

G-BH 2 N

Data sheet 2BH2 0780-1

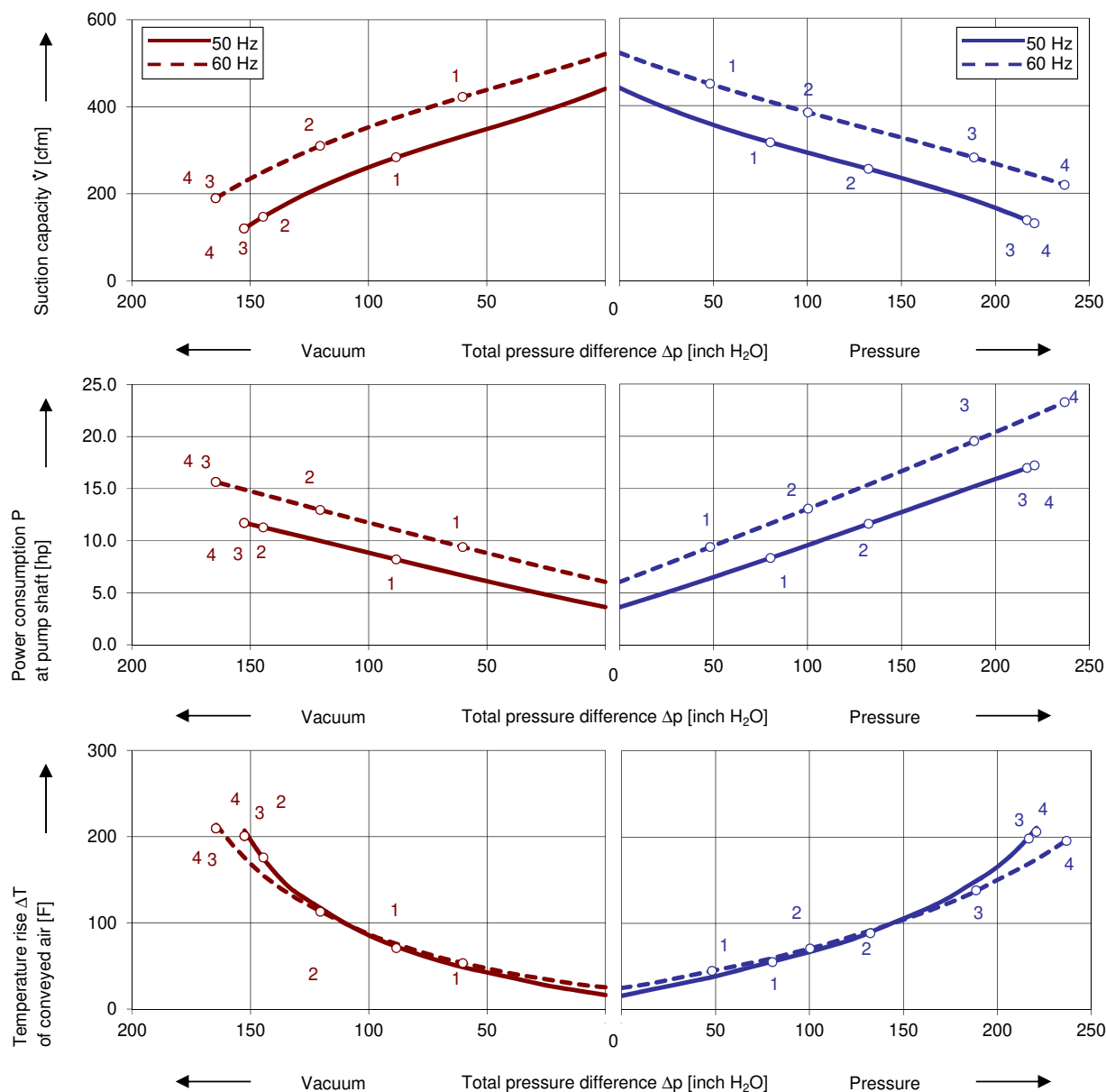
Side channel blower with NEMA Premium motor



