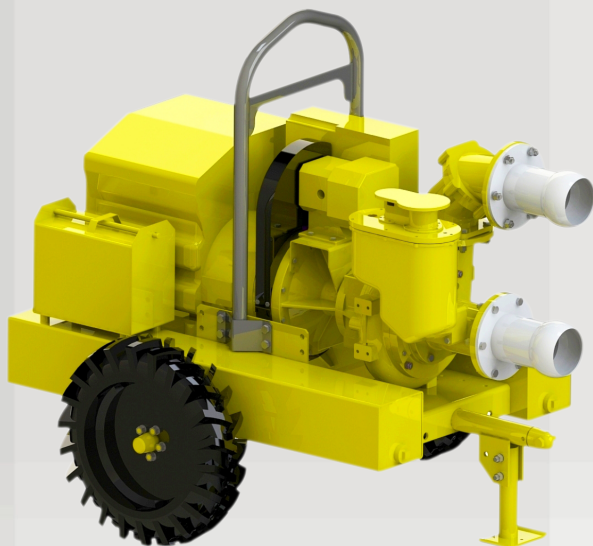


ECOMATIC ZD 6-250 G10 FKL10 V04

Diesel - Qmax 470 m³/h (2,070 USGPM) - Hmax 30,5 m (100 ft)



Product data

Suction port	Spherical coupling 6"
Delivery port	Spherical coupling 6"
Qmax	470 m ³ /h (2,070 USGPM)
Hmax	30,5 m (100 ft)
Solids handling	76 mm (3")
Engine	Kohler KDI 1903M
Engine power	21,6 kW - 29.0 HP
Vacuum pump	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 FKL10 V04

