



SYKES

PUMP SPECIFICATION SHEET

► HH220i-432-PR



Built Tough

HIGH HEAD PR



Mining &
Quarries



Construction
& Civil



Sewage &
Waste Water



Rental



Industrial



Agriculture



Oil & Gas

► HEAVY DUTY

Automatic self-priming
single stage end
suction pump

► SOLIDS HANDLING

Large solids capacity
while maintaining
hydraulic efficiencies

► CORROSION RESISTANT

Stainless steel 316
(CF8M) internals
as standard

TECHNICAL DATA

DESIGN DETAILS

Auto self priming, centrifugal single stage, end suction, 4 vane fully open impeller

PRODUCT SPECIFICATIONS

Suction Flange	200mm [8"]
Delivery Flange	200mm [8"]
Solids Handling	55mm [2.17"]
Maximum Head	125m [410ft]
Maximum Flow	270L/sec [4,280 USgal/min]
Engine Type	CAT-C13
Engine Adaptor	SAE #1
Shaft Diameter*	69.8mm [2.75"]
Fuel Rate @ BEP 2,000rpm**	71.6L/hr [18.91 USgal/hr]
Fuel Rate @ BEP 1,600rpm**	37L/hr [9.77 USgal/hr]
Fuel Tank Capacity	2,100L [555 USgal]

* The nominated shaft diameter is the critical working diameter of the shaft, used for calculation of the shaft stiffness ratio L3/D4.

** Based on standard engine brake specific fuel consumption.

PREMIUM RANGE (PR) INCLUSIONS

- Structural Steel base.
- Galvanised steel, two-point lifting frame complete with engine canopy.
- Manual diesel fuel fill (lockable).
- Pump and engine control panel with emergency stop as standard.
- Heavy duty battery with battery box enclosure.
- Vacuum (suction inlet) and Pressure (discharge outlet) gauges.
- Pump operating range sign for optimum pump life and reliability.
- Galvanised steel sled, complete with tyne pockets and tie down points for transportation.
- Safety inclusions such as heat shields, work lights, lockable battery isolator and fire extinguisher.
- Rear discharge pipe work, complete with geared butterfly valve.

