

# CJEC/EW


**INDUSTRIAL BRUSHLESS MOTOR E.C.**


**Extraction units with large hatch to facilitate maintenance, fitted with industrial Brushless motor E.C.**



**VARIABLE SPEED DRIVE**  
VSD: Variable Speed Drive  
Drive: VSD1/B  
VSD3/B

Supply included with fan

**CONTROL**  
Supply optional accessory

**SUPPLY**  
VSD1/B:  
220-240 V 50/60 Hz  
VSD3/B:  
380-415 V 50/60 Hz

Fan:

- Galvanized sheet steel structure.
- Impeller with backward-curved blades made from galvanised sheet steel
- Approval according to Standard EN-12101-3-2002.
- Outlet mounting on any side of the box possible, during installation

Motor and electronic variable speed:

- High-efficiency Industrial Brushless Motors E.C., fitted with electronic variable speed (VSD), adjustable via external control input 0-10V.
- It is advisable to install an electronic variable speed drive (VSD) outside the working area.
- The external signal can be supplied through a manual or automatic control with 0-10 V output.
- Electronic variable speed drive (VSD), available with single-phase 220-240 V 50/60 Hz input (VSD1/B type) or three-phase 380-415 V 50/60 Hz (VSD3/B type).

- By default, the electronic variable speed drive (VSD) is delivered programmed for constant speed.

- Working fan temperature: -25 °C +60 °C.
- Working temperature (VSD): -25 °C +50 °C.

Finish:

- Anticorrosive galvanized sheet steel

## Order code with variable speed drive (VSD) included

**CJEC/EW — 280 — 4 — B — T — D**

CJEC/EW: 400°C/2h high-efficiency belt-driven extraction units, "Efficient work", with horizontal outlet air

Impeller size

Number of poles:  
4=1410 r/min  
6=960 r/min

Industrial Brushless Motors E.C.

M: Fitted with VSD1/B, electronic variable speed, single phase power supply 220-240 V 50/60 Hz.  
T: Fitted with VSD3/B, electronic variable speed, three-phase power supply 380-415 V 50/60 Hz.

D: Standard version, VSD supplied programmed for constant speed.  
P: Supplied with VSD programmed for pressure control and Si-Presión pressure transmitter  
K: Supplied with VSD programmed for pressure control and built into a BOXPRES KIT/B box.

## Technical characteristics

Model	Speed min/max (r/min)	Single-phase VSD 230 V 50/60 Hz		Three-phase VSD 400 V 50/60 Hz		Maximum electrical power (W)	Maximum airflow min/max (m³/h)	Sound pressure level Lp dB(A)		Weight approx. (Kg)
		Maximum current input (A)	Model VSD	Maximum current input (A)	Model VSD			Inlet min/max	Outlet min/max	
CJEC/EW-280-4	300 / 1410	1.14	VSD1/B-0.37	0.34	VSD3/B-0.75	140	290 / 1370	21 / 55	26 / 60	61
CJEC/EW-315-4	300 / 1410	1.44	VSD1/B-0.37	0.42	VSD3/B-0.75	175	350 / 1650	25 / 59	29 / 63	63
CJEC/EW-355-4	300 / 1410	2.79	VSD1/B-0.37	0.82	VSD3/B-0.75	340	640 / 3000	27 / 61	32 / 66	75
CJEC/EW-400-4	300 / 1410	5.82	VSD1/B-0.75	1.37	VSD3/B-1.5	660	905 / 4250	31 / 65	35 / 69	79
CJEC/EW-450-4	300 / 1410	7.94	VSD1/B-0.75	1.87	VSD3/B-1.5	905	1170 / 5500	34 / 68	38 / 72	89
CJEC/EW-500-4	300 / 1410	15.89	VSD1/B-1.5	3.74	VSD3/B-1.5	1825	1895 / 8900	36 / 70	41 / 75	110
CJEC/EW-560-6	300 / 960	11.51	VSD1/B-1.5	2.71	VSD3/B-1.5	1325	2970 / 9500	52 / 77	57 / 82	129

## Acoustic features

The specified values are determined according to free field measurements of pressure and sound levels in dB(A) at an equivalent distance of twice the fan's span plus the turbine's diameter, with a minimum of 1.5 m.

