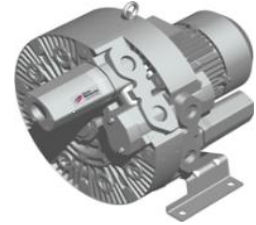




Elmo Rietschle

G-BH 1 N Data sheet 2BH7 520

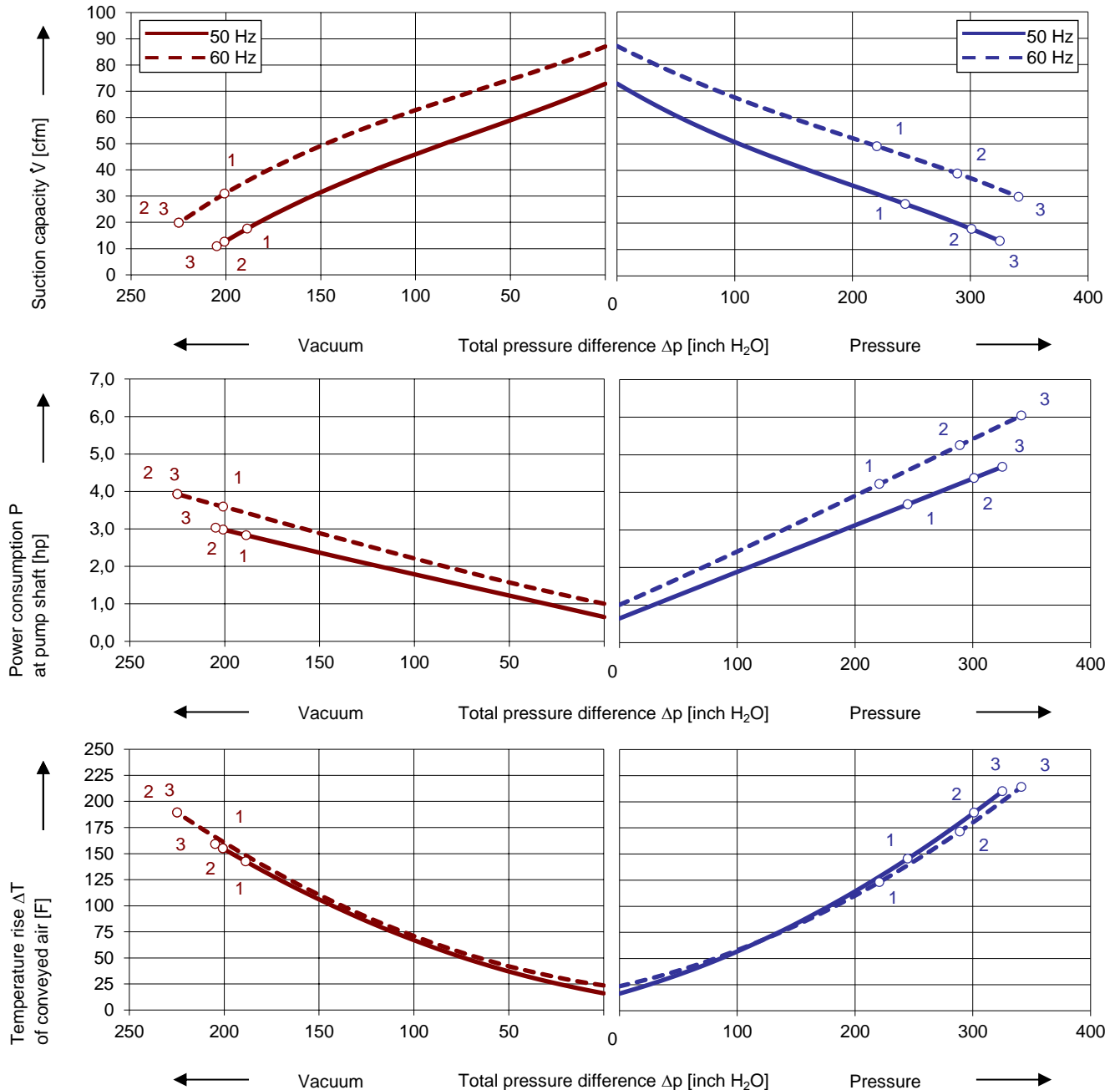
Side channel blower with NEMA Premium motor



