

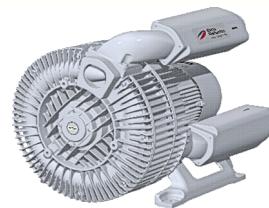


**Elmo
Rietschle**

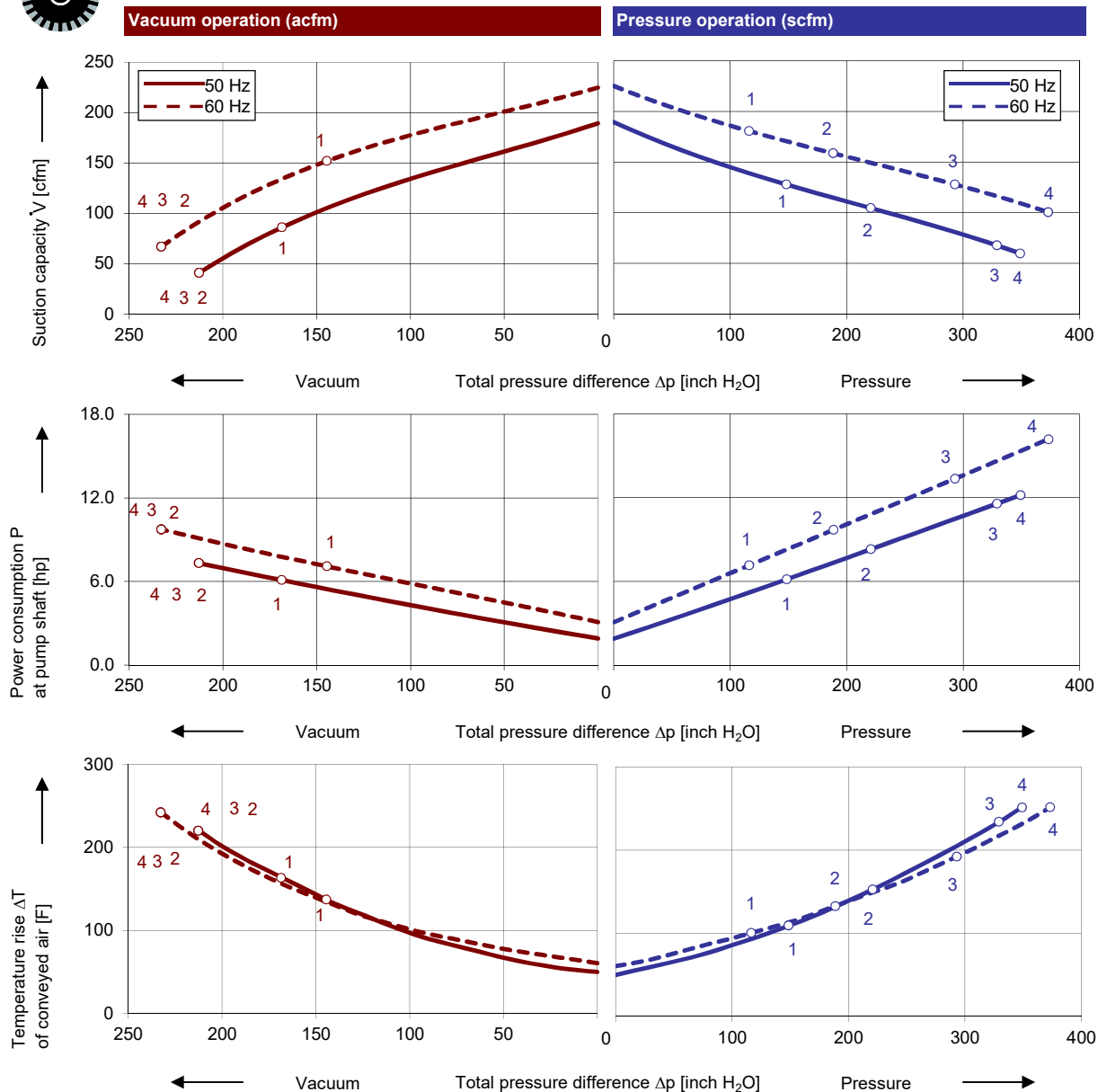
G-BH 2 N

Data sheet 2BH2 0360-2

Side channel blower with NEMA Premium motor



Performance curves



The performance curves are based on air at a temperature of 59 F and an atmospheric pressure of 29.92 inch Hg with a tolerance of $\pm 10\%$. The total Suction capacity relates to inlet conditions. Pressure capacity relates to atmospheric conditions. For other conditions please contact Elmo Rietschle.

