



CENTRIFUGAL PUMPS PRODUCT OVERVIEW

PROVEN TECHNOLOGY

DESMI

DESMI Centrifugal Pumps

DESMI is co-operating with the customers to develop innovations in pump technology. Whether it is solving individual application problems or developing new ideas, we are always looking for ways of doing things better.

DESMI's range of centrifugal pumps represents the latest developments, based on more than 150 years of experience in the pump industry.

The pumps are characterised by high-level efficiency and low NPSH values.

DESMI vertical pumps require minimal space and provide easy access for maintenance of the pump's rotating parts.



DESMI ESL



DESMI ESLH



DESMI ESLHT

Single-stage, End-suction

ESL/ESLH In-line and end-suction single-stage centrifugal pump	
Nominal diameter (DN)	25 to 100
Flow rate - 50Hz	Up to 200 m³/h (880 US gpm)
Flow rate - 60 Hz	Up to 250 m³/h (1100 US gpm)
Head	Up to 65 m (210 ft)
Pressure	Up to 30 bar (435 psi)
Temperature	Up to 140°C (284°F)
Motor	Standard and EX motors
VFD	Direct or wall-mounted
Applications: Water, water with additives, seawater and oils up to 500 cSt.	

Horizontal, End-suction

ESLHT Horizontal end-suction centrifugal Pump	
Normal Diameter (DN)	25 to 65
Flow rate - 50 Hz	Up to 100 m³/h (440 US gpm)
Flow rate - 60 Hz	Up to 120 m³/h (530 US gpm)
Head	Up to 65m (220 ft)
Pressure	Up to 30 bar (435 psi)
Temperature	Up to 180°C (356 °F)
Motor	Standard and Ex motor
VFD	Direct or Bulkead/Wall-mounted
Applications: High temperatures water circulation, boiler water circulation, hot water supply or other heat transfer applications.	



DESMI NSL Horizontal



DESMI NSL



DESMI NSLH



DESMI NSLV

In-line, Vertical & Horizontal

NSL Vertical and horizontal in-line centrifugal pump	
Normal Diameter (DN)	80 to 350
Flow rate - 50 Hz	Up to 2000 m³/h (8800 US gpm)
Flow rate - 60 Hz	Up to 2400 m³/h (10600 US gpm)
Head	Up to 195 m (640 ft)
Pressure	Up to 25 bar (360 psi)
Temperature	Up to 140°C (284 °F)
Motor	Standard and Ex motor
VFD	Direct or Bulkead/Wall-mounted
ATEX approved	
Applications: Water, water with additives, seawater and oils up to 500 cSt.	

End-suction

NSLH/V Vertical and horizontal end-suction centrifugal pump	
Nominal diameter (DN)	80 to 400
Flow rate	Up to 1800 m³/h (7900 US gpm)
Head	Up to 220 m (720 ft)
Pressure	Up to 25 bar (363 psi)
Temperature	Up to 150°C (302°F)
Motor	Standard and EX motors
VFD	Direct or wall-mounted
ATEX approved.	
Applications: Water, water with additives, seawater and oils up to 500 cSt.	

DESMI Centrifugal Pumps



DESMI DSL



DESMI DSL Horizontal



DESMI Modular S



DESMI Modular S Monobloc

Double Suction, In-line

DSL Vertical and horizontal inline double suction centrifugal pump	
Nominal diameter (DN)	150 to 600
Flow rate - 50 Hz	Up to 6200 m ³ /h (27300 US gpm)
Flow rate - 60 Hz	Up to 7400 m ³ /h (32580 US gpm)
Head	Up to 140 m (459 ft.)
Pressure	Up to 25 bar (363 psi)
Temperature	Up to 140°C (284°F)
Motor	Standard and EX motors
VFD	Wall-mounted
ATEX approved.	
Applications: Water with additives and seawater.	



DESMI SA

Self-priming

Modular S Self-priming centrifugal pump	
Normal Diameter (DN)	32 - 125
Flow rate - 50 Hz	Up to 340 m ³ /h (1500 US gpm)
Flow rate - 60 Hz	Up to 410 m ³ /h (1800 US gpm)
Head	Up to 140 m (460 ft)
Pressure	Up to 16 bar (230 psi)
Temperature	Up to 140°C (284 °F)
Motor	Standard and Ex motor
VFD	Direct or Bulhead/Wall-mounted
ATEX approved	
Applications: Water, water with additives, seawater and oils up to 500 cSt.	

Self-priming

SA / SAEN Horizontal self-priming centrifugal pump	
Normal Diameter (DN)	20 to 200
Flow rate - 50 Hz	Up to 610 m ³ /h (2700 US gpm)
Flow rate - 60 Hz	Up to 730 m ³ /h (3200 US gpm)
Head	Up to 115 m (375 ft)
Pressure	Up to 12 bar (170 psi)
Temperature	Up to 140°C (284 °F)
Motor	Standard and Ex motor
VFD	Direct or Bulhead/Wall-mounted
Applications: Water, water with additives, seawater and oils up to 500 cSt.	

DESMI High Flow - Low Pressure Pumps



DESMI NSLV

Vertical, End-suction

NSLV Vertical End-suction Pump - High Flow - Low Pressure	
Nominal diameter	DN 250 to 600
Flow rate	500 to 6400 m ³ /h (2201 to 28.178 US GPM)
Head	2 mLC - 20 mLC
Pressure	5 bar (PN5) (72.5 psi)
Temperature	0 to 100 °C (212 °F)
Motor	Standard and Ex motors
Motor size	From 7.5 kW to 200 kW
VFD	Fully compatible
Materials	Cast Iron (GG20) (with or without Ceramic Coating for seawater), Stainless Steel (AISI316 & 1.4410), NiAlBz



DESMI NSLH

Horizontal, End-suction

NSLH Horizontal End-Suction Centrifugal Pump	
Nominal diameter	DN 250 to 600
Flow rate	500 to 6400 m ³ /h (2201 to 28.178 US GPM)
Head	2 mLC - 20 mLC
Pressure	5 bar (PN5) (72 psi)
Temperature	0 to 100 °C (212 °F)
Motor	Standard and Ex motors
Motor size	From 7.5 kW to 250 kW
VFD	Fully compatible
Materials	Cast Iron (GG20) (with or without Ceramic Coating for seawater), Stainless Steel (AISI316 & 1.4410), NiAlBz

DESMI Vertical Centrifugal Multi-stage Pumps

Multi-stage

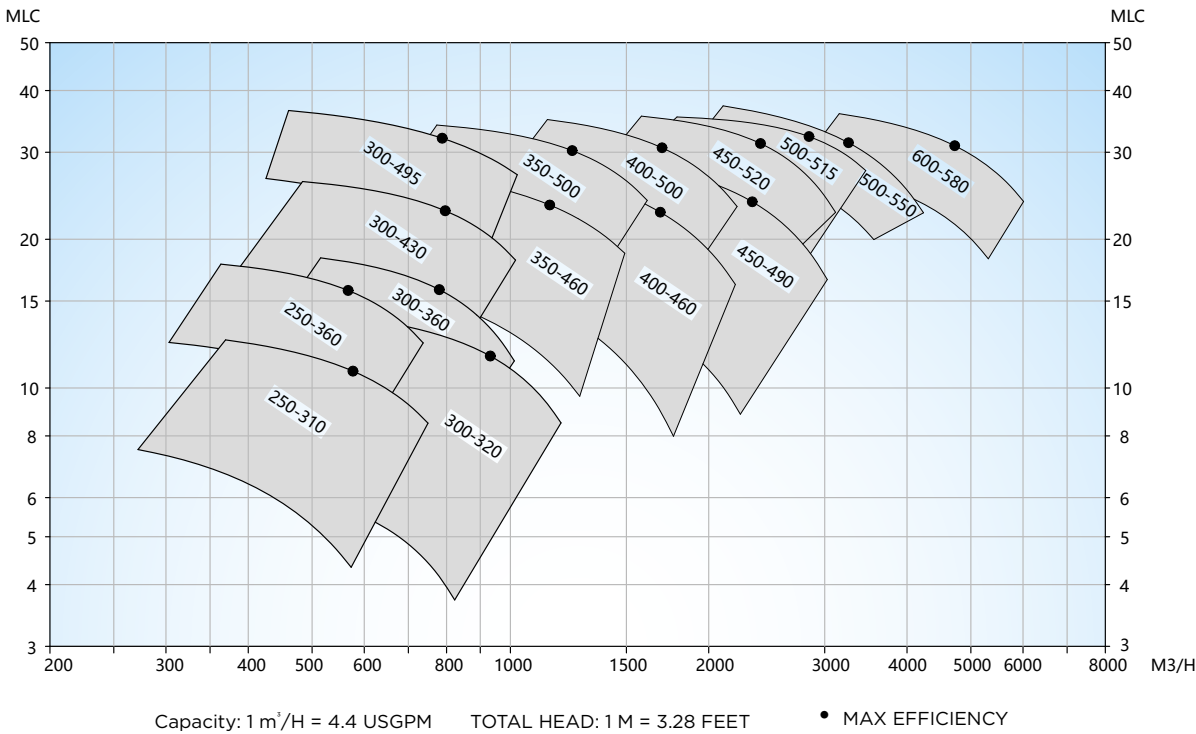
Vertical DPV	
2-pole	2, 4, 6, 10, 15, 25, 40, 60, 85, 125
4-pole	15, 25, 40, 60, 85, 125
Capacity range (m ³ /h)/(gpm)	0.5-193/2-849
Maximum pump pressure (m)/(ft)	5/16 to 400/1312
Temperature range medium	-20 - +140° C / -4 - 284° F
Applications: Water, sprinkler, industry, cleaning systems and boiler feeds.	



