

## Pump Performance Datasheet

Customer :	Quote Number / ID :	1471203
Customer ref. / PO :	Model :	12707 VL
Tag Number : 001	Stages :	1
Service :	Based on curve number :	VL_12707_2P Rev 0
Quantity : 1	Basic model number :	-
	Date last saved :	11/02/2023 6:10 PM

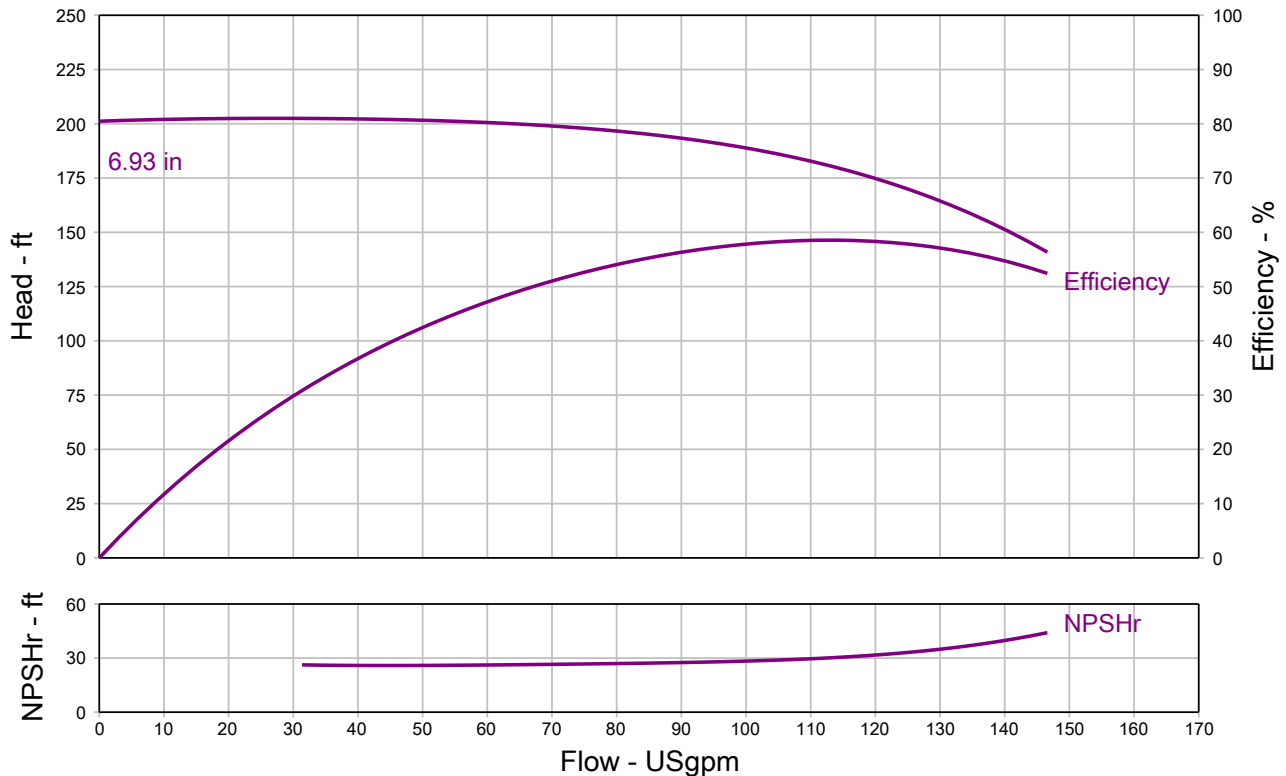
Operating Conditions		Liquid	
Flow, rated	: 112.9 USgpm	Liquid type	: Cold Water
Differential head / pressure, rated (requested)	: 180.6 ft	Additional liquid description	:
Differential head / pressure, rated (actual)	: 181.3 ft	Solids diameter, max	: 0.00 in
Suction pressure, rated / max	: 0.00 / 0.00 psi.g	Solids concentration, by volume	: 0.00 %
NPSH available, rated	: Ample	Temperature, max	: 68.00 deg F
Site Supply Frequency	: 60 Hz	Fluid density, rated / max	: 1.000 / 1.000 SG
		Viscosity, rated	: 1.00 cP
		Vapor pressure, rated	: 0.34 psi.a

