ITALIAN **VA**CUUM **CO**MPRESSORS

SOFFIANTI A CANALE
BLOWERS

SOFFIATORI A LOBI
ROTARY LOBE BLOWERS

DIFFUSORI
DIFFUSERS

VENTILATORI INDUSTRIALI
INDUSTRIAL FANS

POMPE AD ANELLO LIQUIDO
VACUUM PUMPS

POMPE A UNCINO
CLAW PUMPS

POMPE A PALETTE A SECCO
DRY ROTARY VANE

POMPE A PALETTE LUBRIFICATE
OIL ROTARY VANE

TURBO SOFFIANTI
TURBO BLOWERS

I.VA.CO. srl - Italian Vacuum Compressors
Via delle Brigole, 33 - 23877 Paderno d'Adda (LC) - Italy
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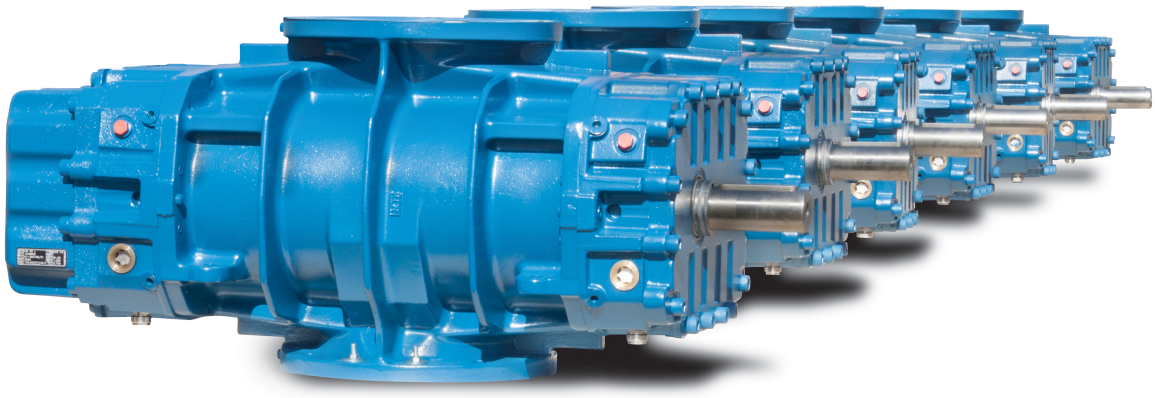

Operating principle

Two symmetrical rotors convolute in opposite directions. The medium to be conveyed flows into the housing surrounding the rotors, and is displaced in a positive manner from the inlet to the discharge side via the chambers formed between the rotors and the housing. At the very moment the rotor tip clears the edge of the pre-inlet channel, the volume of the gas displaced is compressed by the backflow of the pressurized gas present in the con-veying piping at the discharge socket. The final pres-sure automatically adjusts itself to the pressure level in the downstream piping and components. The flow required to convey all types of gases under various operating conditions can be calculated once specific blower data are known. Each rotor revolution results in the displacement and compression of the so-called scoop volume qo (litre/revolution). The scoop volume shows a constant for each blower size. This results in the theoretical capacity

$$Q_0 = \frac{n \cdot q_0}{1000} \quad (m^3/min.)$$

The actual capacity is obtained by deducting the amount of gas Qv slipping back through the clearances from the theoretical capacity:

$$Q_1 = Q_0 - Q_v \quad (m^3/min.)$$

The amount of slippage through the clearances depends on the density of the gas at the inlet, the differential pressure Ap and the total area F of the clearances.
The volumetric efficiency is

$$\eta_v = \frac{Q_1}{Q_0} = 1 - \frac{Q_v}{Q_0}$$

Since the rotor clearances are kept to a minimum, efficiency under operating conditions is highly favourable. The output volume varies very slightly with changes in load (see page 4).

The power required to compress the flow at inlet conditions is, theoretically:

$$P_{th} = \frac{Q_0 \cdot \Delta p}{600}$$

This power must be increased to compensate for the mechanical friction in the bearings, timing gears, seal components, as well as in the dynamic losses occurring in the blower nozzles and the conveying chamber.
The power required at the blower coupling is:

$$P_k = P_{th} + P_v \quad (kW)$$

The main component i.e. the theoretical power for compression, is thus independent of the type of gas involved, and directly proportional to both the operating pressure differential and the blower speed.
Since no internal compression takes place, the power absorbed when operating without load is nearly equal to the power loss P_v.
This represents approximately 3 to 5 % of the full load power rating transmitted via the coupling.

Due to the sum of all manufacturing tolerances, power consumption and intake volume flow can show a tolerance of ± 5 %.

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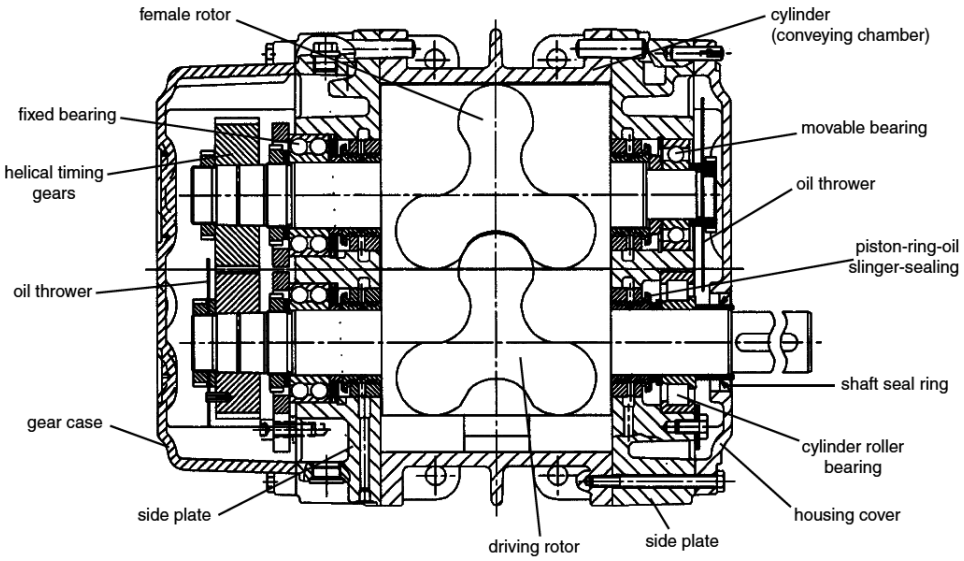

I.VA.CO. Positive Displacement Blower of the series RL
Sectional view of the blower RL ...

Design and construction

I.VA.CO. positive displacement blowers are twin shaft rotary machines. The two rotors are placed axially parallel to each other and centered within the hous-ing. Timing gears ensure that the rotors revolve without making contact. The rotors are supported on ball and roller bearings. In order to achieve a high efficiency th e cl earance between the rotors is kept to a minimum and is based on the pressure differential a nd t hermal l oad e xpected under operating condi-tions. In case of larger blowers the roller bearing clearances and the shaft deflection have an influence o n t he c learance. L arger c learances between the rotors and the end plates compensate for axial thermal expansion at the floating bearing end.

Rotors

The rotors are dynamically balanced. Smaller blowers of the sizes RL1030 - RL1080 feature steel rotors and shafts (C 45 N), drop-forged in one single piece. Sizes RL1900 and larger are constructed with pistons made of modular cast iron and steel shafts (C 45 N). Where contamination particles are likely to accumulate during operation, the cavities of the cast iron rotors are capped.

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Housing

The housings are made of high quality grey cast iron (GG 20). **The blower housing requires no addi-tional cooling, even at high loads.** Up to the size RL1800, the blower feet are bolted on.

Timing gears

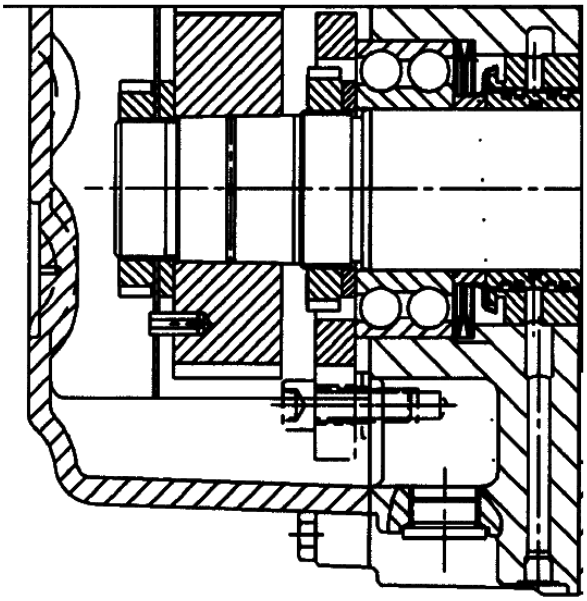
The helical timing gears are tempered, and then ground to an exacting degree of precision. The po-sitioning and fastening of the gears onto the shafts takes place via ta-per interference fit, guaranteeing both excellent concen-tricity and reliable adherence.

Special materials

Non-standard materials such as nodular graphite cast iron (GGG 40), cast steel (GS - C 25) and CrNi - cast steel are available for special applications. Special require-ments, however, must be clarified with the manufacturer in advance!

Sealing configuration, serie RL

These models are designed to convey air or neutral gases. The conveying chamber is sealed from the oil chambers by means of an oil slinger in conjunction with piston ring labyrinth type seals featuring a gener-ously dimensioned central vent chamber (condensate chan-nel), and which plays a crucial role in ensuring that the medium conveyed remains clean and oil-free. The drive shaft is sealed by means of a radial seal ring installed in the housing cover.



Drawing cutout:
Oil sealing to conveying chamber,
adjusting bearings, helical timing gears

Special designs:
Double oil-purged radial seal rings at gas conveying. Double-oil-purged radial seal rings with shaft sleeve and air-cooled seal ring housing (from profile 18 cool-ing wa-ter channel) are used in high vacuum designs. A double-acting mechanical seal with a seal oil circu-lation system for applications involving pressure-tight housings rated for static internal pressures of up to 25 bar.

Sealing configuration, gas blower series GRa, GRb and GR

These models feature bearing housings which are out-board of the conveying chamber. The four shaft passages at the conveying chamber are sealed from atmosphere by means of double-acting mechani-cal seals, which are either water- or oil-purged and cooled, or by labyrinth type packing. These machines are also available with soft packing seals.

Sealing configuration, gas blower series GQ

The four shaft passages at the conveying chamber are sealed by means of special mechanical seals.

Lubrication

Positive Displacement Blowers are splash lubricated. The oil thrower discs and timing gears carry the lubri-cant to the ball and roller bearings. In special cases where splash lubrication is inadequate as a result of high operating speeds or operating temperatures requiring oil cool-ing, or where an oil recirculation system is required in conjunction with oil-cooled me-chanical seals, a central forced oil lubrication system is supplied (refer to the operating instructions for oil grades).

Performance data for air (p_1 = 1,0 bar, t_1 = 20 °C, ρ = 1,189 kg/m³) overpressure

