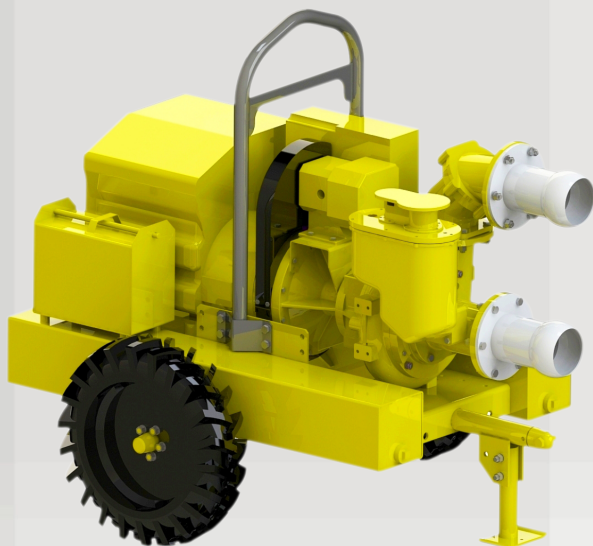


# ECOMATIC ZD 6-250 G10 FVM06 V04

Diesel - Qmax 470 m<sup>3</sup>/h (2,070 USGPM) - Hmax 30,5 m (100 ft)



## Product data

<b>Suction port</b>	Spherical coupling 6"
<b>Delivery port</b>	Spherical coupling 6"
<b>Qmax</b>	470 m <sup>3</sup> /h (2,070 USGPM)
<b>Hmax</b>	30,5 m (100 ft)
<b>Solids handling</b>	76 mm (3")
<b>Engine</b>	VM 2105E2
<b>Engine power</b>	19,8 kW - 26,6 HP
<b>Vacuum pump</b>	V04 rotary vane

Indicative picture of the product

## Ecomatic Z

### Vacuum prime centrifugal pumps (vacuum pump with oil recirculation system)

The system consists of a Z centrifugal pump with semi-open impeller and a Simplex separator where air can separate from the liquid and be sucked by a vacuum pump which makes possible the **automatic priming**: even with suction heights of several meters the machine rapidly evacuates the air from the suction pipe and starts to pump. The Ecomatic Z is capable of drawing significant quantities of air and maintaining a wellpoint system under vacuum, or draining an excavation thanks to the **semi-open impeller** which makes the Z also suitable for pumping liquids with **solids in suspension**.

## Applications

Varisco S.p.A. has a long-standing experience in designing and producing pumps and now has a wide range of vacuum prime pumps. The new Ecomatic Z has features that not only meet the needs of the market but make it an extremely versatile product suitable for the professionals of **Constructions, Industry and Emergency duty**.

**Drainage of excavations, canals and ponds**  
**Ground water dewatering with wellpoint systems**  
**Sewage by-pass**  
**Naval platforms ballasting**  
**Drainage after flooding or terrenal rains**

## Benefits

### Pump

high efficiency: 77%

### Rapid "dry" priming

up to a height of 8.5 m (27.5 ft)

### High resistance

to abrasive liquids and turbid sandy waters

### Semi-open impeller

solids handling up to 76 mm (3")

### Wear plates

in cast iron lined with abrasion resistant rubber, easily replaceable, front and rear to the impeller

### Easy maintenance

removable front cover for direct access to the impeller and eventual unclogging

### Rotary vane vacuum pump

lubricated with oil recovery system and coalescing filters: no contamination of the environment

### New Simplex separator

Fully mechanical patented system with automatic condensate recovery

### Connections

Suction at only 0,9 m (3.0 ft) from ground level

# ECOMATIC ZD 6-250 G10 FVM06 V04



## Performance curves

Speed [rpm] 1800									
Q [m³/h]									
	80	100	150	200	250	300	350	400	470
h suc. [m]	H delivery[m]								
0	26,0	25,3	22,9	21,8	19,7	17,5	14,4	12,0	8,8
1.5	24,0	23,5	20,5	19,5	17,0	14,0	10,5	-	-
3	22,5	22,0	19,0	17,5	15,0	12,5	-	-	-
4.5	21,0	20,5	17,5	16,0	13,5	-	-	-	-
6	19,5	19,0	16,0	14,5	-	-	-	-	-
7.5	18,0	17,0	-	-	-	-	-	-	-

