HIGHLY EFFICIENT IE3-COMPLIANT THREE-PHASE MOTORS

TCR/R/EW
CJTCR/R/EW

400ºC/2h high-efficiency centrifugal fans and extraction units with backward-curved impeller fitted with IE3 asynchronous motor adjustable electronically.

VARIABLE SPEED DRIVE
VSD: Variable Speed Drive.
. VSD1/A-RFM
. VSD3/A-RFT

Supply on request

CONTROL
Supply optional accesory

SUPPLY
VSD1/A-RFM:
220-240 V 50/60 Hz
VSD3/A-RFT:
380-415 V 50/60 Hz

TCR/R/EW: 400ºC/2h robust high-efficiency centrifugal single-inlet fans to work outside fire danger zones fitted with impeller with backward-curved blades fitted with IE3 asynchronous motor adjustable electronically
CJTCR/R/EW: 400ºC/2h robust high-efficiency single-inlet fans with soundproofed plate to work outside fire danger zones, fitted with IE3 asynchronous motor adjustable electronically

Fan:
- Steel sheet casing
- Impeller with backward-curved blades made from robust sheet steel and heat-resistant paint
- Approval according to Standard EN 12101-3:2002/AC:2006

Motor and electronic variable speed:
- Motors with IE3 efficiency adjustable electronically.
- The variable speed drive VSD will be supplied as per order.
- Electronic variable speed drive (VSD) can be adjusted by external 0-10 V signal.
- It is advisable to install sinusoidal filters between the fan and the electronic variable speed drive (VSD) when they are far apart.
- 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). Standard protection IP20 til 15 Hp, higher powers IP55. On demand IP66 protection til 10 CV
- By default, the electronic variable speed drive (VSD) is delivered programmed for constant speed.
- Working temperature (VSD): -25 ºC +50 ºC.
- Class F motors, with ball bearings, IP55 protection.
- Three-phase 230/400 V 50 Hz. (up to 4kW) and 400/690 V 50 Hz. (power over 4kW)
- Max. air temperature to transport: S1 Service -20ºC+ 250ºC for ongoing use, S2 Service S2 200ºC/2h, 300ºC/2h and 400ºC/2h

Finish:
- Anticorrosive finish in polyester resin polymerised at 190ºC, after alkaline degreasing with nanotechnology treatment and phosphate-free.
- CJTCR/R/EW: Anticorrosive galvanized sheet steel

Fan order code

TCR/R/EW — 1240 — 2T — IE3

TCR/R/EW	1240	2T	IE3
TCR/R/EW: 400ºC/2h Highly-efficient centrifugal fans with backward-curved impeller, “Efficient work” CJTCR/R/EW: 400ºC/2h highly-efficient extraction units with backward-curved impeller, “Efficient work”	Impeller size	Number of poles: 2T=2850 r/min 4T=1400 r/min 6T=900 r/min	Three-phase motors IE3

Order code with variable speed drive (VSD) included

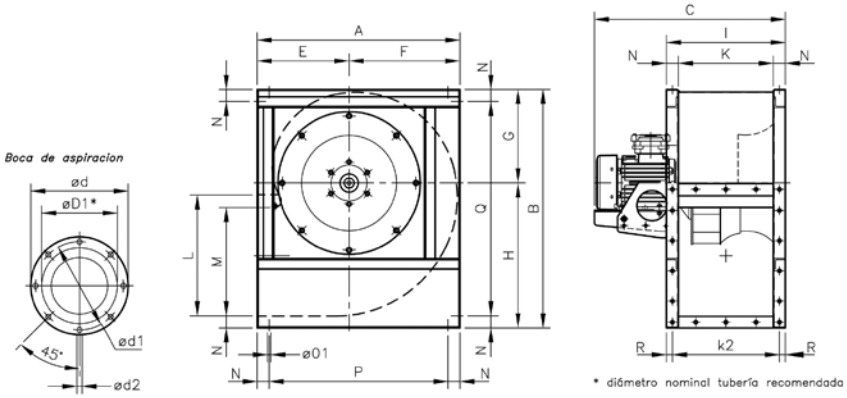
TCR/R/EW — 1240 — 2T — IE3 — VSD1 — D

TCR/R/EW	1240	2T	IE3	VSD1	D
TCR/R/EW: 400ºC/2h high-efficiency centrifugal fans with backward-curved impeller, “Efficient work” CJTCR/R/EW: High-efficiency 400ºC/2h extraction units with with backward-curved impeller, “Efficient work”	Impeller size	Number of poles: 2T=2850 r/min 4T=1400 r/min 6T=900 r/min	Three-phase motor IE3	VSD1: Fitted with VSD1/A-RFM, electronic variable speed, single phase power supply 220-240 V 50/60 Hz. VSD3: Fitted with VSD3/A-RFT, 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. Only available for fans with motor power less than or equal to 2.2 kW.

