

Catchment		
Description	Value	Units
Catchment area	360 000.00	m <sup>2</sup>
Run-off coefficient	0.52	-
Design rainfall depth	181.00	mm
Rainfall duration	3.00	days
Storm volume	33 883	m <sup>3</sup>
	33 883 200	Litres
Maximum pond elevation after storm		
Storm average inflow rate	131	l/s
Pump requirements		
Description	Value	Units
No. of days to remove volume	3.00	days
Required pumping rate	139	l/s
Volume pumped after:		
1 Day	12 009 600	Litres
2 Days	24 019 200	Litres
3 Days	36 028 800	Litres

WATER



# CP150i



**PRIMAX**

## Diesel Drive Auto Prime Contractor Pump

The contractors range are designed robust and heavy duty to meet the demands of the construction, mining and rental industries.

Contractors pumps are a fully automatic priming pump and can run dry for extended periods due to the oil bath mechanical seal assembly which allows priming with long suction hoses and suction lifts of up to 9 metres (28 feet).

## CONTRACTORS RANGE

As fluid levels fluctuate, the pump will "snore" until the liquid is available for the pump to fully re-prime itself automatically.

Built with the highest quality materials, 316 SS Impeller and wear plates as standard.

The range offers efficiency levels of 83% which translate into benefits for the end user and the environment.

**ALLIGHTPRIMAX**

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## Features

- Low fuel usage
- Reduced engine sizes
- Lower maintenance costs
- Dry self prime and reprime
- Close coupled SAE Bearing Frames
- Suction lifts to 9m
- Operates in 'snore' conditions
- Vacuum Priming option available for ground dewatering.

- Diesel, electric or hydraulic drive
- Solids handling
- Simple maintenance
- Replaceable wear parts
- Chassis - skid, road tow, wheeled, caged
- Powered by Perkins or Cat Engines.
- Other engines available on request
- Custom build available
- Sykes purpose built Control panel

## Application

- Construction
- Environmental
- Industrial
- Mining
- Clean Water
- Sludge
- Slimes
- Sewage
- Solids laden liquids
- Ground Dewatering
- Pipeline & Drilling
- Jetting
- Quarries

## Technical Data

### MATERIALS OF CONSTRUCTION

Pump Casing:	S.G. IRON 400/12
Suction Cover:	S.G. IRON 400/12
Air Separation Tank:	S.G. IRON 400/12
Bearing Bracket:	S.G. IRON 400/12
Pump Shaft:	431 Stainless Steel
Impeller:	316 Stainless Steel
Wearplates:	316 Stainless Steel
Mechanical Seal:	Silicon Carbide/ Silicon Carbide
N.R.V. (Ball Type):	S.G. IRON 400/12

