

Plug Fan - RLM Series

Professional HVAC Fan & Motors Manufacturer



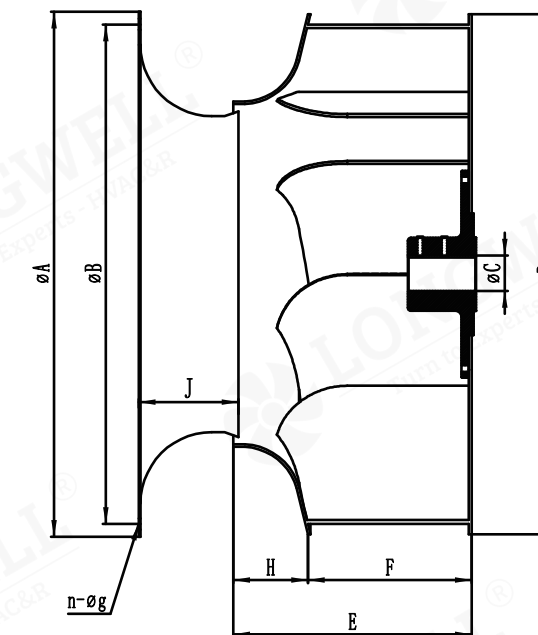
Plug Fan - RLM Series

Product Outline

The RLM Series of centrifugal plug fan was developed by using international advanced technologies. The RLM series includes 13 models as described in this brochure. The volume flow ranges of the RLM Series varies from 500 cubic meter per hour to 70000 cubic meters per hour. Some of the features and characteristics of these ventilators are: wide range of applications, high efficiency, low noise, and low power consumption. These ventilators are ideal for use in central air conditioning systems, heating and ventilation air conditioning systems, and in purifiers. They are also suitable for use in a number of other ventilator applications.

Mounting unit

Impeller, inlet cone and Motor are fit together with mounting unit. Mounting unit is made of galvanized plate. Many sizes of motor could be selected, and Horizontal or vertical shaft. Many sizes of connection of inlet cone.



Model	ΦA	ΦB	ΦC	ΦD	E	F	H	J	Φg	n	MaxPPM
RLM250-R	275	255	14 19 24	272	118	80	38	45	9	6	4500
RLM280-R	300	280	14 19 24 28	308	133	89	44	50	9	6	4300
RLM315-R	355	325	19 24 28	345	146	100	46	57	9	6	4000
RLM355-R	383	344	19 24 28	385	162	112	50	62	9	6	3500
RLM400-R	423	386	19 24 28 38	430	185	126	59	67	9	8	2900
RLM450-R	466	432	19 24 28 38	480	210	142	68	78	11	8	2900
RLM500-R	515	485	19 24 28 38 42	540	235	159	76	84.5	11	8	2500
RLM560-R	570	544	24 28 38 42	603	262	178	84	99	11	8	2200
RLM630-R	635	605	24 28 38 42	680	293	199	94	114	13	8	1900
RLM710-R	700	670	28 38 42 48	762	328	224	104	130	13	10	1600
RLM800-R	778	750	28 38 42 48 55	855	368	252	116	139	13	10	1400
RLM900-R	875	844	38 42 48 55	955	413	282	131	160	13	12	1250
RLM1000-R	980	945	38 42 48 55 60 65	1055	462	316	146	177	13	12	960

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Impeller

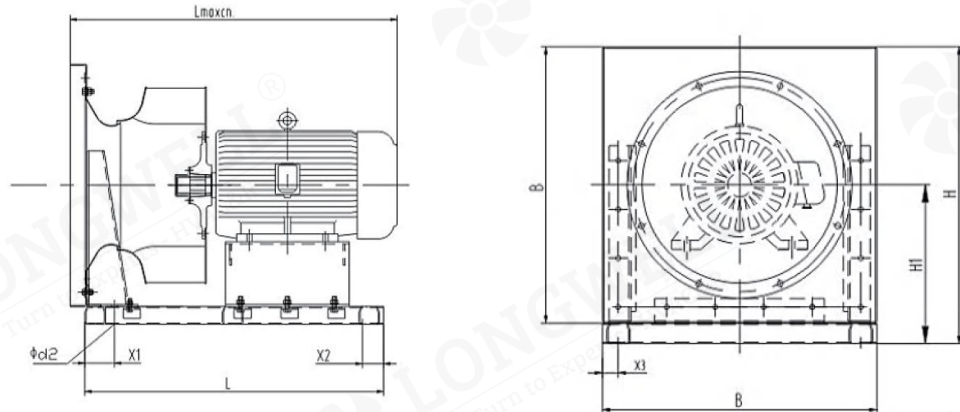
Centrifugal plug fan impellers are made of Aluminium with backward blade, according aerodynamics design the impeller have high efficiency and low power. Maximum tip speed of the impeller is 70m/s. Outstanding characteristic is with stable performance and low noise, and the impeller is balanced according to G 2.5 to DIN ISO 1940/1. Inside of impeller the GG-hub is fixed with locked bush. The blade is made of stainless steel or steel.

Inlet Cone

The inlet cone is made of sheet steel and is a special part, it can lead air into impeller stably.