MATERIALS OF CONSTRUCTION

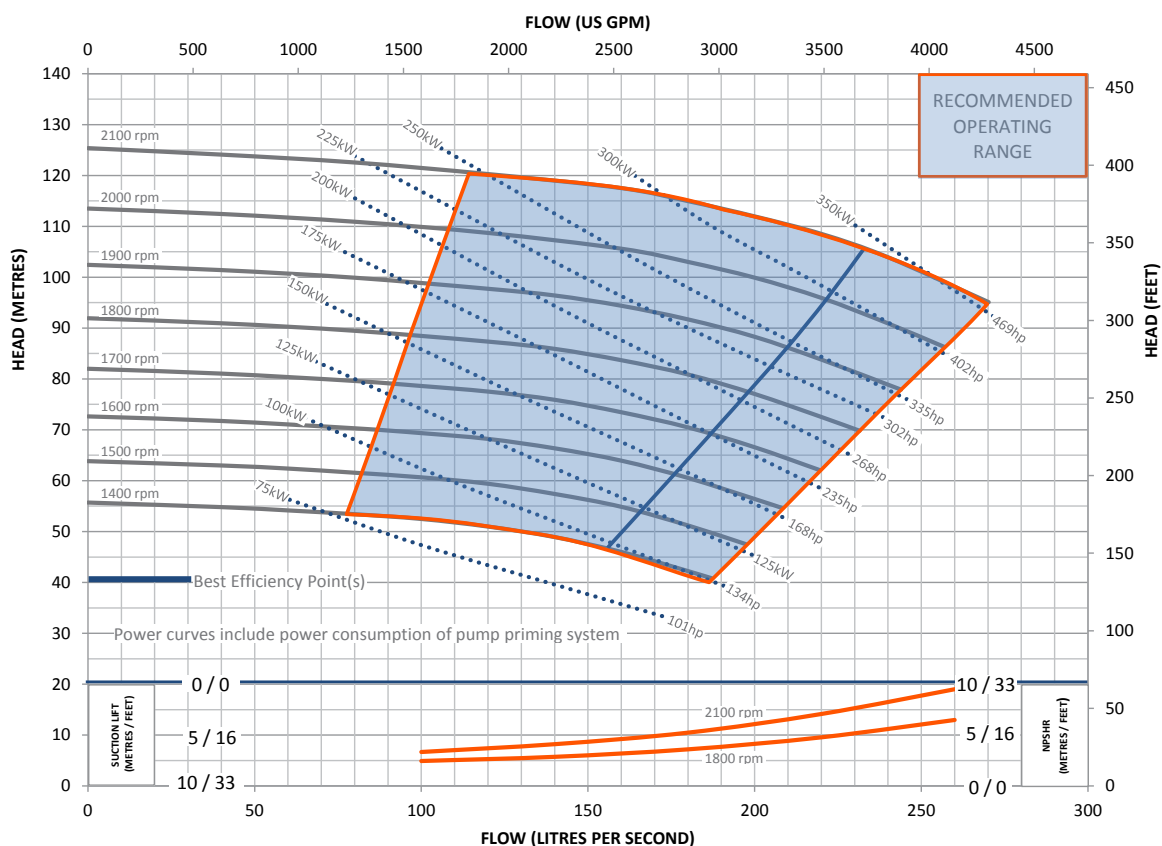
PART	MATERIAL	MATERIAL STANDARDS			
		GRADE	AS	GRADE	ASTM
Tee Piece	SG Iron	400/12	1831	65-45-12	A536
Pump Casing (Volute)	SG Iron	400/12	1831	65-45-12	A536
Front Wear Plate	Stainless	316/H6B	2074	CF8M	A351
Impeller	Stainless	316/H6B	2074	CF8M	A351
Rear Wear Plate	Stainless	316/H6B	2074	CF8M	A351
Rear Adaptor Plate	SG Iron	400/12	1831	65-45-12	A536
Pump Shaft	Stainless	431	2074	98b-431	A276
Bearing Bracket	SG Iron	400/12	1831	65-45-12	A536
Bearing Covers	SG Iron	400/12	1831	65-45-12	A536
Mechanical Seal†	Multi-spring balanced cartridge type				

† Multi-spring balanced double hard faced cartridge type mechanical seal complete with oil lubrication and pumping ring. Seal faces are silicon carbide vs. tungsten carbide.

