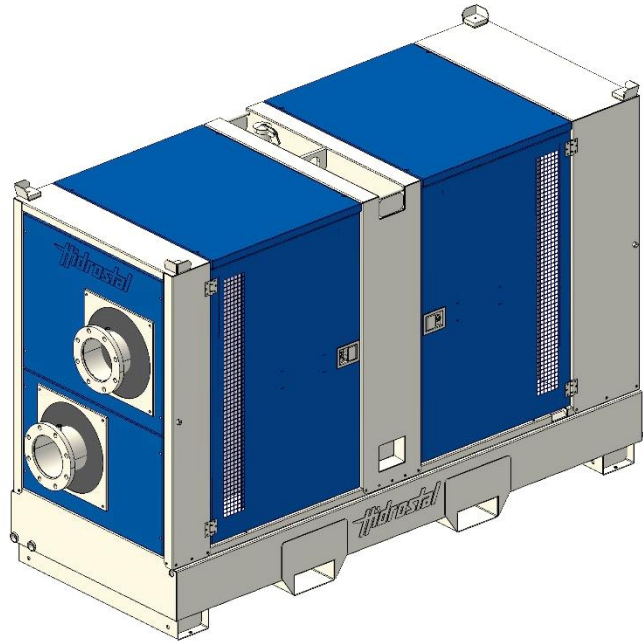


# SuperBetsy

## Datasheet

### Type 200-FH GG

Self-priming, diesel driven mobile  
Pump with soundproof canopy



#### Technical data

DN Suction flange PN10	[mm]	200
DN Discharge flange PN10	[mm]	200
Max capacity (Qmax @ MaxSpeed)	[m³/h]	738 @ 1750 1/min
Max discharge head (MaxSpeed)	[m]	42
Max suction lift vacuum pump	[m]	8.5
Spherical free passage impeller	[mm]	115
Capacity vacuum pump	[m³/h]	40
Rated engine Power	[kW]	53 @ 1300 1/min
		54 @ 1750 1/min
Absorbed power pump full load	[kW]	33.4 @ 1300 1/min
		47 @ 1750 1/min
Fuel consumption per hour @ BEP	[Ltr.]	6.8 @ 1500 1/min
		9.3 @ 1750 1/min
Speed range	[1/min]	1300 - 1750
Capacity fuel tank	[Ltr.]	700
Running time @ (BEP)	[hrs.]	103 @ 1500 1/min
	[hrs.]	75 @ 1750 1/min
Sound power level Lw (@ MaxSpeed)	[dB]	91 @ 1750 1/min
Sound pressure level Lp @ 7m (@ MaxSpeed)	[dB(A)]	66 @ 1750 1/min
Global dimension overall l/w/h	[mm]	3300 x 1210 x 2200
Weight with fuel	[kg]	3250

## Features

- The Original – Clog-resistant and wear-resistant screw centrifugal impeller
- Large free passage, good snore capabilities and very low noise
- Capable of pumping viscous liquids containing solids
- Can handle large quantities of air
- Fish friendly pump characteristics
- Double shaft seal submerged in an oil bath guarantees extended shaft seal life
- Wear liner can be adjusted from outside the pump volute
- High pumping capacity combined with low engine power
- Fuel consumption is up to 50% lower than conventional water pumps
- Patented BetsyPrime electronic vacuum system
- Pump set primes very quickly even at high suction lifts
- Automatic level switching (engine start and stop level controls)

## Main applications

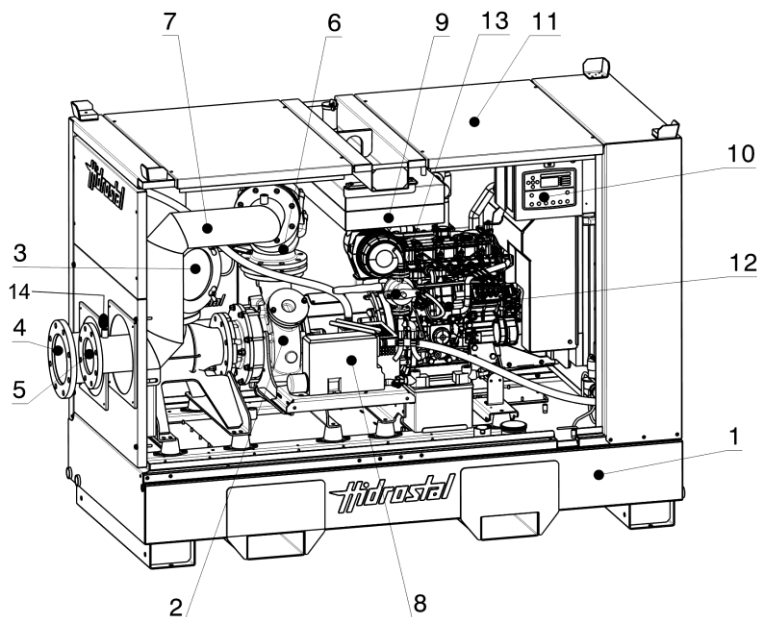
- Pumping untreated and treated sewage
- Pumping clean and dirty bentonite and similar viscous liquids
- Drainage of flooded catchment areas, buildings and construction zones, pumping of surface water
- Emergency pump unit for fire services, environment agencies.
- In situations where long suction lines are unavoidable
- Temporary installations e.g. renovations of sewage plants or pump stations