Sound power Lw(A) spectrum in dB(A) via frequency band in Hz.

Values taken at inlet with maximum airflow.

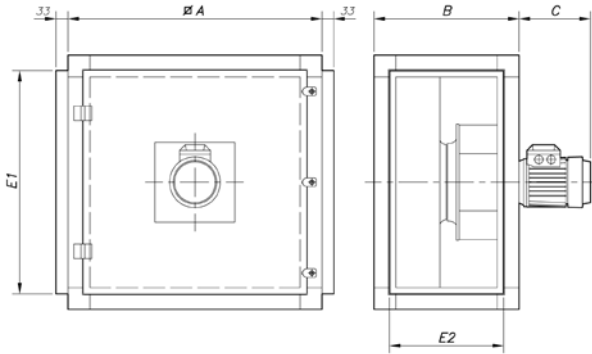
Model	Values taken at inlet with maximum airflow.								Values taken at outlet with maximum airflow.							
	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000
280-4	42	47	62	59	60	58	53	45	42	45	65	66	65	65	58	49
315-4	53	62	64	64	64	62	54	42	45	59	67	69	68	68	60	53
355-4	52	62	68	63	64	66	62	53	48	67	68	71	72	71	64	55
400-4	60	69	72	65	68	69	65	56	52	70	73	73	75	74	70	59
450-4	56	65	71	76	72	71	65	57	56	69	75	77	79	76	71	61
500-4	57	62	73	76	76	75	69	60	58	67	78	79	83	80	74	63
560-6	69	78	80	81	82	82	79	57	65	79	85	86	90	86	81	72



**EFFICIENT WORK**



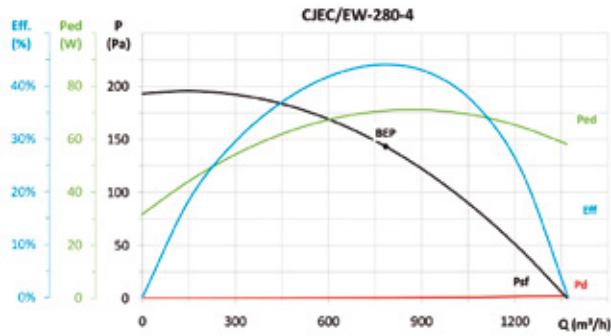
**Dimensions in mm**



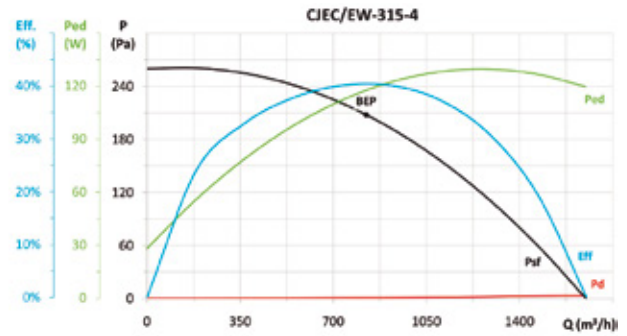
Model	ØA	B	C	E1	E2
CJEC/EW-280	700	400	200	618	318
CJEC/EW-315	700	400	200	618	318
CJEC/EW-355	800	505	200	718	423
CJEC/EW-400	800	505	225	718	423
CJEC/EW-450	900	550	225	818	468
CJEC/EW-500	900	550	260	818	468
CJEC/EW-560	1000	700	290	918	618