Every G-BH blower can be used either for vacuum or pressure in continuous operation over the total performance curve range. The standard motors have a protection category of IP 55 and insulation class F. These blowers are UL and CSA approved.

Selection and ordering data

Type										
No.	Frequency	Rated			Max. differential pressure ²⁾		pressure level ³⁾	Efficiency ⁴⁾	Weight	Order No.
		Voltage ¹⁾	Current	Power	Vacuum	Pressure				
		Hz	V	A	hp	inch H2O				
IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 and CAN/CSA C22.2 No. 68-09 (certificate number E225239)										
1	50	190-210 Δ	17.1 Δ	6.2	-169	149	65	IE3	203	2BH20360-2AAKL1-BA
	60	190-210 YY / 380-420 Y	19.6 YY / 9.8 Y	7.1	-145	116	69	IE3		
	60	200 YY	19.6 YY	7.1	-145	116	69	NP		
2	50	190-210 Δ	23.5 Δ	8.4	-213	221	70	IE3	218	2BH20360-2AAKM1-BA
	60	190-210 YY / 380-420 Y	27.6 YY / 13.8 Y	9.8	-233	189	75	IE3		
	60	200 YY	27.6 YY	9.8	-233	189	75	NP		
3	50	190-210 Δ	30.8 Δ	11.5	-213	329	70	IE3	245	2BH20360-2AAKN1-BA
	60	190-210 YY / 380-420 Y	35.2 YY / 17.6 Y	13.3	-233	293	75	IE3		
	60	200 YY	35.2 YY	13.3	-233	293	75	NP		
	50	190-210 Δ	46.4 Δ	16.9	-213	349	71	IE3	287	2BH20360-2AAKP1-BA
	60	190-210 YY / 380-420 Y	52.8 YY / 26.4 Y	19.4	-233	373	76	IE3		
	60	200 YY	52.8 YY	19.4	-233	373	76	NP		
IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 and CAN/CSA C22.2 No. 68-09 (certificate number E225239)										
1	50	220-240 Δ / 380-420 Y	14.9 Δ / 8.6 Y	6.2	-169	149	65	IE3	203	2BH20360-2AAKL6-BA
	60	220-240 YY / 440-480 Y	17.0 YY / 8.5 Y	7.1	-145	116	69	IE3		
	60	230 YY / 460 Y	17.0 YY / 8.5 Y	7.1	-145	116	69	NP		
2	50	220-240 Δ / 380-420 Y	20.4 Δ / 11.8 Y	8.4	-213	221	70	IE3	218	2BH20360-2AAKM6-BA
	60	220-240 YY / 440-480 Y	24.0 YY / 12.0 Y	9.8	-233	189	75	IE3		
	60	230 YY / 460 Y	24.0 YY / 12.0 Y	9.8	-233	189	75	NP		
3	50	220-240 Δ / 380-420 Y	26.8 Δ / 15.5 Y	11.5	-213	329	70	IE3	245	2BH20360-2AAKN6-BA
	60	220-240 YY / 440-480 Y	30.6 YY / 15.3 Y	13.3	-233	293	75	IE3		
	60	230 YY / 460 Y	30.6 YY / 15.3 Y	13.3	-233	293	75	NP		
4	50	220-240 Δ / 380-420 Y	40.3 Δ / 23.3 Y	16.9	-213	349	71	IE3	287	2BH20360-2AAKP6-BA
	60	220-240 YY / 440-480 Y	46.0 YY / 23.0 Y	19.4	-233	373	76	IE3		
	60	230 YY / 460 Y	46.0 YY / 23.0 Y	19.4	-233	373	76	NP		
IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 and CAN/CSA C22.2 No. 68-09 (certificate number E225239)										
1	50	475-525 Y	6.9 Y	6.2	-169	149	65	IE3	202	2BH20360-2AAQL3-BA
	60	550-600 Y	6.8 Y	7.1	-145	116	69	NP		
2	50	475-525 Y	9.5 Y	8.4	-213	221	70	IE3	217	2BH20360-2AAQM3-BA
	60	550-600 Y	9.6 Y	9.8	-233	189	75	NP		
3	50	475-525 Y	12.4 Y	11.5	-213	329	70	IE3	244	2BH20360-2AAQN3-BA
	60	550-600 Y	12.2 Y	13.3	-233	293	75	NP		
4	50	475-525 Y	18.6 Y	16.9	-213	349	71	IE3	283	2BH20360-2AAQP3-BA
	60	550-600 Y	18.4 Y	19.4	-233	373	76	NP		
IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 and CAN/CSA C22.2 No. 68-09 (certificate number E225239)										
1	50	380-420 Δ / 660-725 Y	8.6 Δ / 5.0 Y	6.2	-169	149	65	IE3	202	2BH20360-2AAQL7-BA
	60	440-480 Δ	8.5 Δ	7.1	-145	116	69	IE3		
	60	460 Δ	8.5 Δ	7.1	-145	116	69	NP		
2	50	380-420 Δ / 660-725 Y	11.8 Δ / 6.8 Y	8.4	-213	221	70	IE3	217	2BH20360-2AAQM7-BA
	60	440-480 Δ	12.0 Δ	9.8	-233	189	75	IE3		
	60	460 Δ	12.0 Δ	9.8	-233	189	75	NP		
3	50	380-420 Δ / 660-725 Y	15.5 Δ / 8.9 Y	11.5	-213	329	70	IE3	244	2BH20360-2AAQN7-BA
	60	440-480 Δ	15.3 Δ	13.3	-233	293	75	IE3		
	60	460 Δ	15.3 Δ	13.3	-233	293	75	NP		
4	50	380-420 Δ / 660-725 Y	23.3 Δ / 13.4 Y	16.9	-213	349	71	IE3	283	2BH20360-2AAQP7-BA
	60	440-480 Δ	23.0 Δ	19.4	-233	373	76	IE3		
	60	460 Δ	23.0 Δ	19.4	-233	373	76	NP		

