



**Elmo
Rietschle**

G-BH 2 N

Data sheet 2BH2 0540-1

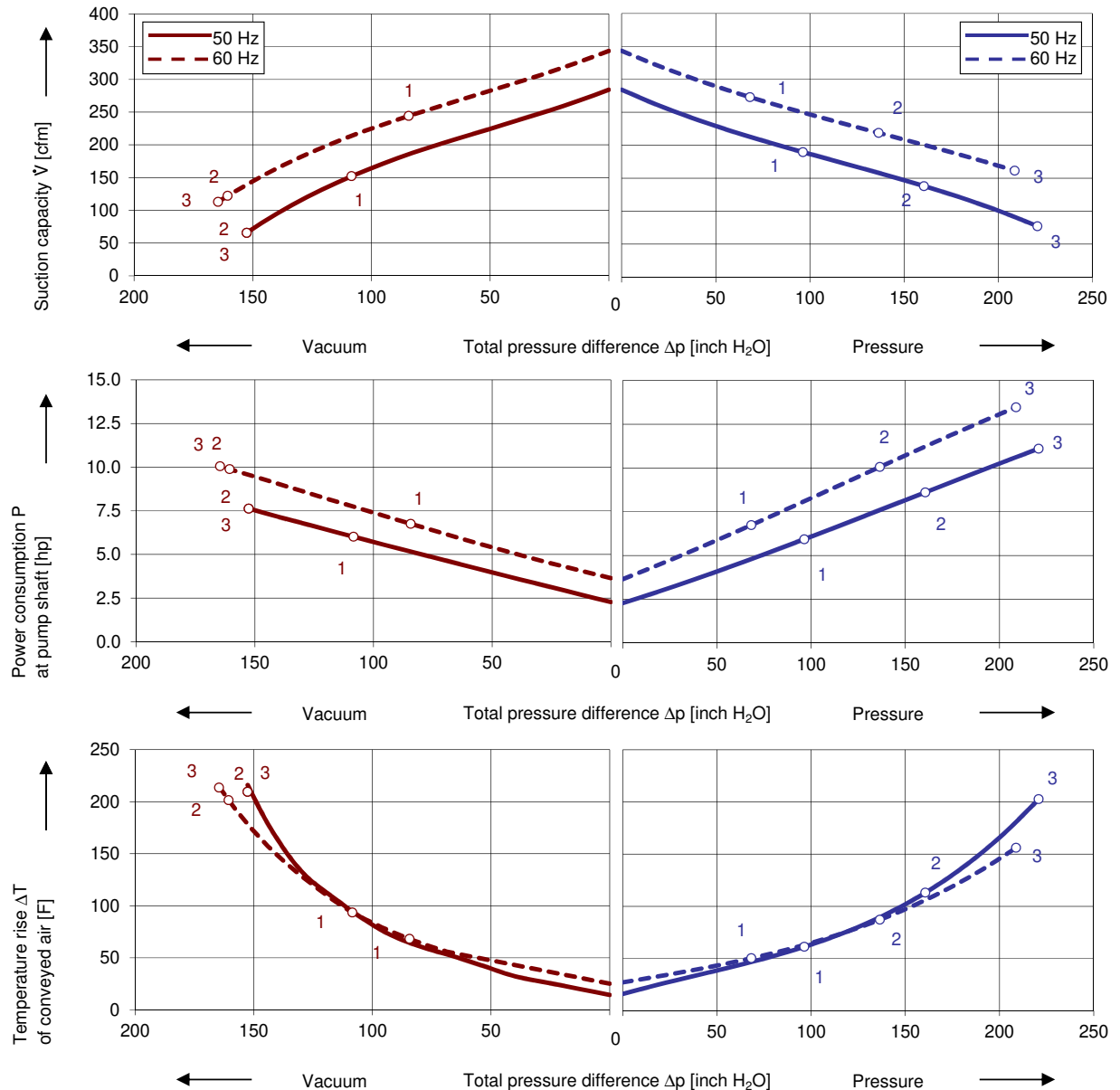
Side channel blower with NEMA Premium motor



