

Pump Data Sheet - DXB s600/25SAP Pumpset



Company: DXB Pump & Power
 Name: Engineering
 Date: 07/01/2019

High flow 200mm s600/25SAP
 JCB Stage 3b 65kw engine
 Maximum pump speed 1800rpm
 Impeller trim to 300mm



Pump:			
Size:	CRP200NNT300D	Dimensions:	Suction: 200 mm
Type:	Encl Solids Handling		Discharge: 200 mm
Synch Speed:	1500 rpm		
Dia:	300 mm		
Curve:	CRP200NNT300D		

Fluid:			
Name:	Water		
SG:	1	Vapor Pressure:	0.0177 bar a
Density:	999 kg/m ³	Atm Pressure:	1.01 bar a
Viscosity:	1.1 cP		
Temperature:	15.6 °C		

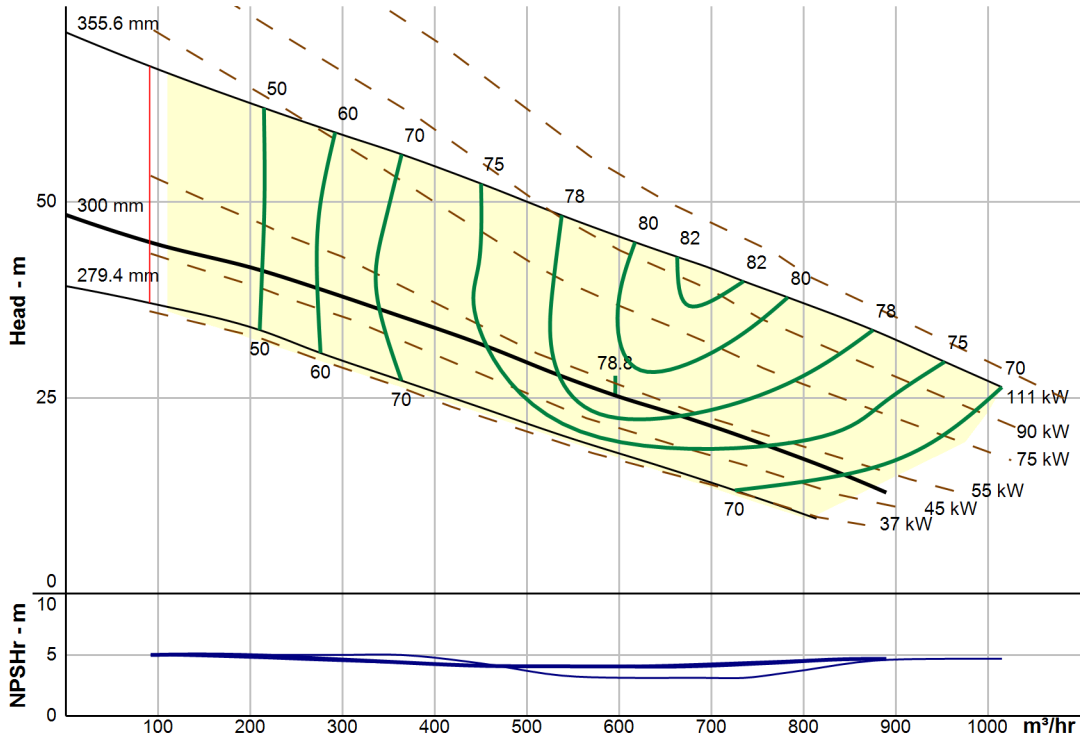
Search Criteria:			
Max Flow:	850m ³ /hr	Max Eff:	82%
Max Head:	48m	Static Head:	0 m

Pump Limits:			
Temperature:	121 °C	Sphere Size:	85.0 mm
Wkg Pressure:	10.3 bar g		

Engine:
 JCB Stage 3b emission compliant engine running up to a maximum speed of 1800rpm generating maximum power output of 55kw. From September 2019 all DXB pumpsets will also be available with Cummins Stage 5 emission compliant engines with Ad-blue.

Pump Selection Warnings:

--- Duty Point ---	
Flow:	596 m ³ /hr
Head:	25.3 m
Eff:	79%
Power:	52 kW
NPSHr:	4.05 m
Speed:	1800 rpm
--- Design Curve ---	
Shutoff Head:	48.4 m
Shutoff dP:	4.74 bar
Min Flow:	90.8 m ³ /hr
BEP:	78.8% @ 596 m ³ /hr
NOL Power:	52.8 kW @ 667 m ³ /hr
--- Max Curve ---	
Max Power:	104 kW @ 1015 m ³ /hr



Performance Evaluation:

Flow	Speed	Head	Efficiency	Power	NPSHr
m ³ /hr	rpm	m	%	kW	m
854	1800	14.7	69	49.5	4.65
712	1800	20.9	77	52.5	4.18
570	1800	26.4	78	52	4.06
427	1800	32.8	74	51.2	4.19
285	1800	38.5	62	48.2	4.67

DXB PUMP & POWER s600/25SAP high flow sound attenuated pumpset is designed to operate in noise and emission sensitive environments such as EU countries where legislation dictates that only equipment with the cleanest engines and smallest carbon footprint my work.

The DXB Pump & Power pumpsets in Stage 5 emission designs offer the highest flows with the lowest carbon dioxide output of any pumpsets currently available in Europe.

All DXB Pump & Power pumpsets come with a Cornell Redi-prime pump complete with 50cfm priming system and patented Cycloseal run dry mechanical seal design

