

G-BH 2 N

Data sheet 2BH2 360-1

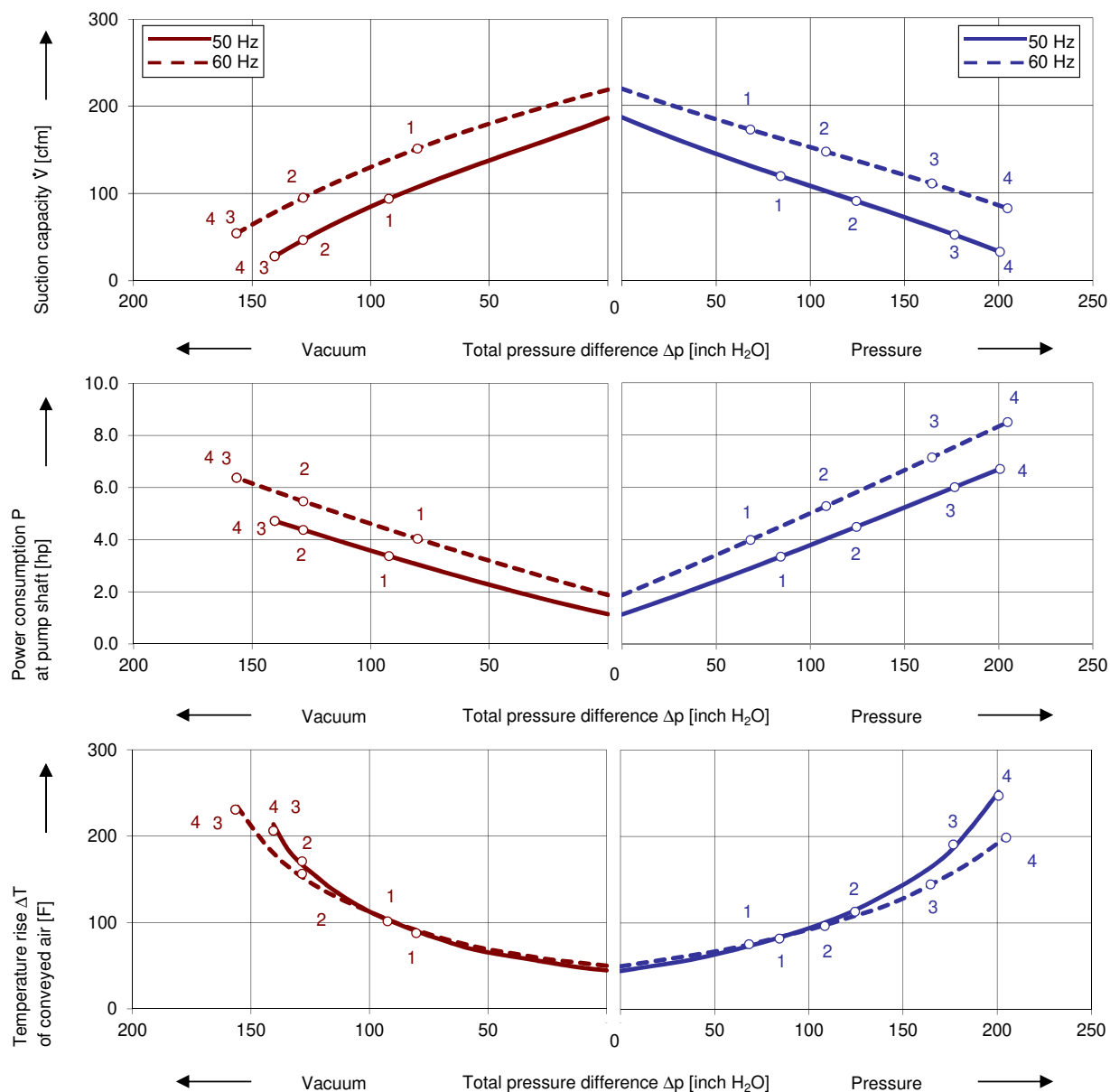
Side channel blower with NEMA Premium motor



Performance curves

Vacuum operation (acfm)

Pressure operation (scfm)



