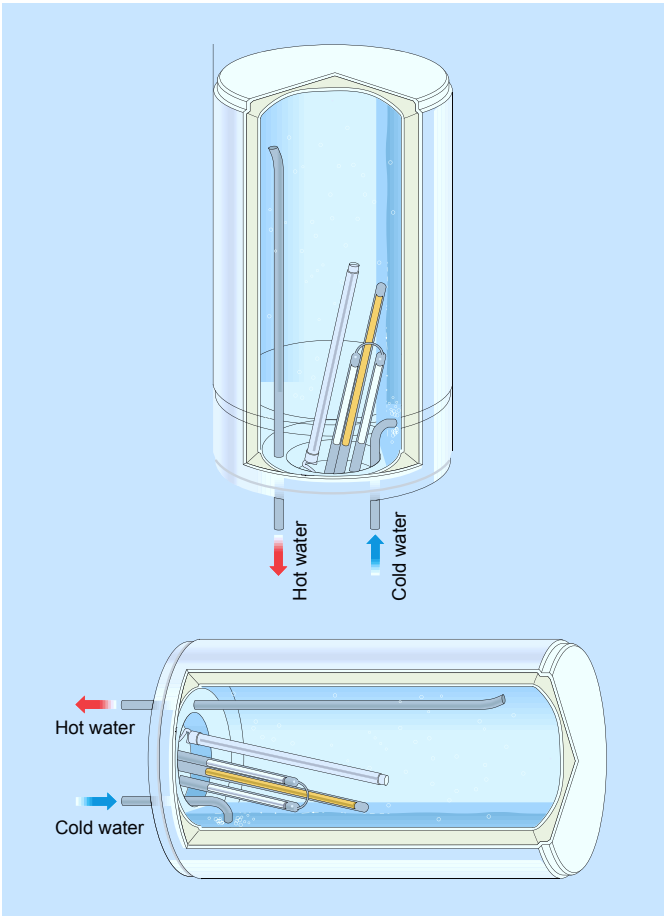
Reliability & efficiency
Installation versatility
High quality components
Security

Reliability & Efficiency

By using double resistances circuit, Cata's new thermos offer greater reliability and guarantee proper operation. They incorporate the sheathed thermostat, extending the life of the component. In addition, their best polyurethane insulation foam free of CFC and HCFC of uniform density and perfect adhesion, guarantee minimum heat loss, a much smoother operation, allowing it to be one of the most efficient thermos in the market.

Installation versatility

All the models that appear in the catalog (except for TS-30 SL) offer two installation possibilities: vertical and horizontal installation. Thanks to the position of resistors, heaters can be installed horizontally or vertically, depending on the requirements of each user.



High quality components

The range of Cata thermos incorporate an outer rolled steel covering with epoxy paint protection, which prevents oxidation and gives it an IP24 protection rating. Inside it has high efficiency insulation, ensuring minimum heat loss. All models incorporate magnesium anode, guaranteeing perfect electrochemical protection. They also have sheathed resistors with double protective enamel and independent functioning, which can be replaced without draining the heat and allowing the heat to continue operating even if one of the resistors is not working.

Security

We offer products with electrical safety: through two thermostats, one for temperature control and another for security, which switches off the thermos in case of failure of the first one; and hydraulic safety, which prevents that the pressure inside the unit exceeds the nominal design pressure.

European standard for eco-design (Dir. 2009/125/EC) and energy labeling (Dir. 2010/30/EC)

Why this new legislation?

To help with climate change and to reduce energy consumption and natural resources of the European Community and its member countries. These rules have been developed for eco-design of products (ErP Directive) and regulations for energy labeling (Energy Labelling Directive) thereof in an effort to achieve an improvement of products and the natural resources used in its production and the energy resources used in its operation.

When?

Both the ErP Directive and Energy Labelling Directive will only be used for products launched on the market beginning on 09.26.2015. Products purchased before or already in the point of sale or stores distributors may continue be sold and installed though not meeting the new requirements.

Who is affected by these regulations?

We, the manufacturers, that must follow the established policy and begin to develop our products according to the ErP Directive, so as to improve its operating performance, in order to remove less efficient technologies from the market and, so that to be visible for the customer the products have to be labeled according to the Energy Labelling Directive, which also defines the responsibilities of suppliers and sellers.