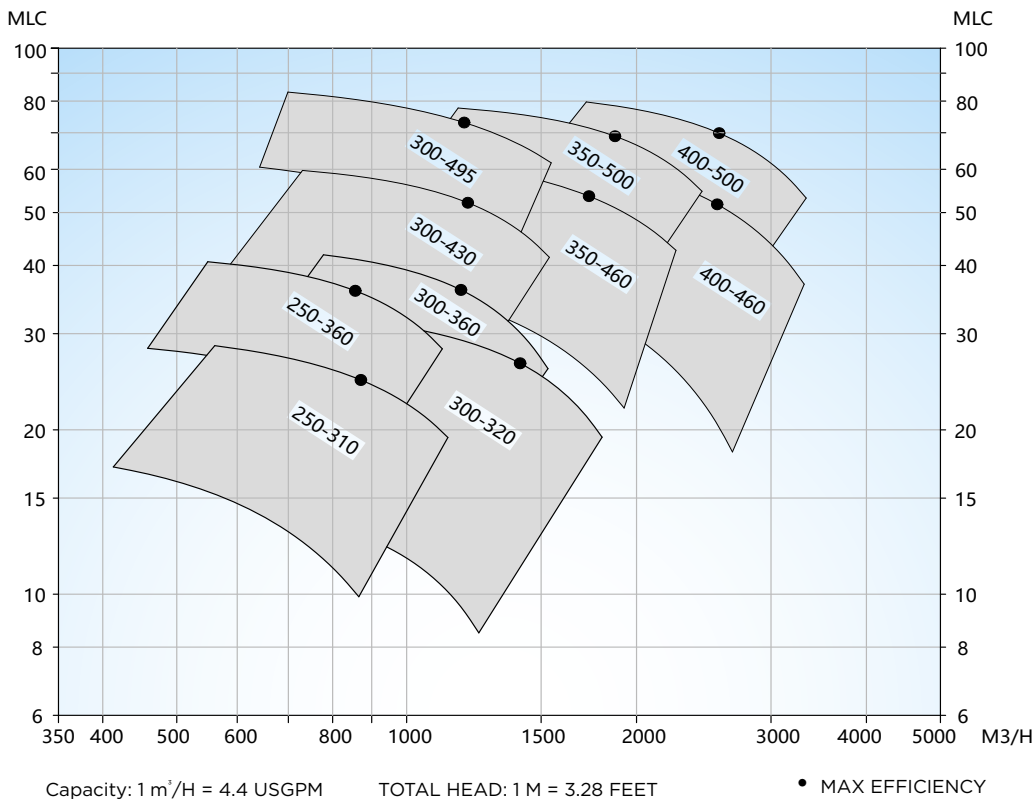
DESMI DPV Pumps



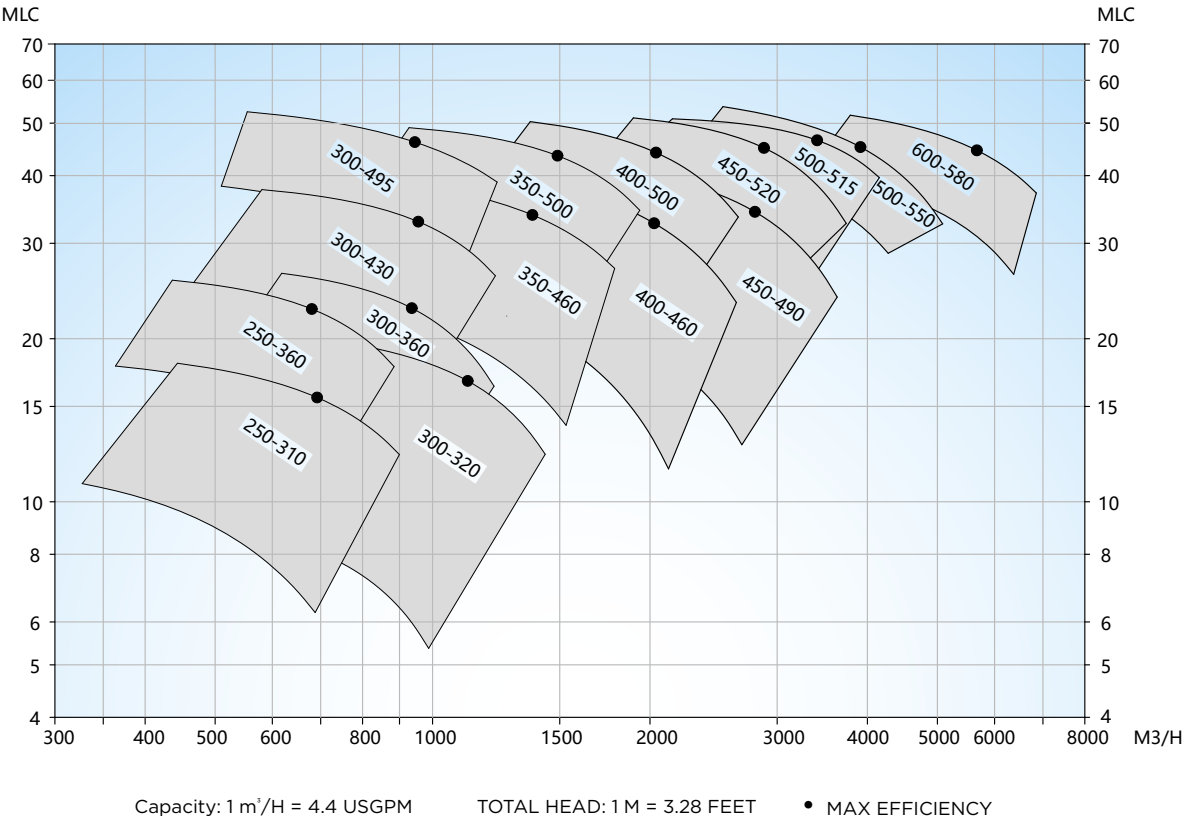
DSL Centrifugal Pump, 960 rpm, **50 HZ**



