

- Duct fans
- Circular
- Steel
- IP44

## Accessories

### MRS

Wall console

### BMK

Fitting clamp

### MTY

Speed controllers

### BTRN-1

Speed controllers



## Duct fans type BCA

Centrifugal duct fan

The range consists of 6 sizes and 2 types and covers an air flow range up to 1675 m<sup>3</sup>/h

### Application

- **BCA** fans are designed to be built-in in circular ducts.
- They are used for ventilation in many applications such as offices, restaurants, technical rooms or other.

### Composition

- Backward curved impeller.
- **BCA100 – BCA250**: impeller with steel plate and plastic blades.
- **BCA200LX, BCA250LX, BCA315, BCA315L**: impeller made of galvanized sheet steel
- External rotor motor 230 Vac 1ph, voltage controllable, protection class IP44, insulation class F.
- Integrated automatic thermal contact with automatic restart.
- Maintenance-free, long-life ball bearings.
- Sheet steel housing powder coated RAL 7035.
- Junction box IP44 with capacitor and cable gland.

### Accessories

- Electronic controller type **MTY-1**
- Auto transformer type **BTRN**
- Wall console type **MRS 1** (model 100 to 160), **MRS 2** model 160L to 315L)
- Clamping strip type **BMK**
- Safety grill type **BSV**

### Text for tender

- The fans shall be of the centrifugal in-line duct type with backward curved impeller and with external 230V rotor motor with thermal protection. IP44, class F, junction box IP44. Sheet steel housing powder coated RAL 7035. The maximum working temperature shall be 55°C to 80°C, depending on the model.
- **ATC** type **BCA**.



