

Pump Performance Datasheet

Customer :	Quote Number / ID :
Customer ref. / PO :	Model : 15507 LC
Tag Number : 001	Stages : 1
Service :	Based on curve number : RC9792 Rev 1
Quantity : 1	Basic model number : -
	Date last saved : 09/18/2023 4:44 PM

Operating Conditions		Liquid	
Flow, rated	: 181.7 USgpm	Liquid type	: Cold Water
Differential head / pressure, rated (requested)	: 101.8 ft	Additional liquid description	:
Differential head / pressure, rated (actual)	: 101.8 ft	Solids diameter, max	: 0.00 in
Suction pressure, rated / max	: 0.00 / 0.00 psi.g	Solids concentration, by volume	: 0.00 %
NPSH available, rated	: Ample	Temperature, max	: 68.00 deg F
Site Supply Frequency	: 60 Hz	Fluid density, rated / max	: 1.000 / 1.000 SG

Performance		Material	
Speed, rated	: 3530 rpm	Material selected	: Cast iron
Impeller diameter, rated	: 5.00 in		
Impeller diameter, maximum	: 5.00 in		
Impeller diameter, minimum	: 3.38 in		

Performance		Pressure Data	
Efficiency	: 78.60 %	Maximum working pressure	: 49.69 psi.g
NPSH required / margin required	: 15.01 / 0.00 ft	Maximum allowable working pressure	: 175.0 psi.g
nq (imp. eye flow) / S (imp. eye flow)	: 29 / 121 Metric units	Maximum allowable suction pressure	: 175.0 psi.g
MCSF	: 60.00 USgpm	Hydrostatic test pressure	: 263.0 psi.g
Head, maximum, rated diameter	: 114.8 ft		
Head rise to shutoff	: 11.97 %		

Performance		Driver & Power Data (@Max density)	
Flow, best eff. point	: 181.7 USgpm	Motor sizing specification	: Max power (non-overloading)
Flow ratio, rated / BEP	: 100.00 %	Margin over specification	: 0.00 %
Diameter ratio (rated / max)	: 100.00 %	Service factor	: 1.00
Head ratio (rated dia / max dia)	: 100.00 %	Power, hydraulic	: 4.67 hp
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00	Rated power (based on duty point)	: 5.94 hp
Selection status	: Acceptable	Max power (non-overloading)	: 6.95 hp
		Nameplate motor rating	: 7.50 hp / 5.59 kW

Energy Indexes	
PEI (CL)	: 0.90
ER (CL)	: 10