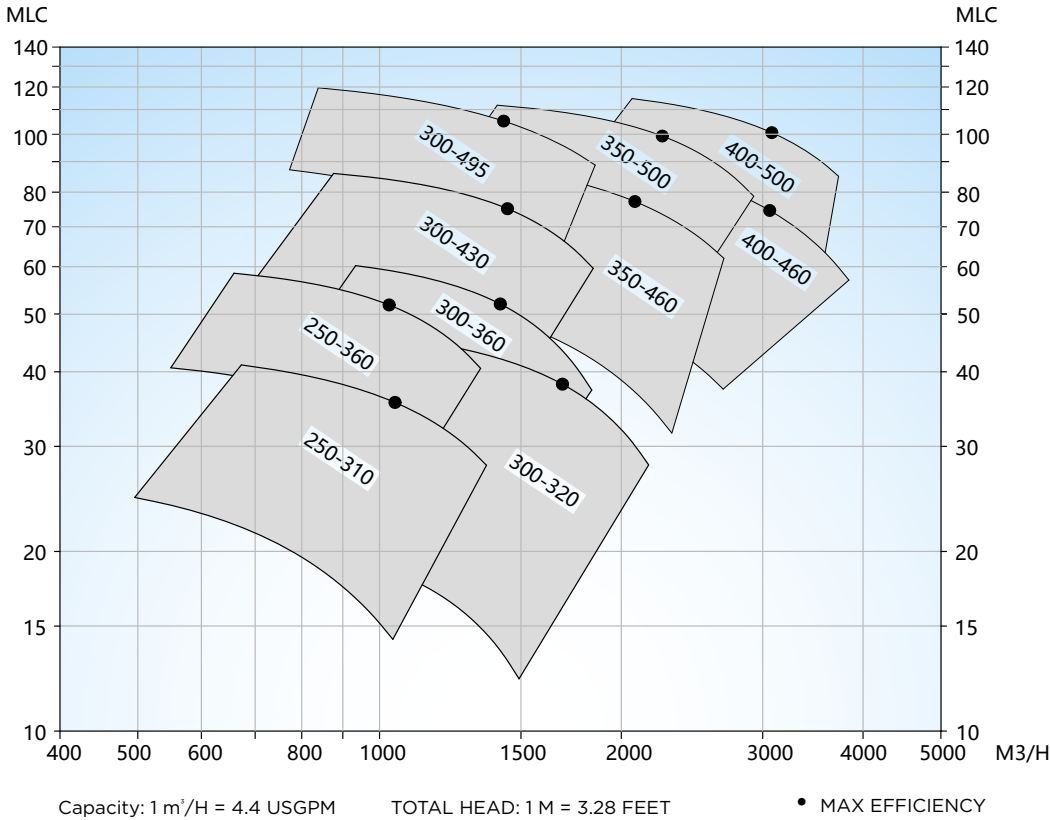
DSL Centrifugal Pump, 1450 rpm, **50 HZ**