**Order example**

BCA 250 + MTY1

BCA: type of fan

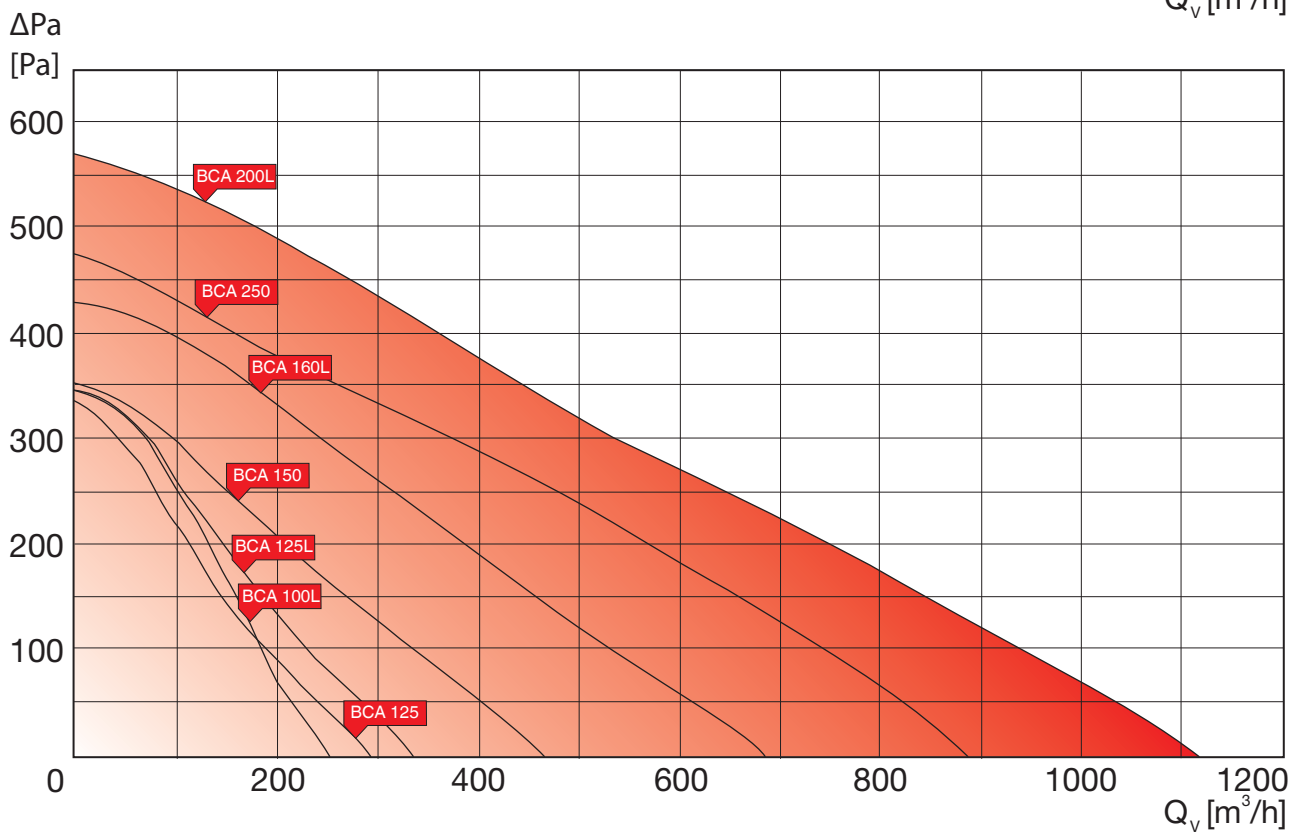