## Other benefits

- Meets the current emission regulations EURO Stage 3A/3B, Tier4 interim/final
- All canopy doors are lockable
- Hand pump for emptying the drip tray and motor oil is fitted inside the canopy
- Options: trailer mounted.

# Main components

- 1 Lower container with built in fuel tank
- 2 Screw centrifugal pump
- 3 Priming chamber
- 4 Suction flange
- 5 Discharge flange
- 6 Non-return valve
- 7 Discharge pipe
- 8 Vacuum pump
- 9 Diesel exhaust system
- 10 Control panel
- 11 Soundproof canopy
- 12 Diesel engine
- 13 Hand pump
- 14 Pressure gauge connection



# Highlights

Motor	
Manufacturer	JCB
Model	TCAE-55
Performance	55 kW
Displacement	4.4 litre
Cylinders	4
Cooling system	Water-cooled
Emission	Euro IIIB / US Tier 4 Final



Pump	
Manufacturer	Hidrostat
Model	F06K-H03R + FGM1W-XK
Material: impeller	1R: GGG60 / 3R: CrMo Steel
Material: hydraulic	GG25
Material: wear liner	1R:GG20 / 3R:Hidrohard
Material: shaft	X20Cr13
Shaft seal: pump side	sic/tungsten carbide
Shaft seal: engine side	sic/antimony carbon



Vacuum pump	
Manufacturer	Busch
Model	R5 100mbar
Type	Rotating vane vacuum pump
Nominal suction capacity	40m <sup>3</sup> /h
Drive	V-belt, linked with electromagnet clutch to the main rotary shaft



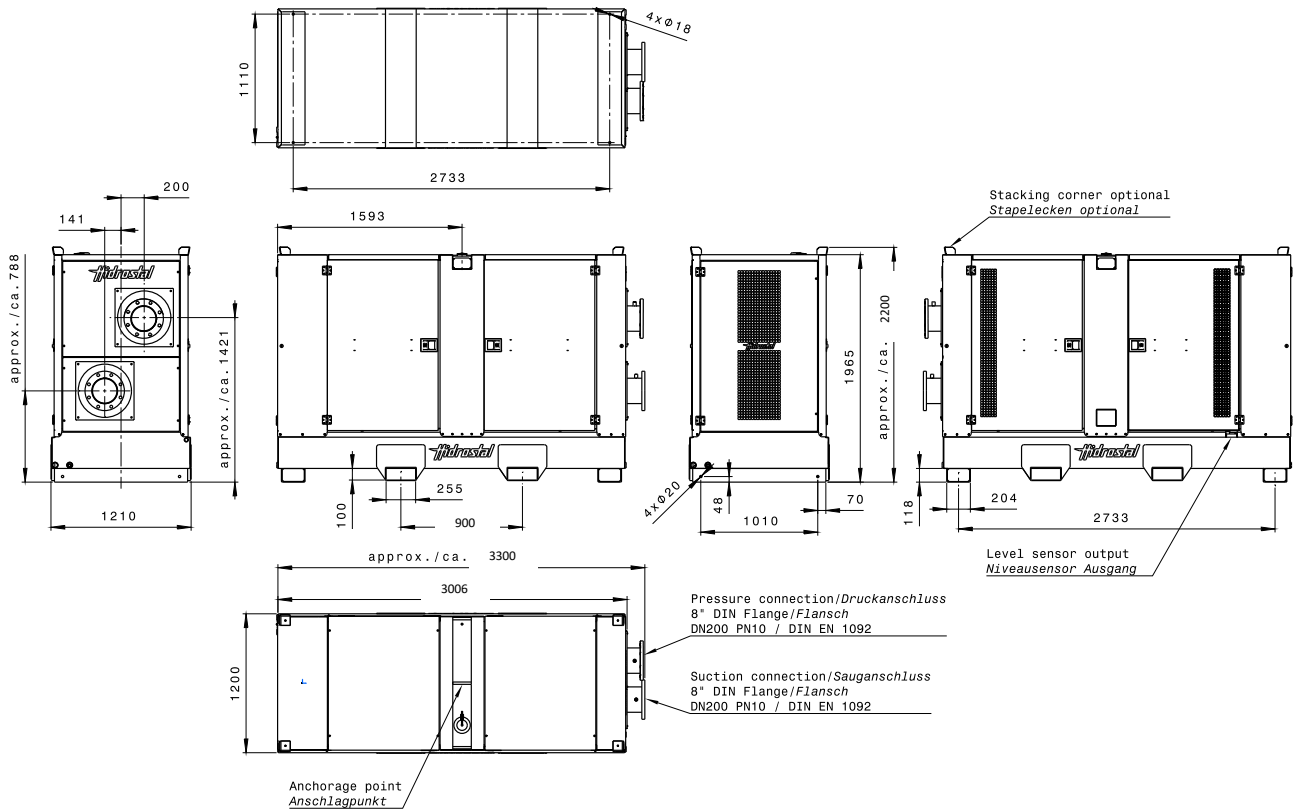
Control panel	
Manufacturer	Deep Sea Electronics
Model	E800
Operation modes	Manual and automatic operating mode (water level detection probes with 15m cable for automatic mode included)
Digital functions and indications	Hour counter, engine temperature., battery voltage, tachometer
Optional functions and indications	GSM/GPS monitoring and control, e-mail and SMS event trigger messages, electr. fuel level measuring with warning, pressure reading on suction and discharge pipe



