

▼ ZA4208MX, ZA4420MX



Z Tough
Dependable
Innovative
CLASS



ATEX 95 Certified

The Enerpac ZA4-series air pumps are tested and certified according to the **Equipment Directive 94 / 9 / EC** "ATEX Directive" for equipment and protective systems intended for use in potentially explosive atmospheres.



Page: 399



Speed Chart

To determine how a specific pump will operate your cylinder, see the Pump-Cylinder Speed Chart in the 'Yellow Pages'.

Page: 409



High-Pressure Hoses

Enerpac offers a complete line of high-quality hydraulic hoses. To ensure the integrity of your system, specify only genuine Enerpac hydraulic hoses.

Page: 136

- ATEX 95 certified for use in potentially explosive atmospheres
- Features Z-Class high-efficiency pump design, higher oil flow and by-pass pressure
- Two-speed operation reduces cycle time for improved productivity
- User adjustable relief valve built-in on manual valves. Oil ports on valves are 3/8" NPTF
- Optional heat exchanger warms exhaust air to prevent freezing and cools the oil
- Full sight oil level glass on 2.6, 5.2 and 10.3 gallons reservoirs, oil level indicators on 1.2 and 1.8 gallons reservoirs.

Used with Cylinder	Reservoir Size (gal)	Manual Valve ¹⁾ Model Number	Valve Function	Model Number	Output Flow Rate ²⁾ (in ³ /min)				Relief Valve Adjustment Range (psi)	Maximum Air Consumption ³⁾ (scfm)
					100 psi	700 psi	5,000 psi	10,000 psi		
Single-acting	1.2	—	—	ZA4004NX	850	675	110	80	—	100
	1.2	VM32	Advance / Retract	ZA4204MX	850	675	110	80	1000 - 10,000	100
	1.8	VM33	Advance / Hold / Retract	ZA4308MX	850	675	110	80	1000 - 10,000	100
	2.6	VM33L	Advance / Hold / Retract	ZA4610MX	850	675	110	80	1000 - 10,000	100
Double-acting	1.2	VM43	Advance / Hold / Retract	ZA4404MX	850	675	110	80	1000 - 10,000	100
	1.8	VM43	Advance / Hold / Retract	ZA4408MX	850	675	110	80	1000 - 10,000	100
	2.6	VM43L	Advance / Hold / Retract	ZA4810MX	850	675	110	80	1000 - 10,000	100
	5.2	VM43	Advance / Hold / Retract	ZA4420MX	850	675	110	80	1000 - 10,000	100
	10.3	VM43	Advance / Hold / Retract	ZA4440MX	850	675	110	80	1000 - 10,000	100

¹⁾ See pages 128-129 for hydraulic symbols of these valves.

²⁾ Actual oil flow will vary with air supply.

³⁾ Dynamic air pressure range: 60 - 100 psi, air consumption 20 - 100 scfm.

Modular Air Hydraulic Pumps

▼ This is how a ZA4-Series pump model number is built up:



1 Product Type

Z = Pump Class

2 Prime Mover

A = Air motor

3 Flow Group

4 = 80 in³/min @ 10,000 psi

4 Valve Type

- 0** = No valve, with cover plate
- 2** = 3/2 manual valve **VM32**
- 3** = 3/3 manual valve **VM33**
- 4** = 4/3 manual valve **VM43**
- 6** = 3/3 manual locking valve **VM33L** with pilot operated check
- 7** = 3/2 manual valve **VM22**
- 8** = 4/3 manual locking valve **VM43L** with pilot operated check.

5 Reservoir Size

- 04** = 1.2 gallons
- 08** = 1.8 gallons
- 10** = 2.6 gallons
- 20** = 5.2 gallons
- 40** = 10.3 gallons

6 Valve Operation

- M** = Manual valve
- N** = No valve

7 Motor Voltage

- X** = Not applicable

8 Options

- F** = Return Line Filter
- G** = 15,000 psi gauge
- H** = Heat exchanger (on 1.2 and 1.8 gallons reservoir only)
- K** = Skid Bar (on 1.2 and 1.8 gallons reservoir only)
- N** = No reservoir handles (includes lifting eyes on 2.6, 5.2 and 10.3 gallon)
- R** = Roll Cage

Ordering Example

Model Number: **ZA4208MX-FHK**

ZA4208MX-FHK is an air operated pump with a 3-way, 2-position manual valve, 1.8 gallons reservoir, filter, heat exchanger and skid bar.