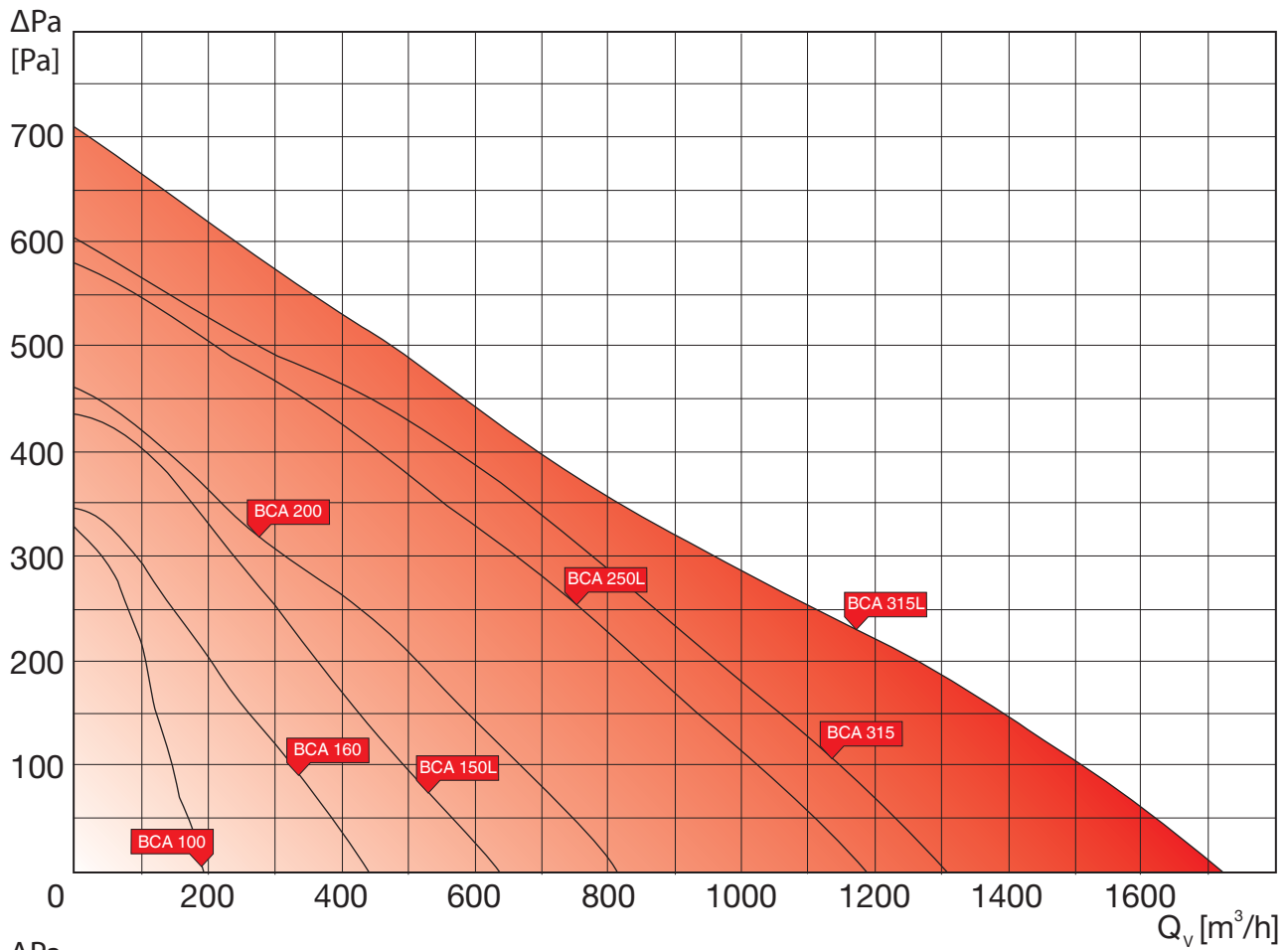
250: diameter