Performance		Material	
Speed, rated	: 3530 rpm	Material selected	: Cast iron - 125#
Impeller diameter, rated	: 6.93 in		
Impeller diameter, maximum	: 7.10 in		
Impeller diameter, minimum	: 4.50 in		
Efficiency	: 58.55 %		

Performance		Pressure Data	
NPSH required / margin required	: 30.12 / 0.00 ft	Maximum working pressure	: 87.64 psi.g
nq (imp. eye flow) / S (imp. eye flow)	: 14 / 56 Metric units	Maximum allowable working pressure	: 175.0 psi.g
MCSF	: 33.73 USgpm	Maximum allowable suction pressure	: 175.0 psi.g
Head, maximum, rated diameter	: 202.5 ft	Hydrostatic test pressure	: 263.0 psi.g
Head rise to shutoff	: 11.34 %		
Flow, best eff. point	: 112.9 USgpm		
Flow ratio, rated / BEP	: 99.98 %		
Diameter ratio (rated / max)	: 97.61 %		
Head ratio (rated dia / max dia)	: 93.85 %		
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00		
Selection status	: Acceptable		

Performance		Driver & Power Data (@Max density)	
Head, maximum, rated diameter	: 202.5 ft	Motor sizing specification	: Max power (non-overloading)
Head rise to shutoff	: 11.34 %	Margin over specification	: 0.00 %
Flow, best eff. point	: 112.9 USgpm	Service factor	: 1.00
Flow ratio, rated / BEP	: 99.98 %	Power, hydraulic	: 5.15 hp
Diameter ratio (rated / max)	: 97.61 %	Rated power (based on duty point)	: 8.80 hp
Head ratio (rated dia / max dia)	: 93.85 %	Max power (non-overloading)	: 9.94 hp
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00	Nameplate motor rating	: 10.00 hp / 7.46 kW
Selection status	: Acceptable		

