6420 Series



FEATURES

- > High efficiency
- > Smooth, continuous liquid flow with minimized pulses
- > Bubble-free transfer of media
- > Excellent reliability and durability even with corrosive and abrasive media
- > Flexible design for customized solutions

TYPICAL APPLICATIONS

- > Continuous Inkjet (CIJ)
- > Drop-on-Demand Inkjet (DOD)
- > In-Vitro Diagnostics (IVD)



6420 BLDC

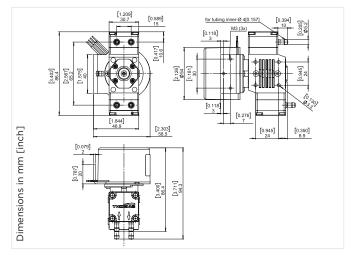




Diaphragm Liquid Pump 6420 BLDC

Flow	1800 ml/min
Pressure height	10 m H₂O
Suction height	3 m H ₂ O





HYDRAULIC DATA

•		6420 BLDC PP/EPDM/EPDM	6420 BLDC PP/PTFE/FFKM
		6420 0102	6420 0104
	24 V DC	6420 0002	6420 0004
Free flow		1800 ml/min	1700 ml/min
Max. continuous pressure height		10 m H ₂ O	10 m H₂O
Max. suction height		3 m H ₂ O	3 m H ₂ O

ELECTRICAL DATA

Motor type	Brushless DC	Brushless DC	
Nominal speed @ 10 m H ₂ O	3100 rpm	3100 rpm	
Nominal voltage	12/24 V DC	12/24 V DC	
Max. nominal power consumption $@$ 10 m H_2O	10 W	9 W	
Motor insulation class	F	F	
Protection class	IP30	IP30	
EMC protection	Yes	Yes	

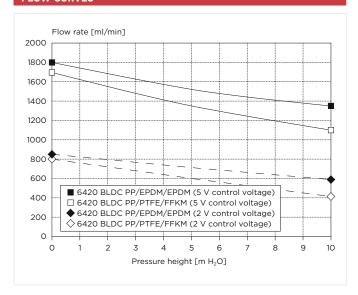
GENERAL DATA

Ambient temperature	5 to 40°C	5 to 40°C
Media temperature	5 to 80°C	5 to 80°C
Weight	390 g	390 g

WETTED PARTS

Pump head	PP with hose barbs	PP with hose barbs
Diaphragm	EPDM	PTFE
Valve plate	EPDM	FFKM
Resonating diaphragm	PTFE	PTFE

FLOW CURVES



ELECTRICAL MOTOR DATA

P	in	Function	Color	Control
	1	V Supply	Red	12 V DC (10 - 15 V DC) 24 V DC (14 - 28 V DC)
	2	Ground	Blue	Ground for V Supply (Pin 1) and speed control (Pin 3)
	3	Speed control	White	Analogue: 0 - 5 V DC (max. 30 V) PWM: 6 - 20 kHz - 4 . 94 % Speed voltage input threshold: 1.0 V
	4	Tacho out	Green	6 pulses per revolution Pulse time "HIGH": 33% duty cycle Output level "LOW": 0 / max. 0.5 V Output level "HIGH": min. 4.2 V / max. 5.5 V

OPTIONS

Pump head with compression fittings (tubing ID 4 mm / OD 6 mm)

Diaphragm FFKM

Polypropylene pump head optimized for low UV-light transmittance

6420... Stock programme

Notes



PUMP AND COMPRESSOR SOLUTIONS FOR OEMS WORLDWIDE



Gardner Denver Thomas GmbH Livry-Gargan-Str. 10

82256 Fürstenfeldbruck Germany T +49 8141 2280 0 F +49 8141 8892136

thomas.de@gardnerdenver.com

1419 Illinois Avenue Sheboygan. WI 53081 USA

T +1 920 4574891 F +1 920 4514276

td.usa@gardnerdenver.com

Gardner Denver Thomas. Inc. Gardner Denver Thomas Pneumatic Systems (Wuxi) Co., Ltd.

No. 1 New Dong An Road, Shuofang Town, Wuxi, Xinwu District Jiangsu 214142

China

T +86 510 6878 2258 F +86 510 6878 2200

thomas.cn@gardnerdenver.com

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