

## Pump Performance Datasheet

Project name / location	: Default	Tag Number	: 002
Consulting engineer	:	Service	: Chilled Water Pump
Customer	:	Model	: 40157 LC
Customer ref. / PO	:	Quantity	: 2
Quote number	: 506718	Quoted By (Sales Office)	: [REDACTED]
Date last saved	: 07/18/2016 10:27 AM	Quoted By (Sales Engineer)	: [REDACTED]

Operating Conditions		Liquid	
Flow, rated	: 975.0 USgpm	Liquid type	: Glycol, Propylene, 35%
Differential head / pressure, rated (requested)	: 150.0 ft	Additional liquid description	:
Differential head / pressure, rated (actual)	: 150.3 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
Frequency	: 60 Hz	Fluid density, rated / max	: 1.000 / 1.000 SG
Performance		Viscosity, rated	: 1.00 cP
Speed, rated	: 1780 rpm	Vapor pressure, rated	: 0.34 psi.a
Impeller diameter, rated	: 13.38 in	Material	
Impeller diameter, maximum	: 15.00 in	Material selected	: Cast iron
Impeller diameter, minimum	: 12.75 in	Pressure Data	
Efficiency	: 75.06 %	Maximum working pressure	: 82.26 psi.g
NPSH required / margin required	: 18.37 / 0.00 ft	Maximum allowable working pressure	: 175.0 psi.g
Ns (imp. eye flow) / Nss (imp. eye flow)	: 1,023 / 6,158 US Units	Maximum allowable suction pressure	: 175.0 psi.g
MCSF	: 213.9 USgpm	Hydrostatic test pressure	: 263.0 psi.g
Head, maximum, rated diameter	: 190.1 ft	Driver & Power Data	
Head rise to shutoff	: 23.00 %	Motor sizing specification	: Max power (non-overloading)
Flow, best eff. point	: 863.9 USgpm	Margin over specification	: 0.00 %
Flow ratio, rated / BEP	: 112.86 %	Service factor	: 1.00
Diameter ratio (rated / max)	: 89.20 %	Power, hydraulic	: 36.97 hp
Head ratio (rated dia / max dia)	: 67.87 %	Rated power (based on duty point)	: 49.26 hp
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00	Max power (non-overloading)	: 54.90 hp
Selection status	: Acceptable	Nameplate motor rating	: 60.00 hp / 44.74 kW