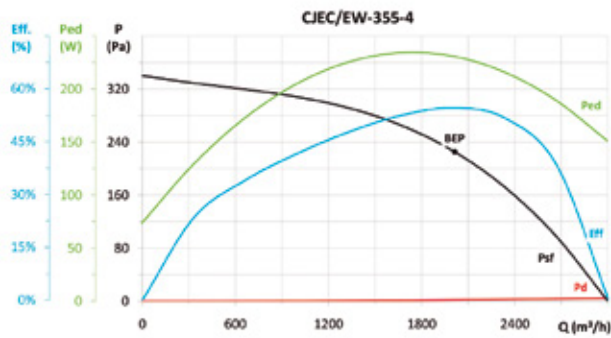
**Erp. Characteristic curves and ErP data**



MC	EC	SR	Cc	$\eta_e$ (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
C	S	-	-	-	-	0,071	784	143	1410	INCLUDED

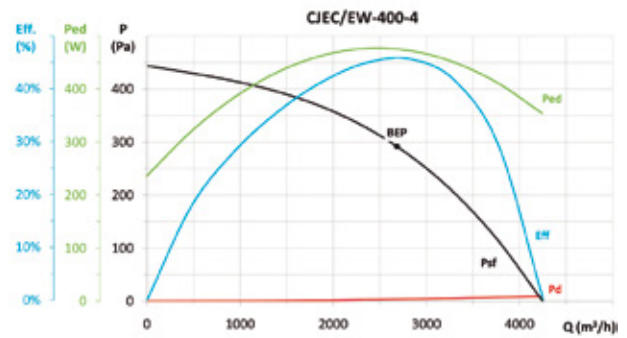


MC	EC	SR	Cc	$\eta_e$ (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
C	S	-	-	-	-	0,118	824	208	1410	INCLUDED



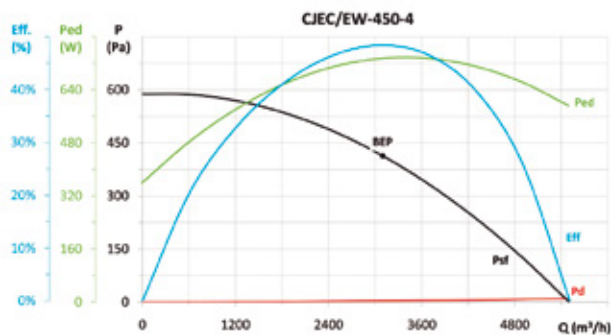
MC	EC	SR	Cc	$\eta_e$ (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
C	S	1,00	1,13	61,8%	79,0	0,231	2012	225	1410	INCLUDED

\* $\eta_e$  (%) = Eff. (%) x Cc



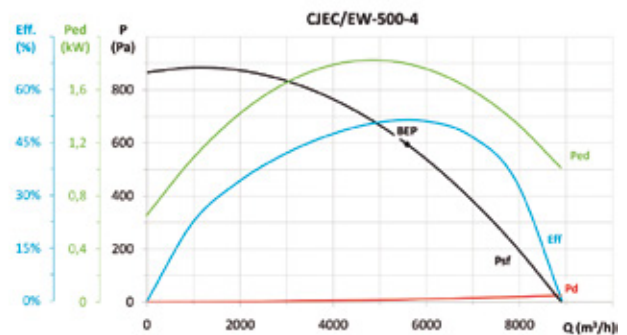
MC	EC	SR	Cc	$\eta_e$ (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
C	S	1,00	1,11	50,8%	64,7	0,475	2685	292	1410	INCLUDED

\* $\eta_e$  (%) = Eff. (%) x Cc



MC	EC	SR	Cc	$\eta_e$ (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
C	S	1,00	1,10	53,1%	65,0	0,735	3097	414	1410	INCLUDED