Δp mbar	Blower size		RL1030 / DN 50										RL1040 / DN 80								
		V1	[m³/min]	1,10	1,61	2,13	2,48	2,94	3,18	3,66	3,87	4,12	1,01	1,66	2,17	3,00	3,54	4,16	4,78	5,41	5,70
		t2	[°C]	62	57	54	53	52	51	50	50	50	68	59	56	53	52	51	50	49	49
300	nG	[rpm]	1400	1830	2330	2840	3190	3640	3880	4350	4560	4800	1400	1870	2240	2840	3230	3680	4130	4590	4800
		nM	[rpm]	2800	2800	2840	2840	2840	2870	2870	2870	2890	2800	2800	2840	2840	2870	2870	2890	2890	2890
		Pk	[kW]	1,14	1,43	1,76	2,01	2,34	2,54	2,94	3,13	3,37	1,14	1,49	1,78	2,29	2,64	3,06	3,52	4,01	4,25
		Pmot	[kW]	1,5	2,2	3	3	3	4	4	4	5,5	1,5	2,2	3	3	4	4	5,5	5,5	5,5
		Motor size		90 S	90 S	90 L	100 L	100 L	100 L	112 M	112 M	112 M	132 S	90 S	90 L	100 L	100 L	112 M	112 M	132 S	132 S	132 S
		Lp(A)[dB]w/o.H./w.H.		78/68	80/70	83/71	87/72	87/73	89/75	90/74	92/75	93/76	93/76	77/<65	78/65	79/66	79/66	84/66	86/69	87/69	88/70	89/71
		V1	[m³/min]	0,98	1,53	2,01	2,4	2,86	3,07	3,57	3,79	4,00	0,87	1,50	2,21	2,90	3,42	4,06	4,64	5,27	5,56
		t2	[°C]	83	73	68	66	64	63	62	61	61	94	77	70	66	64	62	61	60	60
400	nG	[rpm]	1400	1830	2370	2840	3220	3680	3880	4380	4590	4800	1400	1860	2370	2870	3250	3710	4130	4590	4800
		nM	[rpm]	2800	2840	2840	2870	2870	2870	2890	2890	2890	2800	2840	2840	2870	2890	2890	2890	2890	2890
		Pk	[kW]	1,45	1,86	2,24	2,57	3	3,19	3,71	3,94	4,18	1,46	1,91	2,43	2,97	3,4	3,94	4,47	5,07	5,35
		Pmot	[kW]	2,2	3	3	4	4	4	5,5	5,5	5,5	2,2	3	3	4	5,5	5,5	5,5	7,5	7,5
		Motor size		90 S	90 L	100 L	100 L	112 M	112 M	112 M	132 S	132 S	132 S	90 L	100 L	100 L	112 M	132 S	132 S	132 S	132 S	132 S
		Lp(A)[dB]w/o.H./w.H.		80/69	81/71	84/72	87/73	87/74	90/75	91/75	93/75	94/76	94/76	77/<65	79/67	81/67	83/68	85/67	87/70	88/71	89/72	89/72
		V1	[m³/min]	0,91	1,43	1,94	2,29	2,78	3,04	3,47	3,68	3,90	0,77	1,42	2,11	2,80	3,30	3,93	4,51	5,14	5,43
		t2	[°C]	107	91	83	80	77	75	74	73	72	126	97	85	80	77	75	73	72	71
500	nG	[rpm]		1860	2370	2870	3220	3700	3960	4380	4590	4800	1420	1890	2390	2890	3250	3710	4130	4590	4800
		nM	[rpm]	2840	2840	2870	2870	2890	2890	2890	2890	2890	2840	2840	2870	2890	2890	2890	2890	2890	2890
		Pk	[kW]	1,78	2,26	2,76	3,12	3,64	3,94	4,45	4,72	4,99	1,81	2,38	3,00	3,66	4,15	4,8	5,42	6,12	6,45
		Pmot	[kW]	3	3	4	4	5,5	5,5	5,5	7,5	7,5	3	3	4	5,5	5,5	7,5	7,5	7,5	7,5
		Motor size		100 L	100 L	112 M	112 M	132 S	132 S	132 S	132 S	132 S	100 L	100 L	112 M	132 S	132 S	132 S	132 S	132 S	132 S
		Lp(A)[dB]w/o.H./w.H.		83/72	85/72	88/73	88/74	91/76	93/76	95/76	95/76	95/76	77/<65	80/68	82/68	85/69	86/68	88/71	90/73	89/73	89/73
		V1	[m³/min]		1,36	1,84	2,26	2,69	2,95	3,38	3,59	3,80		1,33	2,02	2,69	3,39	3,82	4,40	5,11	5,32
		t2	[°C]		110	99	94	90	88	86	85	84		119	103	95	90	87	85	83	83
600	nG	[rpm]			2390	2870	3280	3700	3960	4380	4590	4800		1910	2410	2890	3400	3710	4130	4650	4800
		nM	[rpm]		2870	2870	2890	2890	2890	2890	2890	2890		2870	2890	2890	2890	2890	2890	2930	2930
		Pk	[kW]		2,69	3,24	3,74	4,27	4,61	5,19	5,49	5,8		2,84	3,58	4,32	5,14	5,65	6,37	7,29	7,56
		Pmot	[kW]		4	4	5,5	5,5	7,5	7,5	7,5	7,5		4	5,5	5,5	7,5	7,5	7,5	11	11
		Motor size			112 M	112 M	132 S	132 S	132 S	132 S	132 S	132 S		112 M	132 S	132 S	132 S	132 S	132 S	160 M	160 M
		Lp(A)[dB]w/o.H./w.H.			87/73	89/74	89/75	92/76	95/76	96/76	96/76	96/76		81/69	84/70	87/70	87/69	88/72	91/75	89/74	89/74
		V1	[m³/min]		1,27	1,78	2,17	2,60	2,86	3,29	3,50	3,72			1,92	2,58	3,28	3,71	4,37	5,01	5,22
		t2	[°C]		132	117	110	105	102	99	98	97			122	111	104	101	97	95	94
700	nG	[rpm]			2390	2890	3280	3700	3960	4380	4590	4800			2410	2890	3400	3710	4190	4650	4800
		nM	[rpm]		2870	2890	2890	2890	2890	2890	2890	2890			2890	2890	2890	2890	2930	2930	2930
		Pk	[kW]		3,09	3,76	4,29	4,9	5,28	5,93	6,27	6,62			4,14	4,99	5,92	6,5	7,43	8,35	8,66
		Pmot	[kW]		4	5,5	5,5	7,5	7,5	7,5	7,5	7,5			5,5	7,5	7,5	7,5	11	11	11
		Motor size			112 M	132 S	132 S	132 S	132 S	132 S	132 S	132 S			132 S	132 S	132 S	132 S	160 M	160 M	160 M
		Lp(A)[dB]w/o.H./w.H.			87/74	90/74	90/75	93/77	94/78	95/78	95/78	96/78			85/71	89/71	86/70	89/73	93/75	90/75	89/75
		V1	[m³/min]				2,10	2,52	2,78	3,21						2,48	3,26	3,68	4,28	4,91	5,12
		t2	[°C]				126	120	117	113						128	118	114	111	107	107
800	nG	[rpm]					3290	3700	3960	4380						2890	3450	3760	4190	4650	4800
		nM	[rpm]				2890	2890	2890	2890						2890	2930	2930	2930	2930	2930
		Pk	[kW]				4,86	5,52	5,95	6,68						5,65	6,81	7,46	8,40	9,42	9,77
		Pmot	[kW]				7,5	7,5	7,5	7,5						7,5	11	11	11	11	11
		Motor size					132 S	132 S	132 S	132 S						132 S	160 M	160 M	160 M	160 M	160 M
		Lp(A)[dB]w/o.H./w.H.					91/76	94/79	93/80	94/79						91/73	87/72	91/74	95/76	91/76	90/76
		V1	[m³/min]						2,71								3,17	3,59	4,19	4,82	5,03
		t2	[°C]						132								133	129	124	120	119
900	nG	[rpm]							3960								3450	3760	4190	4650	4800
		nM	[rpm]						2890								2930	2930	2930	2930	2930
		Pk	[kW]						6,63								7,60	8,33	9,36	10,5	10,9
		Pmot	[kW]						7,5								11	11	11	15	15
		Motor size							132 S								160 M	160 M	160 M	160 M	160 M
		Lp(A)[dB]w/o.H./w.H.							94/79								88/73	92/74	96/77	92/77	92/77
		V1	[m³/min]																	4,74	4,94
		t2	[°C]																	133	132
1000	nG	[rpm]																		4650	4800
		nM	[rpm]																	2930	2930
		Pk	[kW]																	11,6	12
		Pmot	[kW]																	15	15
		Motor size																		160 M	160 M
		Lp(A)[dB]w/o.H./w.H.																		94/77	94/78

Lower differential pressures on request

Performance data for air (p_1 = 1,0 bar, t_1 = 20 °C, ρ = 1,189 kg/m³) overpressure

Δp mbar	Blower size		RL1070 / DN 80									RL1100 / DN 80						RL1100 / DN 100		
		V1	[m³/min]	1,54	2,56	3,59	4,63	5,35	6,35	7,19	7,71	8,21	2,59	3,96	5,36	6,70	7,68	9,03	10,3	11,0	11,6
		t2	[°C]	67	58	55	52	51	50	50	50	49	59	54	52	50	50	49	48	48	48
300	nG	[rpm]		1400	1890	2390	2890	3240	3720	4130	4380	4620	1420	1910	2410	2890	3240	3720	4190	4440	4650
		nM	[rpm]	2800	2840	2870	2890	2890	2890	2890	2890	2890	2840	2870	2890	2890	2890	2890	2930	2930	2930
		Pk	[kW]	1,94	2,19	2,78	3,42	3,89	4,59	5,25	5,67	6,10	2,29	3,06	3,88	4,72	5,37	6,36	7,43	8,05	8,61
		Pmot	[kW]	2,2	3	4	5,5	5,5	7,5	7,5	7,5	7,5	3	4	5,5	7,5	7,5	7,5	11	11	11
		Motor size		90 L	100 L	112 M	112 M	132 S	132 S	132 S	132 S	132 S	100 L	112 M	132 S	132 S	132 S	132 S	160 M	160 M	160 M
		Lp(A)[dB]w/o.H./w.H.		80/<65	82/68	83/68	83/68	85/70	88/71	89/70	89/71	89/71	76/<65	78/<65	80/66	82/68	84/70	86/71	91/74	91/74	92/74
		V1	[m³/min]	1,38	2,39	3,42	4,42	5,14	6,14	7,11	7,63	8,14	2,41	3,80	5,14	6,49	7,58	8,95	10,1	10,8	11,4
		t2	[°C]	62	75	69	65	64	62	61	60	60	76	68	64	62	61	59	59	58	58
400	nG	[rpm]		1420	1910	2410	2890	3240	3720	4190	4440	4690	1435	1930	2410	2890	3280	3770	4190	4440	4650
		nM	[rpm]	2840	2870	2890	2890	2890	2890	2930	2930	2930	2870	2890	2890	2890	2930	2930	2930	2930	2930
		Pk	[kW]	2,06	2,87	3,64	4,41	5,01	5,88	6,79	7,31	7,85	2,99	3,99	5,00	6,07	6,98	8,23	9,39	10,1	10,8
		Pmot	[kW]	3	4	5,5	5,5	7,5	7,5	11	11	11	4	5,5	7,5	7,5	11	11	11	15	15
		Motor size		100 L	112 M	132 S	132 S	132 S	132 S	160 M	160 M	160 M	112 M	132 S	132 S	132 S	160 M	160 M	160 M	160 M	160 M
		Lp(A)[dB]w/o.H./w.H.		80/65	82/69	84/69	86/70	86/71	89/72	90/72	90/73	91/73	80/<65	78/65	80/66	83/68	84/70	87/72	91/74	92/74	93/74
		V1	[m³/min]	1,22	2,18	3,24	4,23	5,31	6,05	6,92	7,44	7,96	2,25	3,61	4,95	6,41	7,39	8,76	9,94	10,6	11,2
		t2	[°C]	72	95	84	79	76	74	72	72	71	95	83	77	74	72	70	69	69	69
500	nG	[rpm]		1435	1900	2410	2890	3410	3770	4190	4440	4690	1445	1930	2410	2930	3280	3770	4190	4440	4650
		nM	[rpm]	2870	2890	2890	2890	2890	2930	2930	2930	2930	2890	2890	2890	2930	2930	2930	2930	2930	2930
		Pk	[kW]	2,67	3,51	4,47	5,41	6,49	7,27	8,24	8,84	9,46	3,68	4,89	6,13	7,52	8,51	9,99	11,3	12,2	12,9
		Pmot	[kW]	4	5,5	5,5	7,5	7,5	11	11	11	11	5,5	7,5	7,5	11	11	15	15	15	15
		Motor size		112 M	132 S	132 S	132 S	132 S	160 M	160 M	160 M	160 M	132 S	132 S	132 S	160 M	160 M	160 M	160 M	160 M	160 M
		Lp(A)[dB]w/o.H./w.H.		80/67	82/71	84/71	86/71	89/73	90/74	91/74	91/74	92/74	81/<65	78/66	80/67	83/67	84/70	87/73	88/73	92/74	93/74
		V1	[m³/min]	2,08	3,07	4,07	4,87	5,89	6,76	7,27	7,79		2,08	3,44	4,5	6,24	7,22	8,59	9,76	10,5	11,1
		t2	[°C]	116	102	94	90	87	84	83	83		118	99	92	86	84	82	80	80	79
600	nG	[rpm]		1930	2410	2890	3280	3770	4190	4440	4690		1445	1930	2310	2930	3280	3770	4190	4440	4650
		nM	[rpm]	2890	2890	2890	2930	2930	2930	2930	2930		2890	2890	2930	2930	2930	2930	2930	2930	2930
		Pk	[kW]	4,24	5,3	6,41	7,34	8,57	9,68	10,4	11,1		4,35	5,8	6,94	8,89	10,0	11,7	13,3	14,3	15,1
		Pmot	[kW]	5,5	7,5	7,5	11	11	11	15	15		5,5	7,5	11	11	15	15	15	18,5	18,5
		Motor size		132 S	132 S	132 S	160 M	160 M	160 M	160 M	160 M		132 S	132 S	160 M	160 M	160 M	160 M	160 M	160 L	160 L
		Lp(A)[dB]w/o.H./w.H.		84/71	86/72	88/73	89/75	91/76	91/76	92/76	92/76		82/<65	78/67	80/67	84/67	84/70	87/73	88/74	92/74	94/75
		V1	[m³/min]		2,92	4,00	4,72	5,71	6,60	7,12	7,64			3,28	4,34	6,08	7,06	8,43	9,61	10,3	10,9
		t2	[°C]		120	109	104	100	97	96	94			117	107	99	96	93	92	91	90
700	nG	[rpm]			2410	2930	3280	3760	4190	4440	4690			1930	2310	2930	3280	3770	4190	4440	4650
		nM	[rpm]		2890	2930	2930	2930	2930	2930	2930			2890	2930	2930	2930	2930	2930	2930	2930
		Pk	[kW]		6,13	7,51	8,47	9,84	11,1	11,9	12,7			6,7	8,02	10,3	11,6	13,5	15,3	16,3	17,3
		Pmot	[kW]		7,5	11	11	11	15	15	15			7,5	11	15	15	18,5	18,5	18,5	22
		Motor size			132 S	160 M	160 M	160 M	160 M	160 M	160 M			132 S	160 M	160 M	160 M	160 L	160 L	160 L	180 M
		Lp(A)[dB]w/o.H./w.H.			88/73	89/75	90/77	92/78	92/78	92/78	92/78			79/68	80/68	84/69	84/72	88/74	89/75	92/74	94/75
		V1	[m³/min]												4,20	5,93	6,91	7,98	9,46	10,2	10,7
		t2	[°C]												123	113	109	106	103	102	101
800	nG	[rpm]													2310	2930	3280	3660	4190	4440	4650
		nM	[rpm]												2930	2930	2930	2930	2930	2930	2930
		Pk	[kW]												9,10	11,6	13,1	14,8	17,2	18,4	19,5
		Pmot	[kW]												11	15	15	18,5	22	22	22
		Motor size													160 M	160 M	160 M	160 L	180 M	180 M	180 M
		Lp(A)[dB]w/o.H./w.H.													81/70	84/71	84/73	87/75	90/77	92/74	93/75
		V1	[m³/min]														6,77	7,84	9,32	10,1	10,7
		t2	[°C]														122	118	115	113	112
900	nG	[rpm]															3280	3660	4190	4460	4680
		nM	[rpm]														2930	2930	2930	2945	2945
		Pk	[kW]														14,6	16,5	19,2	20,6	21,8
		Pmot	[kW]														18,5	18,5	22	30	30
		Motor size															160 L	160 L	180 M	200 L	200 L
		Lp(A)[dB]w/o.H./w.H.															85/72	88/74	89/77	92/74	93/75
		V1	[m³/min]															7,71	8,72	9,95	10,6
		t2	[°C]															131	128	125	124
1000	nG	[rpm]																3660	4020	4460	4680
		nM	[rpm]															2930	2945	2945	2945
		Pk	[kW]															18,2	20,2	22,7	24,0
		Pmot	[kW]															22	30	30	30
		Motor size																180 M	200 L	200 L	200 L
		Lp(A)[dB]w/o.H./w.H.																88/74	89/76	92/74	93/75

