

- Duct fans
- Circular
- Powder coated sheet steel
- Centrifugal
- AC 230 V



Duct fans type BCA

Centrifugal duct fan

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

- Sheet steel housing powder coated RAL 7035
- Backward curved impeller
- **BCA 100L - BCA 315 10**: impeller with steel plate and plastic blades
- The fan is balanced G6.3 according to DIN ISO 1940
- 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
- Junction box IP44 with cable gland
- Thermal protection:
 - BCA 100L 20 - BCA 125L 20: thermal contact with automatic restart, internally connected
 - BCA 160 10 - BCA 315 10: thermal contact with manual restart, internally connected

Accessories

- Wall console, type **MRS**
- Transformer speed controller, type **TSC-1**
- Electronic controller, type **ESC**
- Clamping strip, type **BMK**
- Safety grille, type **BSV-S**

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. IP33, class F, junction box IP44. Sheet steel housing powder coated RAL 7035. The maximum working temperature shall be 60°C to 80°C, depending on the model.
- **Cairox** type **BCA**

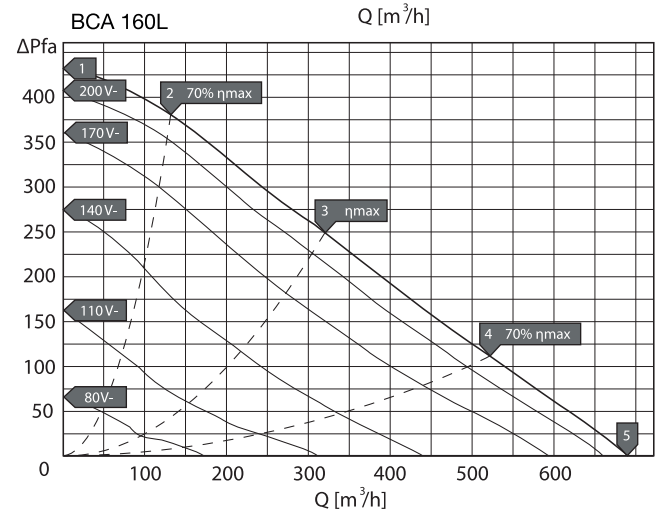
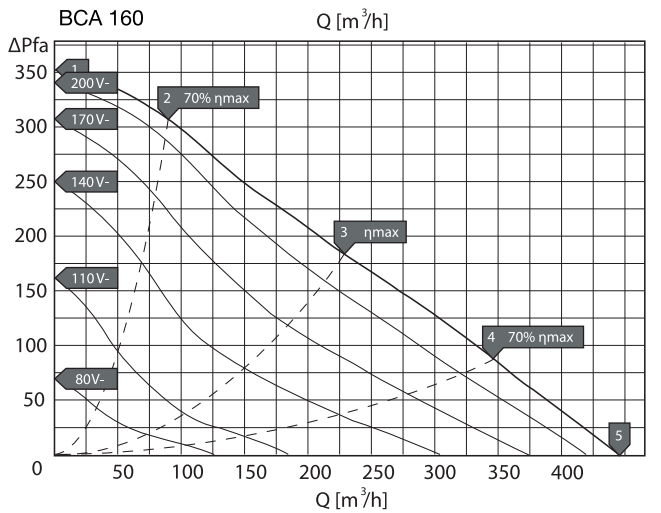
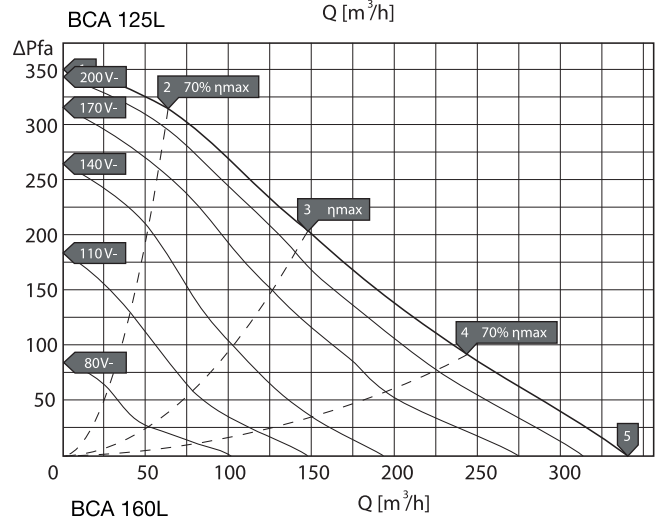
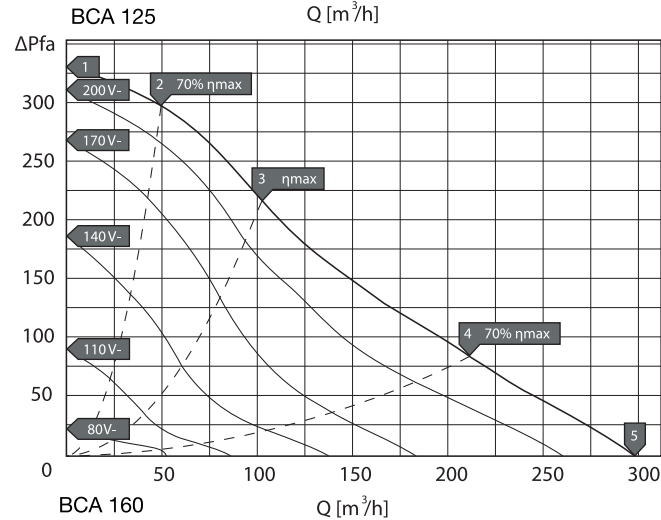
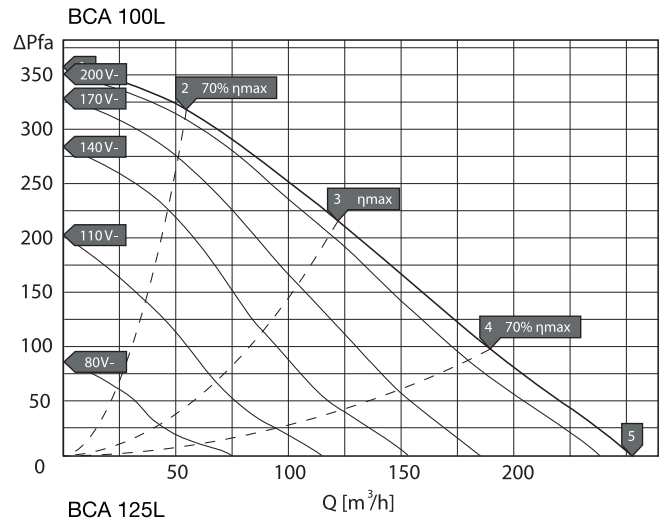
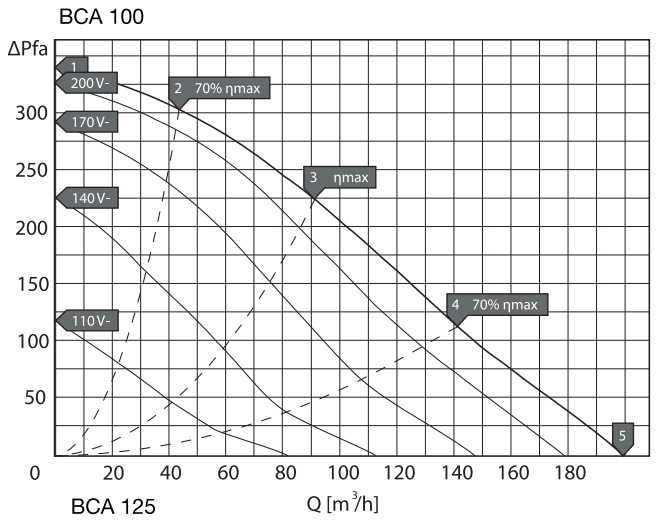
Order example**BCA 250 10 + ESC-15**