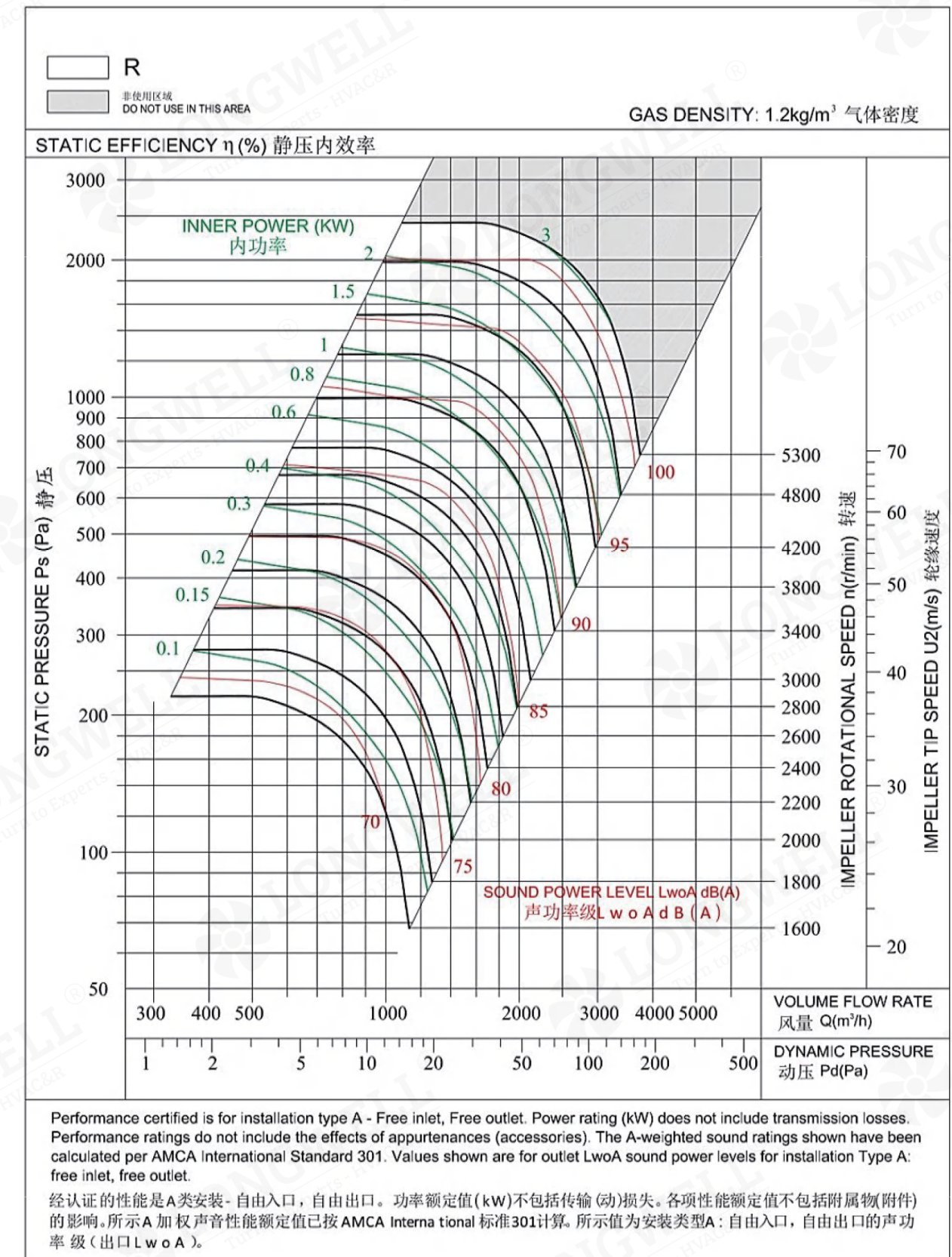
Wrap part

Wrap part of Impeller and inlet cone is design to ensure impeller performance and take care to protect, this wrap part manufacture with aerodynamic via special testing.

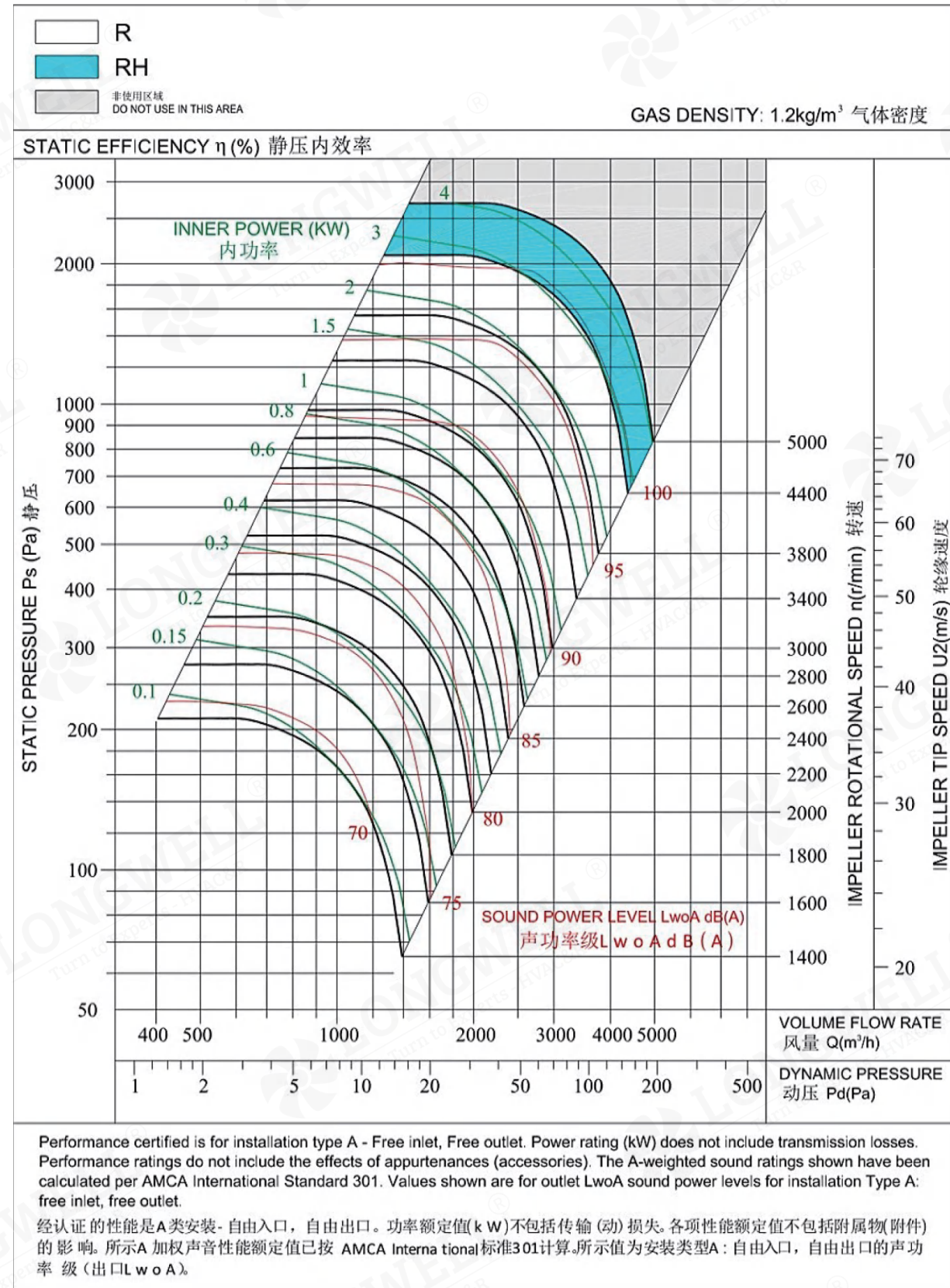


Model	B	H	H1	L	Lmaxca.	X1	X2	X3	Φd2
RLM250-RH	376	414	226	475	610	60	40	24.5	14
RLM280-RH	400	438	238	475	610	60	40	24.5	14
RLM315-RH	430	468	253	520	660	60	40	24.5	14
RLM355-RH	462	500	269	533	680	60	40	25	14
RLM400-RH	502	540	289	586	740	60	40	25	14
RLM450-RH	566	608	325	700	780	69	50	33	14
RLM500-RH	612	654	348	760	800	80	50	31	14
RLM560-RH	688	744	400	870	950	100	50	38	18
RLM630-RH	768	824	440	920	990	100	50	39	18
RLM710-RH	850	935	510	1000	1090	100	50	50	18
RLM800-RH	940	1020	550	1100	1220	100	100	50	20
RLM900-RH	1044	1154	632	1200	1291	100	100	60	20
RLM1000-RH	1140	1250	680	1320	1486	100	100	60	20