Lower differential pressures on request - RL1100 from 10 m³/min - accessories DN100

Performance data for air (p_1 = 1,0 bar, t_1 = 20 °C, ρ = 1,189 kg/m³) overpressure

Δp mbar	Blower size		RL1150 / DN 100									RL1250 / DN 125								
		V1	[m³/min]	5,84	7,99	10,1	11,6	13,6	15,4	16,4	17,3	6,18	8,69	11,1	14,5	16,6	18,7	20,6	22,7	24,2
		t2	[°C]	54	51	50	49	49	48	48	48	53	51	50	48	48	48	47	47	47
300	nG	[rpm]	1435	1890	2410	2930	3290	3760	4190	4440	4650	1445	1890	2310	2930	3290	3660	4010	4370	4650
		nM	[rpm]	2890	2890	2930	2930	2930	2930	2930	2930	2890	2890	2930	2930	2930	2930	2930	2930	2930
		Pk	[kW]	4,26	5,64	7,04	8,07	9,52	10,9	11,8	12,6	4,46	5,86	7,3	9,64	11,1	12,8	14,4	16,2	17,7
		Pmot	[kW]	5,5	7,5	11	11	11	15	15	15	5,5	7,5	11	11	15	15	18,5	18,5	22
		Motor size	112 M	132 S	132 S	160 M	160 M	160 M	160 M	160 M	160 M	132 S	132 S	160 M	160 M	160 M	160 M	160 L	160 L	180 M
		Lp(A)[dB]w/o.H./w.H.	83/69	84/70	85/71	87/72	87/72	89/72	91/73	91/73	91/73	82/<70	85/72	87/72	92/75	92/75	93/76	92/75	94/76	96/76
		V1	[m³/min]	5,53	7,27	9,84	11,3	13,3	15,1	16,1	17,0	5,88	8,56	10,8	14,2	16,3	18,4	20,3	22,5	24,1
		t2	[°C]	67	64	61	60	59	59	58	58	66	62	60	59	58	58	57	57	57
400	nG	[rpm]	1445	1890	2310	2930	3290	3760	4190	4440	4650	1445	1920	2310	2930	3290	3660	4010	4400	4680
		nM	[rpm]	2890	2890	2930	2930	2930	2930	2930	2930	2890	2930	2930	2930	2930	2930	2930	2945	2950
		Pk	[kW]	4,28	5,64	6,97	9,06	10,3	12,1	13,8	14,9	15,8	5,82	7,76	9,47	12,4	14,2	16,2	18,2	20,5	22,2
		Pmot	[kW]	5,5	7,5	11	11	15	15	18,5	18,5	18,5	7,5	11	11	15	18,5	18,5	22	30	30
		Motor size	132 S	132 S	160 M	160 M	160 M	160 M	160 L	160 L	160 L	132 S	160 M	160 M	160 M	160 L	160 L	180 M	200 L	200 L
		Lp(A)[dB]w/o.H./w.H.	83/70	85/72	86/72	88/72	87/72	88/72	92/75	92/75	93/75	83/<70	86/72	87/72	92/75	93/76	93/77	93/76	95/76	97/77
		V1	[m³/min]	5,38	7,00	9,57	11,1	12,6	14,0	15,8	16,7	5,73	8,29	10,5	14,0	16,0	18,1	20,2	22,3	23,8
		t2	[°C]	82	77	73	72	70	69	69	68	80	75	72	69	68	68	67	67	66
500	nG	[rpm]	1445	1920	2310	2930	3290	3660	4010	4440	4650	1465	1920	2310	2930	3290	3660	4030	4400	4680
		nM	[rpm]	2890	2930	2930	2930	2930	2930	2930	2930	2930	2930	2930	2930	2930	2930	2945	2945	2950
		Pk	[kW]	4,28	7,06	8,57	11,1	12,6	14,3	15,9	18,0	19,0	7,27	9,56	11,6	15,1	17,3	19,6	22,1	24,6	26,6
		Pmot	[kW]	5,5	11	11	15	15	18,5	18,5	22	22	11	11	15	18,5	22	22	30	30	30
		Motor size	132 S	160 M	160 M	160 M	160 M	160 L	160 L	180 M	180 M	160 M	160 M	160 M	160 L	180 M	180 M	200 L	200 L	200 L
		Lp(A)[dB]w/o.H./w.H.	84/71	87/73	88/72	89/72	88/72	87/73	91/75	94/76	95/76	85/70	88/72	88/72	93/75	93/76	94/78	94/77	97/77	99/78
		V1	[m³/min]	5,14	6,75	9,32	10,8	12,3	14,5	15,7	16,6	5,49	8,05	10,2	13,7	15,9	18,0	19,9	22,0	23,6
		t2	[°C]	98	91	85	83	82	80	79	79	95	87	84	80	79	78	77	77	76
600	nG	[rpm]	1445	1920	2310	2930	3290	3660	4190	4460	4680	1465	1920	2310	2930	3310	3680	4030	4400	4680
		nM	[rpm]	2890	2930	2930	2930	2930	2930	2945	2945	2930	2930	2930	2930	2945	2945	2945	2950	2950
		Pk	[kW]	4,28	8,38	10,2	13,1	14,9	16,8	19,6	21,1	22,4	8,65	11,4	13,8	17,9	20,5	23,2	25,8	28,7	31,0
		Pmot	[kW]	5,5	11	15	15	18,5	22	22	30	30	11	15	18,5	22	30	30	30	37	37
		Motor size	132 S	160 M	160 M	160 M	160 L	180 M	180 M	200 L	200 L	160 M	160 M	160 L	180 M	200 L	200 L	200 L	200 L	200 L
		Lp(A)[dB]w/o.H./w.H.	86/72	88/73	88/73	89/73	88/73	88/73	92/76	94/77	97/78	86/72	89/73	89/72	93/75	94/77	95/78	96/78	98/78	100/79
		V1	[m³/min]	4,91	6,53	9,10	10,6	12,1	13,6	15,4	16,3	5,27	7,83	10,0	13,6	15,7	17,7	20,1	21,8	23,3
		t2	[°C]	115	106	98	95	93	92	90	89	112	101	96	91	90	88	87	87	86
700	nG	[rpm]		1920	2310	2930	3290	3660	4030	4460	4680	1465	1920	2310	2945	3310	3680	4100	4400	4670
		nM	[rpm]	2930	2930	2930	2930	2930	2945	2945	2945	2930	2930	2930	2945	2945	2945	2950	2950	2940
		Pk	[kW]	9,71	11,8	15,1	17,2	19,3	21,5	24,2	25,6	10,0	13,2	16,0	20,8	23,6	26,7	30,2	32,9	35,3
		Pmot	[kW]	11	15	18,5	22	22	30	30	30	15	15	18,5	30	30	30	37	37	45
		Motor size		160 M	160 M	160 L	180 M	180 M	200 L	200 L	200 L	160 M	160 M	160 L	200 L	200 L	200 L	200 L	200 L	225 M
		Lp(A)[dB]w/o.H./w.H.		88/74	88/74	89/73	89/73	89/73	90/75	95/77	98/80	87/72	90/74	91/73	93/76	94/77	96/79	97/79	98/79	100/80
		V1	[m³/min]									5,06	7,68	9,8	13,4	15,4	17,6	19,8	21,5	23,1
		t2	[°C]									129	115	109	103	101	99	98	97	96
800	nG	[rpm]										1465	1930	2310	2945	3310	3690	4080	4390	4670
		nM	[rpm]									2930	2930	2930	2945	2945	2950	2940	2940	2940
		Pk	[kW]									11,4	15	18,1	23,5	26,7	30,2	33,9	36,9	39,7
		Pmot	[kW]									15	18,5	22	30	30	37	45	45	45
		Motor size										160 M	160 L	180 M	200 L	200 L	200 L	225 M	225 M	225 M
		Lp(A)[dB]w/o.H./w.H.										88/72	91/75	92/74	94/76	95/78	96/79	97/79	99/80	101/82
		V1	[m³/min]										7,49	9,68	13,2	15,3	17,3	19,6	21,4	23,0
		t2	[°C]										129	122	115	112	110	108	107	106
900	nG	[rpm]											1930	2320	2945	3320	3680	4080	4410	4690
		nM	[rpm]										2930	2945	2945	2950	2950	2940	2960	2960
		Pk	[kW]										16,9	20,4	26,3	30,0	33,6	37,7	41,2	44,3
		Pmot	[kW]										22	30	30	37	37	45	55	55
		Motor size											180 M	200 L	200 L	200 L	200 L	225 M	250 M	250 M
		Lp(A)[dB]w/o.H./w.H.											92/77	94/77	95/78	96/79	97/80	97/81	99/81	101/82
		V1	[m³/min]												13,0	15,1	17,2	19,5	21,3	22,8
		t2	[°C]												127	123	121	119	118	117
1000	nG	[rpm]													2950	3320	3680	4100	4410	4690
		nM	[rpm]												2950	2950	2940	2960	2960	2960
		Pk	[kW]												29,1	33,1	37,0	41,8	45,4	48,7
		Pmot	[kW]												37	37	45	55	55	55
		Motor size													200 L	200 L	225 M	250 M	250 M	250 M
		Lp(A)[dB]w/o.H./w.H.													97/80	97/81	98/82	98/82	100/82	102/83

Lower differential pressures on request

Performance data for air (p_1 = 1,0 bar, t_1 = 20 °C, ρ = 1,189 kg/m³) overpressure

