TCR/R
CJTCR/R

TCR/R

CJTCR/R

400 ºC/2h centrifugal extractor fans and extractor fan units with reaction impeller

TCR/R: 400 ºC/2h centrifugal, single inlet extractor fans for operation outside the fire risk zone, with extreme robustness and fitted with a backward-curved impeller
CJTCR/R: Extremely robust 400 ºC/2h single inlet extractor fan units with acoustically insulated box, for outdoor operation in fire risk zones

Fan:
- Sheet steel casing.
- Impeller with reaction blades in robust sheet steel, coated with heat resistant paint.
- Approved in accordance with standard EN 12101-3, with certificate no.: 0370-CPR-0400 (TCR/R) and 0370-CPR-0401 (CJTCR/R).

Motor:
- Class F motors with ball bearings and IP55 protection.
- Multi voltage motor, special design valid for 220/380V 60Hz, 254/440V 60Hz, 265/460V 60Hz, 277/480V 60Hz
- Maximum temperature of air to be carried: S1 continuous operation -20 ºC +250 ºC, S2 operation 300 ºC/2h and 400 ºC/2h.

Finish:
- Anti-corrosive finish of polyester resin polymerised at 190 ºC, previously degreased with phosphate-free nanotechnological treatment.
- CJTCR/R: Anti-corrosive finished galvanised sheet steel.

On request:
- Extractor fans with 2-speed motors.
- Belt-driven extractor fans.

Extremely robust, high performance reaction impeller

Order code

TCR/R — 1650 — 4T — F-400 — 60Hz

TCR/R: 400 ºC/2h centrifugal extractor fans with reaction impeller

CJTCR/R: 400 ºC/2h extractor fan units with reaction impeller

Impeller size

Number of motor poles
2=3500 r/min. 60 Hz
4=1680 r/min. 60 Hz
6=1080 r/min. 60 Hz
8=900 r/min. 60 Hz
12=750 r/min. 60 Hz

T=Three-phase

F-400: 400 ºC/2h approved

For S2 operation:
300 ºC/2h and 400 ºC/2h

Technical characteristics

60Hz

Model	Speed	Maximum admissible current (A)		Installed power	Maximum flow rate	Sound pressure level dB(A)		Approx. weight (Kg)	
	(r/min)	220-277V	380-480V	(kW)	(m3/h)	TCR/R	CJTCR/R	TCR/R	CJTCR/R
TCR/R CJTCR/R 1240-2T	3474	13.16	7.6	4	11100	86	81	93	147
TCR/R CJTCR/R 1240-4T	1692	3.29	1.9	0.75	5800	71	66	71	125
TCR/R CJTCR/R 1445-2T	3432		13.9	7.5	16500	87	82	126	210
TCR/R CJTCR/R 1445-4T	1692	4.49	2.59	1.1	8030	72	67	93	177
TCR/R CJTCR/R 1650-4T	1704	5.98	3.45	1.5	10500	74	68	114	189
TCR/R CJTCR/R 1650-6T	1116	4.09	2.36	0.75	7410	64	59	111	186
TCR/R CJTCR/R 1856-4T	1716	11.22	6.48	3	15150	79	74	152	273
TCR/R CJTCR/R 1856-6T	1116	5.63	3.25	1.1	10050	70	65	145	266
TCR/R CJTCR/R 2063-4T	1740		11.1	5.5	24450	80	75	225	380
TCR/R CJTCR/R 2063-6T	1140	6.79	3.92	1.5	16100	71	66	209	364
TCR/R CJTCR/R 2271-4T	1752		22	11	34610	85	79	315	508
TCR/R CJTCR/R 2271-6T	1152	11.95	6.9	3	22750	76	71	280	473

Acoustic characteristics

The indicated values are determined by measuring the sound pressure level and sound power in dB(A) obtained in a free field at a distance equivalent to twice the size of the fan plus the impeller diameter, with a minimum of 1.5 m.