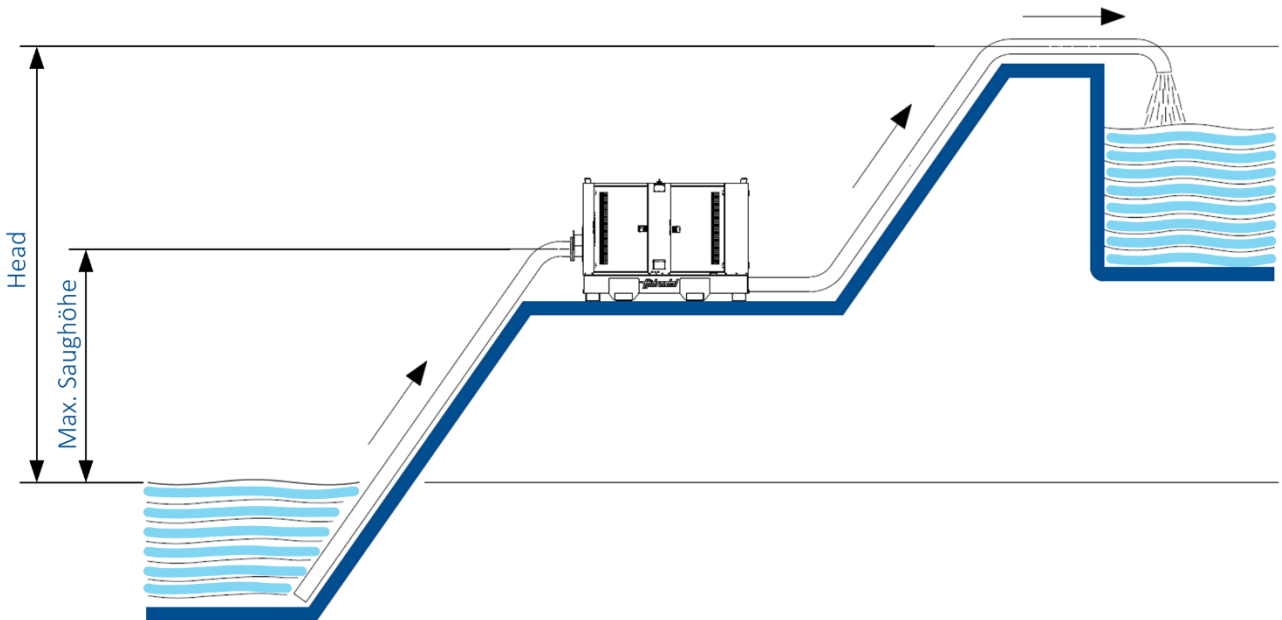
Soundproof canopy	
Material and coating	Steel, hot-dip galvanized and powder coated (standard colour blue RAL5010, other colours available)
Noise insulation	Completely covered inside with sound insulation matts, 66db(A) @ 7m @ 1750 rpm
Support structure	Hot-dip galvanized lower container with fork lift channels
Lifting eye	With centre hook lifting eye
Stackable	Stackable corners optionally available