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⁾		press ure 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	-108	96	67	IE3	183	2BH20540-1AAKL1-BA
	60	190-210 YY / 380-420 Y	19.6 YY / / 9.8 Y	7.1	-84	68	71	IE3		
	60	200 YY	19.6 YY	7.1	-84	68	71	NP		
2	50	190-210 Δ	23.5 Δ	8.4	-153	161	70	IE3	201	2BH20540-1AAKM1-BA
	60	190-210 YY / 380-420 Y	27.6 YY / / 13.8 Y	9.8	-161	136	75	IE3		
	60	200 YY	27.6 YY	9.8	-161	136	75	NP		
3	50	190-210 Δ	30.8 Δ	11.5	-153	221	70	IE3	227	2BH20540-1AAKN1-BA
	60	190-210 YY / 380-420 Y	35.2 YY / / 17.6 Y	13.3	-165	209	75	IE3		
	60	200 YY	35.2 YY	13.3	-165	209	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	14.9 Δ / / 8.6 Y	6.2	-108	96	67	IE3	183	2BH20540-1AAKL6-BA
	60	220-240 YY / 440-480 Y	17.0 YY / / 8.5 Y	7.1	-84	68	71	IE3		
	60	230 YY / 460 Y	17.0 YY / / 8.5 Y	7.1	-84	68	71	NP		
2	50	220-240 Δ / 380-420 Y	20.4 Δ / / 11.8 Y	8.4	-153	161	70	IE3	201	2BH20540-1AAKM6-BA
	60	220-240 YY / 440-480 Y	24.0 YY / / 12.0 Y	9.8	-161	136	75	IE3		
	60	230 YY / 460 Y	24.0 YY / / 12.0 Y	9.8	-161	136	75	NP		
3	50	220-240 Δ / 380-420 Y	26.8 Δ / / 15.5 Y	11.5	-153	221	70	IE3	227	2BH20540-1AAKN6-BA
	60	220-240 YY / 440-480 Y	30.6 YY / / 15.3 Y	13.3	-165	209	75	IE3		
	60	230 YY / 460 Y	30.6 YY / / 15.3 Y	13.3	-165	209	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	6.9 Y	6.2	-108	96	67	IE3	183	2BH20540-1AAQL3-BA
	60	550-600 Y	6.8 Y	7.1	-84	68	71	NP		
	60	550-600 Y	6.8 Y	7.1	-84	68	71	NP		
2	50	475-525 Y	9.5 Y	8.4	-153	161	70	IE3	201	2BH20540-1AAQM3-BA
	60	550-600 Y	9.6 Y	9.8	-161	136	75	NP		
	60	550-600 Y	9.6 Y	9.8	-161	136	75	NP		
3	50	475-525 Y	12.4 Y	11.5	-153	221	70	IE3	227	2BH20540-1AAQN3-BA
	60	550-600 Y	12.2 Y	13.3	-165	209	75	NP		
	60	550-600 Y	12.2 Y	13.3	-165	209	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	380-420 Δ / 660-725 Y	8.6 Δ / / 5.0 Y	6.2	-108	96	67	IE3	183	2BH20540-1AAQL7-BA
	60	440-480 Δ	8.5 Δ	7.1	-84	68	71	IE3		
	60	460 Δ	8.5 Δ	7.1	-84	68	71	NP		
2	50	380-420 Δ / 660-725 Y	11.8 Δ / / 6.8 Y	8.4	-153	161	70	IE3	201	2BH20540-1AAQM7-BA
	60	440-480 Δ	12.0 Δ	9.8	-161	136	75	IE3		
	60	460 Δ	12.0 Δ	9.8	-161	136	75	NP		
3	50	380-420 Δ / 660-725 Y	15.5 Δ / / 8.9 Y	11.5	-153	221	70	IE3	227	2BH20540-1AAQN7-BA
	60	440-480 Δ	15.3 Δ	13.3	-165	209	75	IE3		
	60	460 Δ	15.3 Δ	13.3	-165	209	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 _{us}				
50 Hz			60Hz					60 Hz	2BH2....-		
3~											
200 V Δ			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					
400 VΔ / 690 V Y			460 VΔ			NEMA Premium	•			Q	7
						NEMA Premium					

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 show



Your Ultimate Source for Vacuum and Pressure

Gardner Denver Deutschland GmbH

Industriestraße 26

97616 Bad Neustadt - Germany

Tel.: +49 9771 6888-0

Fax: +49 9771 6888-4000

www.elmorietschle.com

Gardner Denver, Inc.

1800 Gardner Expressway

Quincy, IL 62305

Tel: 866-249-2275

Fax: 217-221-8780

www.elmorietschle.com