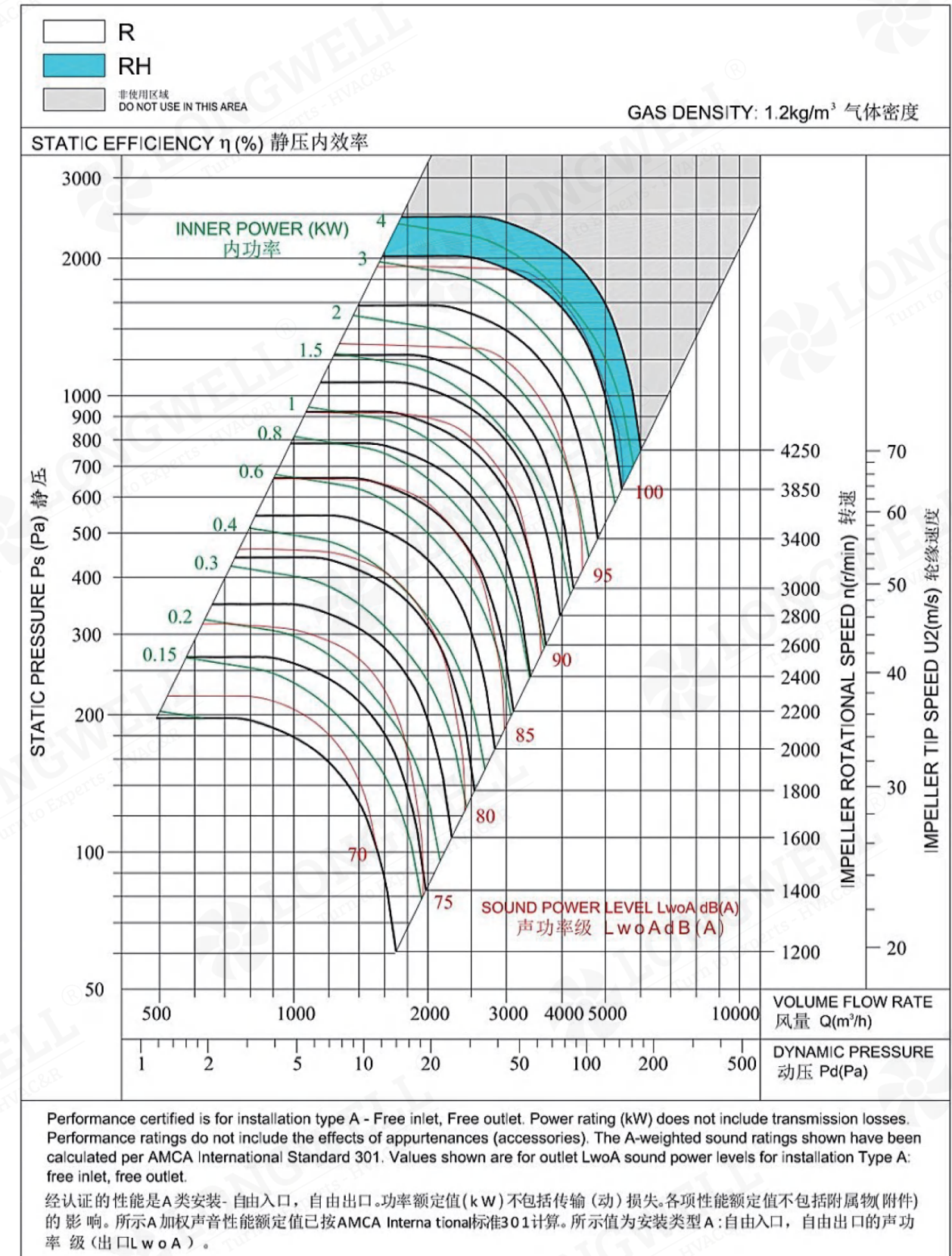
RLM-250



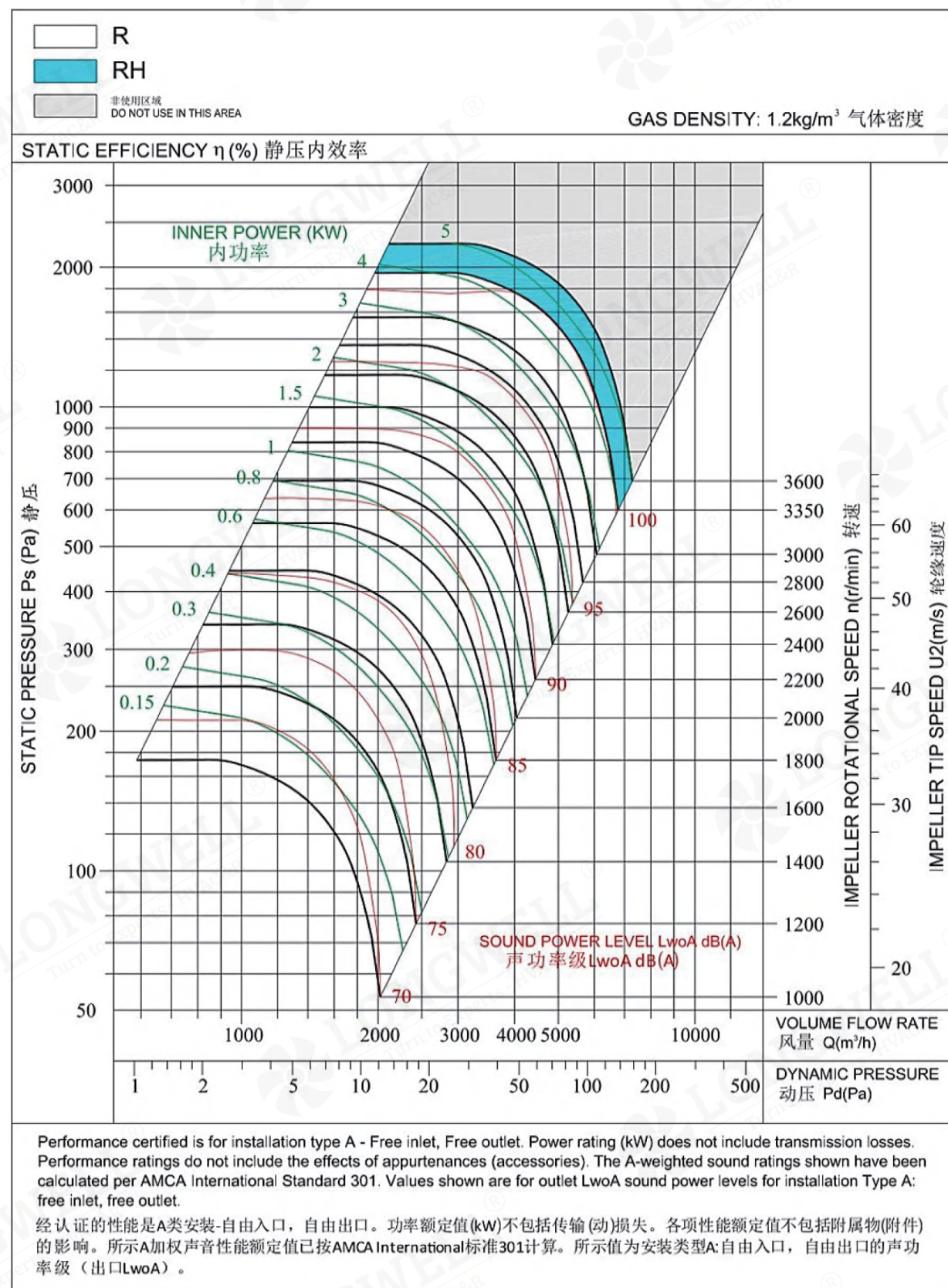
RLM-280



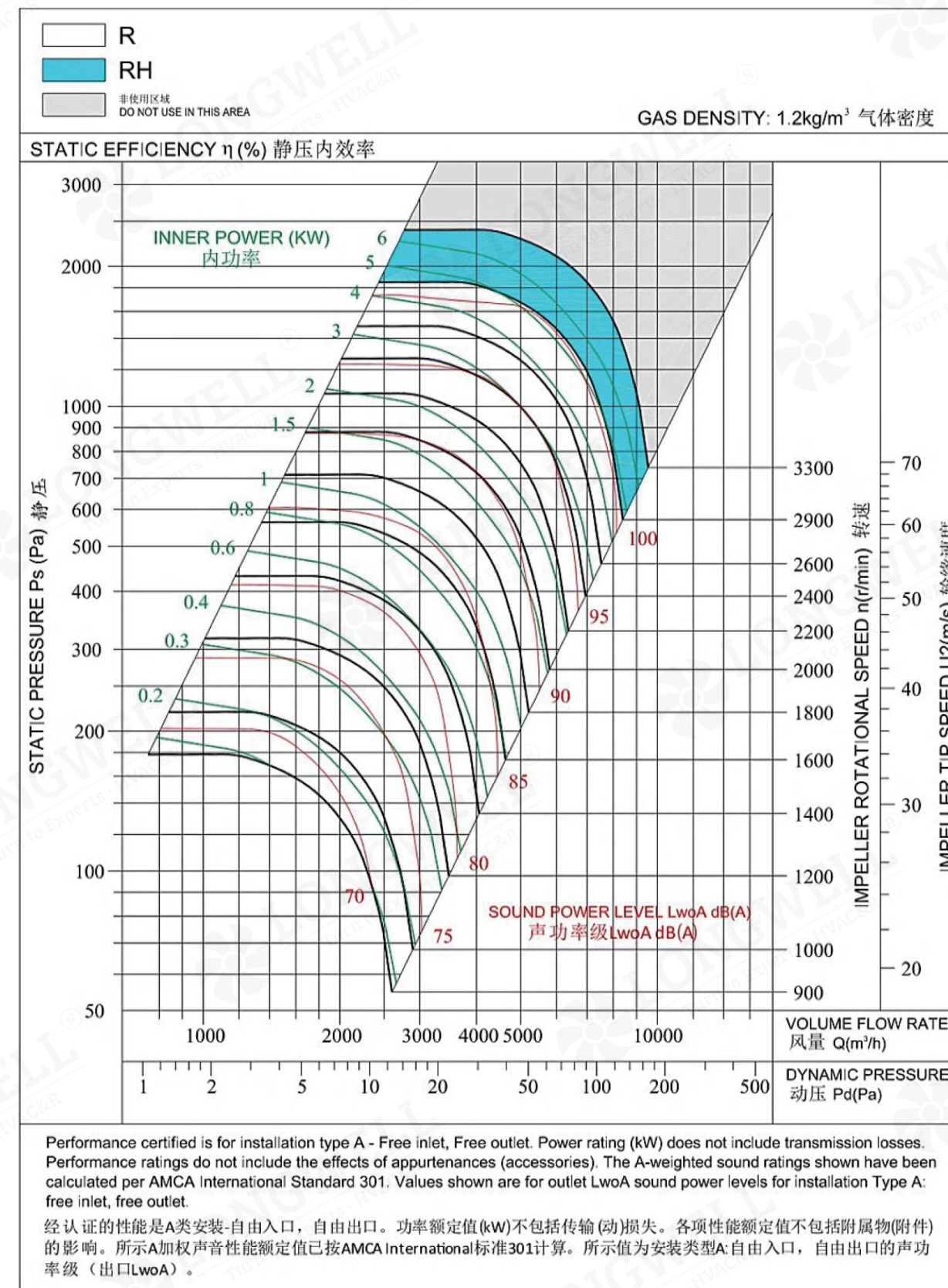
RLM-315



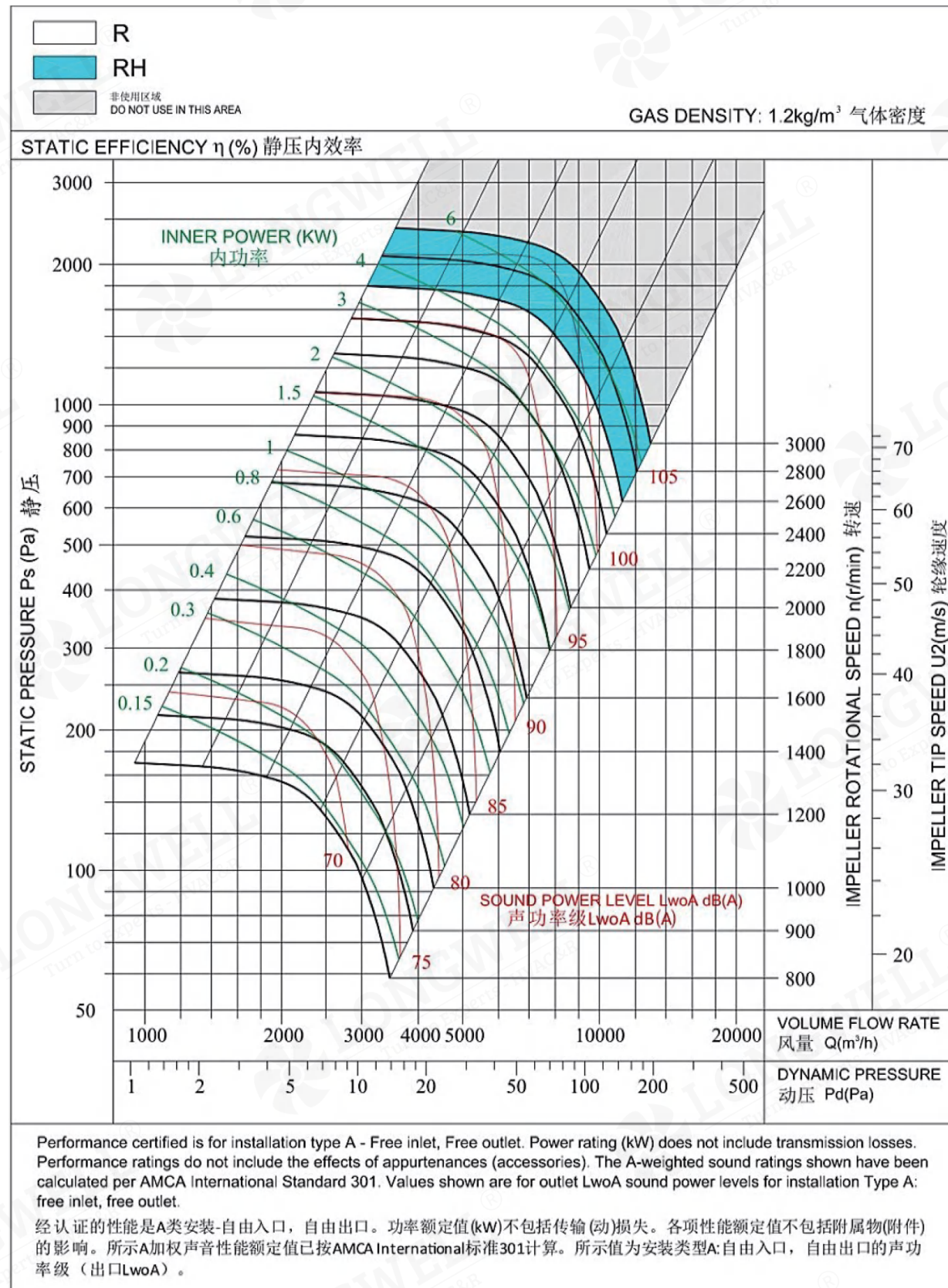
RLM-355



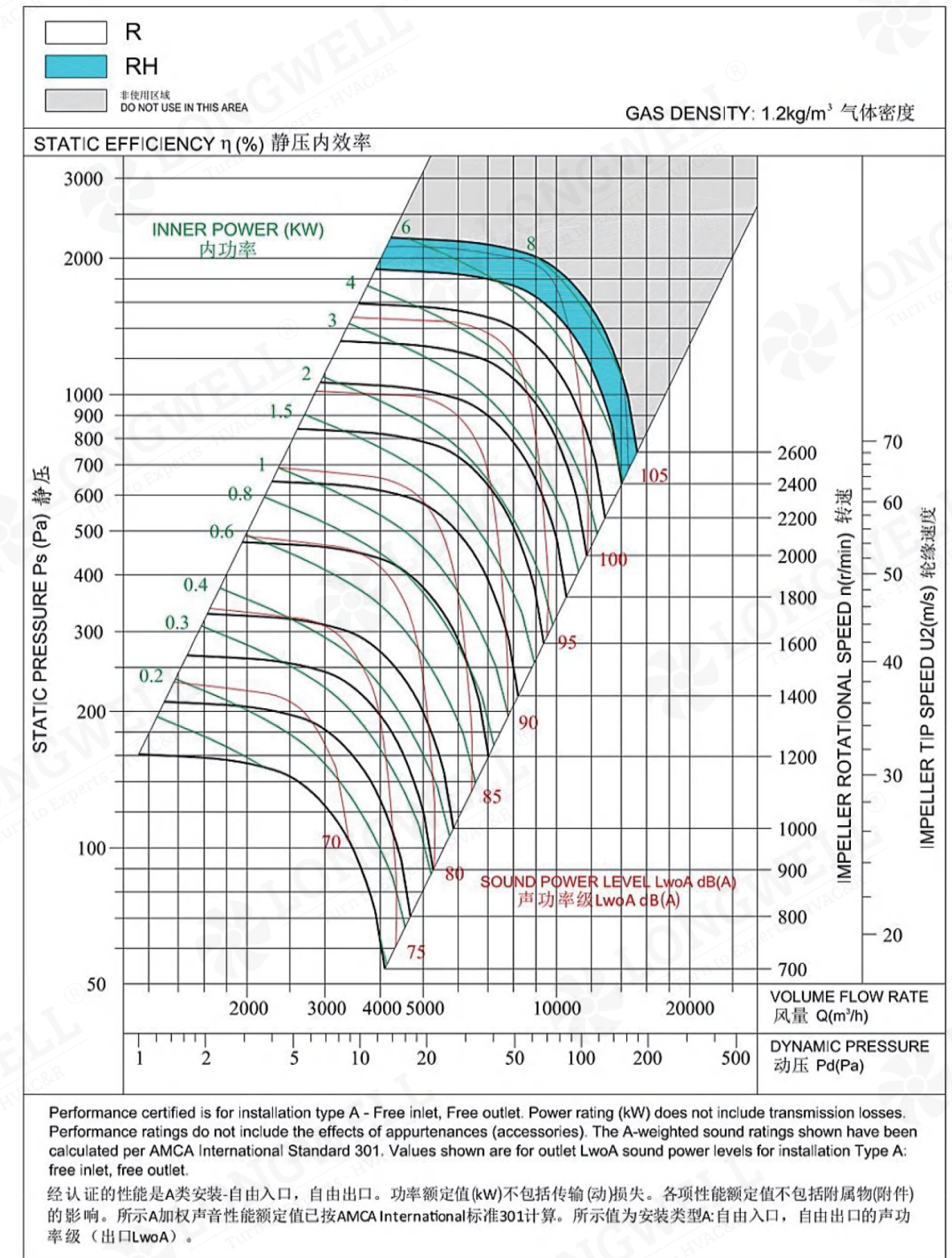
RLM-400



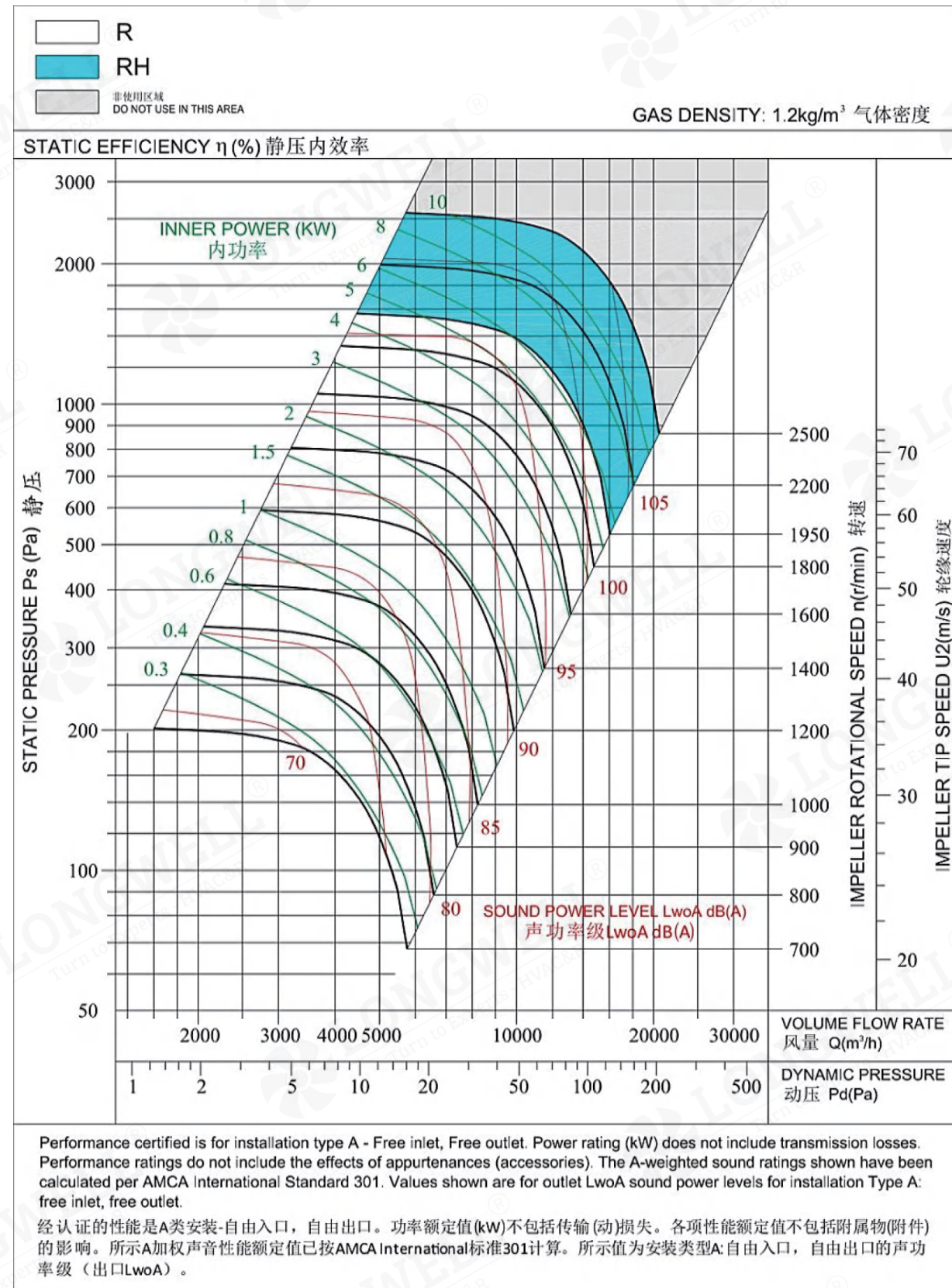
RLM-450



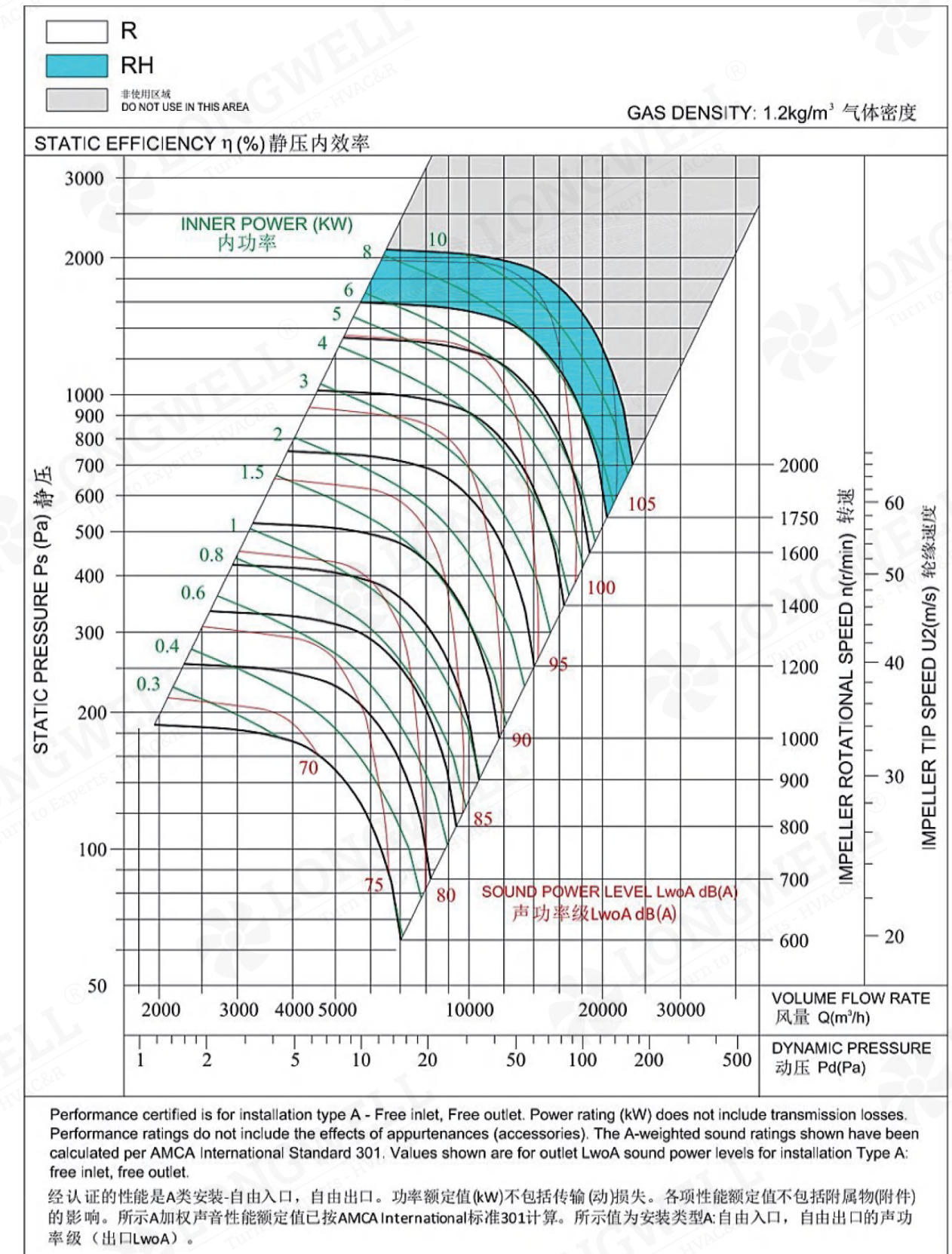
RLM-500



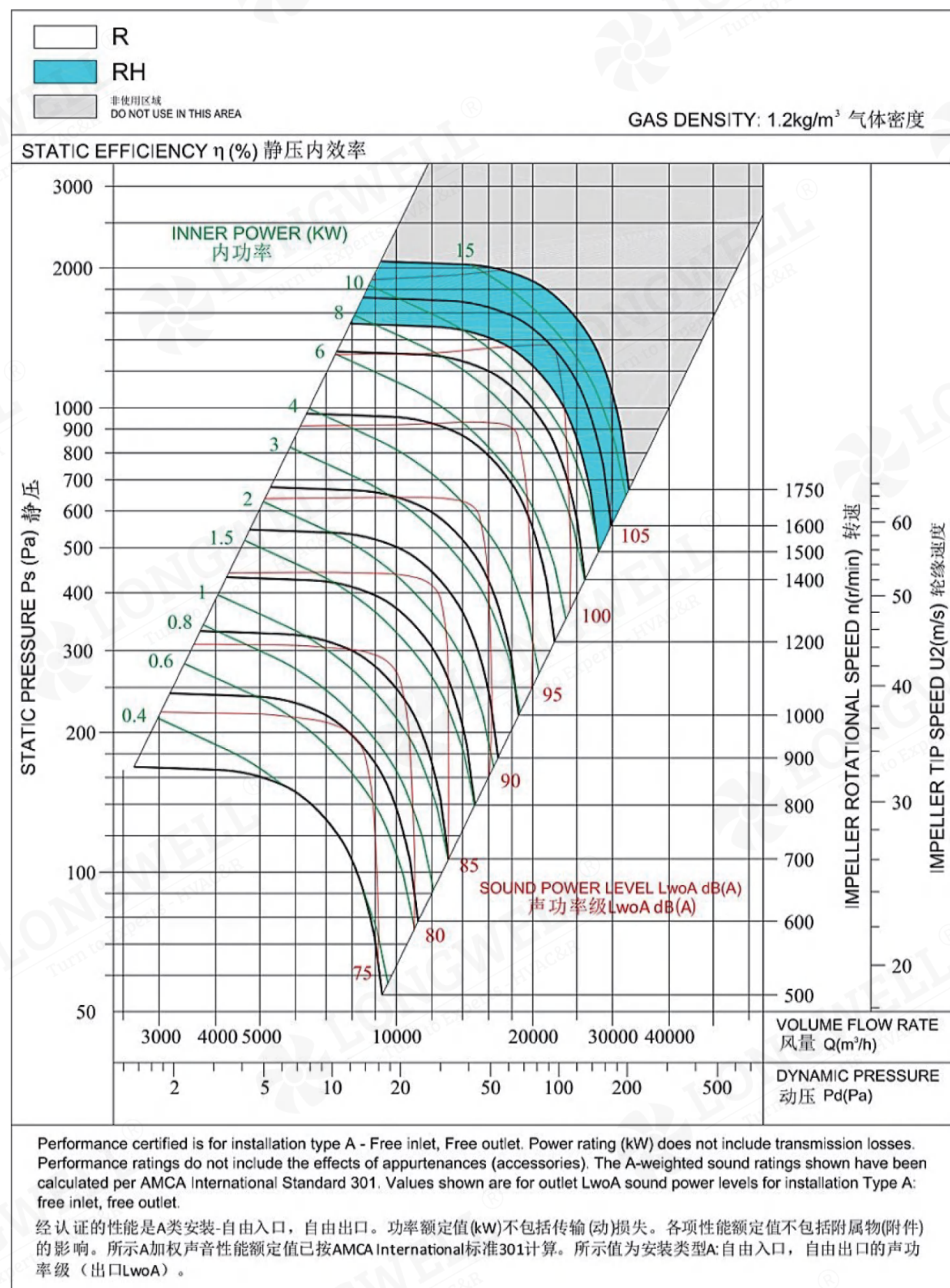
RLM-560



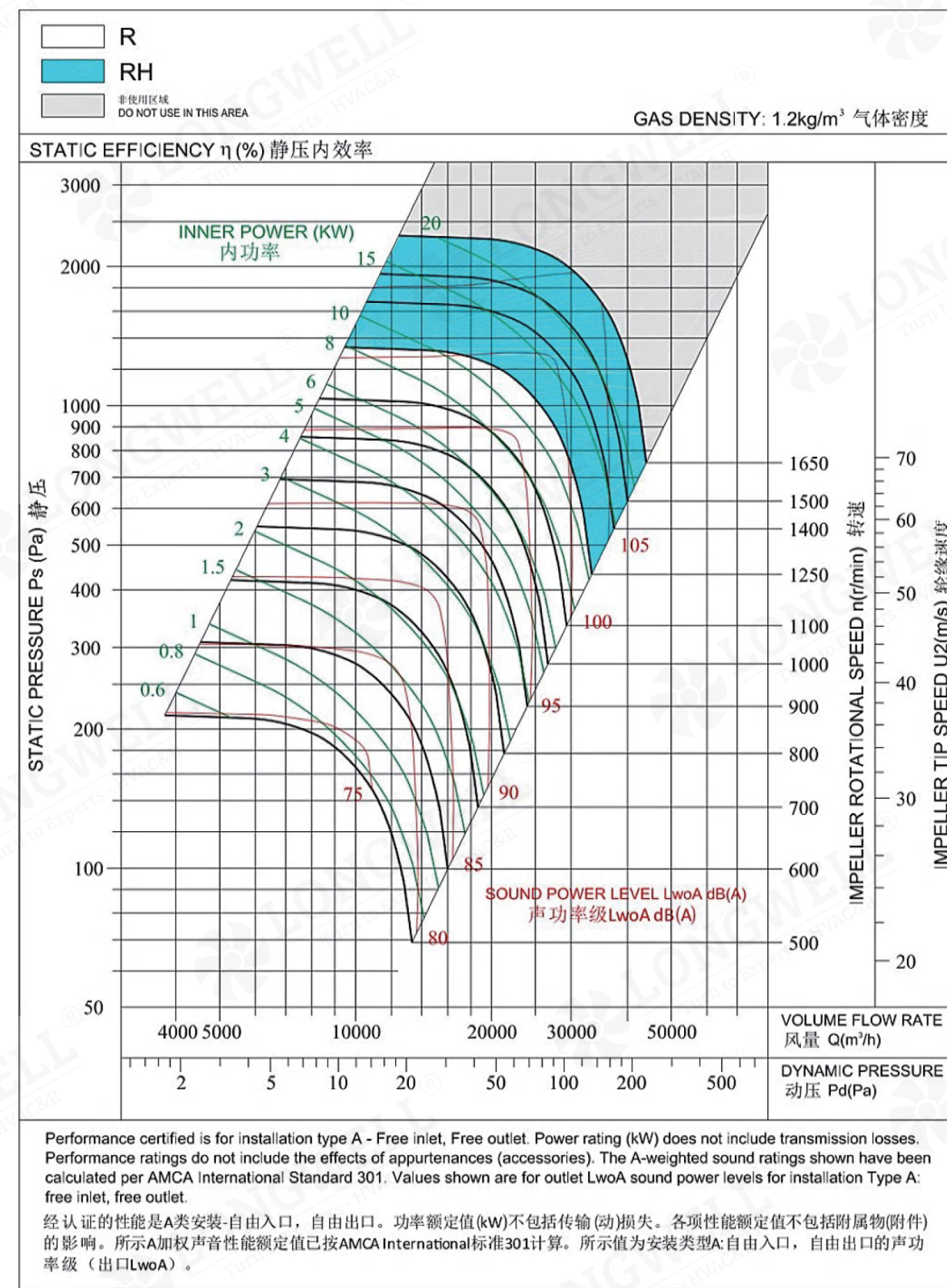
