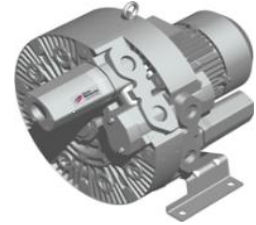




# Elmo Rietschle

## G-BH 1 N Data sheet 2BH7 320

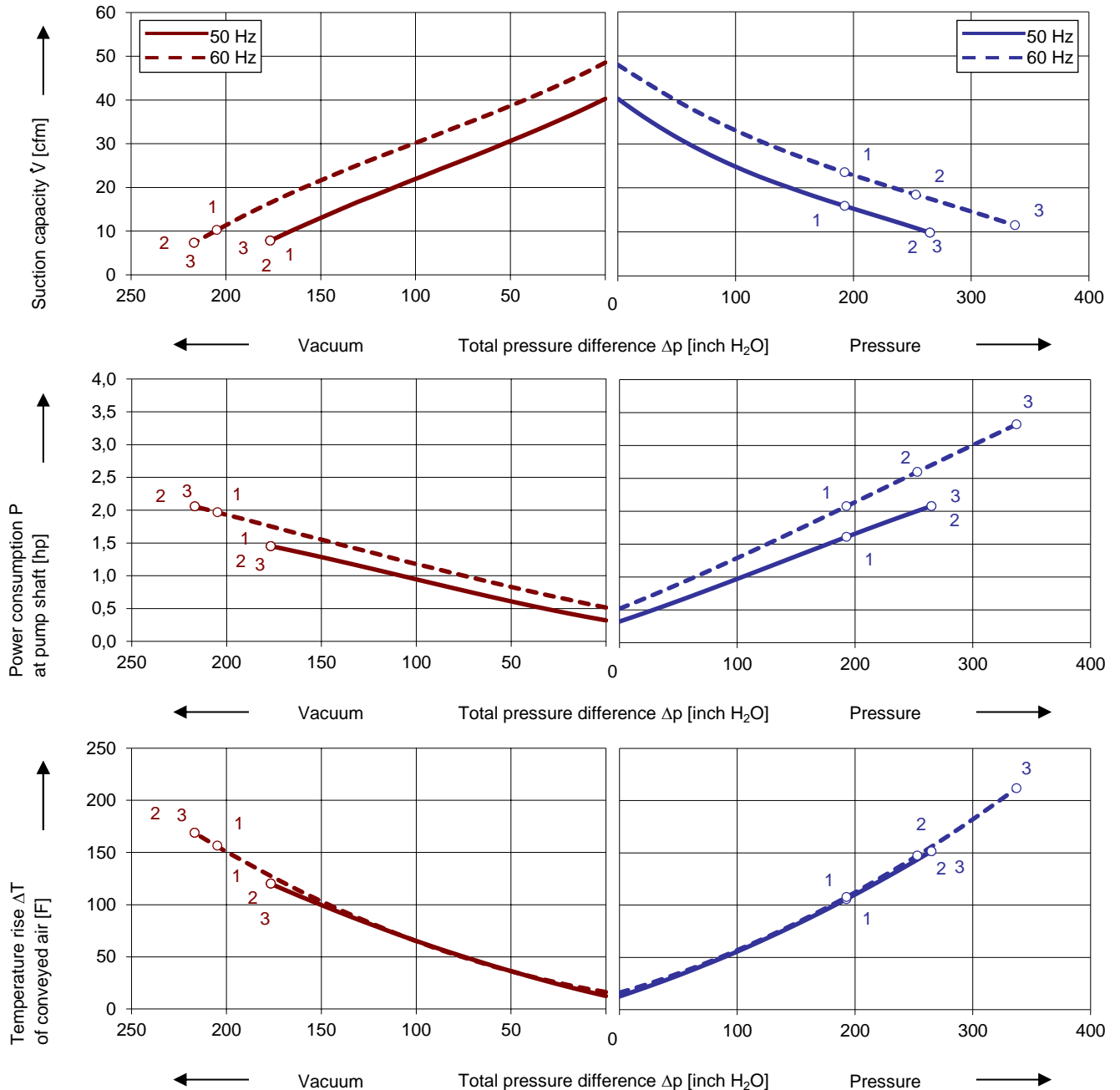
Side channel blower with NEMA Premium motor