Δp mbar	Blower size		RL1330 / DN 150									RL1350 / DN 150							
		V1	[m³/min]	8,68	11,7	15,6	20,5	23,3	26,3	29,2	32,7	34,7	14,0	18,2	23,6	27,1	30,6	34,6	38,8	40,3
		t2	[°C]	63	51	50	49	48	48	48	47	47	50	49	48	48	47	47	47	47
300	nG	[rpm]	1445	1830	2310	2930	3280	3660	4020	4460	4710	1490	1860	2330	2640	2945	3300	3670	3800
		nM	[rpm]	2890	2930	2930	2930	2930	2930	2945	2945	2945	2930	2930	2930	2930	2945	2945	2950	2950
		Pk	[kW]	6,38	8,13	10,5	13,7	15,7	17,9	20,2	23,1	24,8	9,56	12,2	15,8	18,4	21,2	24,9	29,1	30,7
		Pmot	[kW]	7,5	11	15	18,5	18,5	22	30	30	30	11	15	18,5	22	30	30	37	37
		Motor size		132 S	160 M	160 M	160 M	160 L	180 M	200 L	200 L	200 L	160 M	160 M	160 L	180 M	200 L	200 L	200 L	200 L
		Lp(A)[dB]w/o.H./w.H.		84/71	86/<70	88/71	88/71	93/76	95/77	96/77	97/78	97/79	86/70	90/74	92/76	91/76	91/77	92/79	96/81	99/81
		V1	[m³/min]	8,41	12,0	15,1	20,1	23,0	26,0	28,7	32,3	34,3	13,6	17,8	23,2	26,4	30,1	34,2	38,2	39,8
		t2	[°C]	65	63	61	59	58	58	57	57	57	62	60	58	58	57	57	56	56
400	nG	[rpm]	1465	1920	2310	2930	3300	3680	4020	4470	4720	1490	1860	2340	2620	2945	3300	3660	3800
		nM	[rpm]	2930	2930	2930	2930	2945	2945	2945	2950	2950	2930	2930	2945	2945	2945	2950	2940	2940
		Pk	[kW]	8,41	11,1	13,5	17,6	20,2	22,9	25,5	29,1	31,2	12,4	15,7	20,3	23,2	26,8	31,1	35,9	37,9
		Pmot	[kW]	11	15	18,5	22	30	30	30	37	37	15	18,5	30	30	30	37	45	45
		Motor size		160 M	160 M	160 L	180 M	200 L	200 L	200 L	200 L	200 L	160 M	160 L	200 L	200 L	200 L	200 L	225 M	225 M
		Lp(A)[dB]w/o.H./w.H.		85/71	88/70	89/71	91/75	93/76	95/78	96/77	98/78	99/79	87/70	90/75	93/77	92/77	92/78	94/80	97/81	99/81
		V1	[m³/min]	8,02	11,7	14,7	19,8	22,6	25,7	28,4	31,3	33,8	12,9	17,4	22,9	26,0	29,8	33,6	38,1	39,4
		t2	[°C]	61	75	72	70	69	68	67	67	66	74	71	69	68	67	66	66	66
500	nG	[rpm]	1465	1930	2310	2945	3300	3690	4020	4390	4700	1465	1860	2340	2620	2950	3290	3680	3800
		nM	[rpm]	2930	2930	2930	2945	2945	2950	2950	2940	2940	2930	2930	2945	2950	2950	2940	2955	2955
		Pk	[kW]	7,64	13,7	16,6	21,6	24,6	27,9	30,9	34,3	37,2	14,9	19,2	24,7	28,2	32,5	37,2	43,2	45,1
		Pmot	[kW]	11	18,5	22	30	30	37	37	45	45	18,5	22	30	37	37	45	55	55
		Motor size		160 M	160 L	180 M	200 L	200 L	200 L	200 L	225 M	225 M	160 L	180 M	200 L	200 L	200 L	225 M	250 M	250 M
		Lp(A)[dB]w/o.H./w.H.		86/72	90/70	90/72	91/75	93/76	95/78	97/78	99/78	100/80	87/71	91/75	94/77	93/77	93/79	96/80	98/81	100/82
		V1	[m³/min]	7,68	10,6	14,6	19,5	22,3	25,4	28,5	31,0	33,7	12,6	16,8	22,5	25,7	29,3	33,5	37,9	39,1
		t2	[°C]	95	89	84	81	79	78	77	77	76	87	82	79	78	77	76	76	75
600	nG	[rpm]	1465	1830	2330	2945	3300	3690	4080	4390	4730	1465	1840	2340	2620	2940	3310	3700	3800
		nM	[rpm]	2930	2930	2950	2945	2950	2950	2940	2940	2960	2930	2945	2950	2950	2940	2955	2970	2970
		Pk	[kW]	7,03	15,4	19,8	25,5	28,9	32,8	36,8	40,1	43,8	17,7	22,5	29,2	33,1	37,9	43,8	50,5	52,3
		Pmot	[kW]	7,5	18,5	30	30	37	37	45	45	55	22	30	37	37	45	55	75	75
		Motor size		160 M	160 L	200 L	200 L	200 L	200 L	225 M	225 M	250 M	180 M	200 L	200 L	200 L	225 M	250 M	280 S	280 S
		Lp(A)[dB]w/o.H./w.H.		86/73	89/72	90/73	92/75	94/77	97/79	99/80	99/80	100/81	87/72	91/76	95/78	94/78	93/79	99/81	99/82	100/82
		V1	[m³/min]	7,36	10,3	14,2	19,2	22,0	24,8	28,3	30,8	33,6	12,3	16,5	22,2	25,7	29,2	33,4	37,6	38,8
		t2	[°C]	103	103	96	92	90	89	87	87	86	100	94	90	89	87	86	85	85
700	nG	[rpm]	1465	1830	2330	2950	3300	3660	4100	4410	4760	1475	1840	2340	2650	2955	3330	3700	3800
		nM	[rpm]	2930	2945	2950	2950	2940	2955	2960	2970	2945	2945	2950	2940	2955	2970	2970	2970
		Pk	[kW]	6,72	17,8	22,9	29,5	33,3	37,4	42,5	46,2	50,5	20,6	26,0	33,6	38,6	43,7	50,4	57,5	59,5
		Pmot	[kW]	7,5	22	30	37	37	45	55	55	75	30	30	37	45	55	75	75	75
		Motor size		160 L	180 M	200 L	200 L	200 L	225 M	250 M	250 M	280 S	200 L	200 L	200 L	225 M	250 M	280 S	280 S	280 S
		Lp(A)[dB]w/o.H./w.H.		86/73	89/74	90/74	94/75	96/77	100/81	102/82	99/81	99/82	88/72	91/76	94/78	95/78	96/80	100/82	100/82	101/82
		V1	[m³/min]										12,0	16,2	21,7	25,5	28,8	33,1	35,3	38,4
		t2	[°C]										113	106	101	99	98	97	96	95
800	nG	[rpm]										1475	1840	2330	2660	2955	3330	3520	3800
		nM	[rpm]										2945	2950	2940	2960	2955	2970	2970	2970
		Pk	[kW]										23,4	29,4	37,8	43,8	49,3	56,7	60,7	66,7
		Pmot	[kW]										30	37	45	55	55	75	75	75
		Motor size											200 L	200 L	225 M	250 M	250 M	280 S	280 S	280 S
		Lp(A)[dB]w/o.H./w.H.											89/73	92/77	94/79	96/79	98/81	101/82	101/82	102/83
		V1	[m³/min]										11,8	15,9	21,7	24,9	28,7	32,8	37,0	38,2
		t2	[°C]										127	119	113	110	108	107	106	105
900	nG	[rpm]										1475	1840	2350	2630	2970	3330	3700	3800
		nM	[rpm]										2945	2950	2955	2955	2970	2970	2970	2970
		Pk	[kW]										26,2	32,9	42,6	48,2	55,2	63,0	71,5	73,9
		Pmot	[kW]										30	37	55	55	75	75	90	90
		Motor size											200 L	200 L	250 M	250 M	280 S	280 S	280 M2	280 M2
		Lp(A)[dB]w/o.H./w.H.											89/73	92/78	95/79	96/80	99/81	101/83	102/83	103/84
		V1	[m³/min]											15,6	21,4	24,7	28,5	30,3	36,8	37,9
		t2	[°C]											132	124	122	119	118	116	115
1000	nG	[rpm]											1840	2350	2640	2970	3130	3700	3800
		nM	[rpm]										2940	2955	2970	2970	2970	2970	2970
		Pk	[kW]										36,4	47,1	53,4	60,9	64,6	78,5	81,1
		Pmot	[kW]										45	55	75	75	75	90	90
		Motor size											225 M	250 M	280 S	280 S	280 S	280 M2	280 M2
		Lp(A)[dB]w/o.H./w.H.											92/78	95/80	97/80	100/82	101/83	102/84	104/85

Lower differential pressures on request

Performance data for air (p_1 = 1,0 bar, t_1 = 20 °C, ρ = 1,189 kg/m³) overpressure

Δp mbar	Blower size		RL1500 / DN 150							RL1500 / DN 200			RL1600 / DN 200								
		V1	[m³/min]	22,5	26,0	33,7	38,2	41,1	43,5	49,1	52,2	55,1	20,1	26,9	30,9	35,7	40,1	45,9	52,4	55,7	59,0
		t2	[°C]	49	49	48	48	47	47	47	47	47	51	50	49	49	48	48	47	47	47
300	nG	[rpm]	1465	1640	1860	2340	2620	2800	2950	3300	3490	3670	1150	1465	1650	1870	2070	2340	2640	2790	2940
		nM	[rpm]	2930	2930	2945	2945	2950	2950	2950	2940	2940	2930	2930	2945	2945	2945	2950	2940	2940	2940
		Pk	[kW]	15,0	17,5	23,4	27,2	29,8	32,1	32,8	35,4	38,0	13,4	17,4	19,9	23,0	26,0	30,1	34,9	37,4	40,0
		Pmot	[kW]	18,5	22	30	30	37	37	37	45	45	15	22	30	30	30	37	45	45	45
		Motor size		160 M	160 L	180 M	200 L	200 L	200 L	200 L	225 M	225 M	160 M	180 M	200 L	200 L	200 L	200 L	225 M	225 M	225 M
		Lp(A)[dB]w/o.H./w.H.		86/73	88/74	90/75	92/79	91/77	92/78	92/79	98/81	98/82	100/82	85/71	88/73	91/75	96/79	96/79	97/79	98/80	98/81	99/81
		V1	[m³/min]	21,9	25,1	33,2	38,1	40,4	42,8	48,7	51,4	54,8	19,3	26,4	30,2	35,0	39,7	45,0	52,1	55,2	58,8
		t2	[°C]	60	59	58	57	57	57	56	56	56	63	61	60	59	58	58	57	57	57
400	nG	[rpm]	1465	1640	1840	2340	2650	2790	2940	3310	3480	3690	1150	1475	1650	1870	2090	2330	2660	2800	2970
		nM	[rpm]	2930	2945	2950	2940	2940	2940	2955	2955	2960	2930	2945	2945	2950	2940	2940	2955	2955	2970
		Pk	[kW]	19,4	22,2	29,6	34,7	37,2	39,8	41,8	44,6	48,1	17,5	22,9	25,9	29,8	33,9	38,4	44,9	47,7	51,2
		Pmot	[kW]	22	30	37	45	45	45	55	55	55	22	30	30	37	45	45	55	55	75
		Motor size		180 M	180 M	200 L	200 L	225 M	225 M	225 M	250 M	250 M	250 M	180 M	200 L	200 L	200 L	225 M	225 M	250 M	250 M	280 S
		Lp(A)[dB]w/o.H./w.H.		87/73	88/74	91/75	92/79	92/79	92/79	92/80	98/82	99/82	100/82	87/72	89/74	92/77	96/80	97/79	97/79	99/80	99/81	100/82
		V1	[m³/min]	21,6	24,6	32,5	37,8	40,0	42,5	48,4	51,2	54,6	18,9	25,7	29,5	34,3	39,3	44,5	51,5	54,9	58,2
		t2	[°C]	71	70	68	67	67	67	66	66	66	76	72	71	70	69	68	67	67	66
500	nG	[rpm]	1475	1650	1840	2330	2660	2800	2955	3320	3500	3710	1160	1475	1650	1870	2100	2340	2660	2820	2970
		nM	[rpm]	2945	2945	2940	2955	2955	2955	2970	2970	2970	2945	2950	2950	2940	2955	2955	2970	2970	2970
		Pk	[kW]	24,0	27,1	35,7	42,0	44,8	48,0	50,9	54,3	58,4	21,9	28,2	31,9	36,6	41,6	47,1	54,5	58,3	62,0
		Pmot	[kW]	30	30	45	55	55	55	75	75	75	30	37	37	45	55	55	75	75	75
		Motor size		200 L	200 L	200 L	225 M	250 M	250 M	250 M	280 S	280 S	280 S	200 L	200 L	200 L	225 M	250 M	250 M	280 S	280 S	280 S
		Lp(A)[dB]w/o.H./w.H.		87/74	89/74	92/75	93/80	92/80	92/81	93/82	99/82	99/83	101/83	88/74	90/76	93/78	97/81	97/80	98/79	99/80	100/81	101/83
		V1	[m³/min]	21,1	24,1	32,3	37,3	39,9	42,3	47,9	50,8	54,1	18,3	25,1	28,9	33,7	38,7	44,3	50,9	53,2	57,4
		t2	[°C]	83	81	79	77	77	77	76	76	75	89	84	82	80	79	78	77	77	76
600	nG	[rpm]	1475	1650	1840	2350	2660	2820	2970	3320	3500	3710	1160	1475	1650	1870	2100	2360	2660	2770	2960
		nM	[rpm]	2945	2950	2950	2955	2955	2970	2970	2970	2970	2945	2950	2940	2955	2955	2970	2970	2970	1480
		Pk	[kW]	28,4	32,0	42,3	49,1	52,8	56,3	59,7	63,6	68,3	26,1	33,6	37,8	43,3	49,2	56,1	64,1	67,2	72,5
		Pmot	[kW]	37	37	55	55	75	75	75	75	90	30	37	45	55	55	75	75	75	90
		Motor size		200 L	200 L	200 L	250 M	250 M	280 S	280 S	280 S	280 S	280 M	200 L	200 L	225 M	250 M	250 M	280 S	280 S	280 S	280 M
		Lp(A)[dB]w/o.H./w.H.		88/75	90/75	92/76	94/81	93/81	94/82	95/82	100/83	101/85	103/85	89/75	92/77	94/80	97/82	97/80	98/78	100/80	101/81	102/83
		V1	[m³/min]	20,7	23,7	31,7	36,6	39,4	41,8	44,7	50,3	53,7	17,7	24,5	28,2	33,4	38,4	43,8	49,9	52,5	57,2
		t2	[°C]	95	93	89	88	87	87	86	85	85	103	96	94	92	90	89	87	87	86
700	nG	[rpm]	1475	1650	1840	2340	2640	2820	2970	3150	3500	3710	1160	1470	1640	1880	2110	2360	2640	2760	2980
		nM	[rpm]	2950	2940	2955	2970	2970	2970	2970	2970	2970	2950	2940	2955	2970	2970	2970	1480	1480	1485
		Pk	[kW]	32,8	36,9	48,4	55,7	60,3	64,2	64,6	73,0	78,2	30,3	38,8	43,5	50,4	57,1	64,6	73,2	76,9	83,8
		Pmot	[kW]	37	45	55	75	75	75	75	90	90	37	45	55	75	75	75	90	90	110
		Motor size		200 L	200 L	225 M	250 M	280 S	280 S	280 S	280 M	280 M	200 L	225 M	250 M	280 S	280 S	280 S	280 M	280 M	315 S
		Lp(A)[dB]w/o.H./w.H.		89/75	90/76	92/78	95/83	95/83	95/83	96/83	100/83	102/86	106/86	90/76	93/78	95/80	98/82	98/81	99/79	100/80	101/81	103/83
		V1	[m³/min]										17,2	24,1	27,6	32,9	37,8	43,1	49,6	52,2	56,7
		t2	[°C]										118	109	106	103	101	99	98	97	96
800	nG	[rpm]											1160	1475	1640	1880	2110	2350	2650	2770	2980
		nM	[rpm]										2940	2955	2955	2970	2970	1480	1485	1485	1485
		Pk	[kW]										34,5	44,2	49,5	57,2	64,8	72,8	83,1	87,2	94,6
		Pmot	[kW]										45	55	55	75	75	90	110	110	110
		Motor size											225 M	250 M	250 M	280 S	280 S	280 M	315 S	315 S	315 S
		Lp(A)[dB]w/o.H./w.H.											92/77	97/79	98/81	100/83	100/82	101/81	102/81	102/82	103/84
		V1	[m³/min]										16,7	23,6	27,4	32,4	37,4	42,4	49,1	51,7	56,2
		t2	[°C]										133	122	119	115	112	110	108	108	107
900	nG	[rpm]											1160	1475	1650	1880	2110	2340	2650	2770	2980
		nM	[rpm]										2940	2955	2970	2970	1480	1480	1485	1485	1485
		Pk	[kW]										38,7	49,6	55,8	64,0	72,4	80,9	92,6	97,2	105
		Pmot	[kW]										45	55	75	75	90	90	110	110	132
		Motor size											225 M	250 M	280 S	280 S	280 M	280 M	315 S	315 S	315 M
		Lp(A)[dB]w/o.H./w.H.											92/78	97/80	99/82	101/83	100/82	100/81	102/82	102/82	104/84
		V1	[m³/min]											23,3	26,9	31,9	36,3	42,1	48,6	51,2	55,8
		t2	[°C]											135	131	127	124	121	119	118	117
1000	nG	[rpm]												1485	1650	1880	2080	2350	2650	2770	2980
		nM	[rpm]											2970	2970	1480	1480	1485	1485	1485	1485
		Pk	[kW]											55,3	61,7	70,8	78,8	89,8	102	107	116
		Pmot	[kW]											75	75	90	90	110	132	132	132
		Motor size												280 S	280 S	280 M	280 M	315 S	315 M	315 M	315 M
		Lp(A)[dB]w/o.H./w.H.												97/82	99/83	102/83	101/83	100/82	102/82	103/83	104/84