RLM-630



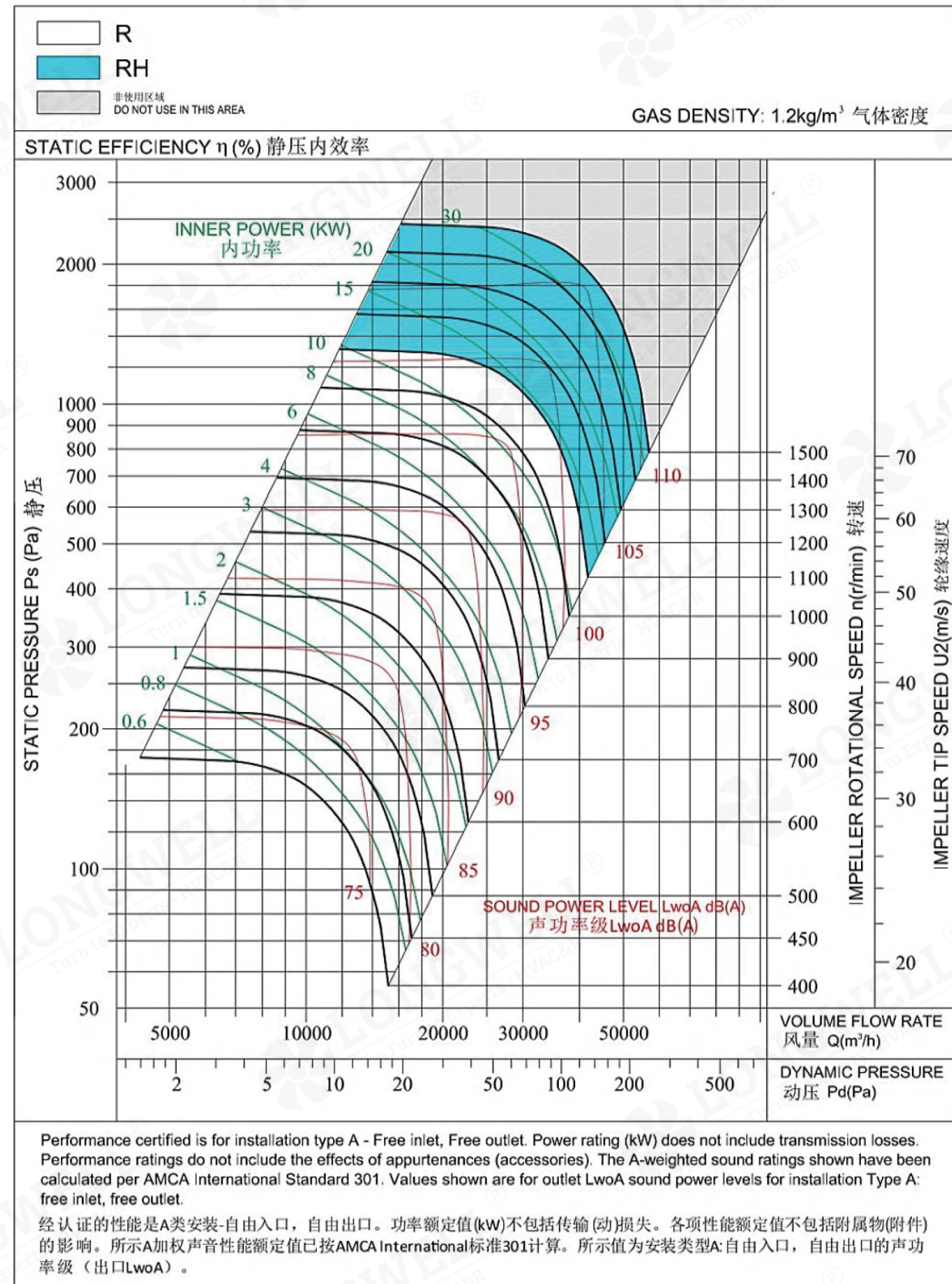
RLM-710



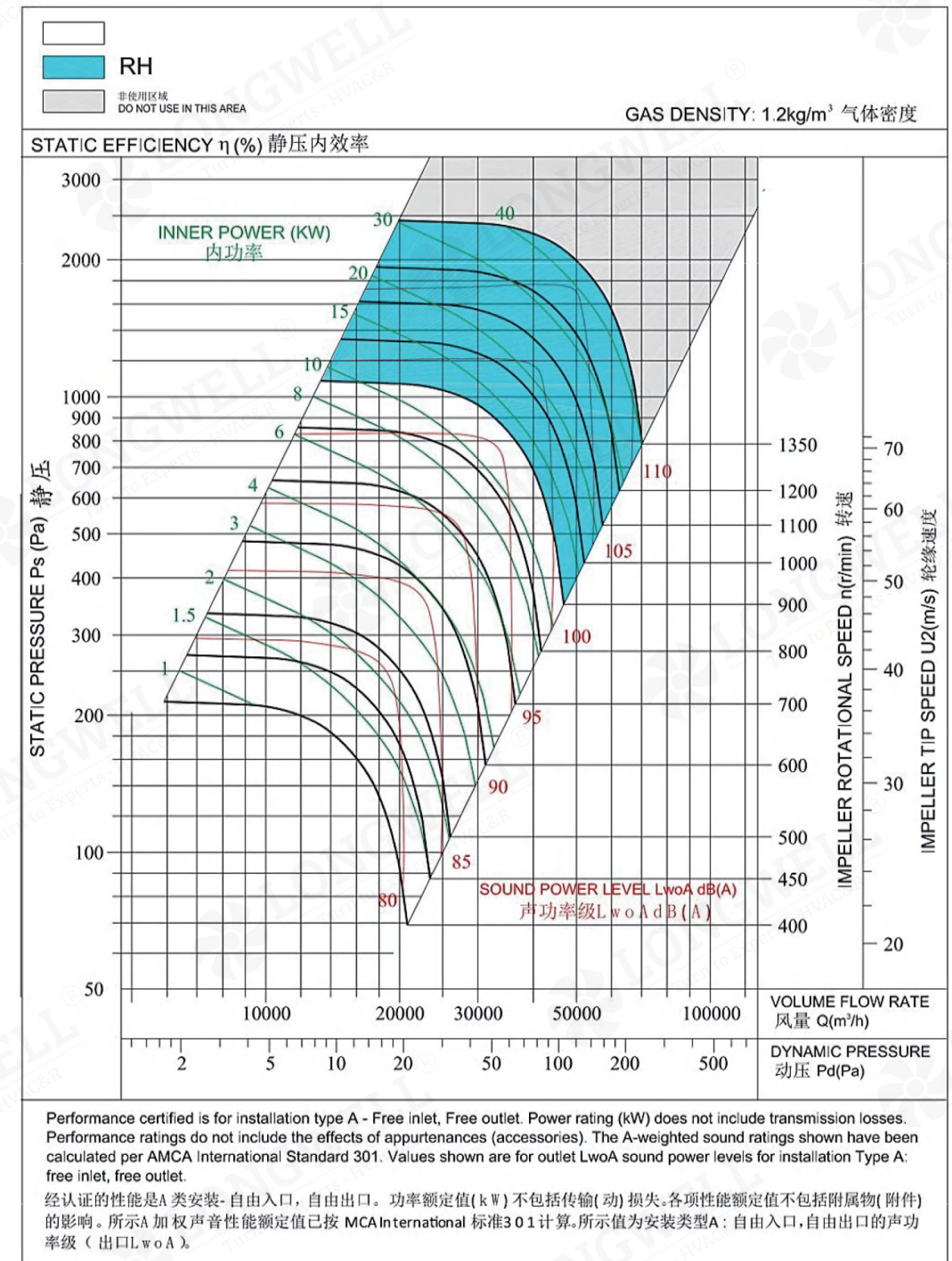
RLM-800



RLM-900



RLM-1000



Fan Selection Criteria

(1) The selection of high efficiency,the smaller the smaller,the larger the scope of the wind turbine,to meet the system can accept the performance,efficiency and quality requirements.

The fan operating point,should be selected in the vicinity of high efficiency fan,to ensure stable operation,avoid