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

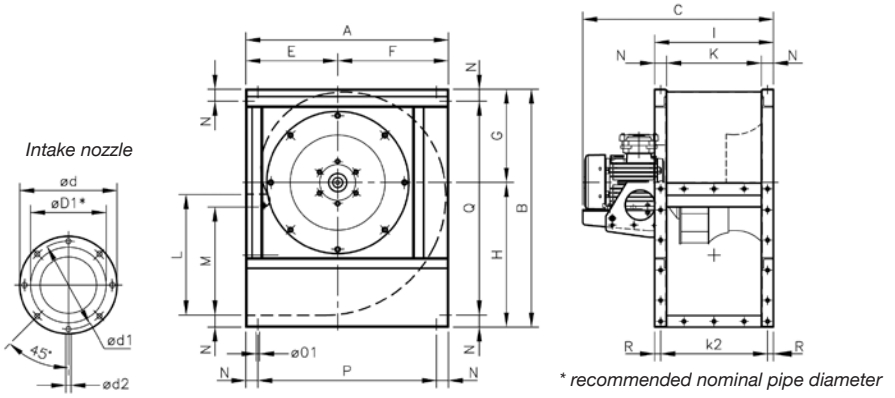
Model TCR/R	63	125	250	500	1000	2000	4000	8000
1240-2	68	83	81	93	90	94	96	83
1240-4	56	40	76	79	79	80	70	59
1445-2	73	85	83	95	93	97	99	89
1445-4	59	72	78	83	80	83	78	64
1650-4	64	74	82	84	83	85	76	66
1650-6	53	65	72	77	73	69	62	54
1856-4	69	78	91	87	90	91	85	71
1856-6	61	69	81	83	80	81	71	60
2063-4	80	85	91	93	91	88	81	73
2063-6	69	70	82	82	81	83	73	63
2271-4	83	84	93	96	98	99	95	82
2271-6	73	73	87	86	90	90	79	68

Model CJTCR/R	63	125	250	500	1000	2000	4000	8000
1240-2	63	78	76	88	85	89	91	78
1240-4	51	65	71	74	74	75	65	54
1445-2	68	80	78	90	88	92	94	84
1445-4	54	67	73	78	75	78	73	59
1650-4	58	68	76	78	77	79	70	60
1650-6	48	60	67	72	68	64	57	49
1856-4	64	73	86	82	85	86	80	66
1856-6	56	64	76	78	75	76	66	55
2063-4	75	80	86	88	86	83	76	68
2063-6	64	65	77	77	76	78	68	58
2271-4	77	78	87	90	92	93	89	76
2271-6	68	68	82	81	85	85	74	63

Orientation

Standard supply LG 270

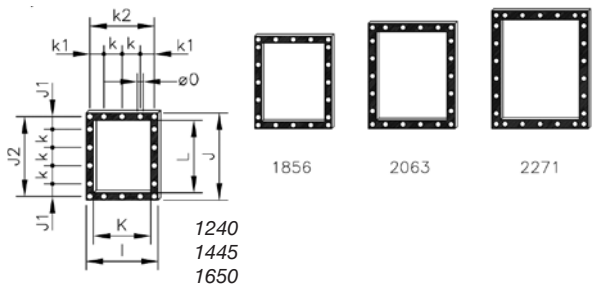
Dimensions mm



* recommended nominal pipe diameter

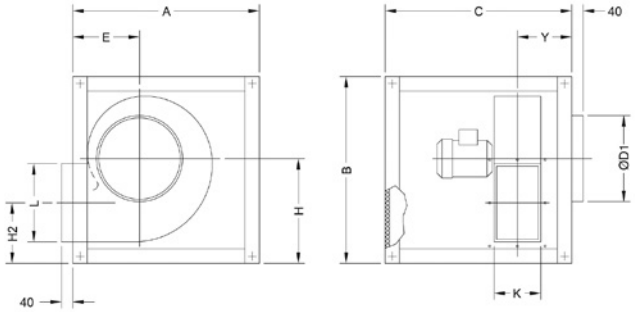
Model	A	B	C	ØD1*	Ød	Ød1	Ød2	E	F	G	H	I	M	N	Ø01	P	Q	R
TCR/R 1240-2T	673	790	734	400	472	444	M.8	305	368	310	480	395	358.5	40	11	593	710	20
TCR/R 1240-4T	673	790	634	400	472	444	M.8	305	368	310	480	395	358.5	40	11	593	710	20
TCR/R 1445-2T	765	880	815	450	522	494	M.8	350	415	339	541	445	407	45	11	675	790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