### 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.	Frequency Hz	Rated			Max. differential <sup>2)</sup> pressure		sound press. level <sup>3)</sup> dB(A)	Efficiency class <sup>4)</sup>	Weight approx. lbs	Order No.
		Voltage <sup>1)</sup>	Current	Power	Vacuum	Pressure				
		V	A	hp	inch H <sub>2</sub> O					
<b>IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL (certificate number E489378)</b>										
1	50	190-210 Δ	5,6 Δ	1,7	-177	193	59	IE3	73	2BH7320-0AK41-1
	60	190-210 YY / 380-420 Y	6,3 YY / 3,16 Y	2,1	-205	193	63	IE3		
	60	200 YY	6,3 YY	2,1	-205	193	63	NP		
2	50	190-210 Δ	6,9 Δ	2,3	-177	265	59	IE3	79	2BH7320-0AK51-1
	60	190-210 YY / 380-420 Y	7,8 YY / 3,9 Y	2,7	-225	253	63	IE3		
	60	200 YY	7,8 YY	2,7	-225	253	63	NP		
3	50	190-210 Δ	9,9 Δ	3,4	-177	265	59	IE3	90	2BH7320-0AK61-1
	60	190-210 YY / 380-420 Y	12,0 YY / 6,0 Y	4,0	-217	337	63	IE3		
	60	200 YY	12,0 YY	4,0	-217	337	63	NP		
<b>IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL (certificate number E489378)</b>										
1	50	220-240 Δ / 380-420 Y	4,9 Δ / 2,85 Y	1,7	-177	193	59	IE3	73	2BH7320-0AK46-1
	60	220-240 YY / 440-480 Y	5,5 YY / 2,75 Y	2,1	-205	193	63	IE3		
	60	230 YY / 460 Y	5,5 YY / 2,75 Y	2,1	-205	193	63	NP		
2	50	220-240 Δ / 380-420 Y	6,0 Δ / 3,45 Y	2,3	-177	265	59	IE3	79	2BH7320-0AK56-1
	60	220-240 YY / 440-480 Y	6,8 YY / 3,4 Y	2,7	-225	253	63	IE3		
	60	230 YY / 460 Y	6,8 YY / 3,4 Y	2,7	-225	253	63	NP		
3	50	220-240 Δ / 380-420 Y	8,6 Δ / 5,0 Y	3,4	-177	265	59	IE3	90	2BH7320-0AK66-1
	60	220-240 YY / 440-480 Y	10,4 YY / 5,2 Y	4,0	-217	337	63	IE3		
	60	230 YY / 460 Y	10,4 YY / 5,2 Y	4,0	-217	337	63	NP		
<b>IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL (certificate number E489378)</b>										
1	50	500 Y	2,28 Y	1,7	-177	193	59	IE3	73	2BH7320-0AQ43-1
	60	575 Y	2,20 Y	2,1	-205	193	63	NP		
2	50	500 Y	2,76 Y	2,3	-177	265	59	IE3	79	2BH7320-0AQ53-1
	60	575 Y	2,72 Y	2,7	-225	253	63	NP		
3	50	500 Y	4,00 Y	3,4	-177	265	59	IE3	90	2BH7320-0AQ63-1
	60	575 Y	4,1 Y	4,0	-217	337	63	NP		
<b>IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL (certificate number E489378)</b>										
1	50	380-420 Δ / 660-725 Y	2,85 Δ / 1,65 Y	1,7	-177	193		IE3	73	2BH7320-0AQ47-1
	60	440-480 Δ	2,75 Δ	2,1	-205	193		IE3		
	60	460 Δ	2,75 Δ	2,1	-205	193		NP		
2	50	380-420 Δ / 660-725 Y	3,45 Δ / 2,00 Y	2,3	-177	265		IE3	79	2BH7320-0AQ57-1
	60	440-480 Δ	3,4 Δ	2,7	-225	253		IE3		
	60	460 Δ	3,4 Δ	2,7	-225	253		NP		
3	50	380-420 Δ / 660-725 Y	5,0 Δ / 2,90 Y	3,4	-177	265		IE3	90	2BH7320-0AQ67-1
	60	440-480 Δ	5,2 Δ	4,0	-217	337		IE3		
	60	460 Δ	5,2 Δ	4,0	-217	337		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 <sup>4)</sup>	C <sub>RU</sub>	60 Hz	
50 Hz	60Hz			2BH1...-1.	<input type="checkbox"/>
<b>3~</b>					
200 V Δ	200 V YY / 230 V Δ / 400 V Y		•		K 1
190-210 V Δ	190-210 V YY / 220-240 V Δ / 380-420 V Y	<b>IE3</b>	•		K 1
200 V YY / 230 V Δ / 400 V Y	230 V YY / 460 V Y		•		K 6
190-210 V YY / 220-240 V Δ / 380-420 V Y	220-240 V YY / 440-480 V Y	<b>IE3</b>	•		K 6
475-525 V Y	550-600 V Y		•		Q 3
475-525 V Δ	550-600 V Δ		•		Q 5
400 V Δ / 690 V Y	460 V Δ		•		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.

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