2) Relief valves available for limiting differential pressure.

3) Surface sound pressure levels are according to EN ISO 3744, measured with an equivalent unit at a distance of 1 m. The pump is throttled to an average suction pressure, with piping connected, but no relief valves fitted, tolerance ±3 dB (A).

4) The motors according to NEMA MG1-12. NP=NEMA Premium; NEMA Premium includes IE3.

All G-BH blowers conform to the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034 norm "Rotating electrical machines".

Service factor (SF) and motor efficiency according NEMA MG1-12.

Voltage tolerances for three phase motors are +/-10%.

The frequency tolerance is +/- 2 % maximum.

Motor for alternate voltages

Voltage range		Efficiency 4)					
50 Hz	60Hz			60 Hz	2BH2.......		
3~							
200 VΔ	200 V YY / 230 VΔ / 400 VY						
190-210 VΔ	190-210 VYY / 220-240 VΔ / 380-420VY	IE3	•		K	1	
200 V YY / 230 VΔ / 400 VY	230 V YY / 460 VY						
190-210 VYY / 220-240 VΔ / 380-420VY	220-240 VYY / 440-480VY	IE3	•		K	6	
475-525 V Y	550-600 V Y		•		Q	3	
475-525 VΔ	550-600 VΔ		•		Q	5	
400 VΔ / 690 V Y	460 VΔ		•		Q	7	

Changes in particular of the quoted performance curve, data and weights may occur without prior notice. The data given does not constitute an obligation from our side to deliver as shown.