

Centrifugal fans type RL

Single inlet centrifugal fan

Application

- **RL** blowers are used for applications where dusty and polluted air has to be removed.
- The fan is suitable for handling air up to 60°C
- These fans are used in industry where great air volumes at high pressure are needed
- A protection hood is required for outside use

Composition

- The casing is of a rigid construction in enamelled sheet steel, painted in epoxy RAL 5010 with a total thickness of 90µ - The strong base frame support the motor
- The impeller with backward curved blades is dynamically and statically balanced grade G6.3 according to ISO 1940/1 and have efficiencies up to 85%
- They have a non-overloading power characteristic which means that they can be use at free inlet duty
- Totally closed squirrel-cage asynchronous motor
- Protection IP55 – Insulation F
- Supply: 230Vac 1ph 50Hz (Steinmetz type) - 230/400Vac 3ph 50Hz and 400/690Vac from 5.5kW motors

Accessories

- Inlet flange, type **COL**
- Outlet guard, type **RLP**
- Square/round piece on outlet, type **RLRC**
- 5-steps transformer speed controller 230V, type **TSCTK-1**
- 5-steps transformer speed controller 3x400v, type **TSCTK-4**
- Frequency converter 3x400V in / 3x400V out, type **FIS(-C)-44-B**

Options

- ATEX II 2G T3 version
- High temperature 450°C version
- 2-speed motors
- Belt driven version