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 Hz	Rated			Max. differential ²⁾ pressure		sound press. level ³⁾ dB(A)	Efficiency class ⁴⁾	Weight approx. lbs	Order No.
		Voltage ¹⁾	Current	Power	Vacuum	Pressure				
		V	A	hp	inch H ₂ O					
IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL (certificate number E489378)										
1	50	190-210 Δ	9,9 Δ	3,4	-197	217	65	IE3	110	2BH7520-0AK21-1
	60	190-210 YY / 380-420 Y	12,0 YY / 6,0 Y	4,0	-209	201	71	IE3		
	60	200 YY	12,0 YY	4,0	-209	201	71	NP		
2	50	190-210 Δ	13,3 Δ	4,6	-201	301	65	IE3	119	2BH7520-0AK51-1
	60	190-210 YY / 380-420 Y	15,2 YY / 7,6 Y	5,4	-225	289	71	IE3		
	60	200 YY	15,2 YY	5,4	-225	289	71	NP		
3	50	190-210 Δ	17,1 Δ	6,2	-205	329	65	IE3	134	2BH7520-0AK71-1
	60	190-210 YY / 380-420 Y	19,6 YY / 9,8 Y	7,1	-225	361	71	IE3		
	60	200 YY	19,6 YY	7,1	-225	361	71	NP		
IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL (certificate number E489378)										
1	50	220-240 Δ / 380-420 Y	8,6 Δ / 5,0 Y	3,4	-197	217	65	IE3	110	2BH7520-0AK26-1
	60	220-240 YY / 440-480 Y	10,4 YY / 5,2 Y	4,0	-209	201	71	IE3		
	60	230 YY / 460 Y	10,4 YY / 5,2 Y	4,0	-209	201	71	NP		
2	50	220-240 Δ / 380-420 Y	11,6 Δ / 6,7 Y	4,6	-201	301	65	IE3	119	2BH7520-0AK56-1
	60	220-240 YY / 440-480 Y	13,2 YY / 6,6 Y	5,4	-225	289	71	IE3		
	60	230 YY / 460 Y	13,2 YY / 6,6 Y	5,4	-225	289	71	NP		
3	50	220-240 Δ / 380-420 Y	14,9 Δ / 8,6 Y	6,2	-205	329	65	IE3	134	2BH7520-0AK76-1
	60	220-240 YY / 440-480 Y	17,0 YY / 8,5 Y	7,1	-225	361	71	IE3		
	60	230 YY / 460 Y	17,0 YY / 8,5 Y	7,1	-225	361	71	NP		
IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL (certificate number E489378)										
1	50	500 Y	4,00 Y	3,4	-197	217	65	IE3	110	2BH7520-0AQ23-1
	60	575 Y	4,1 Y	4,0	-209	201	71	NP		
2	50	500 Y	5,4 Y	4,6	-201	301	65	IE3	119	2BH7520-0AQ53-1
	60	575 Y	5,3 Y	5,4	-225	289	71	NP		
3	50	500 Y	6,9 Y	6,2	-205	329	65	IE3	134	2BH7520-0AQ73-1
	60	575 Y	6,8 Y	7,1	-225	361	71	NP		
IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL (certificate number E489378)										
1	50	380-420 Δ / 660-725 Y	5,0 Δ / 2,90 Y	3,4	-197	217	65	IE3	110	2BH7520-0AQ27-1
	60	440-480 Δ	5,2 Δ	4,0	-209	201	71	IE3		
	60	460 Δ	5,2 Δ	4,0	-209	201	71	NP		
2	50	380-420 Δ / 660-725 Y	6,7 Δ / 3,85 Y	4,6	-201	301	65	IE3	119	2BH7520-0AQ57-1
	60	440-480 Δ	6,6 Δ	5,4	-225	289	71	IE3		
	60	460 Δ	6,6 Δ	5,4	-225	289	71	NP		
3	50	380-420 Δ / 660-725 Y	8,6 Δ / 5,0 Y	6,2	-205	329	65	IE3	134	2BH7520-0AQ77-1
	60	440-480 Δ	8,5 Δ	7,1	-225	361	71	IE3		
	60	460 Δ	8,5 Δ	7,1	-225	361	71	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 _{RU}	60 Hz	
50 Hz	60Hz			2BH7....	□
3~					
200 V Δ	200 V YY / 230 V Δ / 400 VY		•	K	1
190-210 V Δ	190-210 VYY / 220-240 V Δ / 380-420VY	IE3	•	K	6
200 V YY / 230 V Δ / 400 VY	230 V YY / 460 VY		•	Q	3
190-210 VYY / 220-240 V Δ / 380-420VY	220-240 VYY / 440-480VY	IE3	•	Q	5
475-525 V Y	550-600 V Y		•	Q	7
475-525 V Δ	550-600 V Δ		•		
400 V Δ / 690 V Y	460 V Δ		•		

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.

Elmo Rietschle is a brand of Gardner Denver

**Gardner
Denver**

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