DSL Centrifugal Pump, 1152 rpm, **60 Hz**

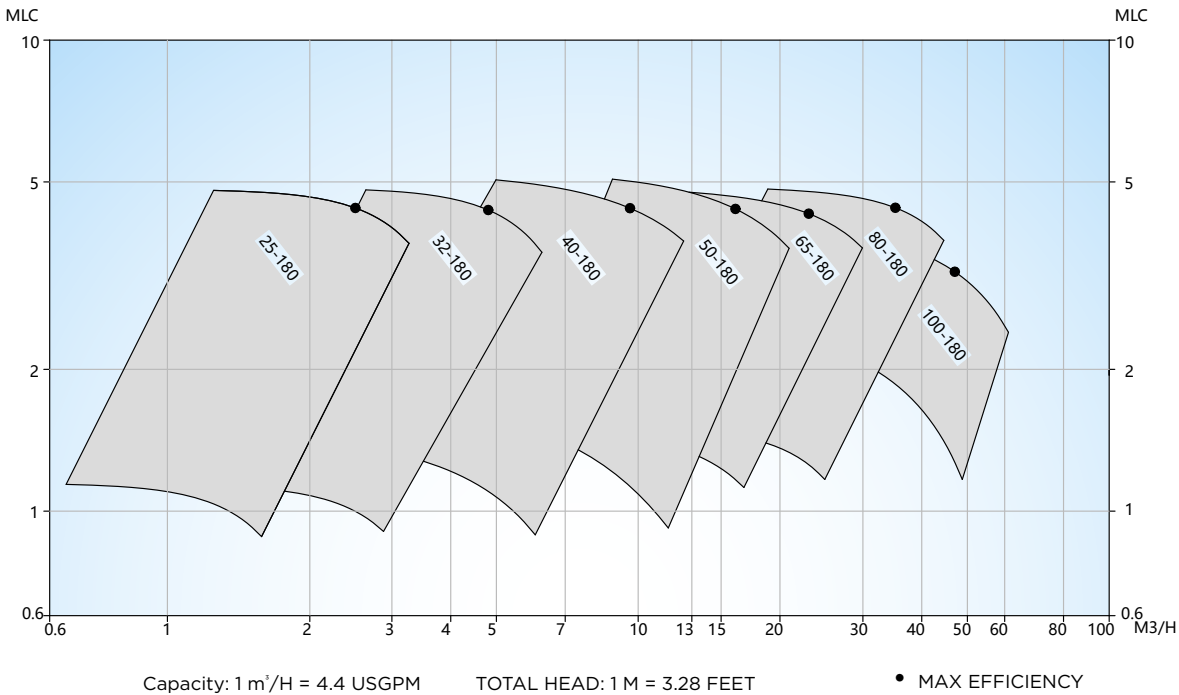


DSL Centrifugal Pump, 1740 rpm, **60 Hz**

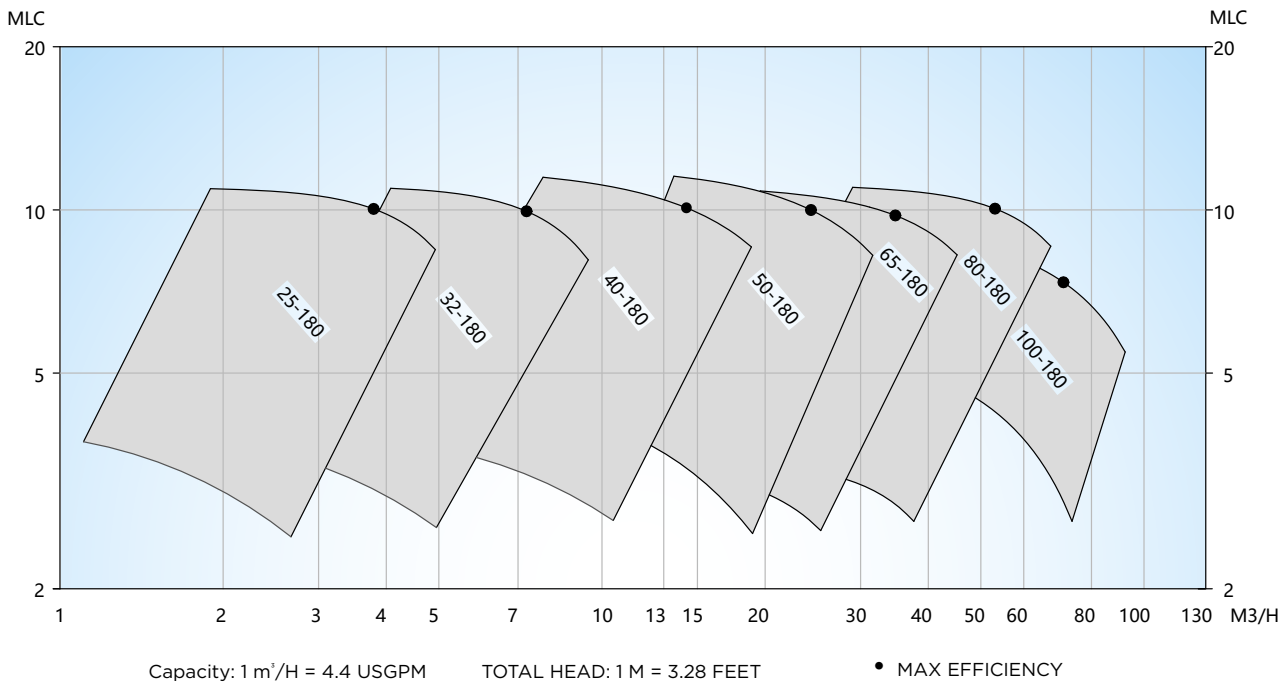




ESL Centrifugal Pump, 960 rpm, **50 HZ**

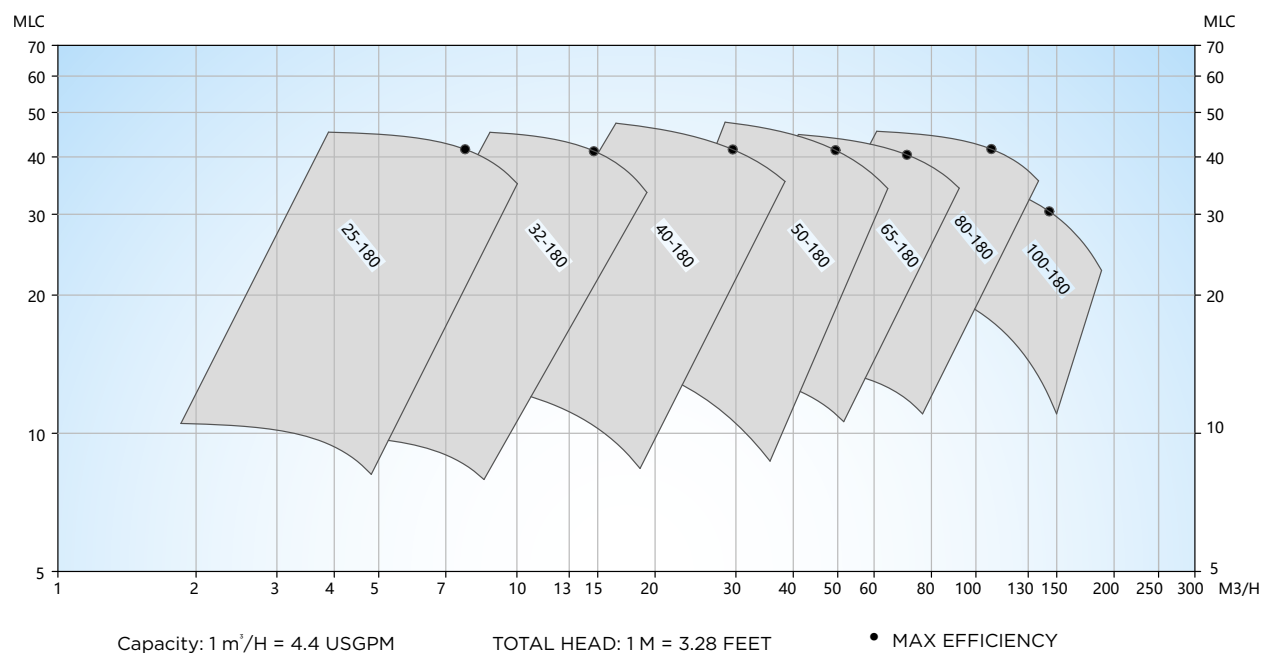


ESL Centrifugal Pump, 1450 rpm, **50 Hz**



DESMI Centrifugal Pumps - ESL

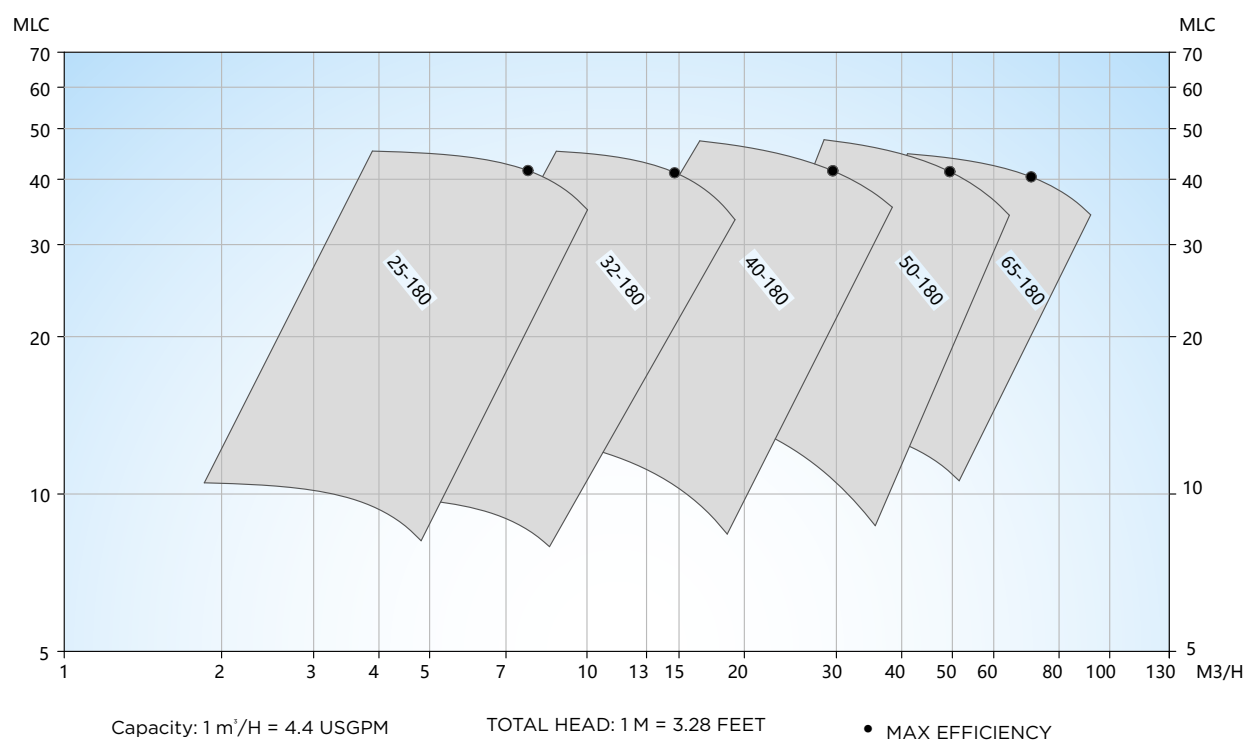
ESL Centrifugal Pump, 2950 rpm, **50 Hz**