The installation engineers. They should know which products follow the new directives of Eco-Design and inform customers about the reasons of the usage of more efficient appliances. In case of installing mixed heating systems the energy labeling for complete systems must also be elaborated (including boiler, solar support, accumulator, etc.)

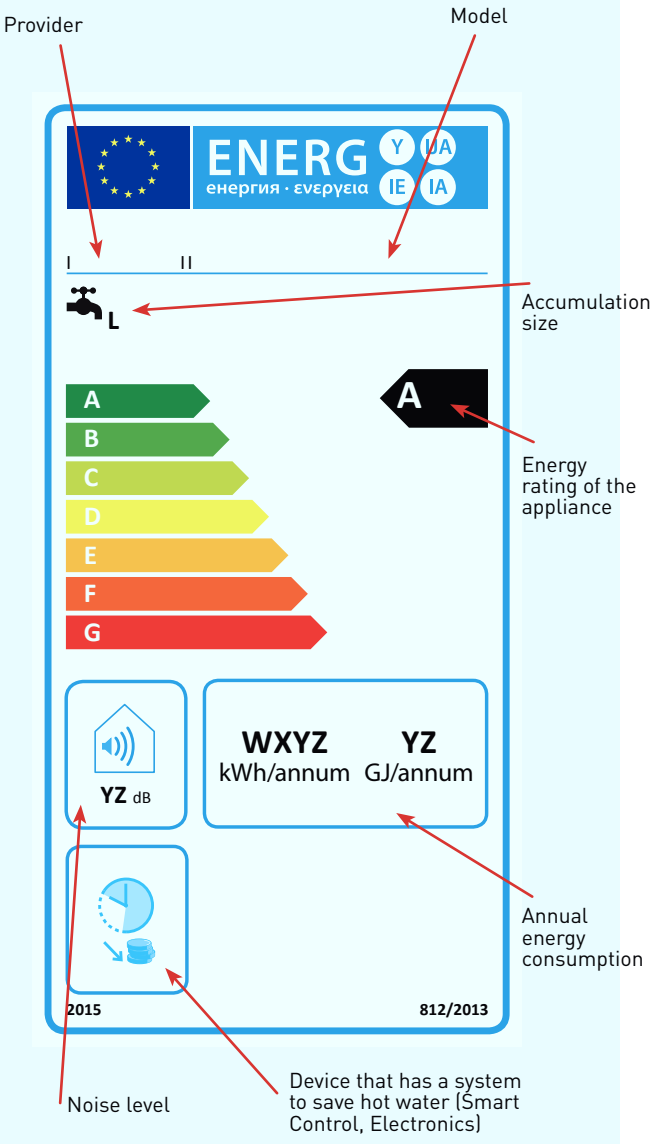
And what about electric heaters?

According to the specific regulations for appliances that produce hot water (Reg. 814/2013), it is necessary to meet efficiency minimum requirements for appliances that can be produced and labeled with EC labeling. They also have to have an energy label and a data sheet as explained in Reg. 811/2013. The initial date to include this information in appliances is September 26, 2015.

Cata guarantees:

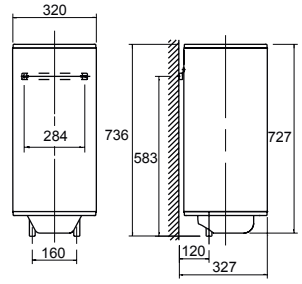
- **All our electric thermos obey the directive.**
- **Detailed technical and normative information for our customers.**
- **Customer service available for any questions.**

How do I read the energy label on my Cata thermos?