ZA4 Series



Reservoir Capacity:

1.2 - 10.3 gallons

Flow at Rated Pressure:

80 in³/min

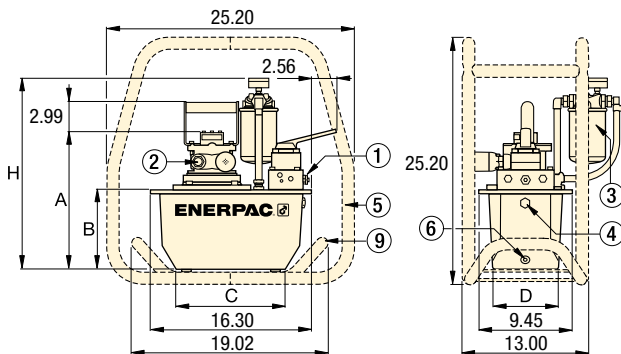
Air Consumption:

20 - 100 scfm

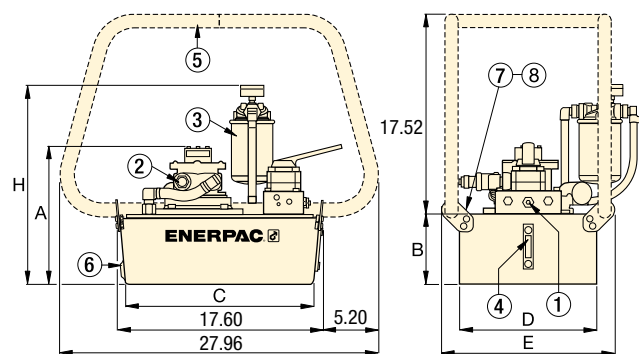
Maximum Operating Pressure:

10,000 psi

- ① User adjustable relief valve on all manual valves. 3/8" NPTF on A and B ports; 1/4" NPTF on auxiliary ports.
- ② Air inlet 1/2" NPTF
- ③ Return Line Filter (optional)
- ④ Oil Sight Gauge
- ⑤ Roll Cage (optional)
- ⑥ Oil Drain
- ⑦ Lifting eyes (optional)
- ⑧ Handles
- ⑨ Skid Bar (Model Number SBZ4) (optional)



ZA4-Series Pumps with 1.2 - 1.8 gallons reservoir



ZA4-Series Pumps with 2.6, 5.2 and 10.3 gallons reservoir

Sound Level	Motor Size	Dimensions (in)							Model Number
		A	B	C	D	E	H	(lbs)	
80 - 95	4.0	11.6	5.6	11.0	6.0	-	16.9	60	ZA4004NX
80 - 95	4.0	11.6	5.6	11.0	6.0	-	16.9	66	ZA4204MX
80 - 95	4.0	14.0	8.0	11.0	8.1	-	19.3	75	ZA4308MX
80 - 95	4.0	13.0	7.1	16.3	16.6	19.7	18.4	112	ZA4610MX
80 - 95	4.0	11.6	5.6	11.0	6.0	-	16.9	69	ZA4404MX
80 - 95	4.0	14.0	8.0	11.0	8.1	-	19.3	77	ZA4408MX
80 - 95	4.0	12.0	6.1	16.5	12.0	15.1	17.4	88	ZA4810MX
80 - 95	4.0	13.0	7.1	16.3	16.6	19.7	18.4	115	ZA4420MX
80 - 95	4.0	16.5	10.6	15.7	19.9	23.0	21.9	165	ZA4440MX

OIL FLOW VERSUS PRESSURE

at 100 psi air and 70 scfm air consumption