DESMI Centrifugal Pumps - ESLHT

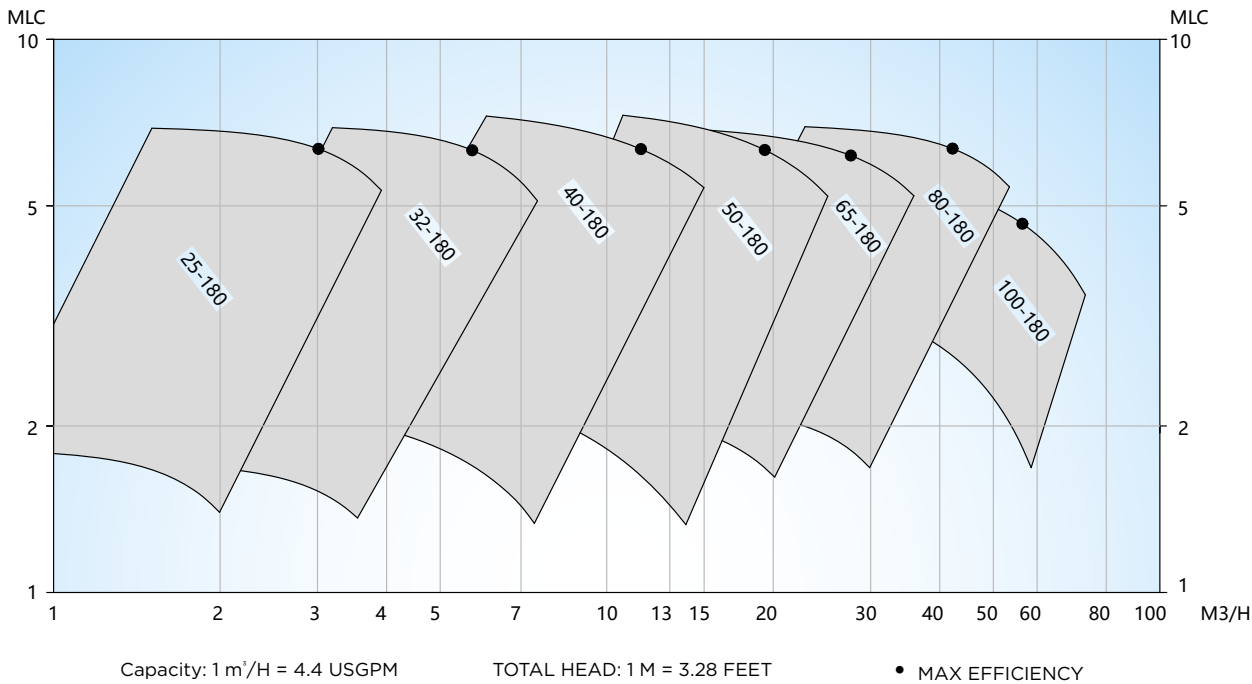


ESLTH Centrifugal Pump, 2950 rpm, **50 Hz**

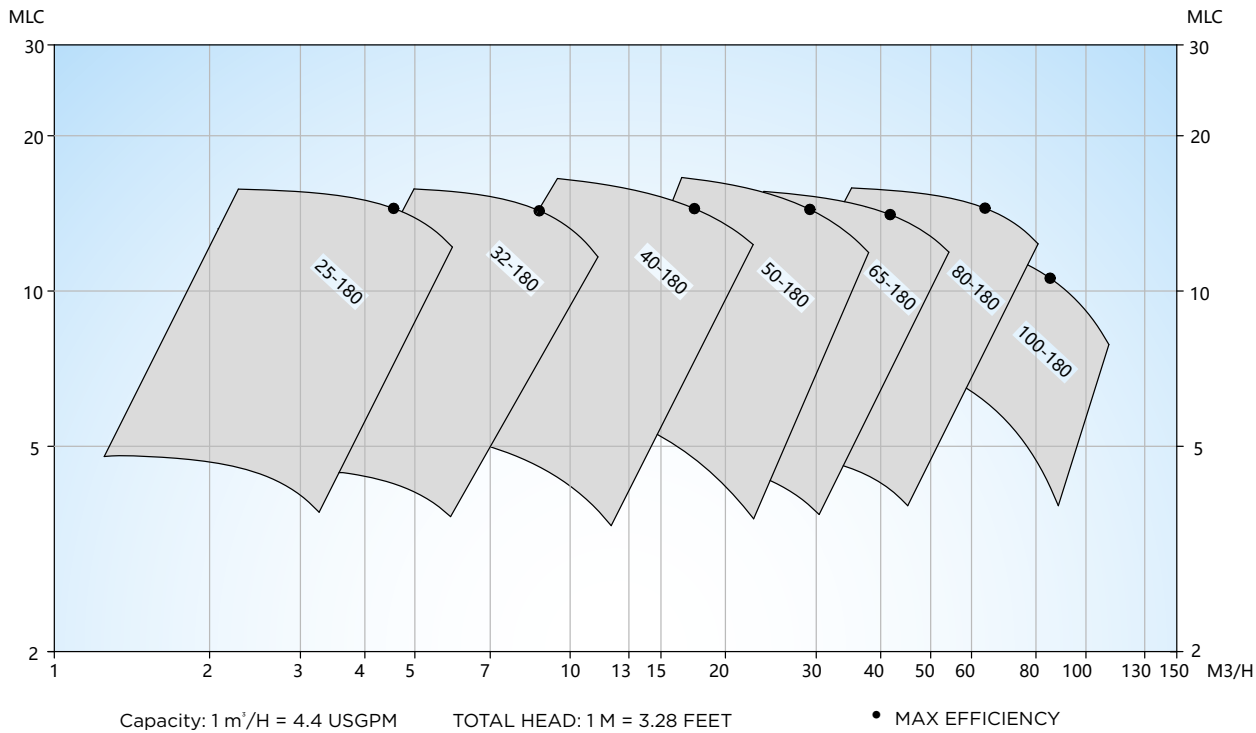




ESL Centrifugal Pump, 1152 rpm, **60 Hz**

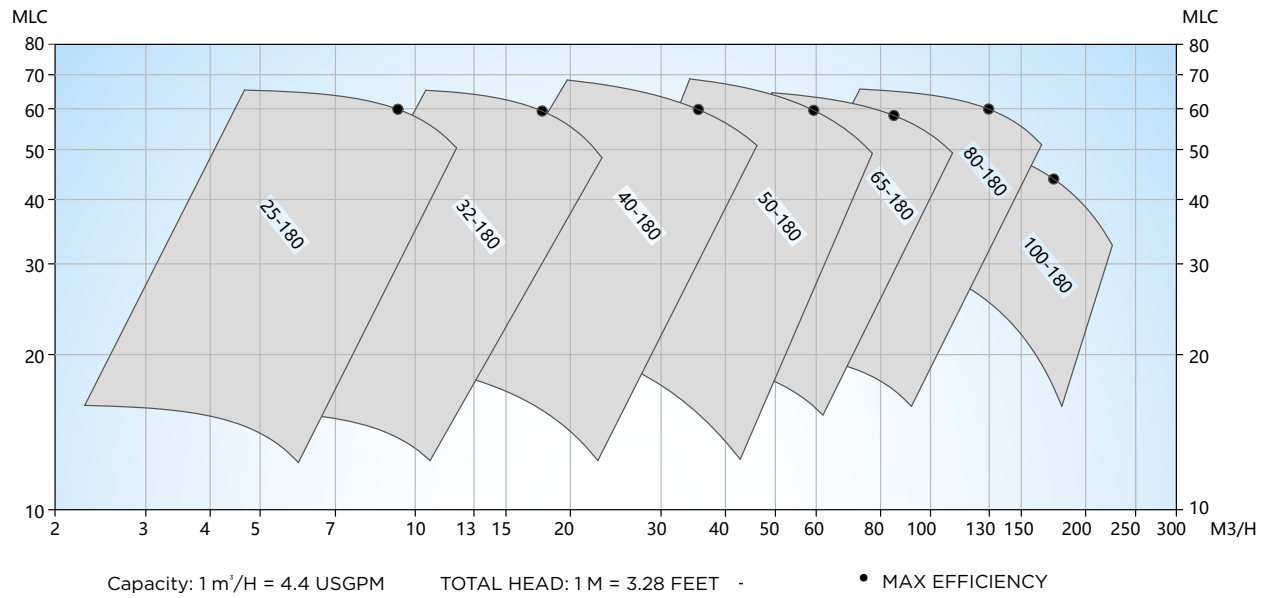


ESL Centrifugal Pump, 1740 rpm, **60 Hz**



DESMI Centrifugal Pumps - ESL

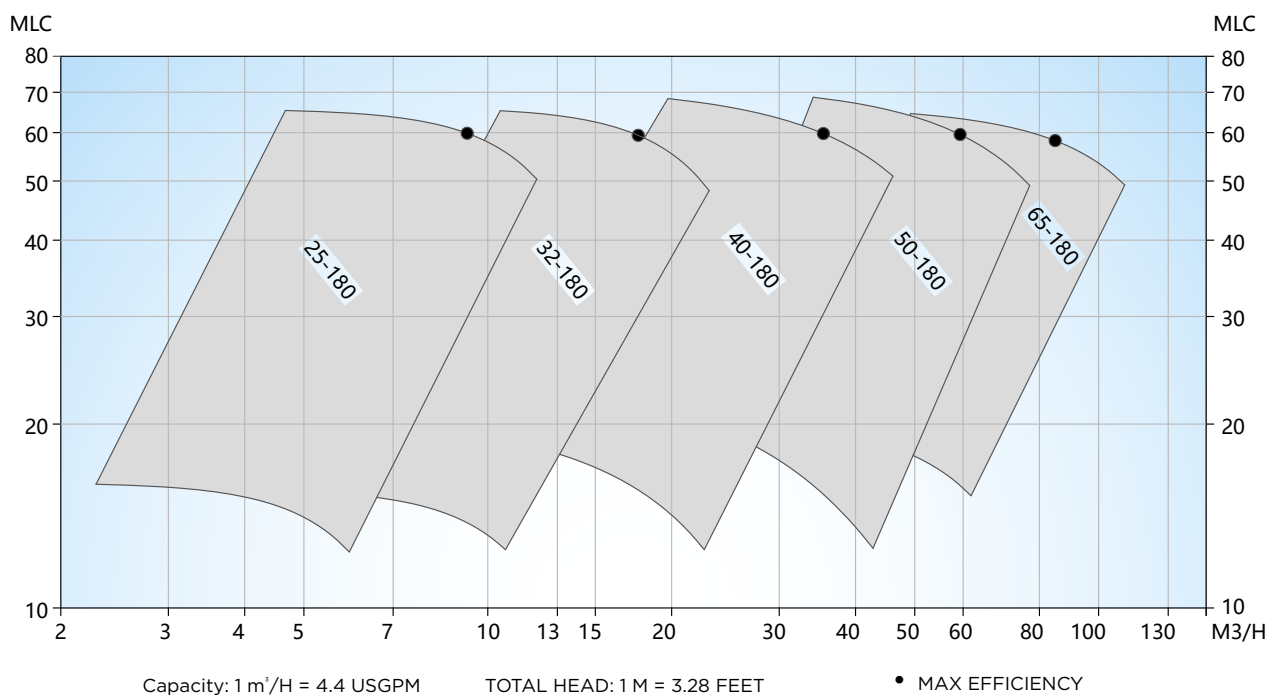
ESL Centrifugal Pump, 3450 rpm, **60 HZ**