Order example

RL 403/400V

RL403 = fan

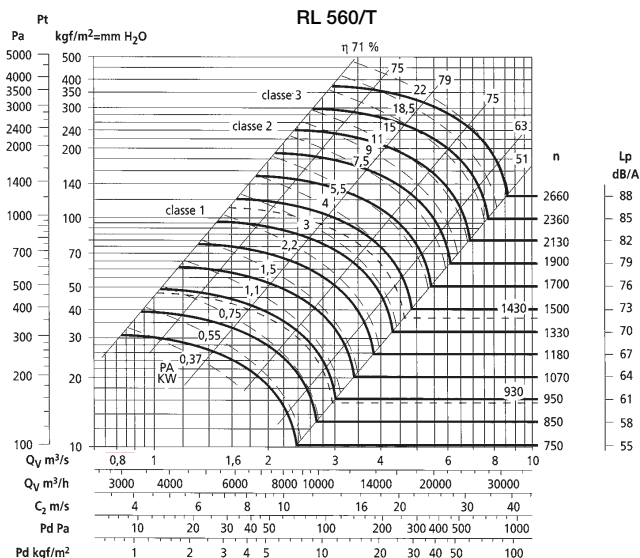
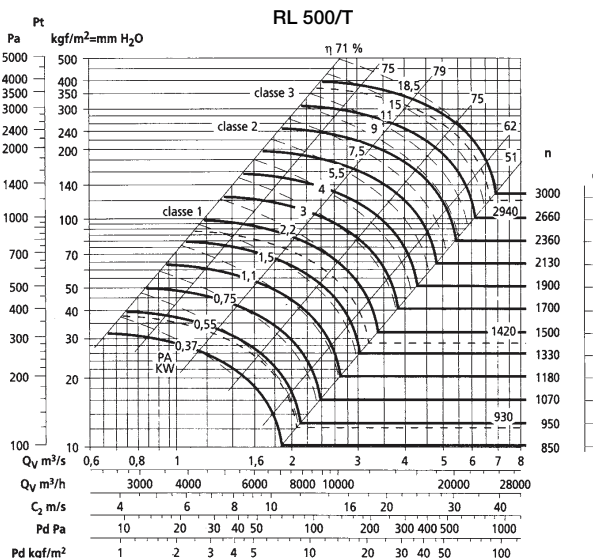
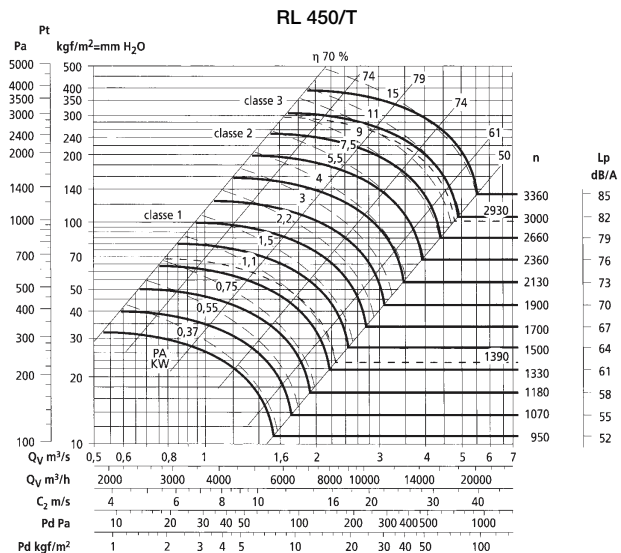
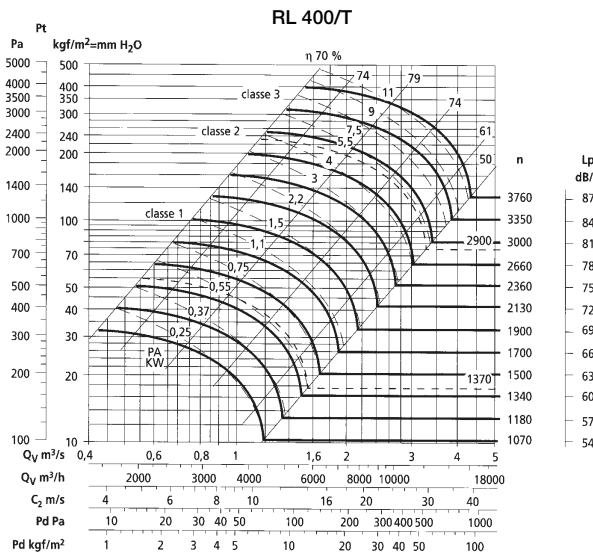
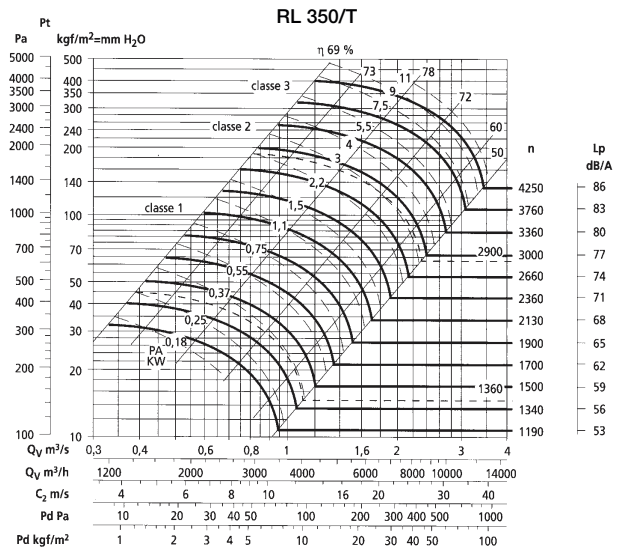
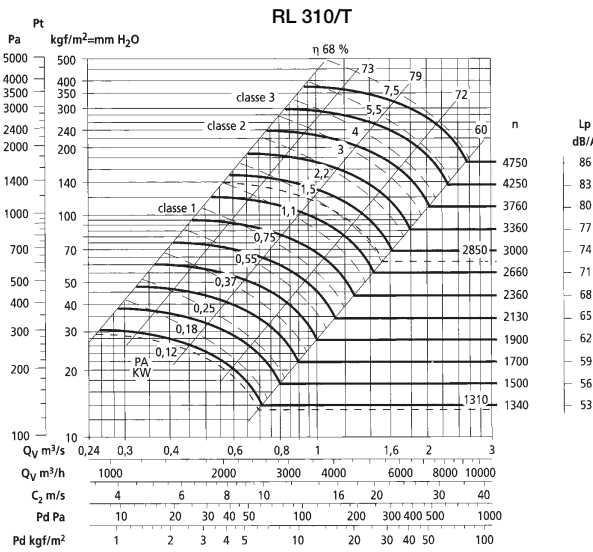
400V = supply 3ph

Air performance data								
	Q (m³/h)							
	100Pa	200Pa	300Pa	400Pa	500Pa	600Pa	700Pa	800Pa
RL 310/4	2300	1750	1000	-	-	-	-	-
RL 350/4	3800	3400	2600	2000	-	-	-	-
RL 400/4	5500	5000	4000	3400	2750	-	-	-
RL 450/4	8000	7300	6500	5800	4700	4000	-	-
RL 500/4	11500	11000	10500	10000	8500	6800	5600	4500
RL 500/6	7000	5400	4000	-	-	-	-	-
RL 560/6	10500	8600	8600	4800	-	-	-	-