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⁾		Sound pr. level ³⁾	Efficiency ⁴⁾	Weight Approx lbs	Order No.
		Voltage ¹⁾	Current	Power	Vacuum	Pressure				
	Hz	V	A	hp	inch H2O		dB(A)			
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	9.9 Δ	3.4	-92	84	64	IE3	123	2BH20360-1AAKJ1-BA
	60	190-210 YY / 380-420 Y	12.0 YY / 6.0 Y	4.0	-80	68	67	IE3		
	60	200 YY	12.0 YY	4.0	-80	68	67	NP		
2	50	190-210 Δ	13.3 Δ	4.6	-128	124	70	IE3	134	2BH20360-1AAKK1-BA
	60	190-210 YY / 380-420 Y	15.2 YY / 7.6 Y	5.4	-128	108	72	IE3		
	60	200 YY	15.2 YY	5.4	-128	108	72	NP		
3	50	190-210 Δ	17.1 Δ	6.2	-141	177	65	IE3	150	2BH20360-1AAKL1-BA
	60	190-210 YY / 380-420 Y	19.6 YY / 9.8 Y	7.1	-157	165	70	IE3		
	60	200 YY	19.6 YY	7.1	-157	165	70	NP		
6	50	190-210 Δ	23.5 Δ	8.4	-141	201	71	IE3	166	2BH20360-1AAKM1-BA
	60	190-210 YY / 380-420 Y	27.6 YY / 13.8 Y	9.8	-157	205	75	IE3		
	60	200 YY	27.6 YY	9.8	-157	205	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	8.6 Δ / 5.0 Y	3.4	-92	84	64	IE3	123	2BH20360-1AAKJ6-BA
	60	220-240 YY / 440-480 Y	10.4 YY / 5.2 Y	4.0	-80	68	67	IE3		
	60	230 YY / 460 Y	10.4 YY / 5.2 Y	4.0	-80	68	67	NP		
2	50	220-240 Δ / 380-420 Y	11.6 Δ / 6.7 Y	4.6	-128	124	70	IE3	134	2BH20360-1AAKK6-BA
	60	220-240 YY / 440-480 Y	13.2 YY / 6.6 Y	5.4	-128	108	72	IE3		
	60	230 YY / 460 Y	13.2 YY / 6.6 Y	5.4	-128	108	72	NP		
3	50	220-240 Δ / 380-420 Y	14.9 Δ / 8.6 Y	6.2	-141	177	65	IE3	150	2BH20360-1AAKL6-BA
	60	220-240 YY / 440-480 Y	17.0 YY / 8.5 Y	7.1	-157	165	70	IE3		
	60	230 YY / 460 Y	17.0 YY / 8.5 Y	7.1	-157	165	70	NP		
4	50	220-240 Δ / 380-420 Y	20.4 Δ / 11.8 Y	8.4	-141	201	71	IE3	166	2BH20360-1AAKM6-BA
	60	220-240 YY / 440-480 Y	24.0 YY / 12.0 Y	9.8	-157	205	75	IE3		
	60	230 YY / 460 Y	24.0 YY / 12.0 Y	9.8	-157	205	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	4.0 Y	3.4	-92	84	64	IE3	123	2BH20360-1AAQJ3-BA
	60	550-600 Y	4.1 Y	4.0	-80	68	67	NP		
	60	475-525 Y	5.4 Y	4.6	-128	124	70	IE3		
2	50	475-525 Y	5.4 Y	4.6	-128	124	70	IE3	134	2BH20360-1AAQK3-BA
	60	550-600 Y	5.3 Y	5.4	-128	108	72	NP		
	60	475-525 Y	6.9 Y	6.2	-141	177	65	IE3		
3	50	475-525 Y	6.8 Y	7.1	-157	165	70	NP	150	2BH20360-1AAQL3-BA
	60	550-600 Y	9.5 Y	8.4	-141	201	71	IE3		
	60	475-525 Y	9.6 Y	9.8	-157	205	75	NP		
4	50	550-600 Y	9.6 Y	9.8	-157	205	75	NP	166	2BH20360-1AAQM3-BA
	60	550-600 Y	9.6 Y	9.8	-157	205	75	NP		
	60	550-600 Y	9.6 Y	9.8	-157	205	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						64		123	2BH20360-1AAQJ7-BA
	60						67			
	60						67			
2	50	380-420 Δ / 660-725 Y	6.7 Δ / 3.9 Y	4.6	-128	124	70	IE3	134	2BH20360-1AAQK7-BA
	60	440-480 Δ	6.6 Δ	5.4	-128	108	72	IE3		
	60	460 Δ	6.6 Δ	5.4	-128	108	72	NP		
3	50	380-420 Δ / 660-725 Y	8.6 Δ / 5.0 Y	6.2	-141	177	65	IE3	150	2BH20360-1AAQL7-BA
	60	440-480 Δ	8.5 Δ	7.1	-157	165	70	IE3		
	60	460 Δ	8.5 Δ	7.1	-157	165	70	NP		
4	50	380-420 Δ / 660-725 Y	11.8 Δ / 6.8 Y	8.4	-141	201	71	IE3	166	2BH20360-1AAQM7-BA
	60	440-480 Δ	12.0 Δ	9.8	-157	205	75	IE3		
	60	460 Δ	12.0 Δ	9.8	-157	205	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)	CULUS				
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	•		K	1	
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	•		K	6	
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 :