TS-30 SL Thermos

- Round outer shape
- Vertical installation
- **Integrated in a cupboard**
- **Independent sheathed resistors 2 x 800 watts**
- **Steel cask with vitrified titanium enamel at 850°C**
- **Adjustable thermostat with front control**
- Heating indicator
- Magnesium anode
- **High efficiency insulation 25mm**
- Sheathed thermostatic sensor
- Safety thermostat
- Insulating sleeves
- 10bar safety valve with drain device
- Epoxy paint coated exterior
- 30L capacity

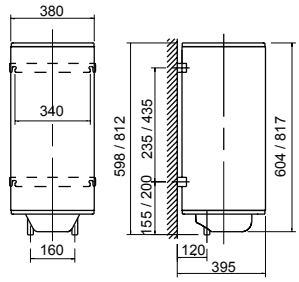


736mm high x 320mm wide x 327mm deep

TS-30 SL
Code **03100000**
EAN **8422248065351**

TS-30 / TS-50 Thermos

- Round outer shape
- **Reversible: horizontal and vertical installation**
- **Independent sheathed resistors 2 x 800 watts**
- **Steel cask with vitrified titanium enamel at 850°C.**
- **Adjustable thermostat with front control**
- Heating indicator
- Magnesium anode
- **High efficiency insulation 25mm – 28mm**
- Sheathed thermostatic sensor
- Safety thermostat
- Insulating sleeves
- 10bar safety valve with drain device
- Epoxy paint coated exterior
- 30L – 50L capacity



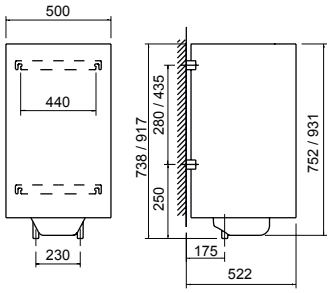
604/817mm high x 380mm wide x 395mm deep

TS-30
Código **03110000**
EAN **8422248065368**

TS-50
Código **03111000**
EAN **8422248065375**

TS-75 / TS-100 Thermos

- Round outer shape
- **Reversible: horizontal and vertical installation**
- **Independent sheathed resistors 2 x 900 watts**
- **Steel cask with vitrified titanium enamel at 850°C**
- **Adjustable thermostat with front control**
- Heating indicator
- Magnesium anode
- **High efficiency insulation 33mm**
- Sheathed thermostatic sensor
- Safety thermostat
- Insulating sleeves
- 10bar safety valve with drain device
- Epoxy paint coated exterior
- 75L – 100L capacity



752/931mm high x 500mm wide x 522mm deep

TS-75
Código **03112000**
EAN **8422248065382**

TS-100
Código **03113000**
EAN **8422248065399**

TECHNICAL SPECIFICATIONS	THERMOS				
Models	**TS-30 SL**	**TS-30**	**TS-50**	**TS-75**	**TS-100**
Code	**03100000**	**03110000**	**03111000**	**03112000**	**03113000**
EAN Code	**8422248065351**	**8422248065368**	**8422248065375**	**8422248065382**	**8422248065399**
Capacity (l)	30	30	50	75	100
Installation	vertical	vertical / horizontal	vertical / horizontal	vertical / horizontal	vertical / horizontal
Thermostat control position	front	front	front	front	front
Temperature regulation (ºC)	20-70	20-70	20-70	20-70	20-70
Heating indicator panel	•	•	•	•	•
Magnesium anode	•	•	•	•	•
Power supply (V/Hz)	230/50	230/50	230/50	230/50	230/50
Type of resistor	Independent sheathed	Independent sheathed	Independent sheathed	Independent sheathed	Independent sheathed
Number of resistors and power (W)	2x800	2x800	2x800	2x900	2x900
Power (W)	1.600	1.600	1.600	1.800	1.800
Intensity to 230 V (A)	7	7	7	7,82	7,82
Heating time to 65ºC (+50ºC)	1h 05min	1h 05min	1h 50min	2h 25min	3h 15min
Static losses to 65ºC (kWh in 24h)*	0,63	0,64	0,77	0,93	1,09
Average thickness of insulation (mm)	25	25	28	33	33
Water connection (BSP)	1/2"	1/2"	1/2"	3/4"	3/4"
Highest pressure (bar)	10	10	10	10	10
Electrical connection (cable with plug)	•	•	•	•	•
Water fall vertical Protection	•	•	•	•	•
Water projection protection	•	•	•	•	•
Protection rate	IP24	IP24	IP24	IP24	IP24
Net weight (kg)	14,5	14,5	19,5	28	33,5
Accessories					
Round cinch	-	-	-	02831001	02831001
EAN Code	-	-	-	8422248065566	8422248065566

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