Energy Indexes	
PEI (CL)	: 0.87
ER (CL)	: 13



**Grundfos Series VL - In-Line Centrifugal Pump, Close Coupled**

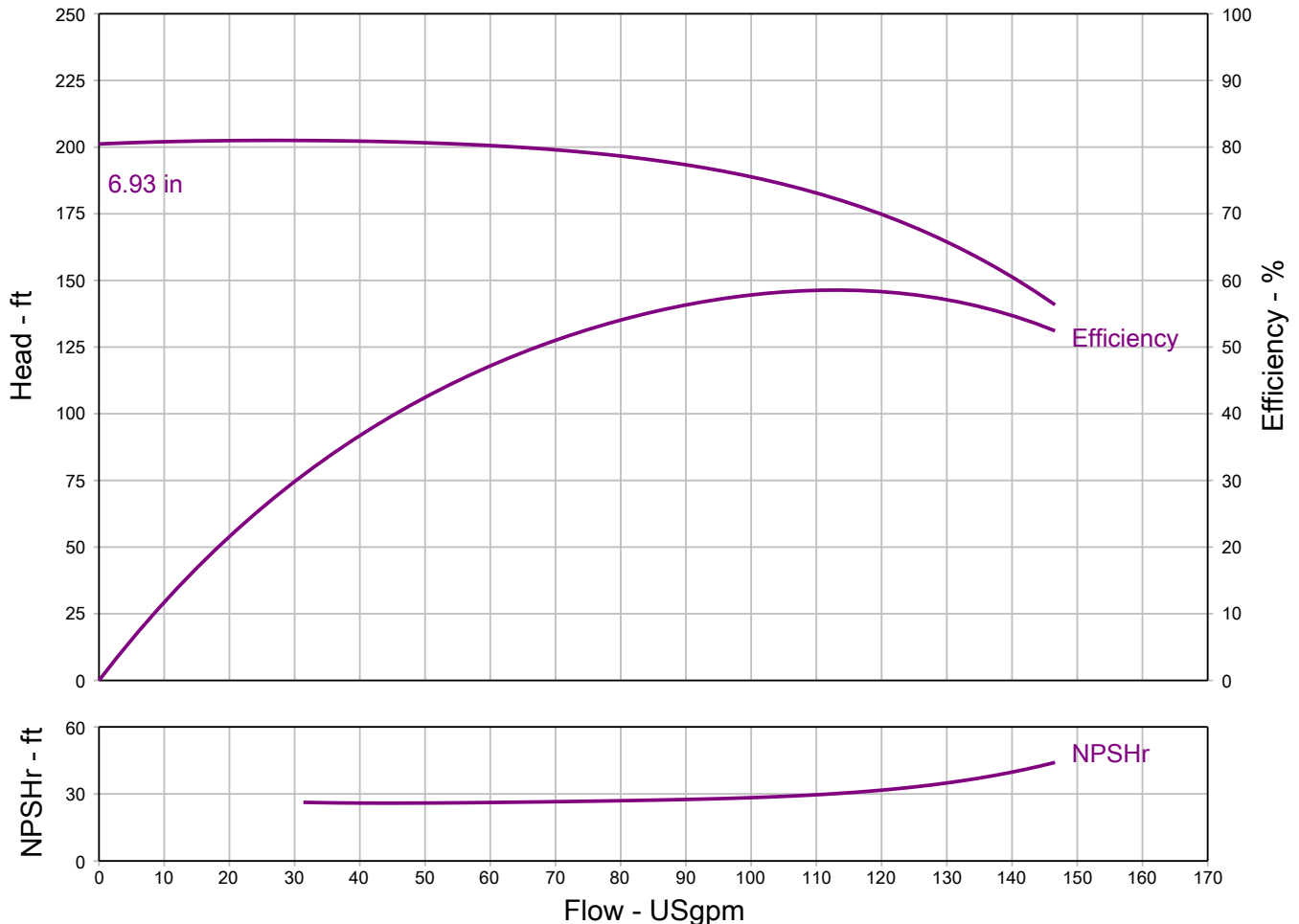
<b>QUOTE NUMBER / ID</b> 1471203	<b>UNIT TAG</b> 001	<b>QUANTITY</b> 1
<b>REPRESENTATIVE</b>	<b>SERVICE</b>	<b>DATE</b>
<b>ENGINEER</b>	<b>SUBMITTED BY</b>	<b>DATE</b>
<b>CONTRACTOR</b>	<b>APPROVED BY</b>	<b>DATE</b>
	<b>ORDER #</b>	<b>DATE</b>



**VL 12707**  
**3530 rpm**

Part Number N/A

Conditions of Service		Pump Data		Motor Data	
Flow	112.9 USgpm	Impeller Diameter	6.92 in	Motor HP	10 HP
Head	180.6 ft	Max. Imp. Dia.	7.10 in	BHP	8.8 HP
Liquid	Cold Water	Min. Imp. Dia.	4.50 in	Enclosure	TEFC
Temperature	68.00 deg F	Efficiency	58.55 %	Voltage	230/460 V
NPSHr	30.12 ft	Suction	-1 in.	Phase	3 Phase
Viscosity	1.00 cP	Discharge	-1 in.	Cycle	60
Specific Gravity	1.000 SG	PEI (CL)	0.87	Frame Size	
		ER (CL)	13		



QUOTE NUMBER / ID 1471203

UNIT TAG 001

VL 12707

**Grundfos Series VL - In-Line Centrifugal Pump, Close Coupled**

NOT FOR CONSTRUCTION, unless certified and referenced on order

Units	Frame	S x D	AG (Max)	DC	DD	DE	E	P (Max)	X	YY	Weight
inches			-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	TBD