\* $\eta_e$  (%) = Eff. (%) x Cc

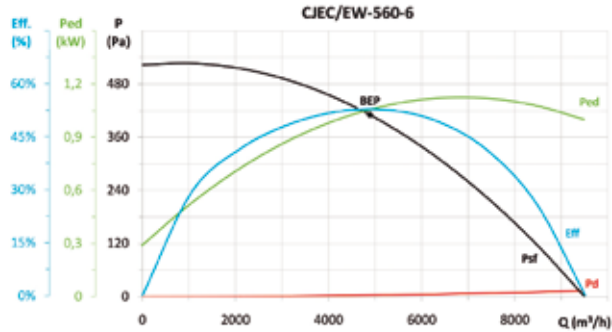


MC	EC	SR	Cc	$\eta_e$ (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
C	S	1,01	1,07	55,0%	62,8	1,798	5587	595	1410	INCLUDED

\* $\eta_e$  (%) = Eff. (%) x Cc



## Erp. Characteristic curves and ErP data

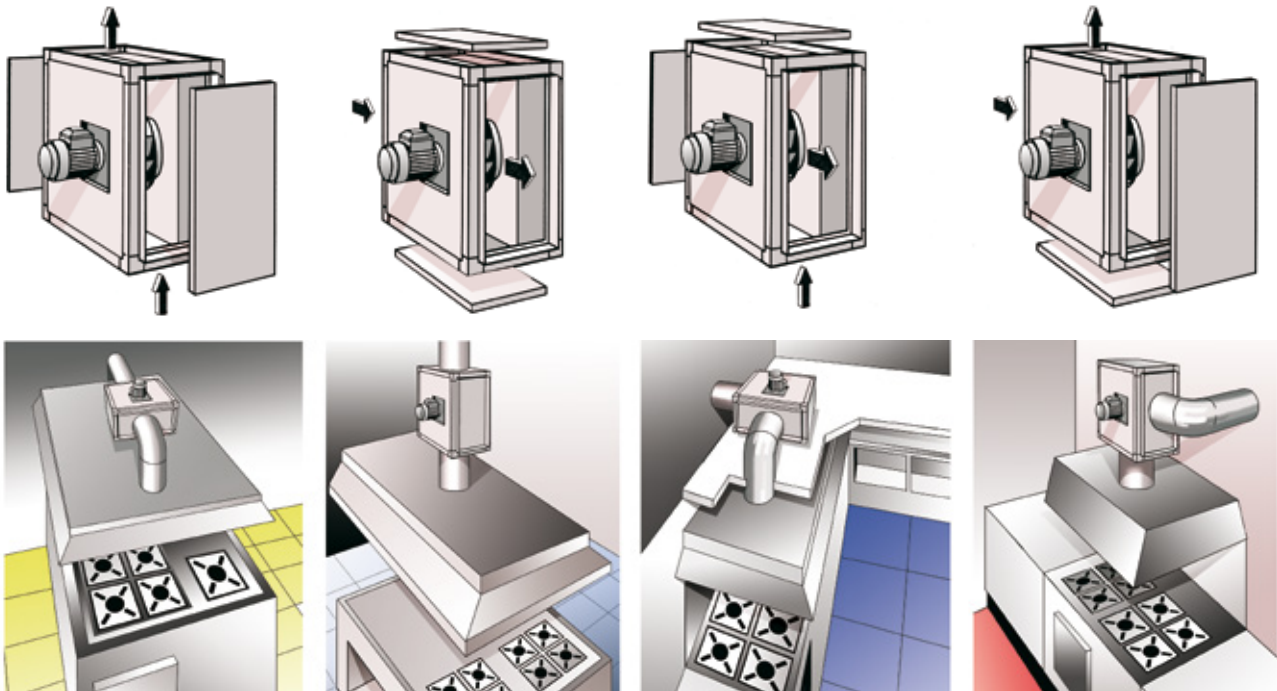


MC	EC	SR	Cc	$\eta_a$ (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
C	S	1,00	1,09	57,4%	67,6	1,055	4889	410	960	INCLUDED

\* $\eta_{pe}$  (%) = Eff. (%) x Cc

### CJEC installations

Possibility of installing the CJEC series by changing the position of the inlet and outlet panels



### Accessories

See accessories section.