Technical characteristics

Model	Speed min/max	Single-phase VSD 230 V 50/60 Hz		Three-phase VSD 400 V 50/60 Hz		Maximum current Motor 50 Hz (A)			Installed power	Maximum airflow min/max	Sound pressure level Lp dB(A)		Weight approx.	
	(r/min)	Maximum current input (A)	Model VSD	Maximum current input (A)	Model VSD	230V	400V	690V	(kW)	(m^3/h)	TCR/R/EW min/max	CJTCR/R/EW min/max	TCR/R/EW min/max	CJTCR/R/EW min/max
TCR/R/EW CJTCR/R/EW 1240-2T	1160/2900	-	-	9,44	VSD3/A-RFT-5.5	13	7,5	-	4,00	4440 / 11100	66 / 86	61 / 81	93	147
TCR/R/EW CJTCR/R/EW 1240-4T	570/1420	8,32	VSD1/A-RFM-1	2,31	VSD3/A-RFT-1	2,82	1,62	-	0,75	2330 / 5800	51 / 71	46 / 66	71	125
TCR/R/EW CJTCR/R/EW 1445-2T	1175/2935	-	-	17,45	VSD3/A-RFT-10	-	13,9	8,06	7,50	6605 / 16500	67 / 87	62 / 82	126	210
TCR/R/EW CJTCR/R/EW 1445-4T	580/1455	11,87	VSD1/A-RFM-2	3,30	VSD3/A-RFT-2	4,07	2,34	-	1,10	3200 / 8030	52 / 72	47 / 67	93	177
TCR/R/EW CJTCR/R/EW 1650-4T	575/1440	15,78	VSD1/A-RFM-2	4,38	VSD3/A-RFT-2	5,41	3,11	-	1,50	4195 / 10500	54 / 74	48 / 68	114	189
TCR/R/EW CJTCR/R/EW 1650-6T	375/940	8,69	VSD1/A-RFM-1	2,41	VSD3/A-RFT-1	3,36	1,93	-	0,75	2955 / 7410	44 / 64	39 / 59	111	186
TCR/R/EW CJTCR/R/EW 1856-4T	575/1440	-	-	7,20	VSD3/A-RFT-5.5	10,7	6,15	-	3,00	6050 / 15150	59 / 79	54 / 74	152	273
TCR/R/EW CJTCR/R/EW 1856-6T	380/945	12,43	VSD1/A-RFM-2	3,45	VSD3/A-RFT-2	4,68	2,69	-	1,10	4040 / 10050	50 / 70	45 / 65	145	266
TCR/R/EW CJTCR/R/EW 2063-4T	585/1465	-	-	12,81	VSD3/A-RFT-7.5	-	10,3	5,97	5,50	9765 / 24450	60 / 80	55 / 75	225	380
TCR/R/EW CJTCR/R/EW 2063-6T	380/950	16,64	VSD1/A-RFM-2	4,62	VSD3/A-RFT-2	6,43	3,7	-	1,50	6440 / 16100	51 / 71	46 / 66	209	364
TCR/R/EW CJTCR/R/EW 2271-4T	590/1470	-	-	25,10	VSD3/A-RFT-15	-	21,4	12,4	11,00	13890 / 34610	65 / 85	59 / 79	315	508
TCR/R/EW CJTCR/R/EW 2271-6T	390/970	-	-	7,39	VSD3/A-RFT-5.5	12	6,91	-	3,00	9145 / 22750	56 / 76	51 / 71	280	473