Explanation:

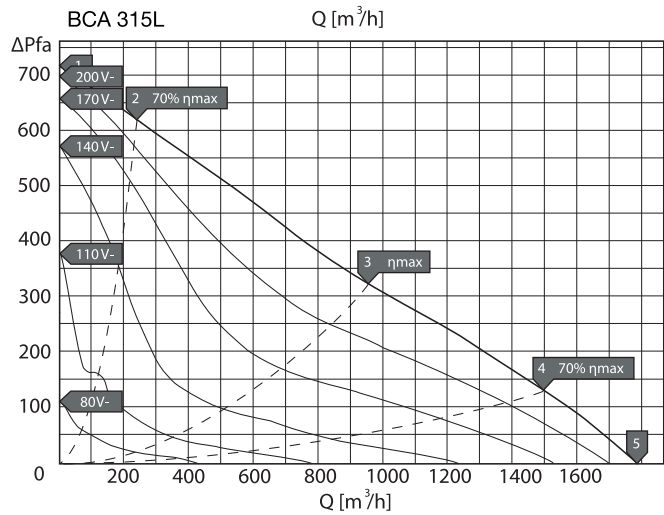
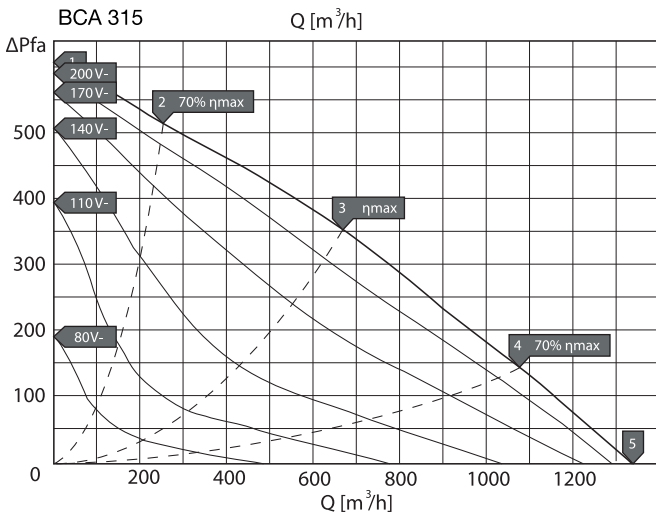
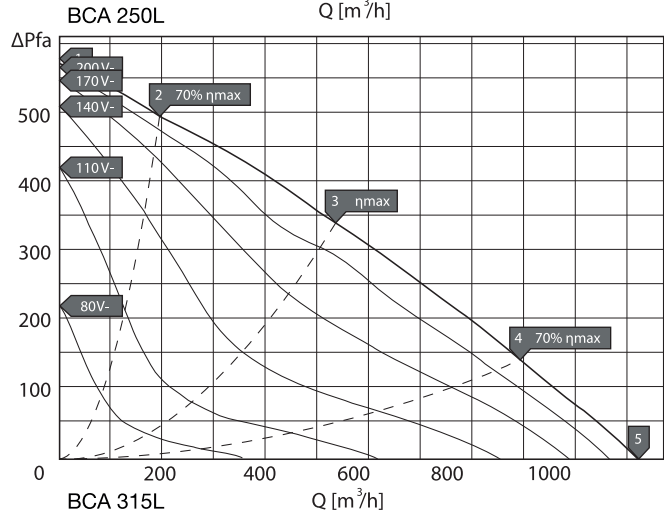
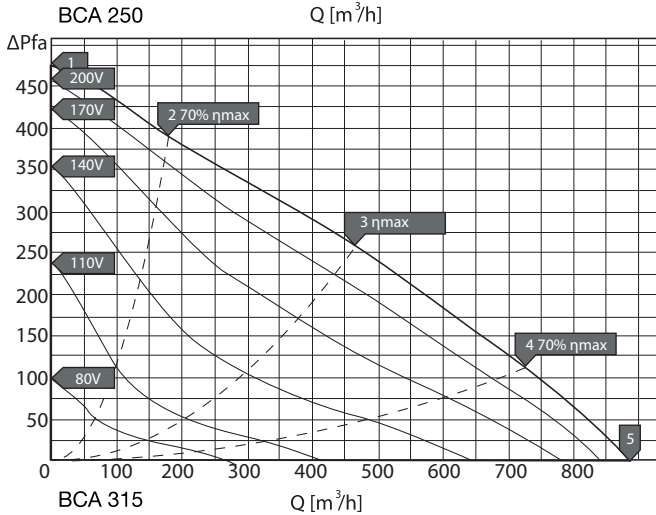
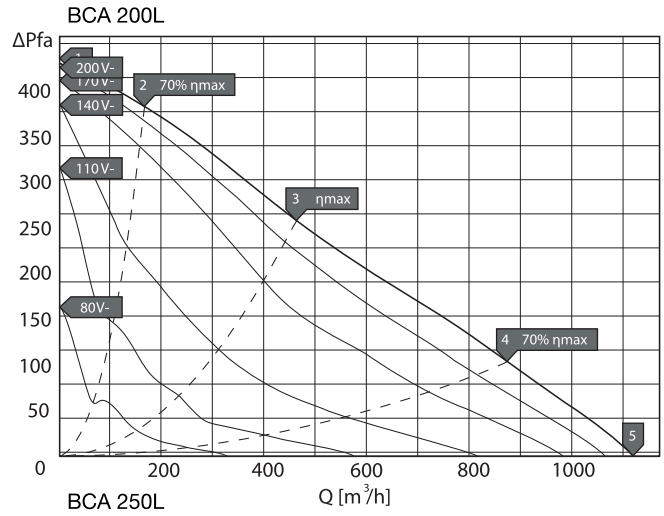
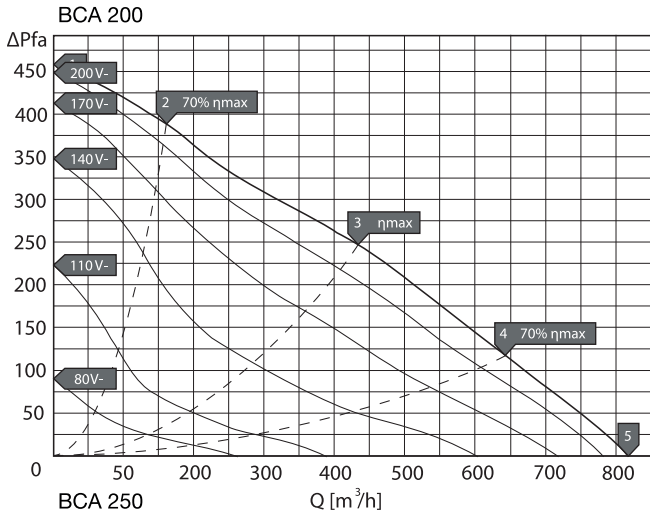
BCA = type of fan**250** = diameter**10** = version**ESC-15** = speed controller