Impulsion nozzle



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

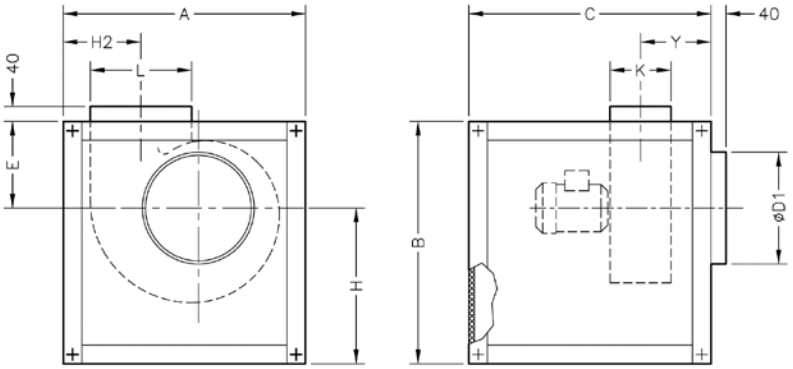
Standard supply: LG-270



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

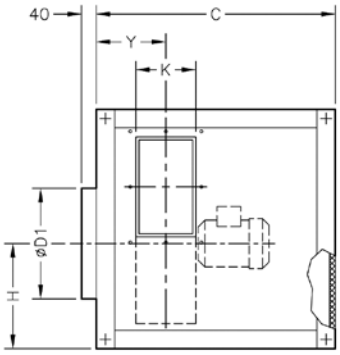
Dimensions mm

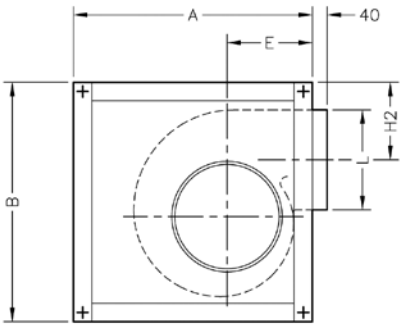
Supply on request: LG-0



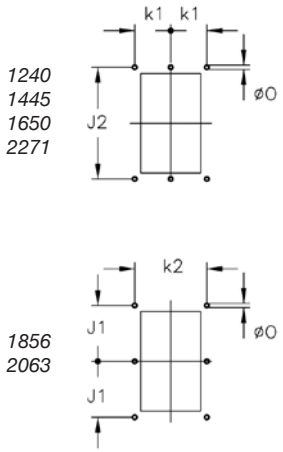
Model	A	B	C	ØD1	E	H	H2	K	L	Y
CJTCR/R-1240	970	970	970	400	533	437	322	315	400	307.5
CJTCR/R-1445	1070	1070	1070	450	586	484	367	355	450	333.5
CJTCR/R-1650	1160	1160	1160	500	634.5	525.5	391.5	400	500	355
CJTCR/R-1856	1260	1260	1050	560	681.5	578.5	442.5	450	560	360
CJTCR/R-2063	1400	1400	1200	630	759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

Supply on request: LG-90





Detail of impulsion nozzle holes



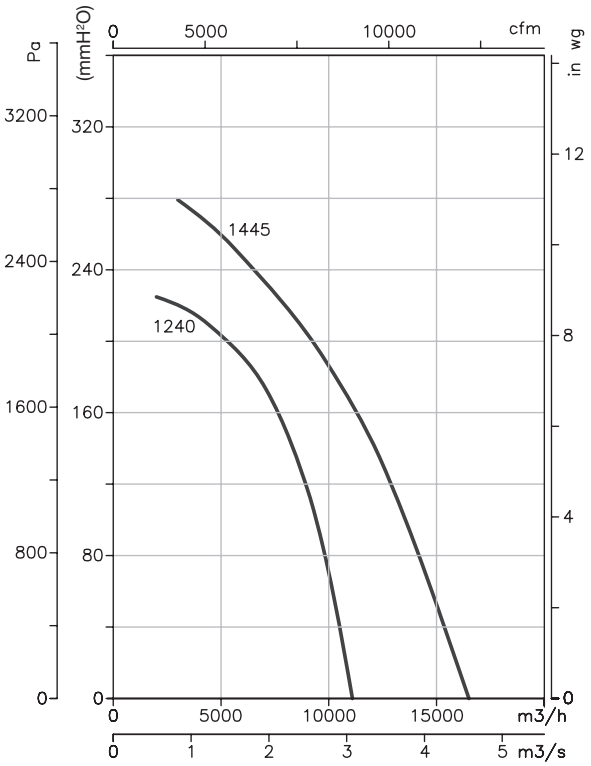
Model	A	B	C	ØD1	E	H	H2	K	L	Y
CJTCR/R-1240	970	970	970	400	312	379	350	315	400	307.5
CJTCR/R-1445	1070	1070	1070	450	357	408	391	355	450	333.5
CJTCR/R-1650	1160	1160	1160	500	382	447	419	400	500	355
CJTCR/R-1856	1260	1260	1050	560	422	495	438	450	560	360
CJTCR/R-2063	1400	1400	1200	630	472	546	488	500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