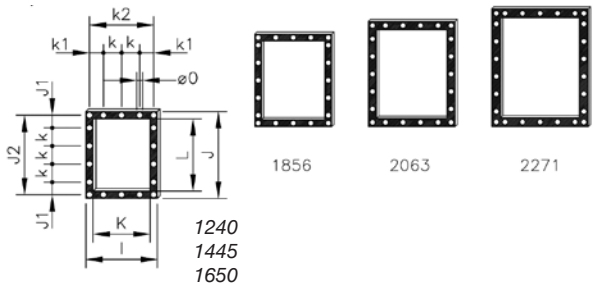
Dimensions in mm



Model	A	B	C	ØD1*	Ød	Ød1	Ød2	E	F	G	H	I	M	N	Ø01	P	Q	R
TCR/R/EW 1240-2T	673	790	734	400	472	444	M.8	305	368	310	480	395	358.5	40	11	593	710	20
TCR/R/EW 1240-4T	673	790	634	400	472	444	M.8	305	368	310	480	395	358.5	40	11	593	710	20
TCR/R/EW 1445-2T	765	880	815	450	522	494	M.8	350	415	339	541	445	407	45	11	675	790	20
TCR/R/EW 1445-4T	765	880	727	450	522	494	M.8	350	415	339	541	445	407	45	11	675	790	20
TCR/R/EW 1650-4T	832	970	770.5	500	582	555	M.10	375	457	378	592	490	445	45	13	742	880	20
TCR/R/EW 1650-6T	832	970	770.5	500	582	555	M.10	375	457	378	592	490	445	45	13	742	880	20
TCR/R/EW 1856-4T	925	1084	857.5	560	645	615	M.10	415	510	424	660	550	493	50	13	825	984	25
TCR/R/EW 1856-6T	925	1084	828	560	645	615	M.10	415	510	424	660	550	493	50	13	825	984	25
TCR/R/EW 2063-4T	1037	1218	955	630	720	688	M.10	465	572	477	741	620	530	60	13	917	1098	30
TCR/R/EW 2063-6T	1037	1218	932	630	720	688	M.10	465	572	477	741	620	530	60	13	917	1098	30
TCR/R/EW 2271-4T	1173	1375	1149	710	800	768	M.12	525	648	538	837	690	603.5	65	13	1043	1245	32.5
TCR/R/EW 2271-6T	1173	1375	1112	710	800	768	M.12	525	648	538	837	690	603.5	65	13	1043	1245	32.5

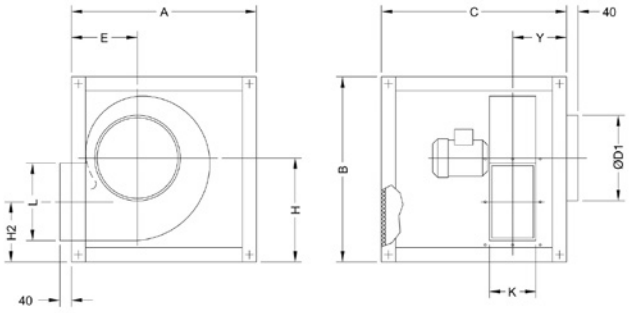
Dimensions in mm

Outlet



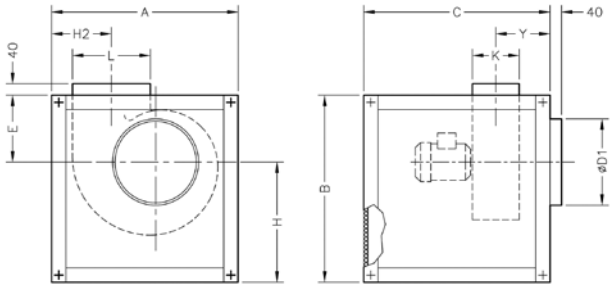
Model	I	J	J1	J2	K	k	k1	k2	L	Ø0
TCR/R/EW-1240	395	480	70	440	315	100	77.5	355	400	11
TCR/R/EW-1445	445	540	99	498	355	100	102.5	405	450	11
TCR/R/EW-1650	490	590	87.5	550	400	125	100	450	500	13
TCR/R/EW-1856	550	660	55	610	450	125	125	500	560	13
TCR/R/EW-2063	620	750	95	690	500	125	92.5	560	630	13
TCR/R/EW-2271	690	840	75	775	560	125	62.5	625	710	13