Lower differential pressures on request - RL1500 from 45 m³/min - accessories DN200

Performance data for air (p_1 = 1,0 bar, t_1 = 20 °C, ρ = 1,189 kg/m³) overpressure

Δp mbar	Blower size		RL1800 / DN 250									RL1900 / DN 250								
		V1	[m³/min]	33,1	37,9	46,4	56,2	64,2	73,5	78,7	83,9	33,7	43,8	54,2	58,7	66,6	70,8	80,3	85,7	90,3
		t2	[°C]	51	50	49	48	48	48	47	47	50	49	48	48	48	48	47	47	47
300	nG	[rpm]	975	1310	1465	1740	2060	2320	2620	2790	2960	978	1220	1470	1580	1770	1870	2100	2230	2340
		nM	[rpm]	1465	1465	1470	1470	1475	1480	1480	1480	1465	1465	1470	1470	1475	1475	1480	1480	1480
		Pk	[kW]	21,7	24,5	29,9	36,7	42,8	50,5	55,2	60,3	21,3	27,1	33,7	36,8	42,6	45,8	53,7	58,4	62,7
		Pmot	[kW]	30	30	37	45	55	75	75	75	30	30	45	45	55	55	75	75	75
		Motor size		180 M	200 L	200 L	225 S	225 M	250 M	280 S	280 S	280 S	200 L	200 L	225 M	225 M	250 M	250 M	280 S	280 S	280 S
		Lp(A)[dB]w/o.H./w.H.		86/73	89/74	90/74	94/77	97/77	96/77	97/78	98/78	101/79	88/71	91/72	94/75	94/75	100/80	101/81	100/79	99/78	100/78
		V1	[m³/min]	32,0	36,9	45,2	56,0	63,4	72,7	77,6	82,8	32,8	43,1	53,3	57,7	64,7	70,1	79,3	84,7	89,2
		t2	[°C]	62	61	60	58	58	57	57	57	62	60	58	58	58	57	57	57	56
400	nG	[rpm]	975	1310	1470	1740	2090	2330	2630	2790	2960	980	1230	1475	1580	1750	1880	2100	2230	2340
		nM	[rpm]	1470	1470	1470	1475	1480	1480	1480	1480	1470	1470	1475	1475	1480	1480	1480	1480	1480
		Pk	[kW]	28,4	32,2	38,8	48,1	55,0	64,3	69,6	75,5	28,1	35,9	44,1	47,8	54,1	59,1	68,2	73,9	78,9
		Pmot	[kW]	37	37	45	55	75	75	90	90	37	45	55	55	75	75	90	90	90
		Motor size		200 L	225 S	225 S	225 M	250 M	280 S	280 S	280 M	280 M	225 S	225 M	250 M	250 M	280 S	280 S	280 M	280 M	280 M
		Lp(A)[dB]w/o.H./w.H.		86/73	90/75	92/76	95/77	96/78	96/78	98/78	99/79	102/80	89/72	92/72	95/75	97/76	100/80	101/81	100/79	100/78	100/77
		V1	[m³/min]	31,0	35,9	44,3	55,4	62,4	72,0	76,6	82,1	31,8	42,2	52,6	56,3	63,8	69,2	79,2	83,7	90,0
		t2	[°C]	74	73	71	69	68	67	67	67	74	71	69	68	68	67	67	66	66
500	nG	[rpm]	975	1310	1470	1740	2100	2330	2640	2790	2970	980	1230	1480	1570	1750	1880	2120	2230	2380
		nM	[rpm]	1470	1470	1475	1480	1480	1480	1485	1485	1470	1475	1480	1480	1480	1480	1485	1485	1485
		Pk	[kW]	35,1	39,7	47,8	59,2	67,0	78,2	83,9	91,1	34,9	44,4	54,5	58,3	66,2	72,1	83,7	89,3	97,2
		Pmot	[kW]	45	45	55	75	75	90	110	110	45	55	75	75	75	90	110	110	110
		Motor size		200 L	225 M	225 M	250 M	280 S	280 S	280 M	315 S	315 S	225 M	250 M	280 S	280 S	280 S	280 M	315 S	315 S	315 S
		Lp(A)[dB]w/o.H./w.H.		87/74	92/75	93/77	95/78	95/79	96/78	99/78	101/80	103/82	89/73	92/73	96/75	97/76	101/80	102/81	101/79	100/78	101/77
		V1	[m³/min]	30,1	35,2	43,7	54,5	61,9	72,0	75,7	81,3	31,1	41,4	51,7	55,5	63,0	68,4	78,3	82,9	89,5
		t2	[°C]	87	85	82	80	79	77	77	77	86	82	80	79	78	77	76	76	76
600	nG	[rpm]	980	1310	1475	1750	2100	2340	2670	2790	2970	982	1230	1480	1570	1750	1880	2120	2230	2390
		nM	[rpm]	1475	1475	1480	1480	1480	1485	1485	1485	1475	1480	1480	1480	1480	1485	1485	1485	1485
		Pk	[kW]	41,8	47,4	57,1	70,0	79,3	93,0	98,2	106	41,8	52,9	64,7	69,1	78,3	85,1	98,4	105	114
		Pmot	[kW]	55	55	75	90	90	110	110	132	55	75	75	90	90	110	110	132	132
		Motor size		225 S	250 M	250 M	280 S	280 M	280 M	315 S	315 S	315 M	250 M	280 S	280 S	280 M	280 M	315 S	315 S	315 M	315 M
		Lp(A)[dB]w/o.H./w.H.		89/73	91/75	93/76	95/79	95/79	96/79	99/80	101/81	103/83	90/74	93/73	97/75	98/76	102/80	103/82	101/80	101/79	102/78
		V1	[m³/min]	29,3	34,5	42,9	53,6	61,0	71,2	74,9	80,1	30,3	40,6	51,0	54,7	62,6	67,6	77,5	82,1	87,5
		t2	[°C]	101	97	94	91	89	88	87	87	99	94	91	90	88	88	87	86	86
700	nG	[rpm]	980	1310	1480	1750	2100	2340	2670	2790	2960	982	1230	1480	1570	1760	1880	2120	2230	2360
		nM	[rpm]	1475	1480	1480	1480	1485	1485	1485	1480	1475	1480	1480	1480	1485	1485	1485	1480	1480
		Pk	[kW]	48,6	55,2	66,1	80,8	91,4	107	113	121	48,6	61,4	75,0	80,0	91,0	98,2	113	120	129
		Pmot	[kW]	55	75	75	90	110	132	132	160	55	75	90	90	110	110	132	160	160
		Motor size		225 M	250 M	280 S	280 S	280 M	315 S	315 M	315 M	315 M	250 M	280 S	280 M	280 M	315 S	315 S	315 M	315 M	315 M
		Lp(A)[dB]w/o.H./w.H.		88/73	91/75	93/76	95/79	95/81	97/80	101/80	102/81	104/83	91/74	94/74	98/77	99/78	103/82	104/83	102/80	102/80	103/79
		V1	[m³/min]										29,7	39,9	50,4	54,0	61,9	67,3	76,8	81,0	86,8
		t2	[°C]										112	106	102	101	99	98	97	96	96
800	nG	[rpm]											985	1230	1485	1570	1760	1890	2120	2220	2360
		nM	[rpm]										1480	1480	1485	1485	1485	1485	1480	1480	1480
		Pk	[kW]										55,6	69,9	85,5	90,9	103	112	128	135	145
		Pmot	[kW]										75	90	110	110	132	132	160	160	160
		Motor size											280 S	280 M	315 S	315 S	315 M	315 M	315 M	315 M	315 M
		Lp(A)[dB]w/o.H./w.H.											91/74	95/75	99/78	100/79	104/84	105/84	104/81	103/81	104/81
		V1	[m³/min]										29,0	39,2	49,8	53,3	61,2	66,6	76,1	80,3	86,1
		t2	[°C]										126	118	113	112	110	109	107	106	106
900	nG	[rpm]											985	1230	1485	1570	1760	1890	2120	2220	2360
		nM	[rpm]										1480	1480	1485	1485	1485	1480	1480	1485	1485
		Pk	[kW]										62,4	78,4	95,8	102	115	125	142	150	161
		Pmot	[kW]										75	90	110	132	132	160	160	200	200
		Motor size											280 S	280 M	315 S	315 M	315 M	315 M	315 M	315 M	315 M
		Lp(A)[dB]w/o.H./w.H.											91/74	95/75	98/78	100/79	104/84	105/84	104/82	103/82	104/81
		V1	[m³/min]											38,5	49,1	52,7	60,5	65,9	75,5	79,6	85,5
		t2	[°C]											131	125	124	121	120	118	117	116
1000	nG	[rpm]												1230	1485	1570	1760	1890	2120	2220	2360
		nM	[rpm]											1485	1485	1485	1480	1480	1485	1485	1485
		Pk	[kW]											86,9	106	113	128	138	157	166	178
		Pmot	[kW]											110	132	132	160	160	200	200	200
		Motor size												315 S	315 M	315 M	315 M	315 M	315 M	315 M	315 M
		Lp(A)[dB]w/o.H./w.H.												95/75	98/77	100/79	104/84	105/85	104/83	104/82	104/81

Lower differential pressures on request

Performance data for air (p_1 = 1,0 bar, t_1 = 20 °C, ρ = 1,189 kg/m³) overpressure

Δp mbar	Blower size		RL2130 / DN 300									RL2150 / DN 300							
300		V1	[m³/min]	47,8	62,9	78,0	82,2	94,3	102	115	131	134	77,3	94,4	102	116	122	132	147	152
		t2	[°C]	61	50	49	49	48	48	48	47	47	49	48	48	48	48	47	47	47
	nG	[rpm]		980	1230	1480	1550	1750	1880	2100	2350	2400	982	1170	1250	1410	1480	1580	1750	1800
		nM	[rpm]	1470	1470	1480	1480	1480	1480	1480	1485	1485	1475	1480	1480	1480	1480	1485	1485	1485
		Pk	[kW]	30	40,8	50,5	53,3	61,9	67,9	78,7	92,1	95,0	48,4	59,4	64,5	75,3	80,3	87,8	102	106
		Pmot	[kW]	37	45	75	75	75	75	90	110	110	55	75	75	90	90	110	132	132
		Motor size		225 S	225 M	280 S	280 S	280 S	280 S	280 M	315 S	315 S	250 M	280 S	280 S	280 M	280 M	315 S	315 M	315 M
		Lp(A)[dB]w/o.H./w.H.		93/75	95/77	101/79	100/79	101/80	101/80	103/81	104/82	104/82	95/79	97/79	97/79	97/80	98/80	99/80	101/81	101/81
400		V1	[m³/min]	46,2	61,2	76,3	80,5	93,2	100	115	130	132	75,8	92,6	101	114	121	130	146	150
		t2	[°C]	63	61	59	59	58	58	57	57	57	59	58	58	57	57	57	57	57
	nG	[rpm]		982	1230	1480	1550	1760	1880	2120	2370	2400	985	1170	1260	1410	1485	1580	1760	1800
		nM	[rpm]	1475	1480	1480	1480	1480	1485	1485	1485	1485	1480	1480	1485	1485	1485	1485	1480	1480
		Pk	[kW]	41,9	53,2	65,4	68,9	80,1	86,8	101	117	119	63,4	77,1	84,2	96,6	103	112	129	133
		Pmot	[kW]	55	75	75	90	90	110	132	132	132	75	90	110	110	132	132	160	160
		Motor size		250 M	280 S	280 S	280 M	280 M	315 S	315 M	315 M	315 M	280 S	280 M	315 S	315 S	315 M	315 M	315 M	315 M
		Lp(A)[dB]w/o.H./w.H.		93/76	96/78	102/80	101/79	102/80	103/81	103/81	105/83	106/83	96/79	97/79	98/79	98/80	98/80	99/80	101/81	102/82
500		V1	[m³/min]	44,8	60,8	74,7	86,2	91,6	98,9	113	128	130	74,2	91	100	113	120	127	144	148
		t2	[°C]	65	72	70	69	69	68	67	67	67	70	69	68	67	67	67	66	66
	nG	[rpm]		985	1250	1480	1670	1760	1880	2120	2370	2400	985	1170	1270	1410	1485	1570	1760	1800
		nM	[rpm]	1480	1480	1480	1485	1485	1485	1480	1480	1480	1480	1485	1485	1485	1480	1480	1485	1485
		Pk	[kW]	52,0	66,8	80,3	92,0	97,8	106	122	141	143	78,3	94,8	104	118	126	135	156	160
		Pmot	[kW]	75	75	90	110	110	132	160	160	160	90	110	132	132	160	160	200	200
		Motor size		280 S	280 S	280 M	315 S	315 S	315 M	315 M	315 M	315 M	280 M	315 S	315 M	315 M	315 M	315 M	315 M	315 M
		Lp(A)[dB]w/o.H./w.H.		92/77	97/79	102/80	101/80	103/81	104/81	104/81	107/83	107/83	97/79	97/79	98/79	98/79	98/80	99/81	101/82	102/82
600		V1	[m³/min]	43,4	59,4	73,6	84,8	90,2	97,5	112	119	126	72,7	89,5	101	110	118	126	143	147
		t2	[°C]	69	84	81	80	79	79	77	77	77	82	80	78	78	77	77	76	76
	nG	[rpm]		985	1250	1485	1670	1760	1880	2120	2230	2360	985	1170	1300	1400	1485	1570	1760	1800
		nM	[rpm]	1480	1480	1485	1485	1485	1480	1480	1485	1485	1485	1485	1480	1480	1485	1485	1485	1485
		Pk	[kW]	61,9	79,3	95,5	109	116	125	144	153	164	93,2	113	127	138	148	158	182	188
		Pmot	[kW]	75	90	110	132	132	160	160	200	200	110	132	160	160	200	200	250	250
		Motor size		280 S	280 M	315 S	315 M	315 M	315 M	315 M	315 M	315 M	315 S	315 M	315 M	315 M	315 M	315 M	315 L	315 L
		Lp(A)[dB]w/o.H./w.H.		94/78	97/80	104/82	102/82	104/83	105/83	107/83	107/83	107/84	99/79	99/79	99/79	99/80	100/80	100/82	102/83	102/83
700		V1	[m³/min]										71,4	88,2	96,3	109	117	125	142	145
		t2	[°C]										93	91	89	88	88	87	86	86
	nG	[rpm]											985	1170	1260	1400	1485	1580	1760	1800
		nM	[rpm]										1485	1480	1480	1485	1485	1485	1485	1485
		Pk	[kW]										108	130	141	159	170	183	209	215
		Pmot	[kW]										132	160	160	200	200	250	250	250
		Motor size											315 M	315 M	315 M	315 M	315 M	315 L	315 L	315 L
		Lp(A)[dB]w/o.H./w.H.											100/80	100/80	100/80	100/80	101/81	101/82	102/83	102/83
800		V1	[m³/min]										70,2	88,8	96,0	108	116	124	140	144
		t2	[°C]										105	101	100	99	98	97	96	96
	nG	[rpm]											985	1190	1270	1400	1488	1580	1760	1800
		nM	[rpm]										1480	1485	1485	1485	1485	1485	1490	1490
		Pk	[kW]										123	151	162	180	193	207	235	242
		Pmot	[kW]										160	200	200	200	250	250	315	315
		Motor size											315 M	315 M	315 M	315 M	315 L	315 L	315 L	315 L
		Lp(A)[dB]w/o.H./w.H.											101/80	100/80	100/80	100/80	102/82	102/83	102/83	103/84
900		V1	[m³/min]										69	87,6	94,9	107	115	123	139	143
		t2	[°C]										118	113	111	110	109	108	106	106
	nG	[rpm]											985	1190	1270	1400	1488	1580	1760	1800
		nM	[rpm]										1480	1485	1485	1485	1485	1490	1490	1490
		Pk	[kW]										138	169	181	202	216	231	262	269
		Pmot	[kW]										160	200	200	250	250	315	315	315
		Motor size											315 M	315 M	315 M	315 L	315 L	315 L	315 L	315 L
		Lp(A)[dB]w/o.H./w.H.											102/81	101/80	101/80	101/81	102/83	103/84	103/84	103/84
1000		V1	[m³/min]										68,4	86,5	93,8	106	114	122	138	142
		t2	[°C]										130	124	123	121	120	118	117	116
	nG	[rpm]											990	1190	1270	1400	1488	1580	1760	1800
		nM	[rpm]										1485	1485	1485	1485	1490	1490	1490	1490
		Pk	[kW]										154	187	200	223	238	255	289	296
		Pmot	[kW]										200	250	250	250	315	315	355	355
		Motor size											315 M	315 L	315 L	315 L	315 L	315 L	355 M	355 M
		Lp(A)[dB]w/o.H./w.H.											103/82	102/81	102/80	102/81	103/84	104/84	103/84	104/84