DESMI Centrifugal Pumps - ESLHT

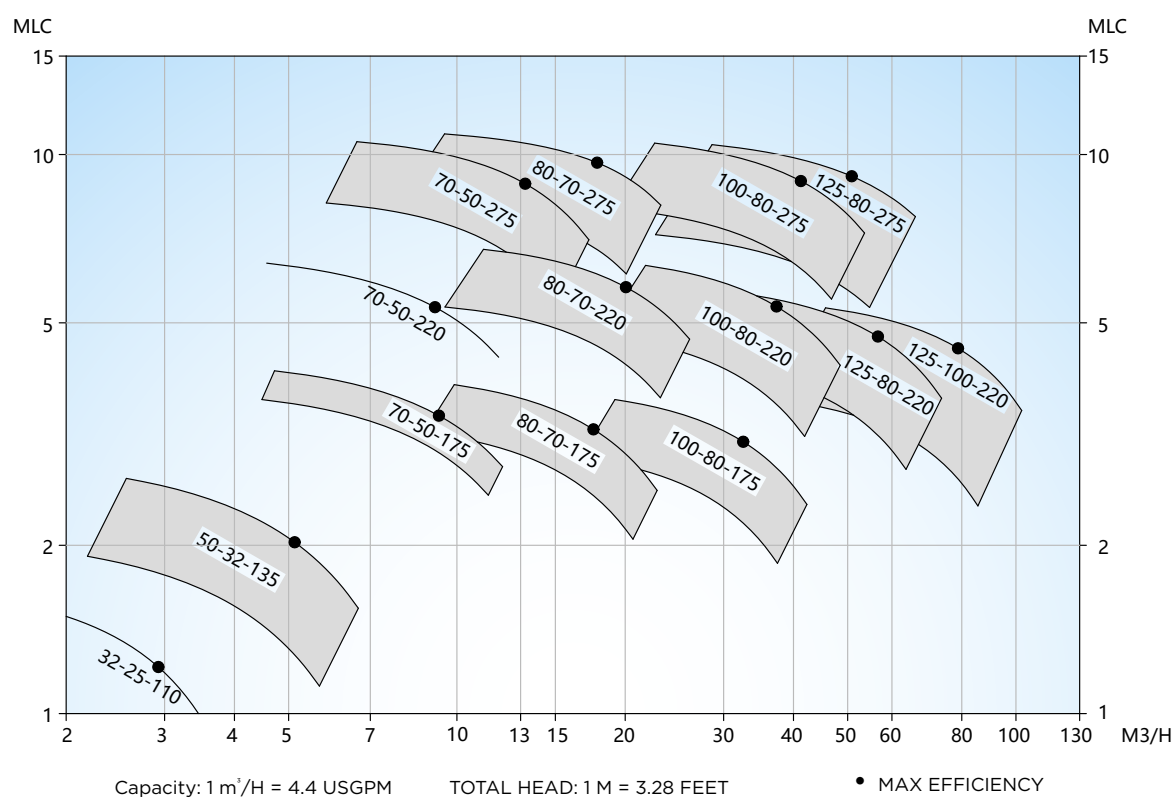


ESLTH Centrifugal Pump, 3450 rpm, **60 HZ**



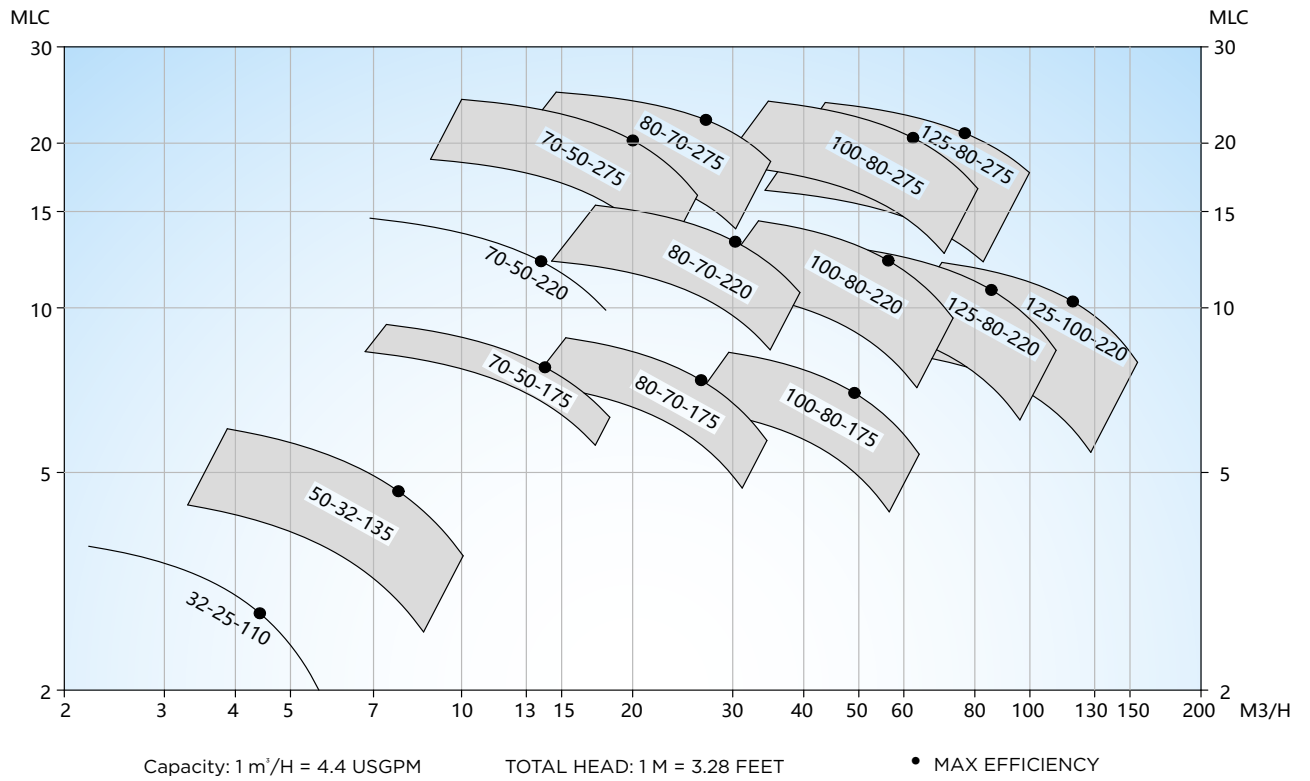


S Centrifugal Pump, 960 rpm, **50 Hz**

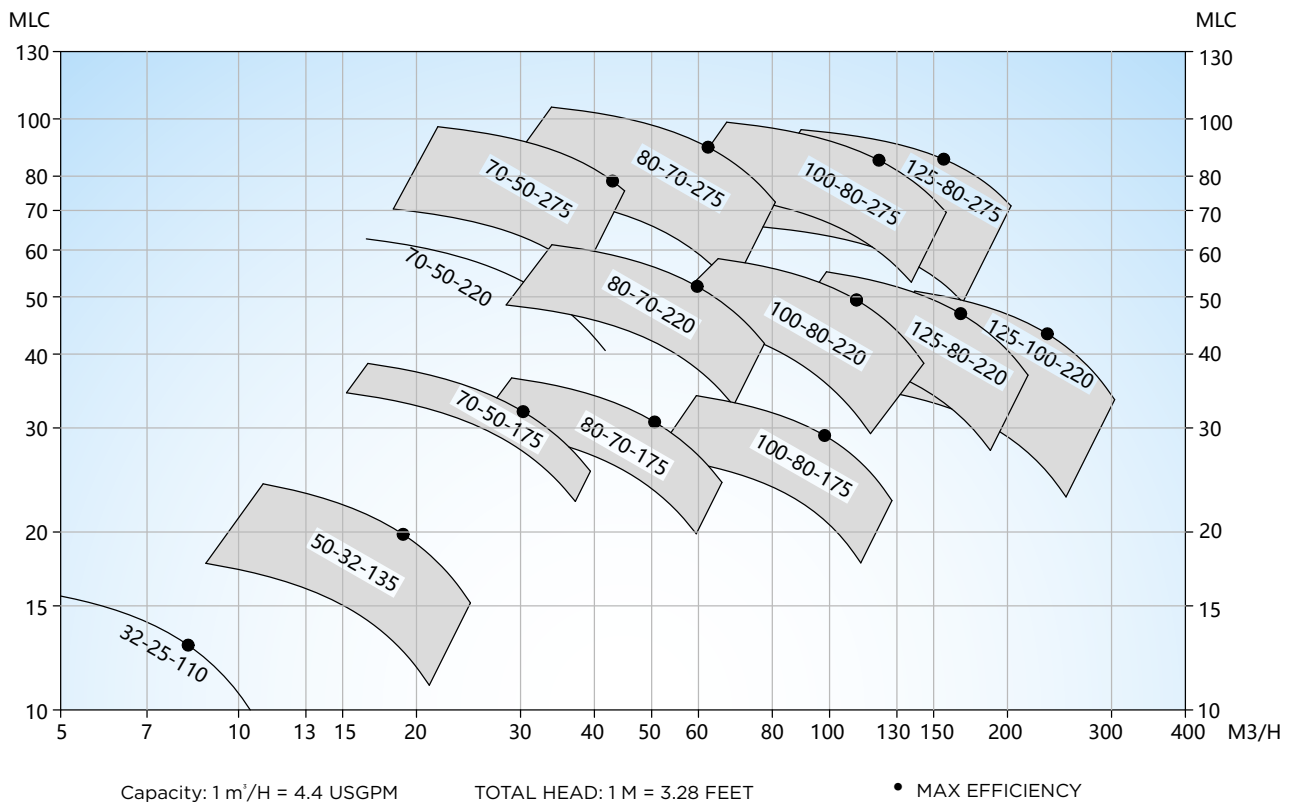