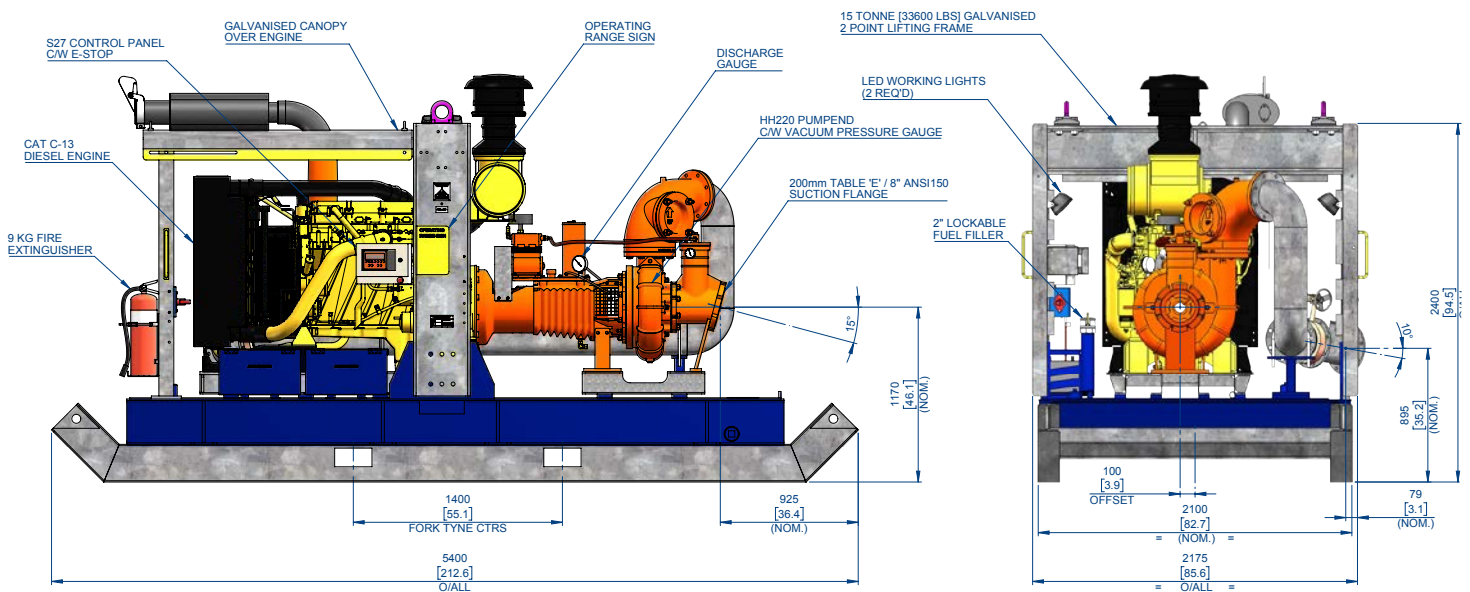
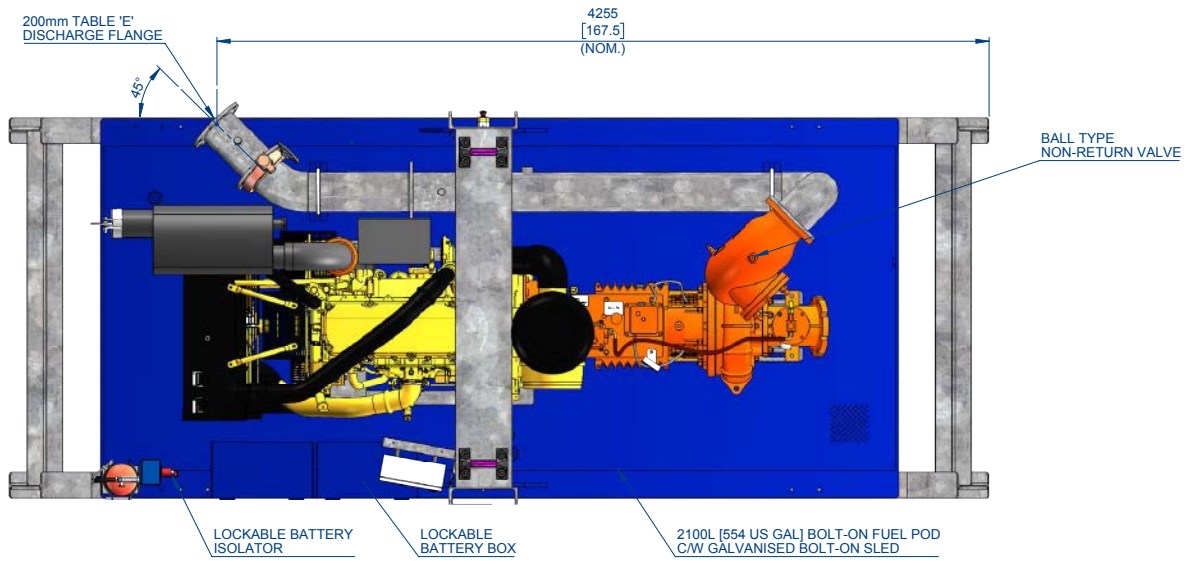
OPTIONAL EXTRAS

Please contact us to discuss these options:

- Additional operational, mobility and safety extras such as: suction and discharge couplings, strainers, double skin fuel tanks and trailers. These can all be selected and fitted to our Premium Range (PR) pump units.
- Our PR build configuration uses CAT diesel engines, however, alternative engine brands are available upon request.
- Other pump materials of construction are also available upon request: full 316 stainless steel, CD4MCU, chromium steel, SAF 2205 and SAF 2507.



TECHNICAL DATA



DRY: 6,344kg [13,986 lb]

WET: 8,084kg [17,822 lb]

Note: Final weight and dimensions will depend on completed specifications and options, subject to manufacturing tolerances. All the information in this document is substantially correct at the time of creation and may be altered at the manufacturer's sole discretion. Any quotes and related material provided supersedes the contents hereof.

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