Lower differential pressures on request - Higher intake volume flows on request

Performance data for air (p_1 = 1,0 bar, t_1 = 20 °C, ρ = 1,189 kg/m³) overpressure

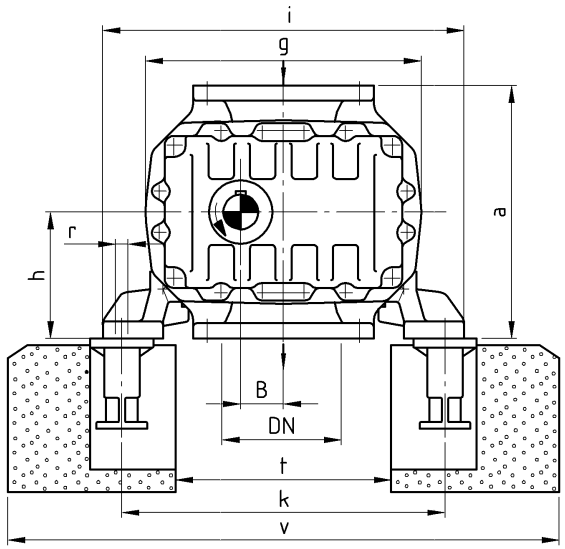
Δp mbar	Blower size		RL2220 / DN 400								RL2240 / DN 400							
		V1	[m³/min]	119	133	153	177	199	215	227	112	128	146	156	167	192	213	246
		t2	[°C]	49	49	48	48	47	47	47	49	49	48	48	48	47	47	47
300	nG	[rpm]	930	1040	1150	1300	1480	1650	1770	1860	730	820	920	980	1040	1180	1300	1485
		nM	[rpm]	1480	1485	1485	1480	1480	1485	1485	1480	1485	1485	1485	1485	1480	1485	1485
		Pk	[kW]	77,0	87,3	102	122	141	156	168	72,6	83,5	96,4	105	113	136	157	195
		Pmot	[kW]	90	110	132	160	160	200	200	90	110	110	132	132	160	200	250
		Motor size	280 S	280 M	315 S	315 M	315 M	315 M	315 M	315 M	280 M	315 S	315 S	315 M	315 M	315 M	315 M	315 L
		Lp(A)[dB]w/o.H./w.H.	94/76	95/76	96/76	97/77	100/79	102/80	103/82	104/82	97/76	97/76	97/77	98/77	97/77	98/77	99/78	101/80
		V1	[m³/min]	116	130	150	175	196	212	224	109	125	143	153	164	189	210	244
		t2	[°C]	59	59	58	57	57	57	57	60	59	58	58	58	57	57	56
400	nG	[rpm]	930	1040	1150	1300	1485	1650	1770	1860	730	820	920	980	1040	1180	1300	1490
		nM	[rpm]	1485	1485	1480	1485	1485	1485	1485	1485	1485	1480	1480	1480	1485	1485	1490
		Pk	[kW]	99,6	112	131	155	178	195	209	94,2	108	124	134	144	171	196	241
		Pmot	[kW]	110	132	160	200	200	250	250	110	132	160	160	160	200	250	315
		Motor size	315 S	315 S	315 M	315 M	315 M	315 M	315 L	315 L	315 S	315 M	315 M	315 M	315 M	315 M	315 L	315 L
		Lp(A)[dB]w/o.H./w.H.	95/76	95/77	96/77	98/78	100/80	102/81	104/82	105/83	98/77	98/77	98/78	98/78	98/78	98/78	99/79	103/81
		V1	[m³/min]	114	128	148	172	194	210	221	106	122	140	151	162	186	208	242
		t2	[°C]	70	69	68	68	67	67	66	71	70	69	68	68	67	67	66
500	nG	[rpm]	930	1040	1150	1300	1485	1650	1770	1860	730	820	920	980	1040	1180	1300	1490
		nM	[rpm]	1480	1480	1485	1485	1485	1490	1490	1485	1480	1485	1485	1485	1485	1490	1490
		Pk	[kW]	123	138	159	187	214	234	250	116	132	151	163	175	206	234	285
		Pmot	[kW]	160	160	200	250	250	315	315	132	160	200	200	200	250	315	315
		Motor size	315 M	315 M	315 M	315 M	315 L	315 L	315 L	315 L	315 M	315 M	315 M	315 M	315 M	315 L	315 L	315 L
		Lp(A)[dB]w/o.H./w.H.	96/77	96/77	97/77	98/78	100/80	102/81	104/83	106/84	98/78	98/78	99/79	99/79	98/78	98/79	100/80	104/83
		V1	[m³/min]	111	126	146	170	192	207	219	104	120	138	149	159	184	206	239
		t2	[°C]	82	80	79	78	77	76	76	83	81	80	79	78	77	76	76
600	nG	[rpm]	930	1040	1150	1300	1485	1650	1770	1860	730	820	920	980	1040	1180	1300	1490
		nM	[rpm]	1480	1485	1485	1485	1490	1490	1490	1480	1485	1485	1485	1485	1490	1490	1490
		Pk	[kW]	145	163	188	220	250	273	290	137	156	178	192	206	241	273	329
		Pmot	[kW]	160	200	250	250	315	315	355	160	200	200	250	250	315	315	400
		Motor size	315 M	315 M	315 M	315 L	315 L	315 L	315 L	355 M	315 M	315 M	315 M	315 L	315 L	315 L	315 L	355 M
		Lp(A)[dB]w/o.H./w.H.	97/77	97/78	97/77	98/78	100/80	102/81	105/83	106/85	99/79	99/79	100/80	100/80	100/80	101/80	102/81	105/84
		V1	[m³/min]								102	118	136	147	157	182	204	237
		t2	[°C]								94	92	90	90	89	87	87	85
700	nG	[rpm]									730	820	920	980	1040	1180	1300	1490
		nM	[rpm]								1485	1485	1485	1485	1490	1490	1490	1490
		Pk	[kW]								159	181	205	221	237	276	311	373
		Pmot	[kW]								200	200	250	250	315	315	355	500
		Motor size									315 M	315 M	315 L	315 L	315 L	315 L	355 M	355 L
		Lp(A)[dB]w/o.H./w.H.									100/80	101/80	101/81	102/81	102/81	103/82	104/83	106/85
		V1	[m³/min]								100	116	134	145	155	180	202	235
		t2	[°C]								107	104	102	101	100	98	97	95
800	nG	[rpm]									730	820	920	980	1040	1180	1300	1490
		nM	[rpm]								1485	1485	1490	1490	1490	1490	1490	1490
		Pk	[kW]								181	205	233	250	268	311	350	417
		Pmot	[kW]								200	250	315	315	315	355	400	500
		Motor size									315 M	315 L	315 L	315 L	315 L	355 M	355 M	355 L
		Lp(A)[dB]w/o.H./w.H.									100/81	102/81	103/83	103/83	104/83	105/84	106/85	107/86
		V1	[m³/min]															
		t2	[°C]															
900	nG	[rpm]																
		nM	[rpm]															
		Pk	[kW]															
		Pmot	[kW]															
		Motor size																
		Lp(A)[dB]w/o.H./w.H.																
		V1	[m³/min]															
		t2	[°C]															
1000	nG	[rpm]																
		nM	[rpm]															
		Pk	[kW]															
		Pmot	[kW]															
		Motor size																
		Lp(A)[dB]w/o.H./w.H.																

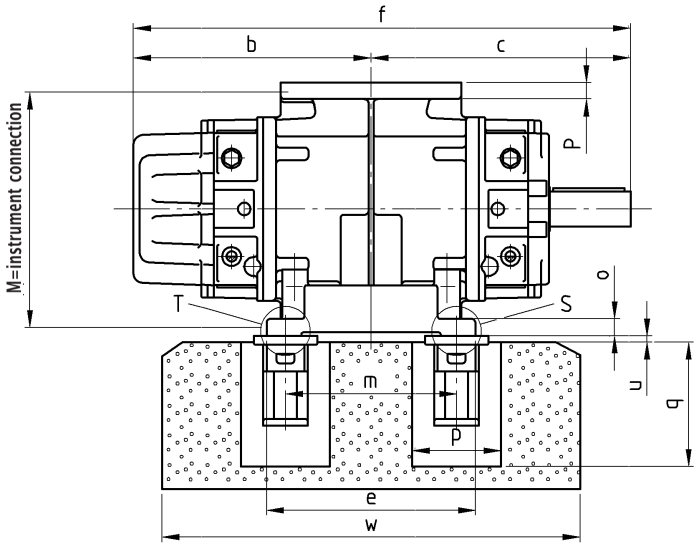
Lower differential pressures on request - Higher intake volume flows on request

DIMENSIONI D'INGOMBRO
SERIE RL_BS

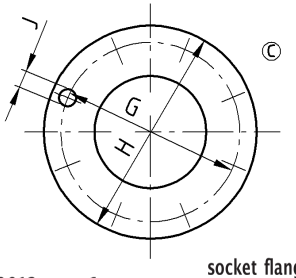
RL_BS SERIES
OVERALL DIMENSIONS

S = Fixation for fixed bearings
T = Fixation for movable bearings
please see drawing 139004-4 only RL2220