DESMI Centrifugal Pumps - Modular S 50Hz

S Centrifugal Pump, 1450 rpm, **50 Hz**

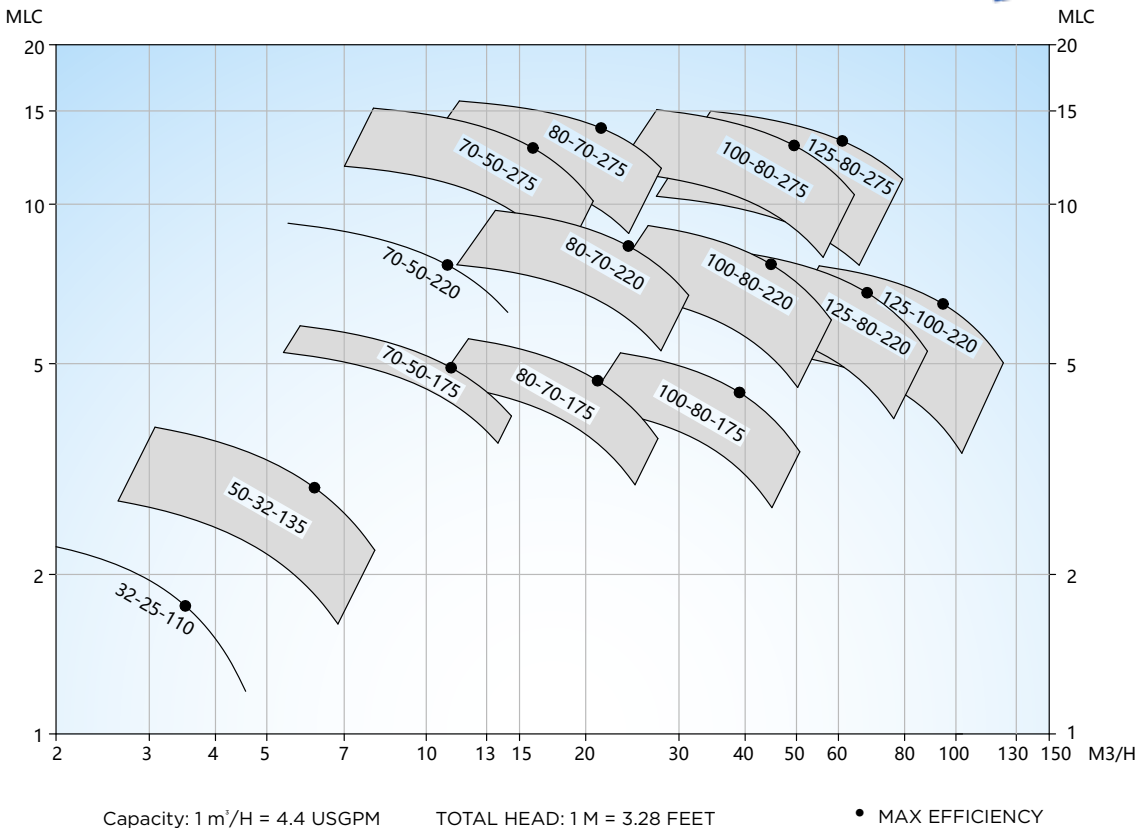


S Centrifugal Pump, 2950 rpm, **50 Hz**

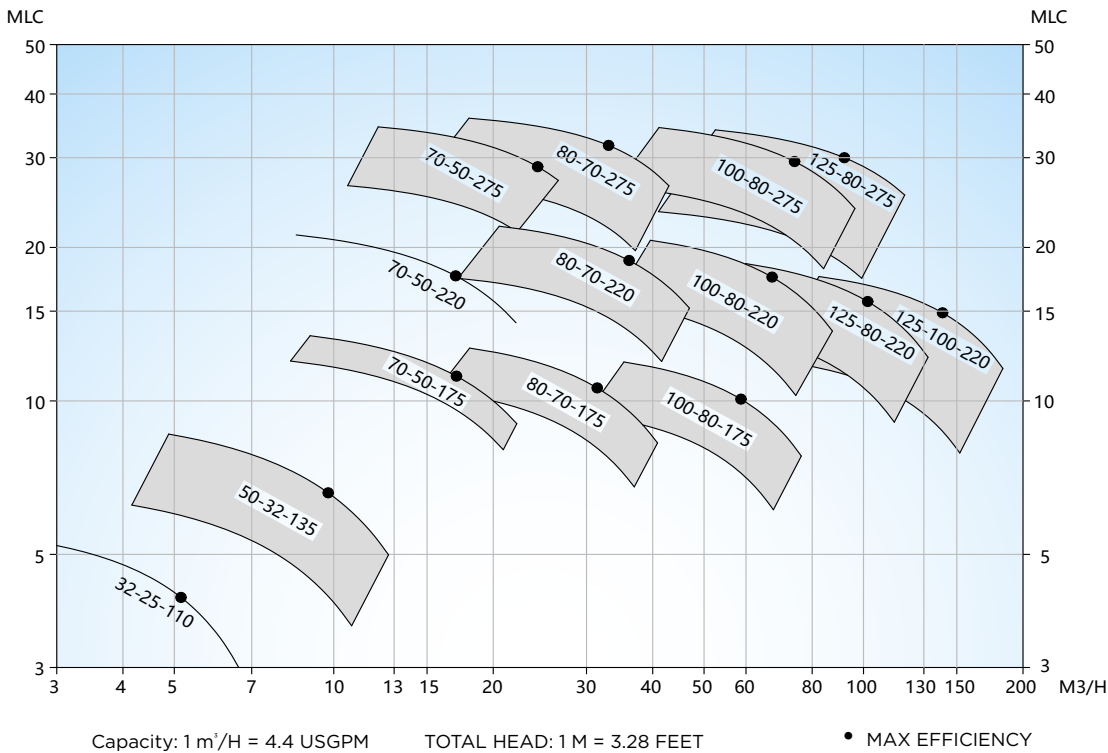




S Centrifugal Pump, 1152 rpm, **60 Hz**

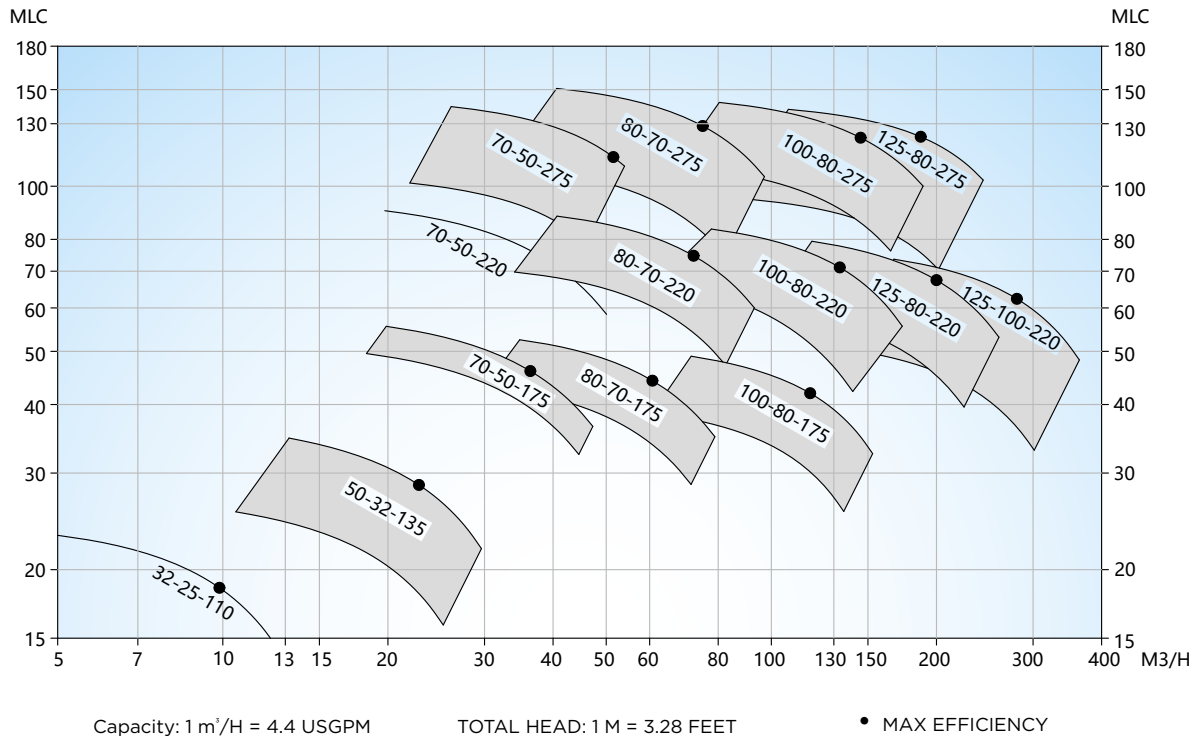