the work of the fan in the surge zone.To reduce the noise,we must reduce the speed of the wind turbine,the choice of a large fan.AV system fan,air pressure should be selected according to the operating time of a longer part of the load conditions.

(2) The choice of a strong wind turbine,often make the wind turbine running in the small wind area,the pressure diference between the inlet and outlet of the wind turbine,will cause the operation of instability and noise pulse,higher noise.After selection of wind machine,will raise the rotation speed of the fan,air leaving the blades have higher speed,also can produce high noise.The average speed of the air blower is M/S 10-15.

(3) Before to the multi blade fan: has the advantages of low speed,light structure,low noise, good speed regulation performance and cheap price,when the design flow and the pressure of small or large volume low pressure should give high priority to the use of wind turbine.After the wind machine,which has the advantages of high efficiency,low noise,high pressure and structure characteristics of strong,when the design pressure of fan is large should give high priority to the use of wind turbine.No shell fan: when the pipe network needs a flexible export position,need to reduce the pipeline outlet noise,or pipe network in the future may change the occasion should be preferred.

(4) Total pressure curve is flat,small steepness,static pressure has a great influence on the wind power,performance and wider range of fan for air volume system,the static pressure sensitive,need air conditioning VAV air conditioning units.Full pressure curve is steep,steep, static pressure of air power influence small wind machine,suitable for fixed volume of air conditioner,before the wind turbine motor is not overloaded.The belt drive fan to polemotor with 4/6.