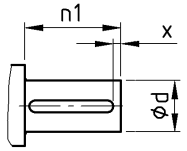




	RL	A	B	C	Ød	e	f	g	h	i	k	m	n	n1	o	p	q	r	t	u	v	w	x©	y	z	B	DN	ØG	ØH	ØJ	q.ty	P	M	weight (Kg)
	1030	264	217	219	28	152	436	258	132	332	300	120	70	55	18	110	220	M12	190	10	660	410	8	8	30.9	34	50	125	165	18	4	18	G 1/4	70
	1040	264	238.5	240.5	28	157	479	258	132	332	300	125	70	55	18	110	220	M12	240	10	660	430	8	8	30.9	34	80	160	200	18	8	18	G 1/4	75
	1070	264	279.5	281.5	28	239	561	258	132	332	300	207	70	55	18	110	220	M12	240	10	660	510	8	8	30.9	34	80	160	200	18	8	18	G 1/4	80
	1100	320	275	286	38	200	561	295	160	390	350	150	85	75	24	120	250	M16	260	10	690	500	8	10	41.3	42.6	100	180	228	18	8	20	G 1/4	105
	1150	320	325	336	38	290	661	295	160	390	350	245	85	75	24	120	250	M16	260	10	690	600	8	10	41.3	42.6	100	180	228	18	8	20	G 1/4	120
	1250	360	320	349	45	260	669	360	180	4.4.0	400	210	115	100	27	120	250	M16	260	10	730	560	8	14	48.7	53.3	150	240	285	24	8	24	G 1/4	175
	1300	360	376	405	45	340	781	360	180	500	460	290	115	100	27	120	250	M16	34-0	10	790	660	8	14	481	53.3	150	240	285	24	8	24	G 1/4	220
	1350	400	375	397	55	330	772	435	200	570	510	270	115	100	27	140	270	M20	34-0	10	870	660	13	16	58.8	67.5	150	240	285	24	8	24	G 1/4	280
	1500	400	445	467	55	470	912	435	200	570	510	410	115	100	27	140	270	M20	400	10	930	720	13	16	58.8	67.5	200	295	340	24-	8	24	G 1/4	348
	1600	500	465	486	60	350	951	538	250	652	600	290	150	135	35	140	270	M20	450	10	1140	850	13	18	64.2	84	200	295	340	24	8	26	G 1/4	515
	1800	500	553	575	60	527	1128	538	250	652	600	467	150	135	35	140	270	M20	450	10	1140	1000	13	18	64.2	84	250	350	395	24	12	26	G 1/4	620
	1900	630	523	621	70	490	1144	652	315	800	720	410	180	160	SO	140	270	M20	550	10	1220	900	13	20	74.6	106	250	350	395	23	12	26	G 1/4	690
ab 11/01	1900	630	523	621	80	490	1144	652	315	800	720	410	180	160	SO	140	270	M20	550	10	1220	900	13	22	85	106	250	350	395	23	12	26	G 1/4	690
	2130	630	638	736	70	675	1374	652	315	740	660	530	180	160	30	140	270	M24	550	10	1220	1000	13	20	74.6	106	300	400	445	23	12	26	G 1/4	835
ab 01/03	2130	630	638	736	80	675	1374	652	315	740	660	530	180	160	30	140	270	M24	550	10	1220	1000	13	22	85	106	300	400	445	23	12	26	G 1/4	835
ⓔ ⓓ	2150	800	627	790	90	670	1417	810	400	910	830	525	225	200	30	170	330	M24	550	15	1300	1000	13	25	95.3	135	300	400	445	23	12	26	G 1/4	1080
	2220	800	781	944	90	977	1725	810	400	910	830	832	225	200	30	170	330	M24	550	15	1300	1200	13	25	95.3	135	400	515	565	27	16	32	G 1/4	1430
	2240	1000	782	897	100	855	1679	1095	500	930	810	725	195	170	SO	180	360	M30	630	15	1300	1200	10	28	106.1	167.5	400	515	565	26	16	32	G 1/4	1970
	2315	1000	915	1031	100	1120	1946	1095	500	930	810	990	195	170	50	180	360	M30	630	15	1300	1400	10	28	106.1	167.5	500	620	670	26	20	34	G 1/4	2360

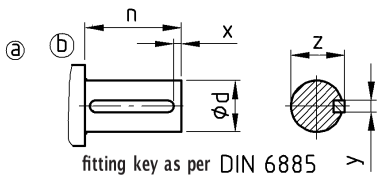


socket flange



gastight sealing
at the driving shaft

DN 50-150 n. DIN 2533
DN 200-500 n. DIN 2532



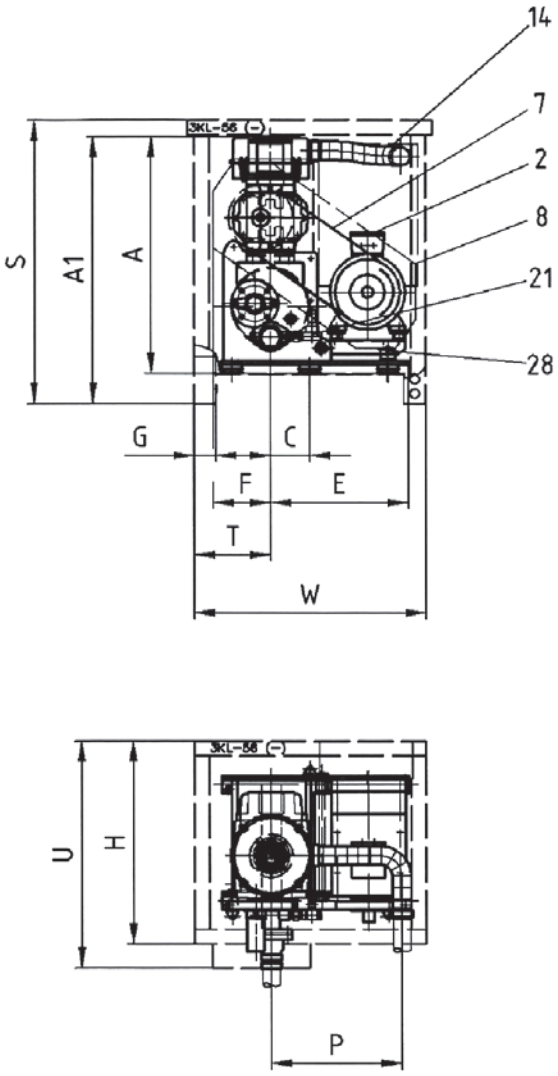
fitting key as per DIN 6885

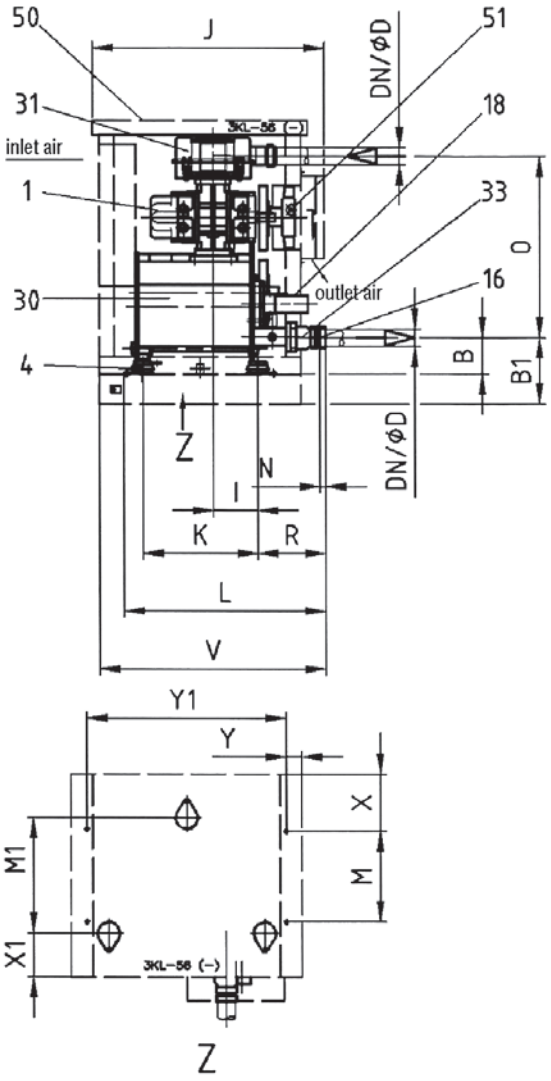
shaft end fitting

<ø50=ISA k6
>ø50=ISA m6

DIMENSIONI D'INGOMBRO GRUPPI RL_KC

RL_KC SERIES OVERALL DIMENSIONS





1 gruppo soffiante a lobi / *positive displacement blower*
2 motore elettrico / *electric motor*
4 piedini antivibranti / *anti-vibration mountings*
7 trasmissione a cinghie / *belt drive*
8 protezione delle cinghie (solo per l'installazione senza cabina di insonorizzazione) / *belt guard (only in case of installation without acoustic hood)*
14 manicotto elastico lato aspirazione (extra prezzo) / *flexible pipe connection suction side (extra price)*
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28 supporto motore incernierato / *hinged motor plate*
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51 ventola / *fan*
71 manometro (accessorio) / *pressure gauge (accessory)*
75 indicatore di manutenzione filtro (accessorio) / *maintenance indicator (accessory)*

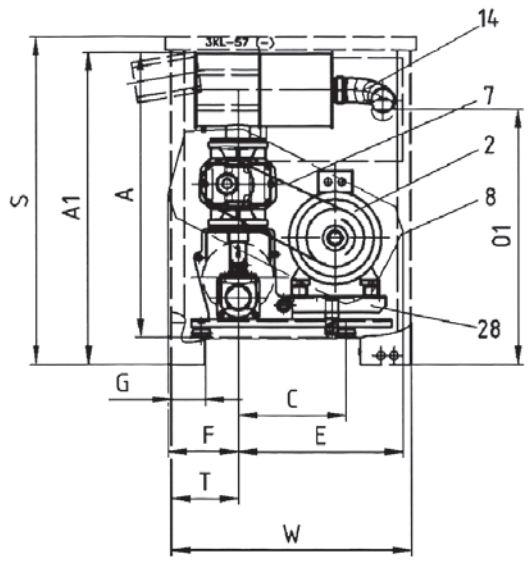
	A	A_1	B	B_1	C	DN / ø D	E	F	G	H	I	J	K	L	M	M_1	N	O	P	R	S	T	V	W	U	X	X_1	Y	Y_1	Weight without acoustic hood	Weight with acoustic hood
RL1030	815	920	123	228	135	50 / ø 60.3	475	201	75	700	155	805	400	699	320	400	20	637	450	235	978	265	785	800	782	190	150	55	690	165 kg	215 kg

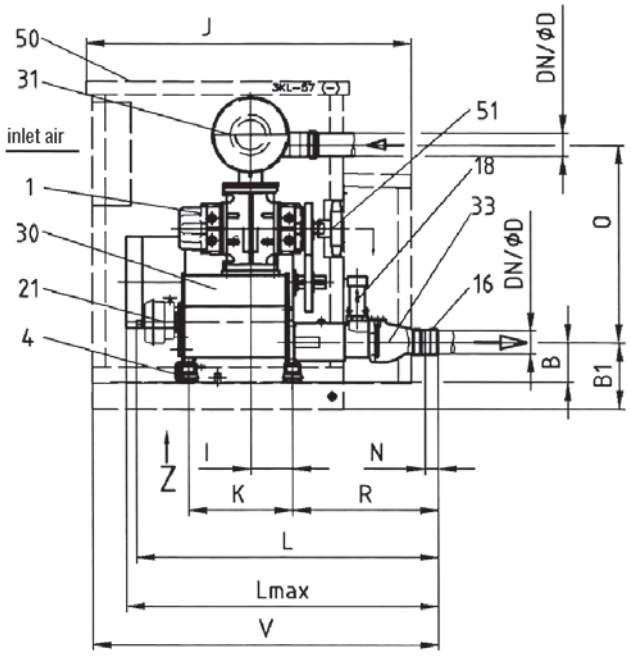
Dimensions expressed (in mm), not binding

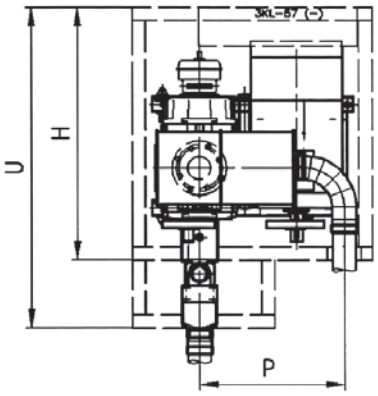
Weight without motor

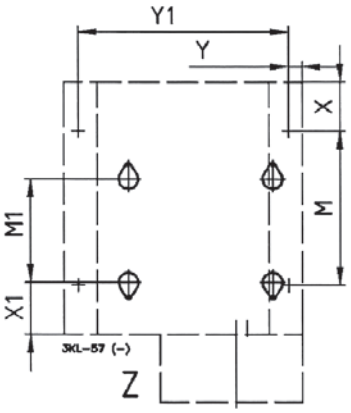
DIMENSIONI D'INGOMBRO GRUPPI RL_KC

RL_KC SERIES OVERALL DIMENSIONS









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31 filtro silenziatore */ filter silencer*
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51 ventola */ fan*
71 manometro (accessorio) */ pressure gauge (accessory)*
75 indicatore di manutenzione filtro (accessorio) */ maintenance indicator (accessory)*

