8311 ZVR AC Series



FEATURES

- > Outstanding air-liquid mixture handling capability
- > Oil resistance and anti-corrosion feature
- > Easy assembly for better serviceability
- > Low sound and vibration levels
- > Consistent performance
- > Higher reliability for stable daily operation

TYPICAL APPLICATIONS

> Autoclave



8311 ZVR AC







Diaphragm Pump 8311ZVR AC

Flow	40 l/min
Max. Vacuum	97 %



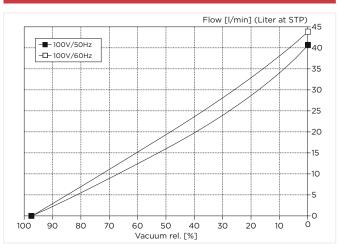
PNEUMATIC DATA

Description	8311ZVR/4.2/HHF/AC
Part number	83112202
Max. flow	40.0 l/min
Max. intermittent vacuum	97 %
Max. continuous vacuum	97 %
Max. restart vacuum	Ambient

OPERATING CONDITIONS*

Ambient temperature	5 to 40 °C
Media temperature	10 to 60 °C
Weight	5.4 kg
Port direction	AA
Configuration	Series
Pneumatic connection	G1/4

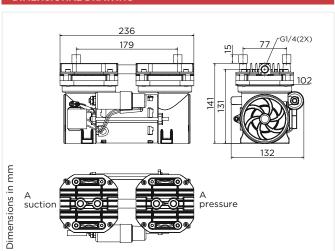
FLOW CURVES



ELECTRICAL DATA

Motor type	Capacitor	Capacitor	
Nominal voltage	100 V 50 Hz	100 V 60 Hz	
Nominal speed	1350 rpm	1650 rpm	
Current consumption	1.4 A	1.8 A	
Starting current	2.8 A	2.8 A	
Power consumption	135 W	180 W	
Protection class	IP00	IP00	
Motor insulation class	F		
Thermal switch	150 °C		

DIMENSIONAL DRAWING



The information presented in this material is based on technical data and test results of nominal units. It is believed to be accurate and reliable and is offered as an aid to help in the selection of Thomas products. It is the responsibility of the user to determine the suitability of the product for the intended use and the user assumes all risk and liability whatsoever in connection therewith. Thomas does not warrant, guarantee or assume any obligation or liability in connection with this information.

MODEL KEY

8311 - Z - V - R - 4.2 - H - H - F - AC

Pos	Options	Description
1	8311	Product Line
2	Z	Double Head
3	V	Vacuum
4	R	Series
5	4.2	Eccentric
6	Н	HNBR Diaphragm
7	Н	HNBR Valve
8	F	FKM O-Ring
9	AC	Motor Type

WETTED PARTS

Pump head	Aluminium with anodizing
Chamber	Aluminium with anodizing
Diaphragm	HNBR
Valve	HNBR
O-ring	FKM

Diaphragm Pump 8311ZVR AC

Flow	43 l/min
Max. Vacuum	97 %



Flow [I/min] (Liter at STP) . 40 ■- 230V/50Hz -**□**- 220V/60Hz -35 -30 -25 -20 -15 -10 -0 ò 90 100 80 50 40 30 20 Vacuum rel. [%]

FLOW CURVES

PNEUMATIC DATA	
5	07117) (D /4 0 /111 15 /4 0
Description	8311ZVR/4.2/HHF/AC
Part number	83112002
Max. flow	43.0 l/min
Max. intermittent vacuum	97 %
Max. continuous vacuum	97 %
Max. restart vacuum	Ambient

OPERATING CONDITIONS*	
A 1:	F. 40.00
Ambient temperature	5 to 40 °C
Media temperature	10 to 60 °C
Weight	5.4 kg
Port direction	AA
Configuration	Series
Pneumatic connection	G1/4

ELECTRICAL DATA		
Motor type	Capacitor	
Nominal voltage	230 V 50 Hz	220V 50/60 Hz
Nominal speed	1350 rpm	1650 rpm
Current consumption	0.65 A	0.8 A
Starting current	1.0 A	1.1 A
Power consumption	145 W	180 W
Protection class	IP00	
Motor insulation class	F	
Thermal switch	150 °C	

DIMENSIONAL DRAWING rG1/4(2X) 141 T Dimensions in mm pressure suction

AC Motor Type WETTED PARTS Aluminium with anodizing Pump head Chamber Aluminium with anodizing **HNBR** Diaphragm Valve **HNBR** FKM

Description

Product Line

Double Head

Vacuum

Eccentric

HNBR Valve

FKM O-Ring

HNBR Diaphragm

Series

8311 - Z - V - R - 4.2 - H - H - F - AC

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Pos Options

Z

V

R

42

Н

Н

O-ring

1 2

3

4

5

6

7

8 F

8311



PUMP AND COMPRESSOR SOLUTIONS FOR OEMS WORLDWIDE



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Models presented in this catalog are representative of the product family. Photos of products pictured in this catalog do not necessarily represent a specific model number. To obtain further information for custom options, contact your local Thomas office.

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