	Air performance data								
	Q [m³/h]								
	0 Pa	50 Pa	100 Pa	150 Pa	200 Pa	250 Pa	300 Pa	400 Pa	500 Pa
BCA 100L 20	254	213	166	121	65	-	-	-	-
BCA 125L 20	302	255	199	140	70	-	-	-	-
BCA 160 10	457	403	349	287	222	160	94	-	-
BCA 200	813	748	669	588	515	429	318	141	-
BCA 200L 10	1037	985	921	857	784	700	628	450	178
BCA 250	887	823	747	664	573	481	379	164	-
BCA 250L 10	1093	1044	984	919	856	797	733	506	221
BCA 315 10	1168	1120	1063	1001	939	877	816	624	281

Selection curves

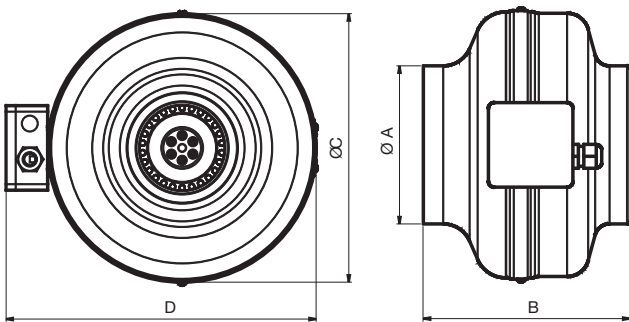


Selection curves



Technical data													
	U [V]	P [W]	I [A]	SC _T	SC _E **	η _e [%]	T _m [°C]	T _u [°C]	T _o [°C]	n [rpm]	L _{wa} [dB(A)]		
											L _{wa} 5	L _{wa} 6	L _{wa} 2
BCA 100L 20	1 x 230	28	0.2	TSC-1-15	ESC-15	19.2	60	60	-25	2390	64	66	48
BCA 125L 20	1 x 230	28	0.2	TSC-1-15	ESC-15	21.3	60	60	-25	2400	61	61	45
BCA 160 10	1 x 230	49	0.3	TSC-1-15	ESC-15	25.1	70	70	-25	2390	67	65	52
BCA 200	1 x 230	100	0.46	TSC-1-15	ESC-15	28.9	70	70	-25	2450	71	70	56
BCA 200L 10	1 x 230	154	0.9	TSC-1-15	ESC-15	34.9	75	75	-25	2710	75	75	63
BCA 250	1 x 230	100	0.46	TSC-1-15	ESC-15	30.9	60	60	-25	2420	71	74	58
BCA 250L 10	1 x 230	161	0.88	TSC-1-15	ESC-15	38.3	70	70	-25	2700	74	76	62
BCA 315 10	1 x 230	162	0.9	TSC-1-15	ESC-15	42.5	70	70	-25	2700	74	76	60

- SC_T = Transformer speed controller
- SC_E = Electronic speed controller
 - **** Caution: an electronic controller can produce a magnetic noise**
- η_t = Maximum total efficiency
- T_m = Maximum air temperature
- T_u = Maximum ambient temperature
- T_o = 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



	Dimensions				
	$\varnothing A$ [mm]	B [mm]	$\varnothing C$ [mm]	D [mm]	[kg]
BCA 100L 20	99	209	245	287	2.8
BCA 125L 20	124	193	245	288	2.6
BCA 160 10	159	205	270	310	3.2
BCA 200	199	227	344	386	4.2
BCA 200L 10	199	244	344	386	5.1
BCA 250	249	235	344	386	4.3
BCA 250L 10	249	244	344	386	5
BCA 315 10	314	253	402	444	5.7