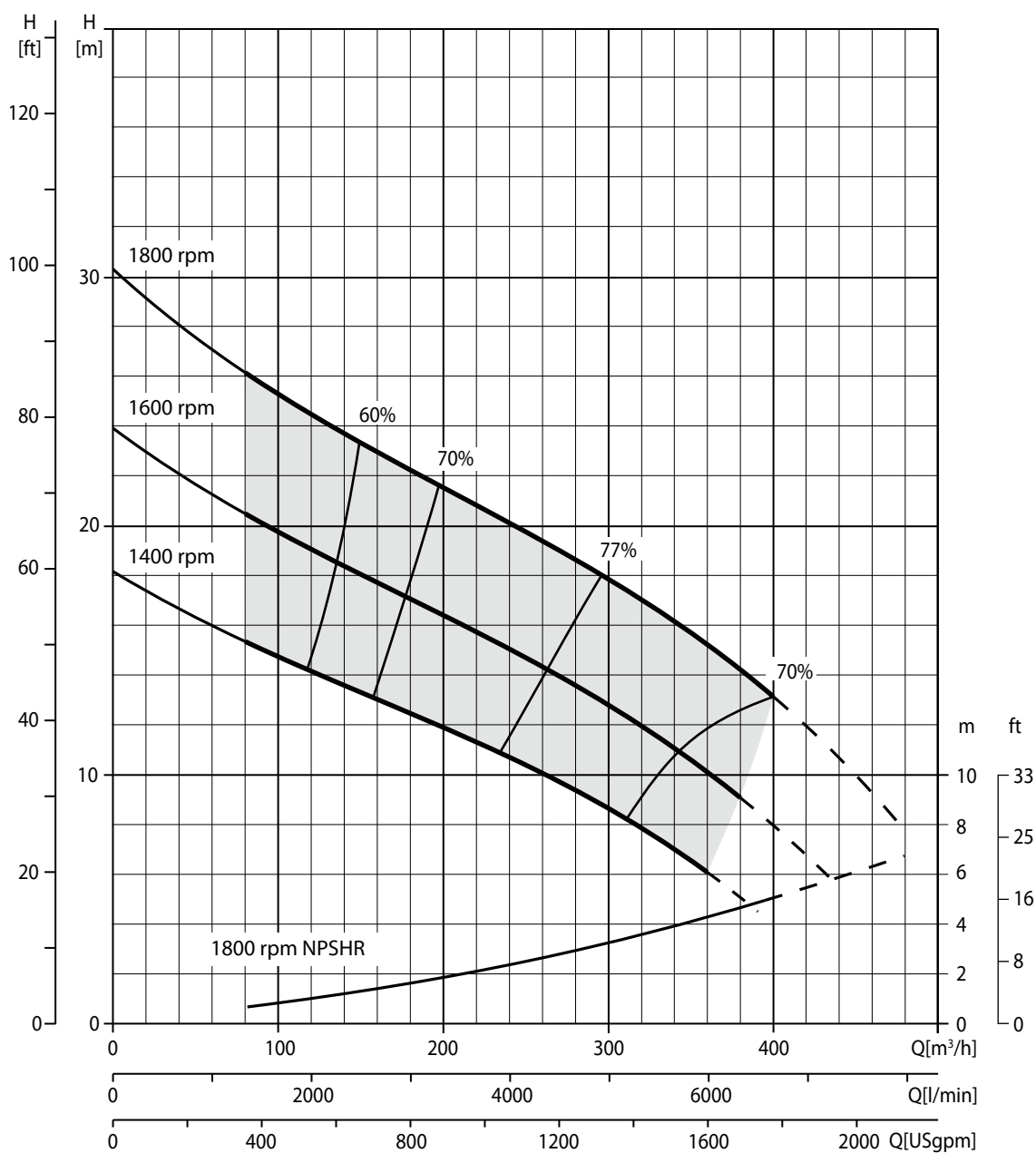


Performance curves

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 FKL10 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	Kohler
Model	KDI 1903M
Type	diesel direct injection, aspirated
Displacement	1.861 cm³ (114 in³)
No. cylinders	3
Cooling	liquid with radiator
Power max	21,6 kW - 29.0 HP (Continuous power - ISO 3046 ICXN)
Speed	variable
Standard speed	1.800 rpm (engine calibration)
Maximum consumption	5,4 l/h (1.4 USG/h)
EU emissions	2002/88/CE Stage 3A
US emissions	EPA Tier III
Starting	electric
Oil change interval	500 h



Consumption

Speed [rpm]	1200	1400	1600	1800
Consumption[l/h]	3,5	4,4	5,1	5,4
Power[kW]	13,5	17,6	20,3	21,6
Power[HP]	18.1	23.6	27.2	29.0

Control panel

Manual operation
Digital hour meter
Automatic engine shutdown in case of:
low oil pressure
water overheating
lack of battery charging
(engine failure alarms with LED lights)
Throttle rod



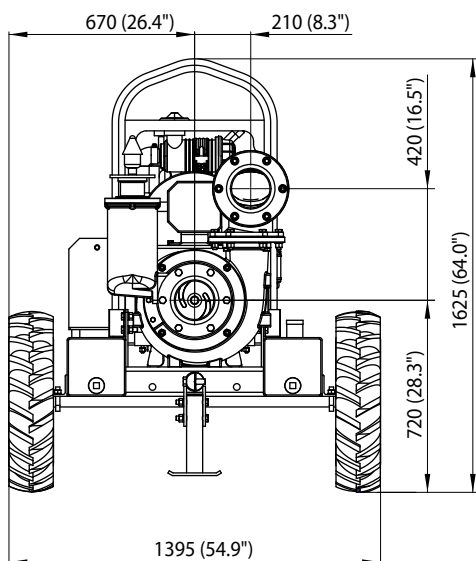
ECOMATIC ZD 6-250 G10 FKL10 V04



Arrangement

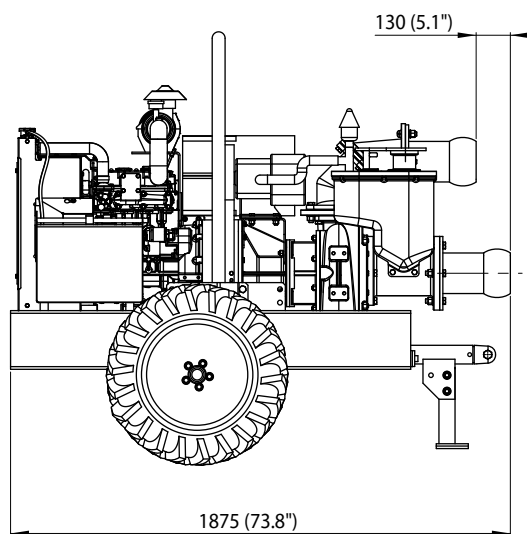
Model	Heavy duty trailer - Trailer
Dimensions	1.395 x 2.100 x 1.625 mm (55 x 83 x 64 ")
Material	S275JR EN 10025-2 carbon steel
Coatings	polyester powder, average thickness of 80 µm
Color	RAL 1018 yellow (standard)
Features	tractor tires; galvanised steel lifting bar, removable; tow bar; folding foot; 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.

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