MTY1: speed controller

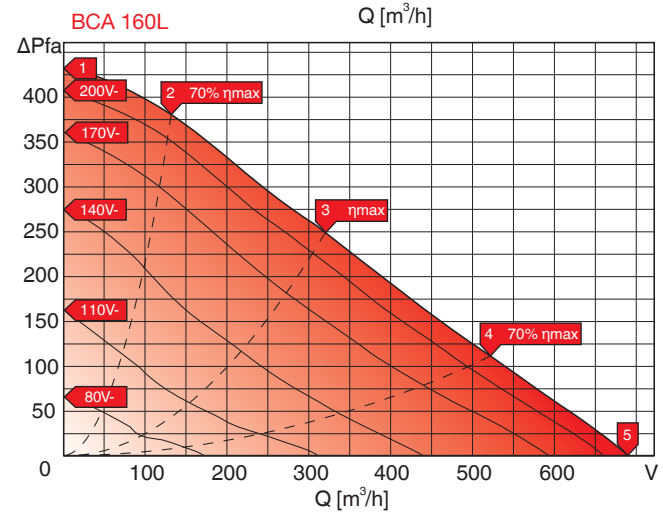
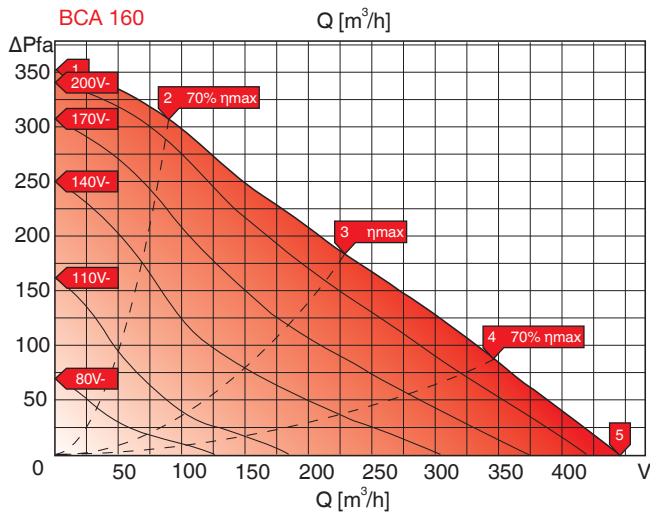
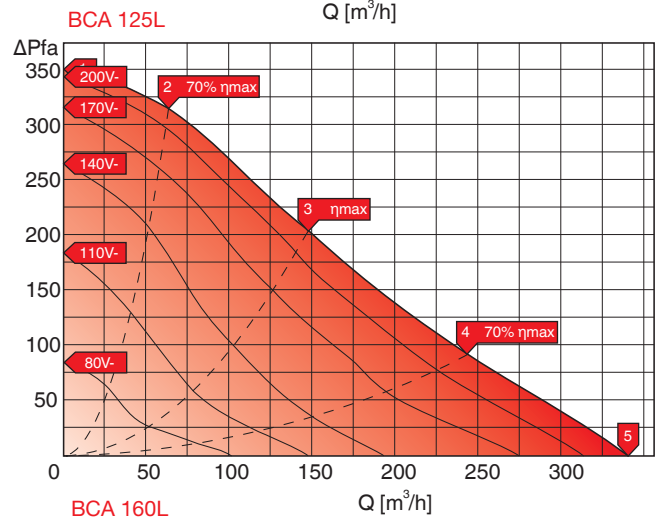
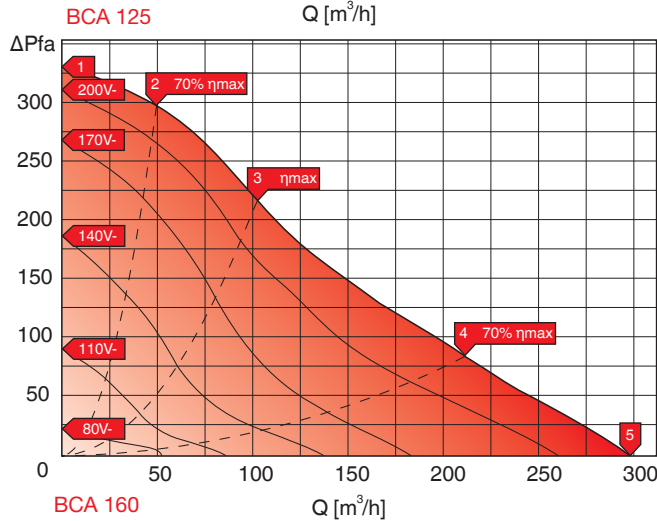
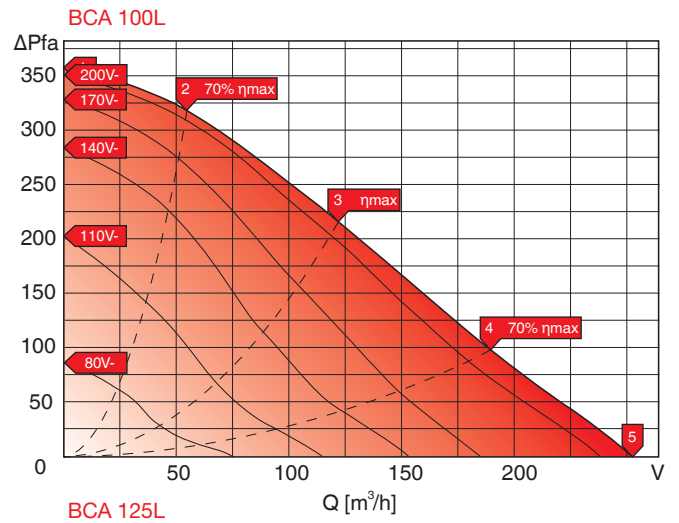
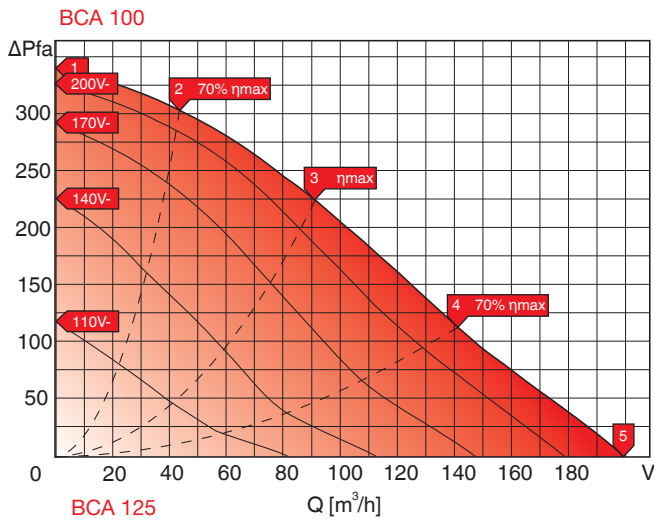
**Air performance data**