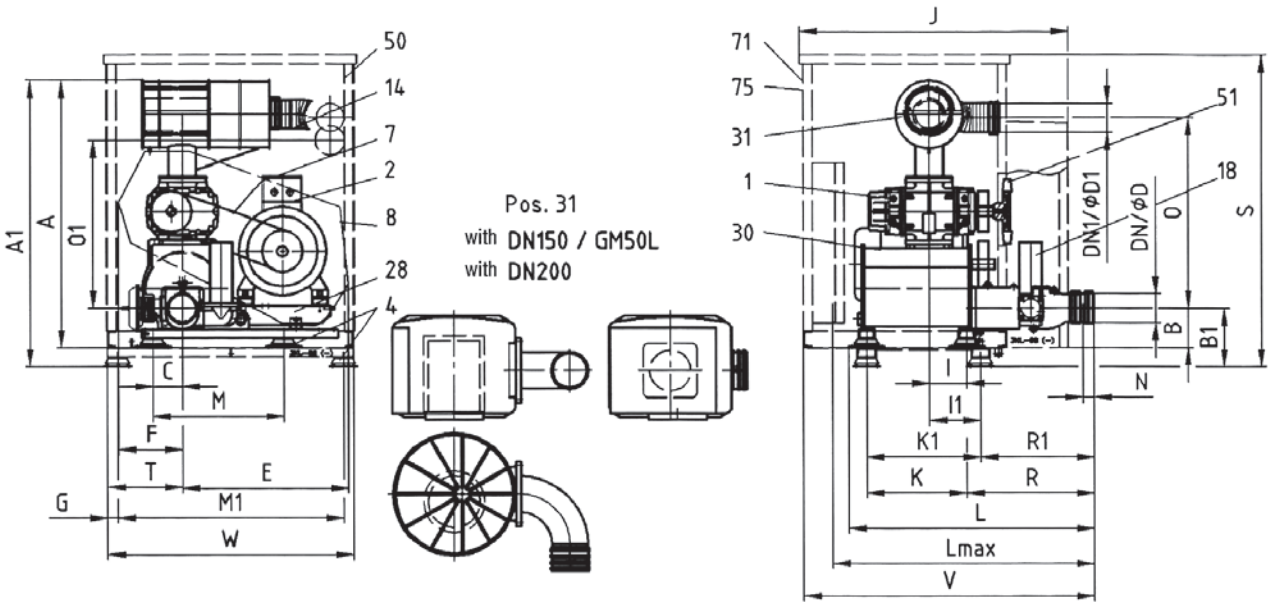
	A	A_1	B	B_1	C	DN / ø D	DN_1 / ø D_1	E	F	G	H	I	J	K	L	L_{max}	M	M_1	N	O	O_1	P	R	S	T	V	W	U	X	X_1	Y	Y_1	Weight without acoustic hood	Weight with acoustic hood
RL1040	1020	1125	153	258	416	80 / ø 88.9	80 / ø 88.9	639	269	130	975	160	1260	400	1172	1211	595	400	52	762	720	559	567	1265	258	1342	925	1237	190	200	55	815	206 kg	277 kg
RL1070	1020	1125	153	258	416	80 / ø 88.9	80 / ø 88.9	639	269	130	975	160	1260	400	1172	1211	595	400	52	762	720	559	567	1265	258	1342	925	1237	190	200	55	815	227 kg	316 kg
RL1100	1101	1206	153	258	416	80 / ø 88.9	80 / ø 88.9	639	269	130	975	160	1260	400	1172	1211	595	400	52	762	801	559	567	1265	258	1342	925	1237	190	200	55	815	258 kg	347 kg
RL1100	1333	1438	189	294	505	100 / ø 114.3	100 / ø 114.3	818	300	140	1100	185	1436	500	-	1419	720	500	45	971	1265	650	640	1500	375	1516	1250	1412	190	224	55	1140	333 kg	556 kg
RL1150	1333	1438	189	294	505	100 / ø 114.3	100 / ø 114.3	818	300	140	1100	185	1436	500	-	1419	720	500	45	971	1265	650	640	1500	375	1516	1250	1412	190	224	55	1140	348 kg	571 kg
RL1250	1322	1428	189	294	505	125 / ø 139.7	150 / ø 168.3	818	315	155	1100	185	1436	500	-	1538	720	500	70	971	1265	650	775	1500	375	1651	1250	1412	190	224	55	1140	415 kg	638 kg

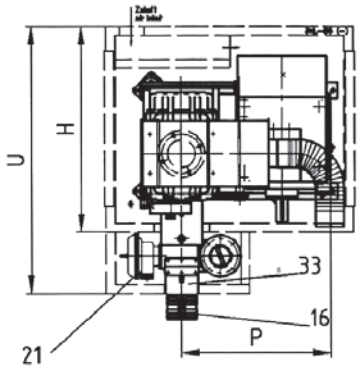
Dimensions expressed (in mm), not binding

Weight without motor

DIMENSIONI D'INGOMBRO GRUPPI RL_KC

RL_KC SERIES OVERALL DIMENSIONS





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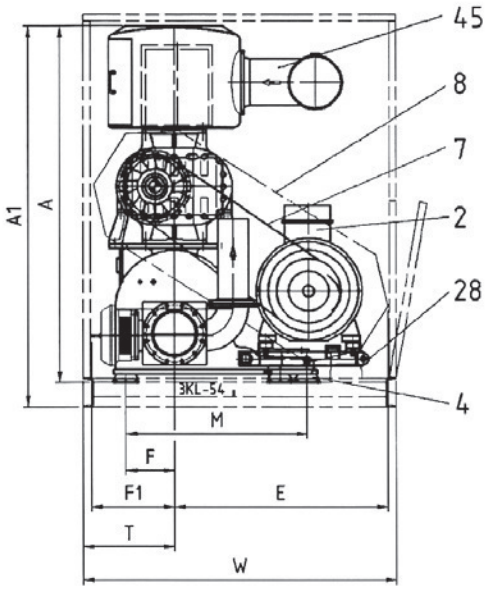
RL1330	1590	1708	238	356	180	150 / ø 168.3	150 / ø 168.3	1016	390	60	1250	230	314	1648	615	700	1506	1564	800	1380	70	1141	1161	905	780	695	1900	455	1783	1500	1625	611 kg	907 kg
RL1350	1630	1748	238	356	180	150 / ø 168.3	150 / ø 168.3	1016	390	60	1250	230	314	1648	615	700	1506	1564	800	1380	70	1186	1161	905	780	695	1900	455	1783	1500	1625	666 kg	971 kg
RL1500	1692	1810	238	356	180	150 / ø 168.3	200 / ø 219.1	1016	390	60	1250	368	341	1648	615	700	1506	1564	800	1380	70	1019	1119	703	780	695	1900	455	1783	1500	1625	770 kg	1070 kg
RL1500	1615	1745	320	450	320	200 / ø 219.1	200 / ø 219.1	1035	440	60	1460	283	293	1917	731	741	1740	1921	820	1480	70	1024	1024	673	927	428	2100	493	2098	1600	1895	985 kg	1365 kg
RL1600	1715	1845	320	450	320	200 / ø 219.1	200 / ø 219.1	1035	440	60	1460	283	293	1917	731	741	1740	1921	820	1480	70	1124	1117	673	927	428	2100	493	2098	1600	1895	1110 kg	1490 kg

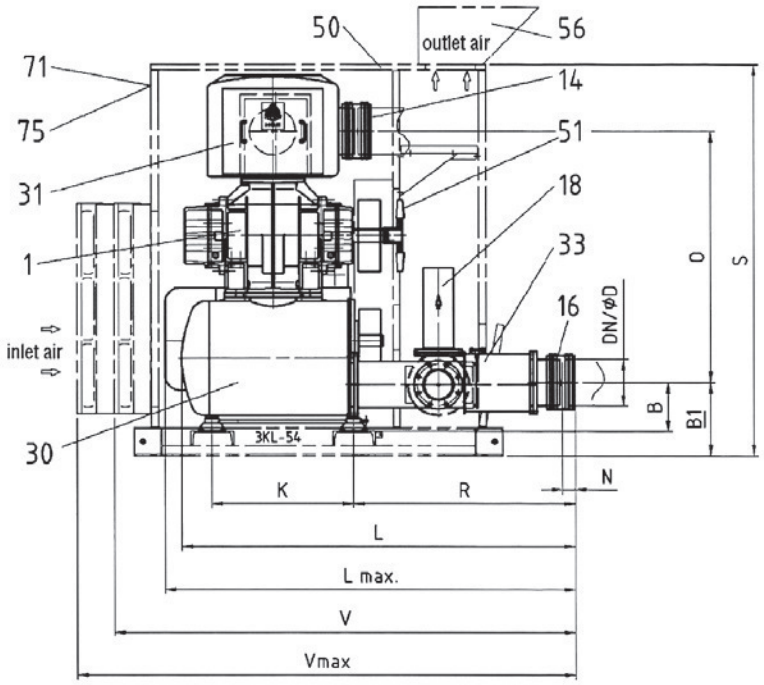
Dimensions expressed (in mm), not binding

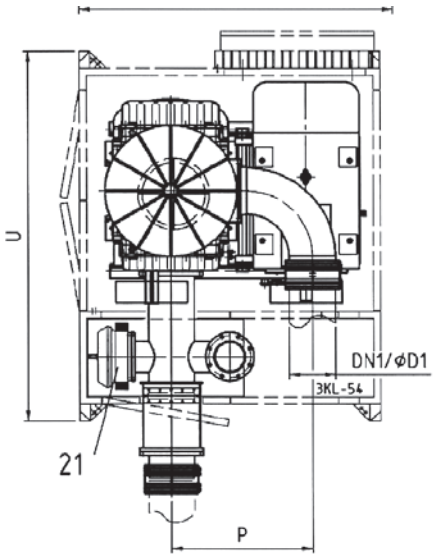
Weight without motor

DIMENSIONI D'INGOMBRO GRUPPI RL_KC

RL_KC SERIES OVERALL DIMENSIONS







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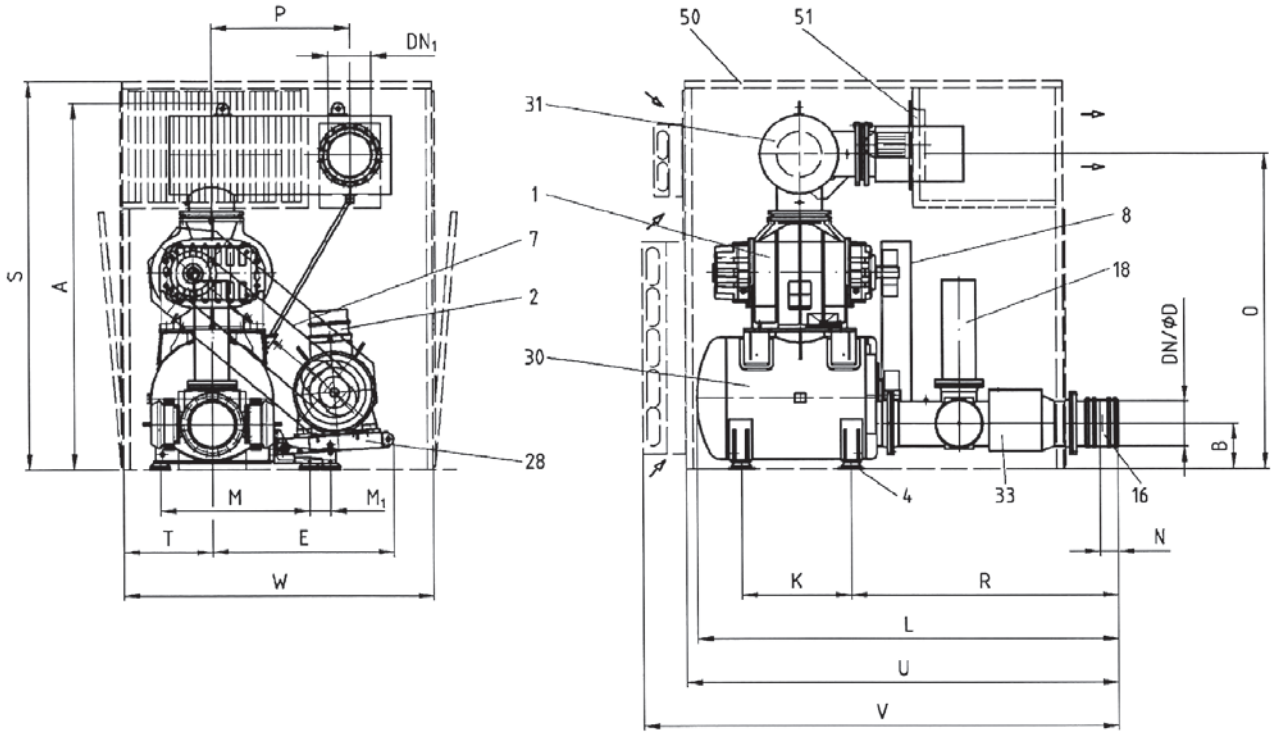
RL1800	1885	2015	326	456	250 / ø 273	250 / ø 273	1078	330	485	741	2090	2286	880	90	1236	696	1258	2200	495	2614	2964	1600	2110	1610 kg	2395 kg
RL1900	2015	2145	326	456	250 / ø 273	250 / ø 273	1087	330	485	741	2090	2286	880	90	1366	696	1258	2200	495	2614	2964	1600	2110	1750 kg	2535 kg
RL2130	2335	2505	344	514	300 / ø 323.9	300 / ø 323.9	1491	340	560	995	2765	3230	1270	90	1585	990	1558	2740	640	3237	3587	2190	2590	2567 kg	4182 kg
RL2150	2505	2675	344	514	300 / ø 323.9	300 / ø 323.9	1491	340	560	995	2765	3230	1270	90	1755	990	1558	2740	640	3237	3587	2190	2590	2812 kg	4427 kg

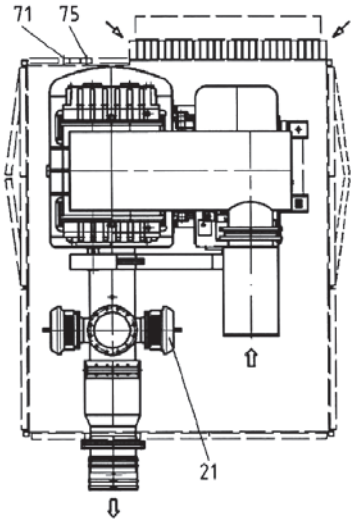
Dimensions expressed (in mm), not binding

Weight without motor

DIMENSIONI D'INGOMBRO GRUPPI RL_KC

RL_KC SERIES OVERALL DIMENSIONS





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	A	B	DN / ø D	DN1	E	K	L	M	M1	N	O	P	R	S	T	V	W	U	Weight without acoustic hood	Weight with acoustic hood
RL2220	3110	410	400 / ø 406.4	400	1644	990	3813	1345	190	160	2639	1250	2421	3500	800	4304	2800	3910	4981 kg	8240 kg
RL2240	3310	410	400 / ø 406.4	400	1644	990	3813	1345	190	160	2839	1250	2421	3500	800	4304	2800	3910	5371 kg	8630 kg

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Weight without motor