Attention

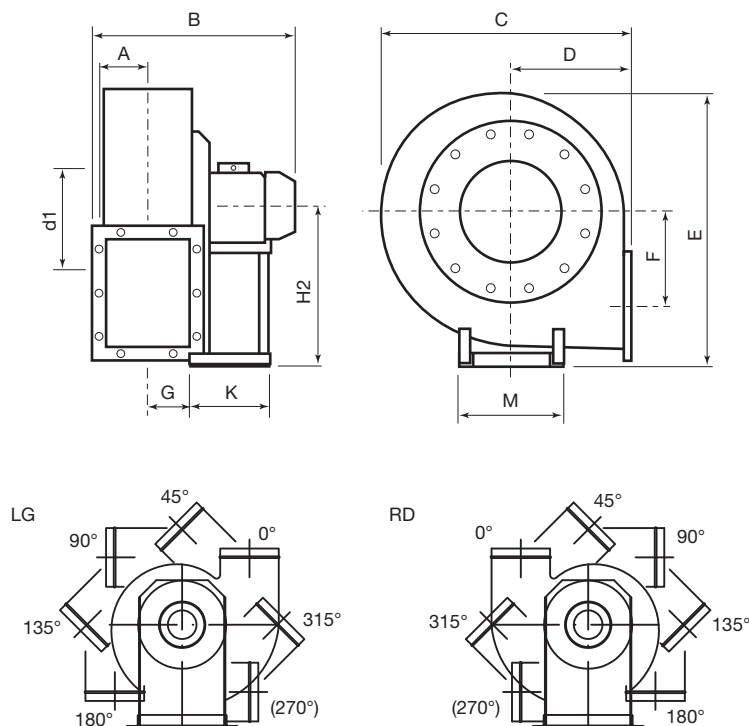
- The RL fan has backward curved blades, the fan may be used with free air inlet

Selection curves



Technical data						
	U [V]	P [kW]	I [A]	SC _T	n [rpm]	Lpa @ 1,5 m [dB(A)]
RL 310/4	1 x 230	0.18	1.55	TSCTK-1-30	1310	57
RL 350/4	1 x 230	0.37	3.25	TSCTK-1-40	1360	60
RL 400/4	1 x 230	0.75	5.37	TSCTK-1-70	1370	64
RL 310/4	3 x 400	0.18	0.56	TSCTK-4-20 / FIS(-C)-44-B	1310	57
RL 350/4	3 x 400	0.37	1.06	TSCTK-4-20 / FIS(-C)-44-B	1360	60
RL 400/4	3 x 400	0.75	1.86	TSCTK-4-20 / FIS(-C)-44-B	1370	64
RL 450/4	3 x 400	1.10	2.55	TSCTK-4-30 / FIS(-C)-44-B	1390	67
RL 500/4	3 x 400	2.20	4.70	TSCTK-4-50 / FIS(-C)-44-B	1420	71
RL 500/6	3 x 400	0.55	1.60	TSCTK-4-20 / FIS(-C)-44-B	930	59
RL 560/6	3 x 400	0.75	2.05	TSCTK-4-30 / FIS(-C)-44-B	930	62

- SC_T = Transformer speed controller
- Lpa = Sound pressure level
- Sound pressure Lpa measured according to UNI EN10531



Attention

- In the orientation drawing, the motor is directed towards you. The desired orientation has to be specified upon order
- Orientation **RD 0** is available from stock
- A protection hood is required for outdoor mounting

	Dimensions											
	A [mm]	B [mm]	C [mm]	D [mm]	d1 [mm]	E [mm]	F [mm]	G [mm]	H2 [mm]	K [mm]	M [mm]	[kg]
RL 310/4	117	454	527	225	366	658	196	117	400	246	350	42
RL 350/4	130	506	600	255	405	740	216	131	450	276	395	65
RL 400/4	147	558	655	285	448	815	245	147	500	211	445	75
RL 450/4	163	632	735	320	497	915	275	165	560	246	495	94
RL 500/4	183	741	832	360	551	1000	303	185	600	276	545	129
RL 500/6	183	631	832	360	551	1000	303	185	600	211	545	116
RL 560/6	205	727	940	400	629	1126	332	206	670	275	560	131