Test according to UNI EN ISO 9906 standard - level 2

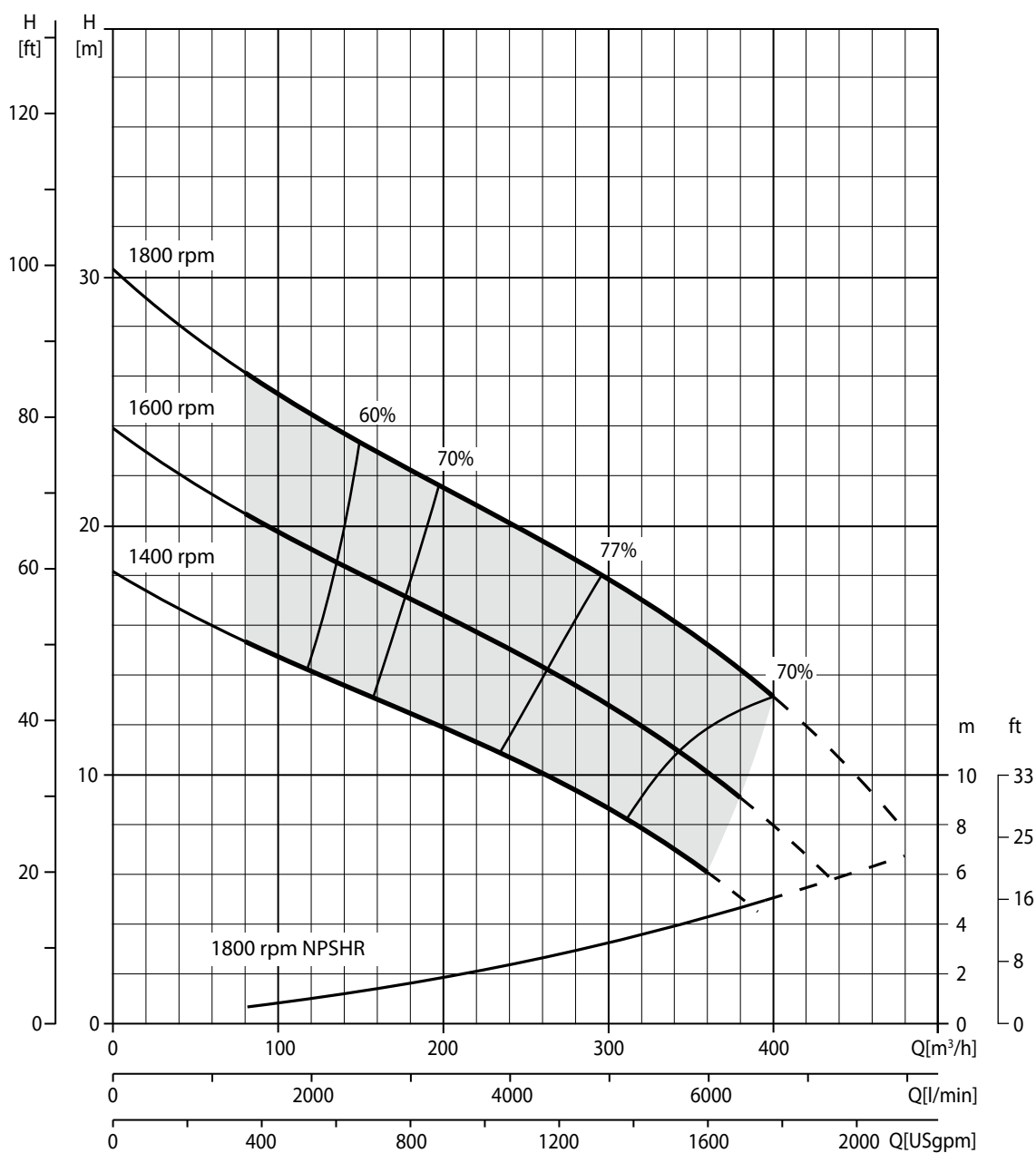
Test liquid: clean water, density 1,000 kg/m³

Spherical solids handling: D.76 mm (3")

Priming time: -

Max absorbed power: 19,5 kW - 26.1 HP (1.800 rpm)

 Recommended operating range



# ECOMATIC ZD 6-250 G10 FVM06 V04



## Technical data

### Pump

Pump model	Z 6-250 G10
Qmax	470 m³/h - 7.830 l/min (2,100 USGPM)
Hmax	30,5 m (100 ft)
Suction port	flanged - DN 150 D.I. 1882 (6")
Delivery port	flanged - DN 150 D.I. 1882 (6")
Impeller type	semi-open, 2 vane
Solids handling	76 mm (3.0 ")
Casing	EN-GJL-200 cast iron
Impeller	EN-GJS-400 cast iron
Wear plates	EN-GJL-200 rubber lined cast iron
Non-return valve	check-valve, NBR
Shaft	39NiCrMo3 steel
Mechanical seal	Tungsten carbide
Elastomers	VITON
Lubrication	oil