Standard supply: LG-270



Model	A	B	C	ØD1	E	H	H2	K	L	Y
CJTCR/R/EW-1240	970	970	970	400	312	549	308	315	400	307.5
CJTCR/R/EW-1445	1070	1070	1070	450	357	610	339	355	450	333.5
CJTCR/R/EW-1650	1160	1160	1160	500	382	660	365	400	500	355
CJTCR/R/EW-1856	1260	1260	1050	560	422	727	399	450	560	360
CJTCR/R/EW-2063	1400	1400	1200	630	472	810	444	500	630	395
CJTCR/R/EW-2271	1555	1555	1355	710	532	906	560	560	715	430

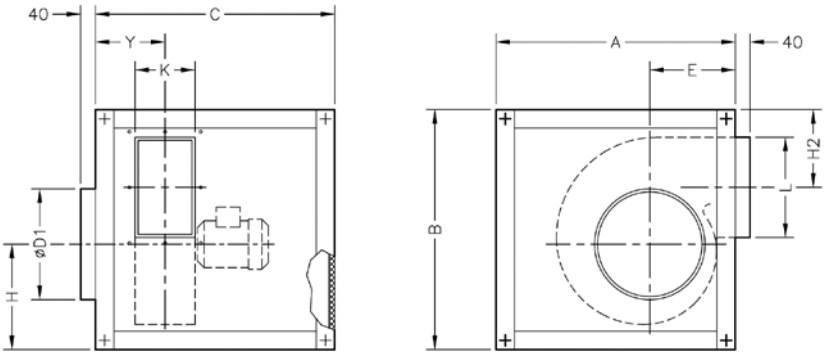
Supplied on request: LG-0



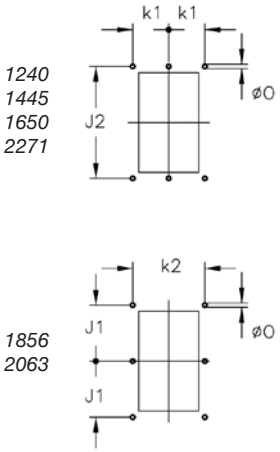
Model	A	B	C	ØD1	E	H	H2	K	L	Y
CJTCR/R/EW-1240	970	970	970	400	533	437	322	315	400	307.5
CJTCR/R/EW-1445	1070	1070	1070	450	586	484	367	355	450	333.5
CJTCR/R/EW-1650	1160	1160	1160	500	634.5	525.5	391.5	400	500	355
CJTCR/R/EW-1856	1260	1260	1050	560	681.5	578.5	442.5	450	560	360
CJTCR/R/EW-2063	1400	1400	1200	630	759	641	482	500	630	395
CJTCR/R/EW-2271	1555	1555	1355	710	838	717	518.5	560	715	430

Dimensions in mm

Supplied on request: LG-90



Detail of drills outlet



Model	A	B	C	ØD1	E	H	H2	K	L	Y
CJTCR/R/EW-1240	970	970	970	400	312	379	350	315	400	307.5
CJTCR/R/EW-1445	1070	1070	1070	450	357	408	391	355	450	333.5
CJTCR/R/EW-1650	1160	1160	1160	500	382	447	419	400	500	355
CJTCR/R/EW-1856	1260	1260	1050	560	422	495	438	450	560	360
CJTCR/R/EW-2063	1400	1400	1200	630	472	546	488	500	630	395
CJTCR/R/EW-2271	1555	1555	1355	710	532	607	532	560	715	430

Model	k1	k2	J1	J2	Ø0
CJTCR/R/EW-1240	177.5	-	-	440	11
CJTCR/R/EW-1445	202.5	-	-	498	11
CJTCR/R/EW-1650	225	-	-	550	13
CJTCR/R/EW-1856	-	500	305	-	13
CJTCR/R/EW-2063	-	560	345	-	13
CJTCR/R/EW-2271	312.5	-	-	775	13

Erp. Characteristic curves and ErP data

See CMR/EW curves

Positions

LG 270 standard supply

LG0 LG90 LG180 LG270 RD 0 RD 90 RD 180 RD 270

Accessories

See accessories section.

INT VSD1/A-RFM VSD3/A-RFT RPA B BD BIC ACE AET CONTROL UNITS AND SENSORS TEJ VIS