	Qv [m <sup>3</sup> /h]							
	0 Pa	50 Pa	100 Pa	150 Pa	200 Pa	250 Pa	300 Pa	400 Pa
BCA 100	199	179	158	139	122	107	92	74
BCA 100L	251	227	201	157	146	131	114	92
BCA 125	293	258	230	192	159	132	109	86
BCA 125L	338	300	260	224	192	164	139	110
BCA 160	445	399	355	313	272	232	195	153
BCA 160L	689	631	568	508	451	398	348	287
BCA 200	813	759	696	632	571	513	455	377
BCA 200L	1117	1050	970	891	816	547	545	491
BCA 250	887	832	770	705	638	571	506	432
BCA 250L	1186	1122	1048	973	900	829	758	659
BCA 315	1330	1256	1180	1100	1019	940	864	759
BCA 315L	1773	1695	1597	1493	1387	1279	1170	1018

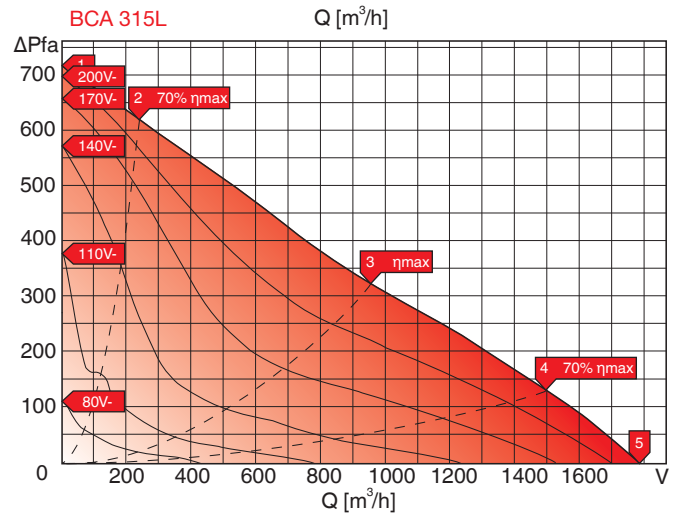
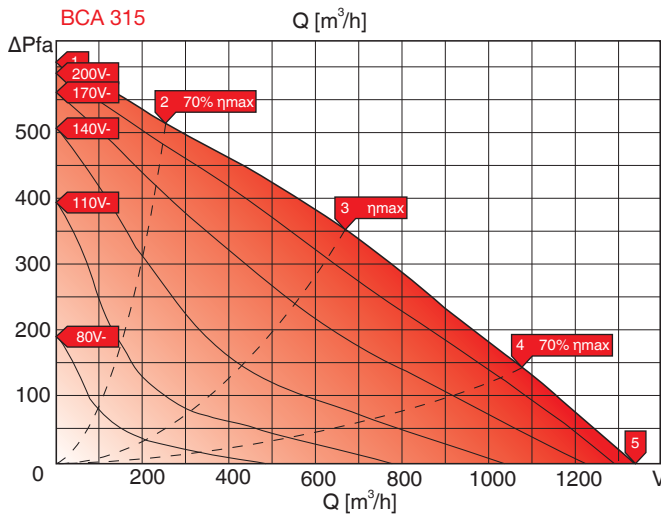
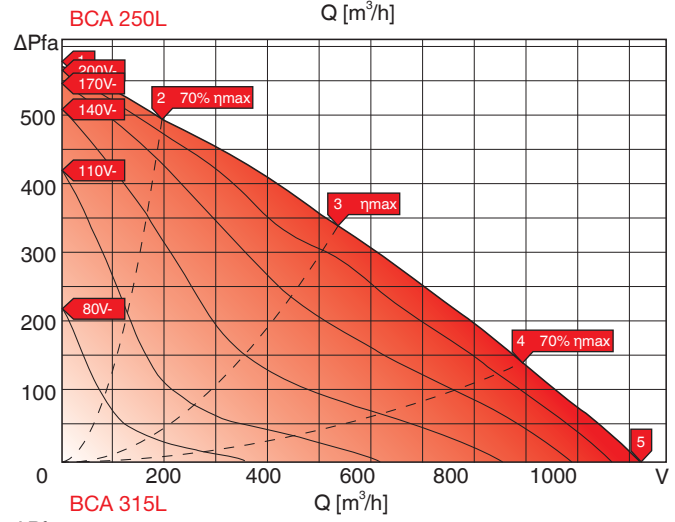
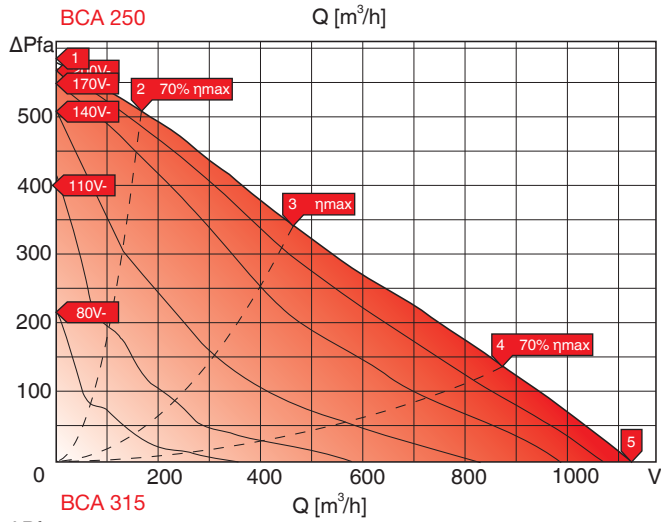
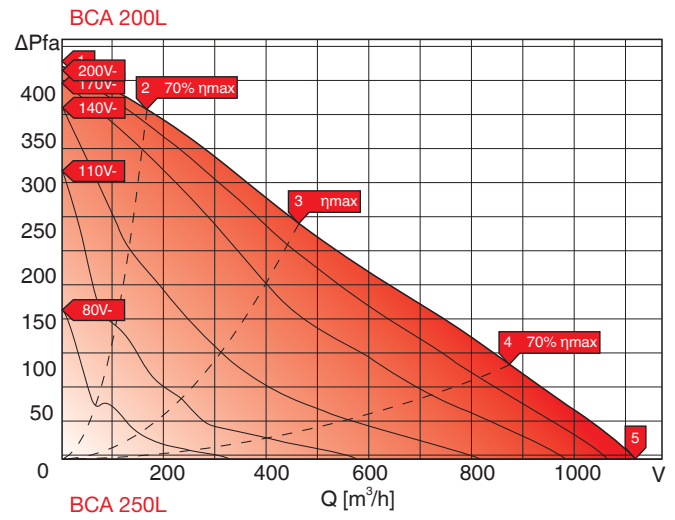
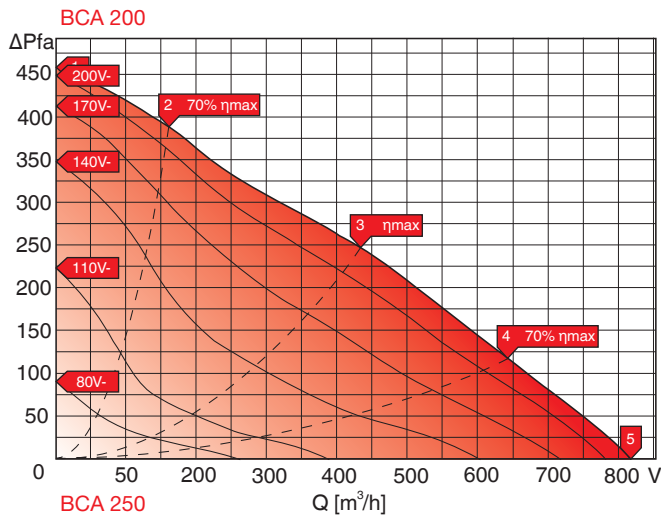
Pressure loss diagram