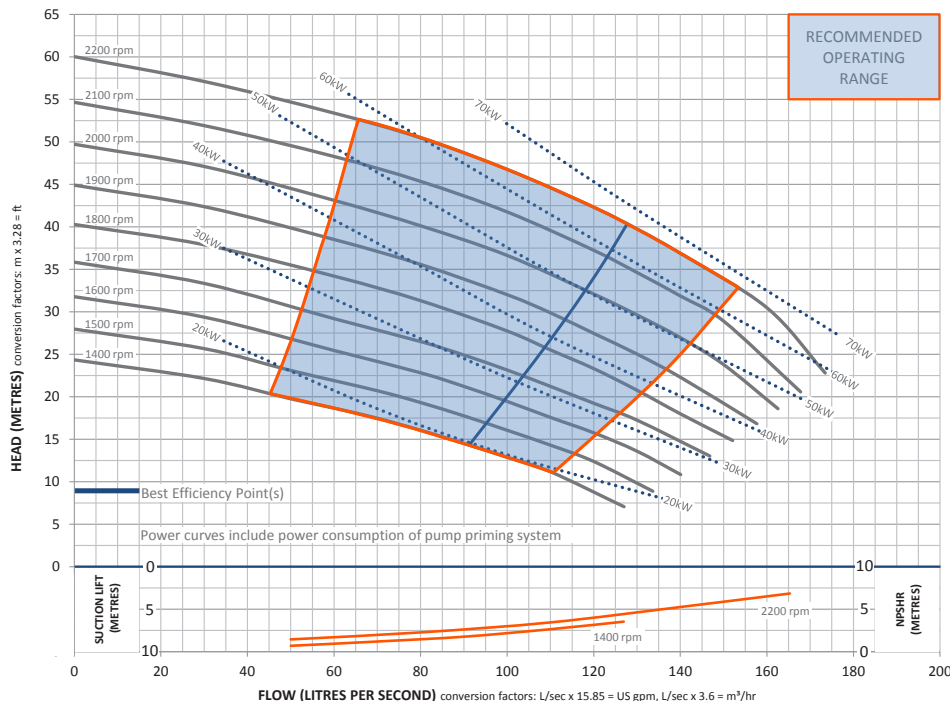
### DESIGN DETAILS

Single Stage, end suction type, 2 vane fully open impeller, Centrifugal pump  
 Suction Flange (mm/in): 150/6  
 Delivery Flange (mm/in): 150/6  
 Solids Handling Size (mm/in): 77/3  
 Maximum Head (m/ft): 60/197  
 Maximum Capacity: 172 L/sec

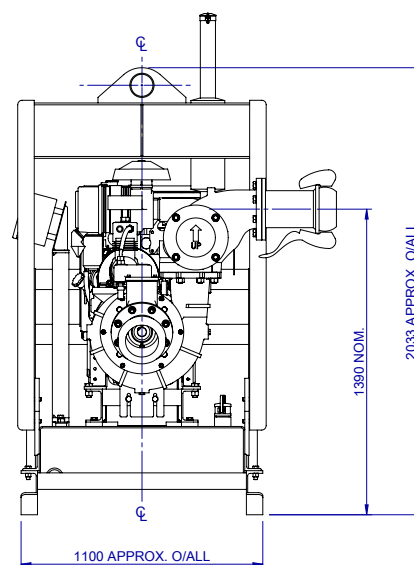
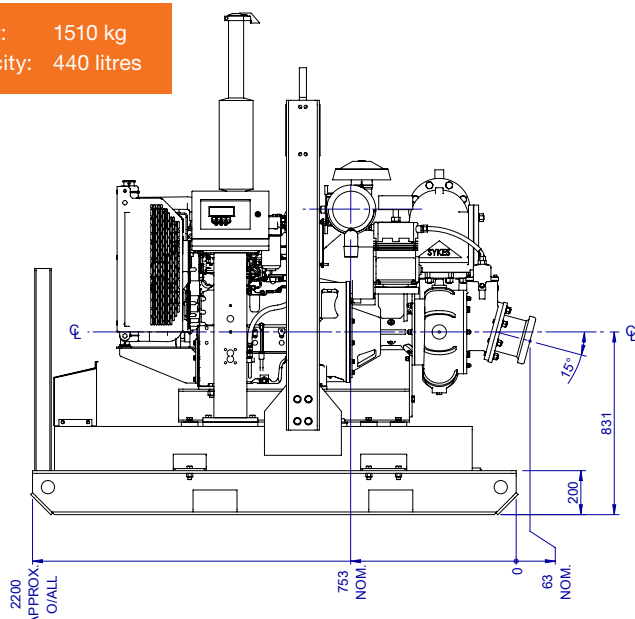
### FUEL USAGE (L/HR) @ BEP

Speed (rpm)	POWER USAGE (kW)	FUEL RATE (L/hr)	RUN TIME (hrs - 250L fuel tank)
1400	20	4.94	89
1800	38	9.39	47
2200	66	16.31	27

CALCULATIONS BASED ON 210 g/kw.hr



Dry Weight: 1510 kg  
 Fuel Capacity: 440 litres



Final weight and dimensions will depend on completed specifications.

All this information in this document is substantially correct at the time of printing and may be altered subsequently.

REV 231115

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