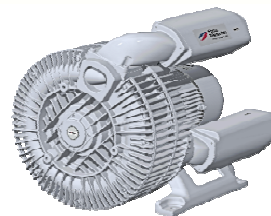


**Elmo
Rietschle**

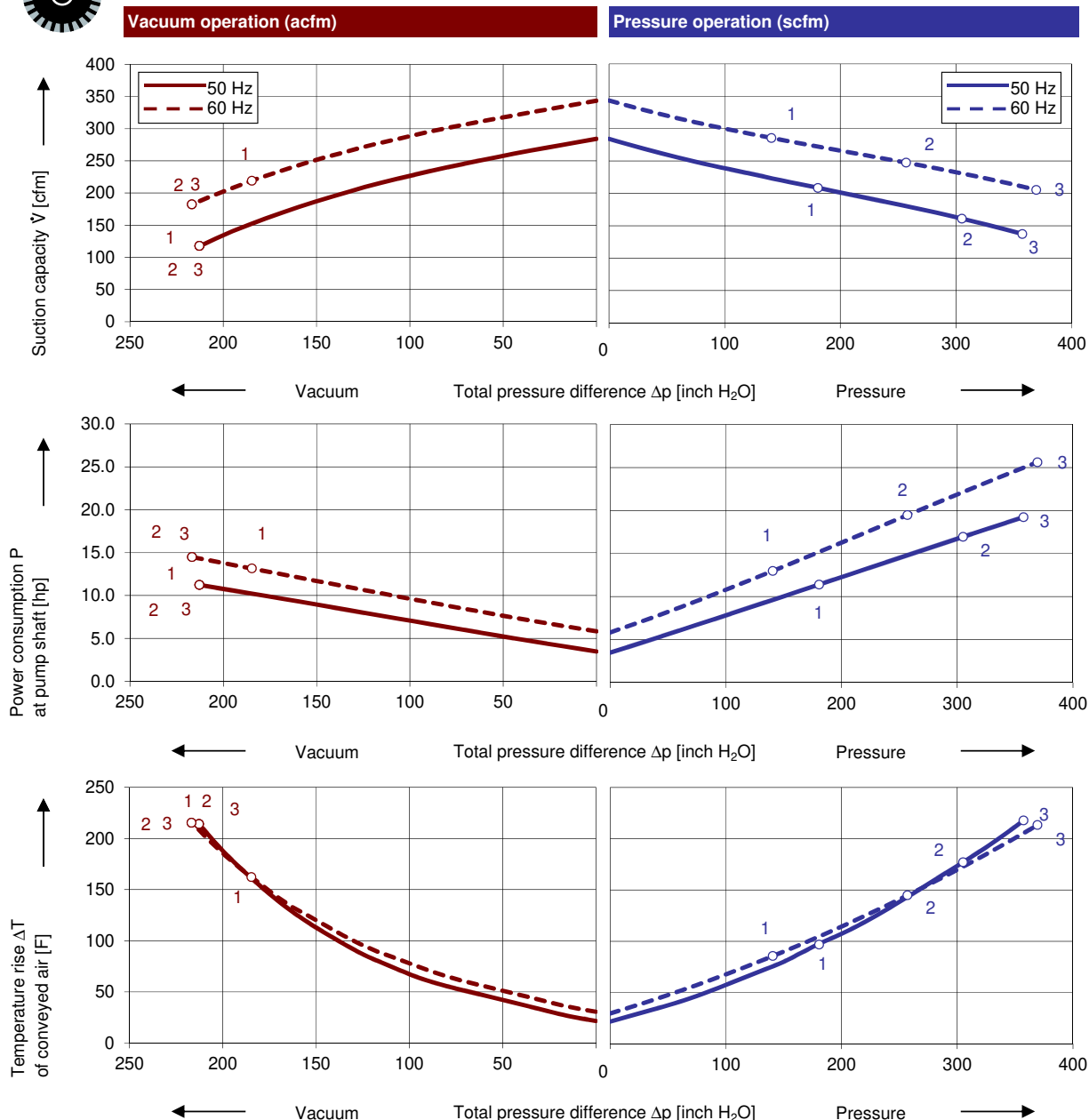
G-BH 2 N

Data sheet 2BH2 0540-2

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.	Fre- quency	Rated			Max. differential pressure ²⁾		press ure level ³⁾	Efficiency ⁴⁾	Weight	Order No.
		Voltage ¹⁾	Current	Power	Vacuum	Pressure				
	Hz	V	A	hp	inch H2O	inch H2O	dB(A)	Approx lbs		
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	30.8 Δ	11.5	-213	181	70	IE3	291	2BH20540-2AAKN1-BA
	60	190-210 YY / 380-420 Y	35.2 YY / / 17.6 Y	13.3	-185	141	75	IE3		
	60	200 YY	35.2 YY	13.3	-185	141	75	NP		
2	50	190-210 Δ	46.4 Δ	16.9	-213	305	70	IE3	335	2BH20540-2AAKP1-BA
	60	190-210 YY / 380-420 Y	52.8 YY / / 26.4 Y	19.4	-217	257	75	IE3		
	60	200 YY	52.8 YY	19.4	-217	257	75	NP		
3	50	190-210 Δ	63.1 Δ	23.2	-213	357	70	IE3	355	2BH20540-2AAKQ1-BA
	60	190-210 YY / 380-420 Y	72.2 YY / / 36.1 Y	26.7	-217	369	75	IE3		
	60	200 YY	72.2 YY	26.7	-217	369	75	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	26.8 Δ / / 15.5 Y	11.5	-213	181	70	IE3	291	2BH20540-2AAKN6-BA
	60	220-240 YY / 440-480 Y	30.6 YY / / 15.3 Y	13.3	-185	141	75	IE3		
	60	230 YY / 460 Y	30.6 YY / / 15.3 Y	13.3	-185	141	75	NP		
2	50	220-240 Δ / 380-420 Y	40.3 Δ / / 23.3 Y	16.9	-213	305	70	IE3	335	2BH20540-2AAKP6-BA
	60	220-240 YY / 440-480 Y	46.0 YY / / 23.0 Y	19.4	-217	257	75	IE3		
	60	230 YY / 460 Y	46.0 YY / / 23.0 Y	19.4	-217	257	75	NP		
3	50	220-240 Δ / 380-420 Y	54.9 Δ / / 31.7 Y	23.2	-213	357	70	IE3	355	2BH20540-2AAKQ6-BA