Pressure loss diagram



Pressure loss diagram



**Technical data**

	U [V]	P [W]	I [A]	SC <sub>T</sub>	SC <sub>E</sub>	$\eta_t$ [%]	t <sub>m</sub> [°C]	t <sub>u</sub> [°C]	t <sub>o</sub> [°C]	n [rpm]	Lwa [dB(A)]		
											Lwa 5	Lwa 6	Lwa 2
BCA 100	1 x 230	54	0.20	BTRN-1-S1	MTY-1*	11.00	80	80	-25	2190	60	60	53
BCA 100L	1 x 230	70	0.30	BTRN-1-S1	MTY-1*	11.00	60	60	-25	2410	64	64	47
BCA 125	1 x 230	55	0.20	BTRN-1-S1	MTY-1*	13.00	80	80	-25	2120	60	59	49
BCA 125L	1 x 230	70	0.30	BTRN-1-S1	MTY-1*	12.00	65	65	-25	2397	60	59	49
BCA 160	1 x 230	70	0.30	BTRN-1-S1	MTY-1*	16.00	50	50	-25	2310	66	67	49
BCA 160L	1 x 230	94	0.40	BTRN-1-S1	MTY-1*	23.00	50	50	-25	2500	71	71	57
BCA 200	1 x 230	100	0.40	BTRN-1-S1	MTY-1*	29.00	70	70	-25	2450	69	70	55
BCA 200LX	1 x 230	190	0.80	BTRN-1-S1	MTY-1*	25.00	70	70	-25	2510	70	71	55
BCA 250	1 x 230	100	0.40	BTRN-1-S1	MTY-1*	31.00	60	60	-25	2420	68	69	51
BCA 250LX	1 x 230	190	0.80	BTRN-1-S1	MTY-1*	29.00	60	60	-25	2500	69	71	56
BCA 315	1 x 230	190	0.90	BTRN-1-1	MTY-1*	33.00	60	60	-25	2694	77	78	66
BCA 315L	1 x 230	290	1.30	BTRN-1-1	MTY-1*	29.00	60	60	-25	2260	69	74	58

SC<sub>T</sub> = transformer speed controller

SC<sub>E</sub> = electronic speed controller

$\eta_t$  = maximum total efficiency

t<sub>m</sub> = maximum air temperature

t<sub>u</sub> = maximum ambient temperature

t<sub>o</sub> = minimum operating temperature

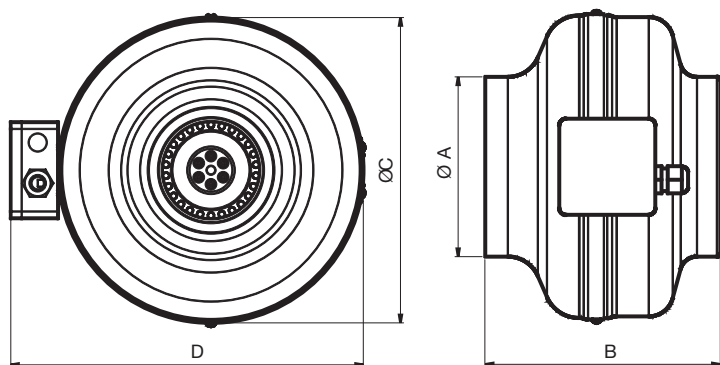
Lwa 2 = Casing sound power level

Lwa 5 = Sound power level @inlet

Lwa 6 = Sound power level @outlet

The sound power levels are measured according to DIN 45635 part 2 & 38

\*Caution: an electronic controller can produce a magnetic noise


**Dimensions**

	ØA [mm]	B [mm]	ØC [mm]	D [mm]	Kg
BCA 100	99	208,50	245	287	2,80
BCA 100L	99	208,50	245	287	2,70
BCA 125	124	193	245	287,50	2,60
BCA 125L	124	193	245	287	2,60
BCA 160	159	205	270	310	3
BCA 160L	159	228,50	344	386	4,20
BCA 200	199	226,50	344	386	4,20
BCA 200L	199	235	344	386	5,10
BCA 250	249	235	344	386	4,30
BCA 250L	249	235	344	386	5
BCA 315	314	253	402	443,80	5,50
BCA 315L	314	253	402	443,80	6,10