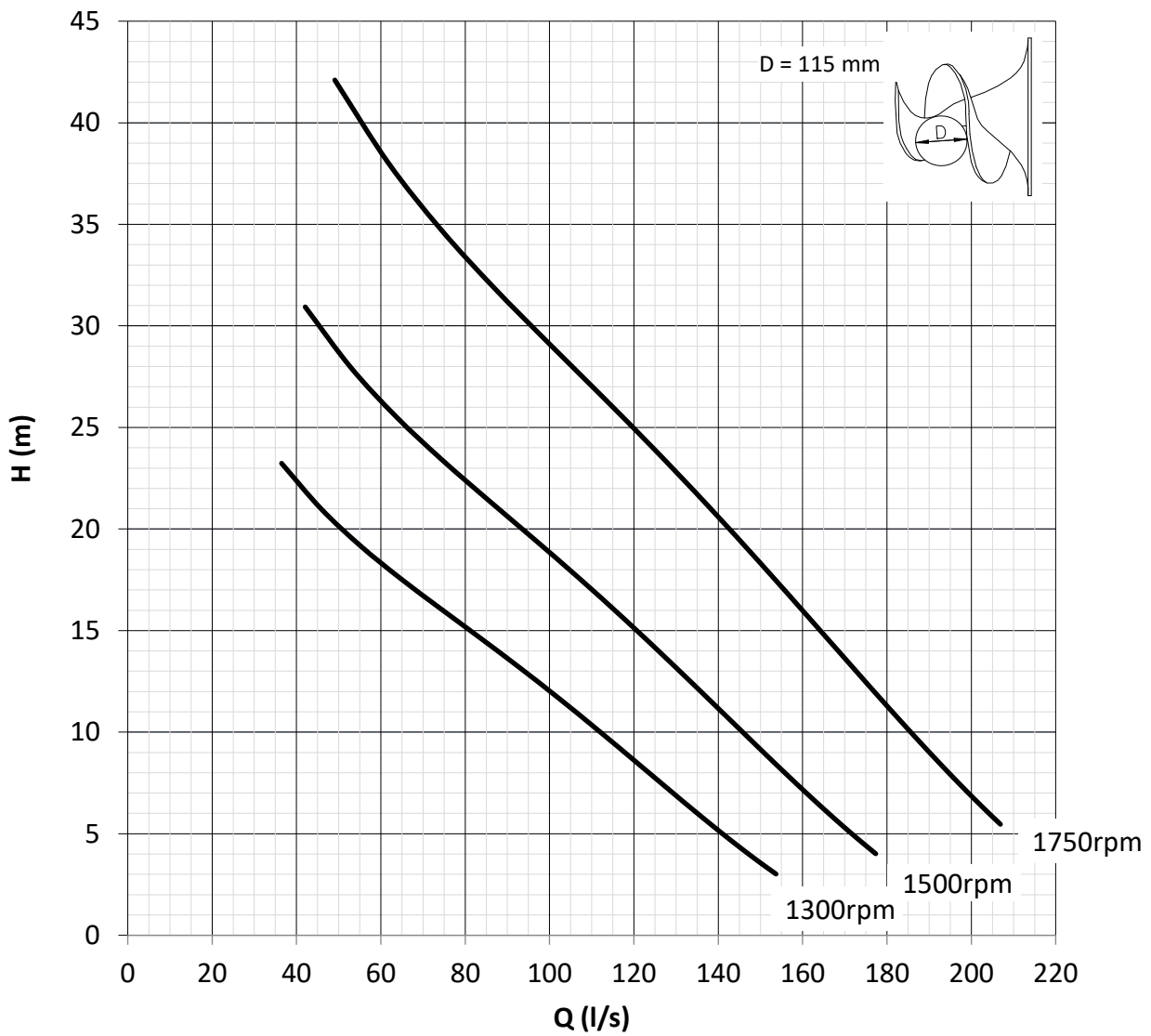
# Dimensions



# Typical setup example



## Pump curve



The pictured curve shows the real performance curve of the SuperBetsy between the suction- and discharge sides. The pressure losses in the machine are considered!