	60	220-240 YY / 440-480 Y	62.8 YY / / 31.4 Y	26.7	-217	369	75	IE3		
	60	230 YY / 460 Y	62.8 YY / / 31.4 Y	26.7	-217	369	75	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	12.4 Y	11.5	-213	181	70	IE3	291	2BH20540-2AAQN3-BA
	60	550-600 Y	12.2 Y	13.3	-185	141	75	NP		
	60	475-525 Y	18.6 Y	16.9	-213	305	70	IE3		
2	60	550-600 Y	18.4 Y	19.4	-217	257	75	NP	335	2BH20540-2AAQP3-BA
	60	475-525 Y	25.4 Y	23.2	-213	357	70	IE3		
3	60	550-600 Y	25.1 Y	26.7	-217	369	75	NP	355	2BH20540-2AAQQ3-BA
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	15.5 Δ / / 8.9 Y	11.5	-213	181	70	IE3	291	2BH20540-2AAQN7-BA
	60	440-480 Δ	15.3 Δ	13.3	-185	141	75	IE3		
	60	460 Δ	15.3 Δ	13.3	-185	141	75	NP		
2	50	380-420 Δ / 660-725 Y	23.3 Δ / / 13.4 Y	16.9	-213	305	70	IE3	335	2BH20540-2AAQP7-BA
	60	440-480 Δ	23.0 Δ	19.4	-217	257	75	IE3		
	60	460 Δ	23.0 Δ	19.4	-217	257	75	NP		
3	50	380-420 Δ / 660-725 Y	31.7 Δ / / 18.3 Y	23.2	-213	357	70	IE3	355	2BH20540-2AAQQ7-BA
	60	440-480 Δ	31.4 Δ	26.7	-217	369	75	IE3		
	60	460 Δ	31.4 Δ	26.7	-217	369	75	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)	C _{UL} US			
50 Hz	60Hz			60 Hz	2BH2....-...	
3~						
200 VΔ	200 V YY / 230 VΔ / 400 VY	NEMA Premium	•		K	1
190-210 VΔ	190-210 VYY / 220-240 VΔ / 380-420VY	IE3				
200 V YY / 230 VΔ / 400 VY	230 V YY / 460 VY	NEMA Premium	•		K	6
190-210 VYY / 220-240 VΔ / 380-420VY	220-240 VYY / 440-480VY	IE3				
475-525 V Y	550-600 V Y	NEMA Premium	•		Q	3
475-525 VΔ	550-600 VΔ	NEMA Premium	•		Q	5
400 VΔ / 690 V Y	460 VΔ	NEMA Premium	•		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.