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

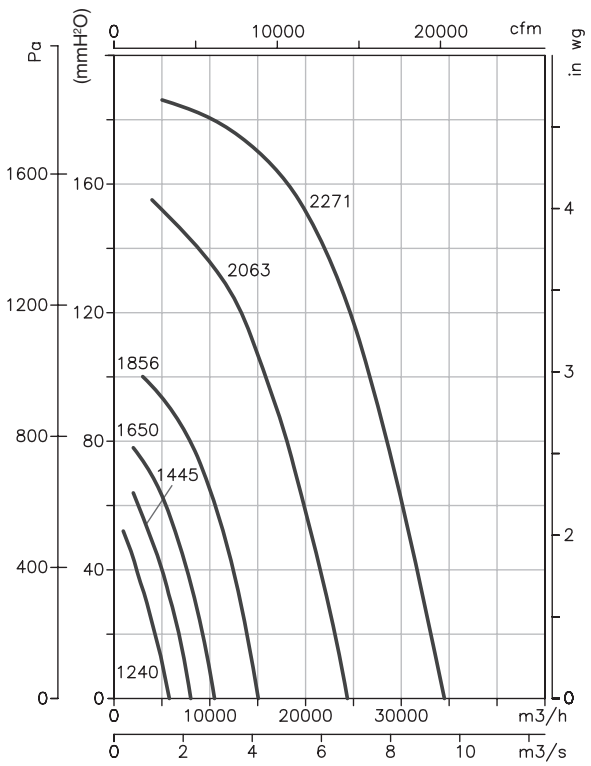
Characteristic curves

Q= Flow rate in m^3/h, m^3/s and cfm. Pe= Static pressure in mmH_2O, Pa and inwg.

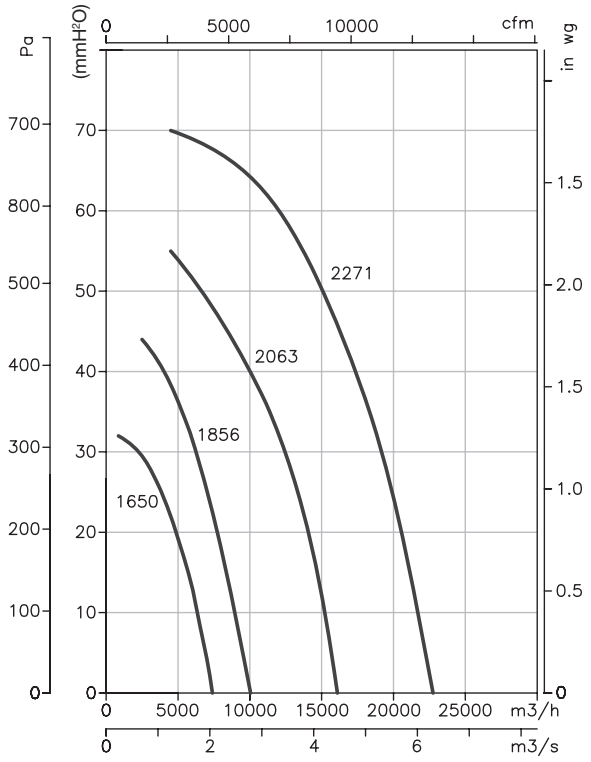
2T=3600 r/min



4T=1800 r/min



6T=1200 r/min



Accessories