### Priming system

Vacuum pump	V04
Vacuum pump type	rotary vane
Nominal air capacity	75 m³/h (44.1 cfm)
Max vacuum	0,9 bar
Separator type	Simplex
Separator material	EN-GJL-200 cast iron
Drives	



### Engine

Make	VM
Model	2105E2
Type	diesel direct injection, aspirated
Displacement	1.992 cm³ (122 in³)
No. cylinders	2
Cooling	air
Power max	19,8 kW - 26.6 HP (Continuous power - ISO 3046 ICXN)
Speed	variable
Standard speed	1.800 rpm (engine calibration)
Maximum consumption	6,1 l/h (1.6 USG/h)
EU emissions	N/Em
Starting	electric
Oil change interval	300 h

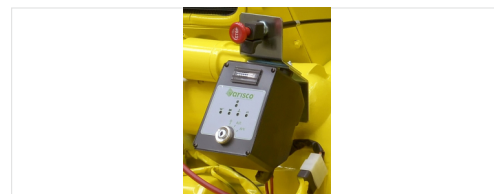


### Consumption

Speed [rpm]	1200	1400	1500	1600	1800
Consumption[l/h]	3,3	4,3	4,8	5,2	6,1
Power[kW]	12,2	15,3	16,7	17,8	19,8
Power[HP]	16.4	20.5	22.4	23.9	26.6

### Control panel

Manual operation
Hour meter
Engine failure alarms with LED lights in case of:
low oil pressure
engine overheating
lack of battery charging
Throttle rod



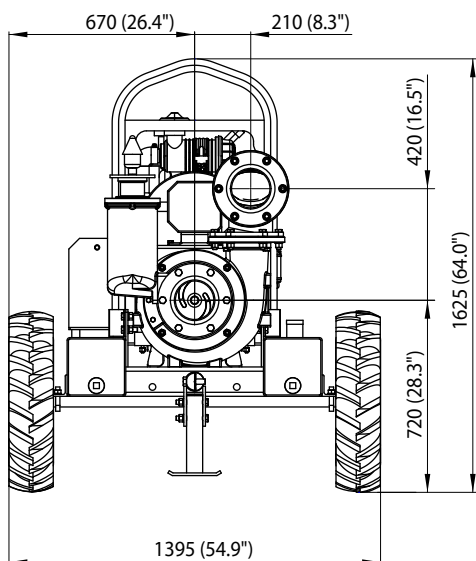
# ECOMATIC ZD 6-250 G10 FVM06 V04



## Arrangement

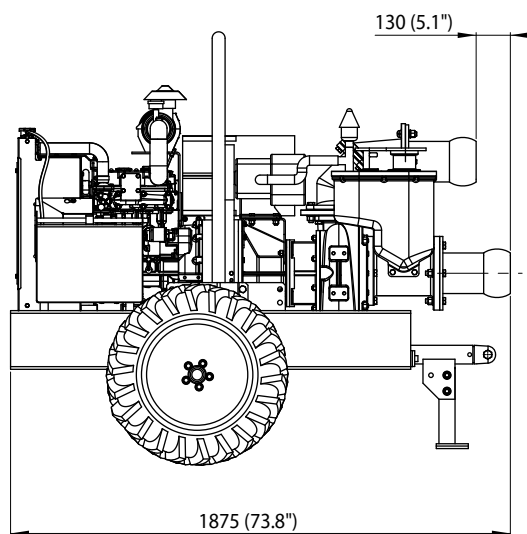
Model	Heavy duty trailer - Trailer
Dimensions	1.395 x 2.100 x 1.625 mm (55 x 83 x 64 ")
Material	S275JR EN 10025-2 carbon steel
Coatings	polyester powder, average thickness of 80 µm
Color	RAL 1018 yellow (standard)
Features	tractor tires; galvanised steel lifting bar, removable; tow bar; folding foot; lockable battery box; fuel level indicator
Lifting points	top barycentric connection
Battery	acid charge Pb-Ca maintenance free 12 V - 100 Ah - 400 A
Tank	130,0 l (34.3 USG)
Locking keys	fuel cap
Height connection	0,9 m (3 ft)

## Dimensions



## Weight

Dry weight 0



## EN ISO 9001:2008 REG. NO 44 100 091767



Varisco S.p.A. has certified its Quality Management System in accordance with the requirements of the ISO 9001:2008 international standards. The quality of the product comes from the quality of the processes: standardise activities, enhance human resources, pursue a logic of continuous improvement aiming for the constant satisfaction of its Customers.

**Varisco S.p.A.** Terza strada, 9 - Z.I. Nord 35129 PADOVA - Italy  
tel +39 049 8294 111 fax +39 049 80 76 762  
export@variscopspa.com