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 press. level ³⁾	Efficiency class ⁴⁾	Weight approx. lbs	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	23.5 Δ	8.4	-88	80	70	IE3	265	2BH20780-1AAKM1-BA
	60	190-210 YY / 380-420 Y	27.6 YY / 13.8	9.8	-60	48	75	IE3		
	60	200 YY	27.6 YY	9.8	-60	48	75	NP		
2	50	190-210 Δ	30.8 Δ	11.5	-145	132	70	IE3	291	2BH20780-1AAKN1-BA
	60	190-210 YY / 380-420 Y	35.2 YY / 17.6	13.3	-120	100	75	IE3		
	60	200 YY	35.2 YY	13.3	-120	100	75	NP		
4	50	190-210 Δ	63.1 Δ	23.2	-153	221	71	IE3	291	2BH20780-1AAKQ1-BA
	60	190-210 YY / 380-420 Y	72.2 YY / 36.1	26.7	-165	237	76	IE3		
	60	200 YY	72.2 YY	26.7	-165	237	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)										
2	50	220-240 Δ / 380-420 Y	26.8 Δ / / 15.5 Y	11.5	-145	132	70	IE3	291	2BH20780-1AAKN6-BA
	60	220-240 YY / 440-480 Y	30.6 YY / / 15.3 Y	13.3	-120	100	75	IE3		
	60	230 YY / 460 Y	30.6 YY / / 15.3 Y	13.3	-120	100	75	NP		
3	50	220-240 Δ / 380-420 Y	40.3 Δ / / 23.3 Y	16.9	-153	217	71	IE3	331	2BH20780-1AAKP6-BA
	60	220-240 YY / 440-480 Y	46.0 YY / / 23.0 Y	19.4	-165	189	76	IE3		
	60	230 YY / 460 Y	46.0 YY / / 23.0 Y	19.4	-165	189	76	NP		
4	50	220-240 Δ / 380-420 Y	54.9 Δ / / 31.7 Y	23.2	-153	221	71	IE3	291	2BH20780-1AAKQ6-BA
	60	220-240 YY / 440-480 Y	62.8 YY / / 31.4 Y	26.7	-165	237	76	IE3		
	60	230 YY / 460 Y	62.8 YY / / 31.4 Y	26.7	-165	237	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)										
2	50	475-525 Y	12.4 Y	11.5	-145	132	70	IE3	291	2BH20780-1AAQN3-BA
	60	550-600 Y	12.2 Y	13.3	-120	100	75	NP		
	50	475-525 Y	18.6 Y	16.9	-153	217	71	IE3		
3	60	550-600 Y	18.4 Y	19.4	-165	189	76	NP	331	2BH20780-1AAQP3-BA
	50	475-525 Y	25.4 Y	23.2	-153	221	71	IE3		
4	60	550-600 Y	25.1 Y	26.7	-165	237	76	NP	351	2BH20780-1AAQQ3-BA
	60	550-600 Y	25.1 Y	26.7	-165	237	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)										
2	50	380-420 Δ / 660-725 Y	15.5 Δ / / 8.9 Y	11.5	-145	132	70	IE3	291	2BH20780-1AAQN7-BA
	60	440-480 Δ	15.3 Δ	13.3	-120	100	75	IE3		
	60	460 Δ	15.3 Δ	13.3	-120	100	75	NP		
3	50	380-420 Δ / 660-725 Y	23.3 Δ / / 13.4 Y	16.9	-153	217	71	IE3	331	2BH20780-1AAQP7-BA
	60	440-480 Δ	23.0 Δ	19.4	-165	189	76	IE3		
	60	460 Δ	23.0 Δ	19.4	-165	189	76	NP		
4	50	380-420 Δ / 660-725 Y	31.7 Δ / / 18.3 Y	23.2	-153	221	71	IE3	351	2BH20780-1AAQQ7-BA
	60	440-480 Δ	31.4 Δ	26.7	-165	237	76	IE3		
	60	460 Δ	31.4 Δ	26.7	-165	237	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)	CULUS			
50 Hz	60Hz			60 Hz	2BH2....-...	□
3~						
200 V Δ	200 V YY / 230 V Δ / 400 VY	NEMA Premium	•		K	1
190-210 V Δ	190-210 VYY / 220-240 V Δ / 380-420VY	IE3				
200 V YY / 230 V Δ / 400 VY	230 V YY / 460 VY	NEMA Premium	•		K	6
190-210 VYY / 220-240 V Δ / 380-420VY	220-240 VYY / 440-480VY	IE3				
475-525 V Y	550-600 V Y	NEMA Premium	•		Q	3
475-525 V Δ	550-600 V Δ	NEMA Premium				
400 V Δ / 690 V Y	460 V Δ	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 shc



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