S Centrifugal Pump, 1740 rpm, **60 Hz**



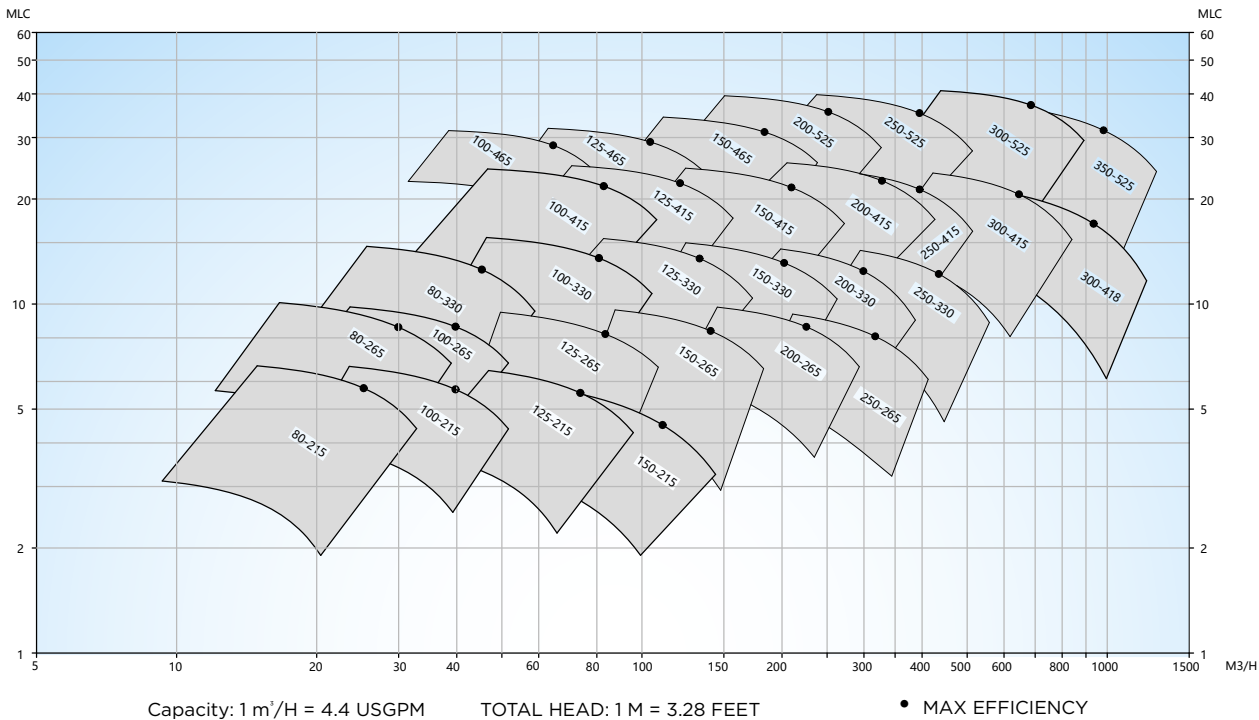
DESMI Centrifugal Pumps - Modular S 60Hz

S Centrifugal Pump, 3450 rpm, **60 Hz**

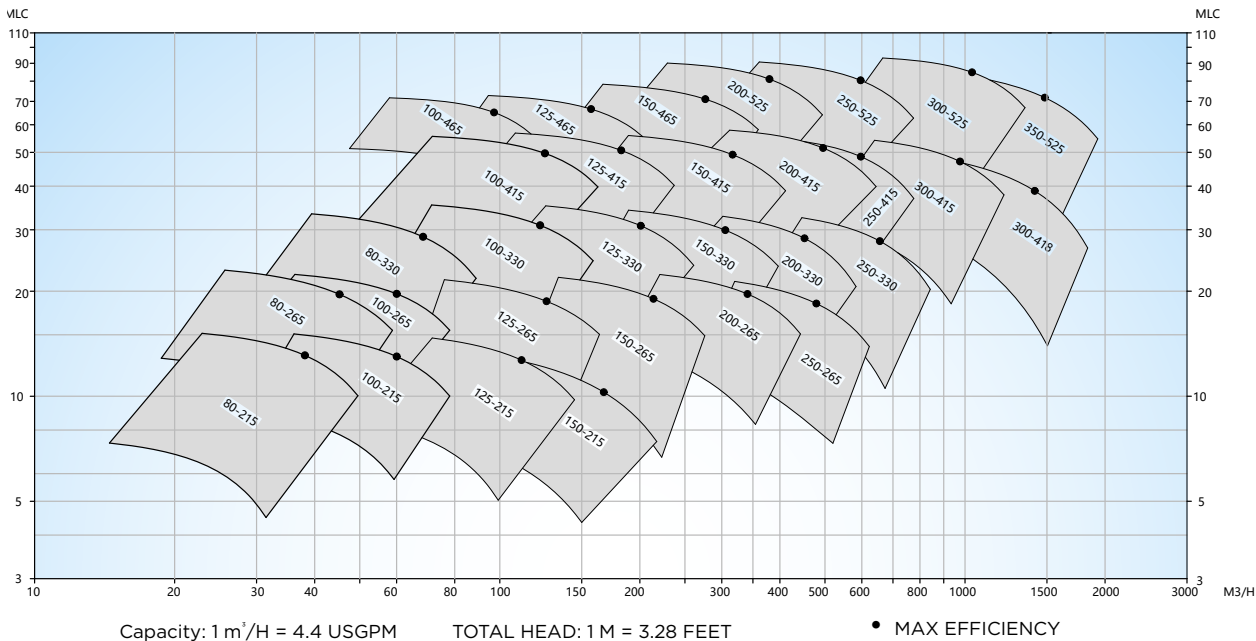




NSL Centrifugal Pump, 960 rpm, **50 HZ**

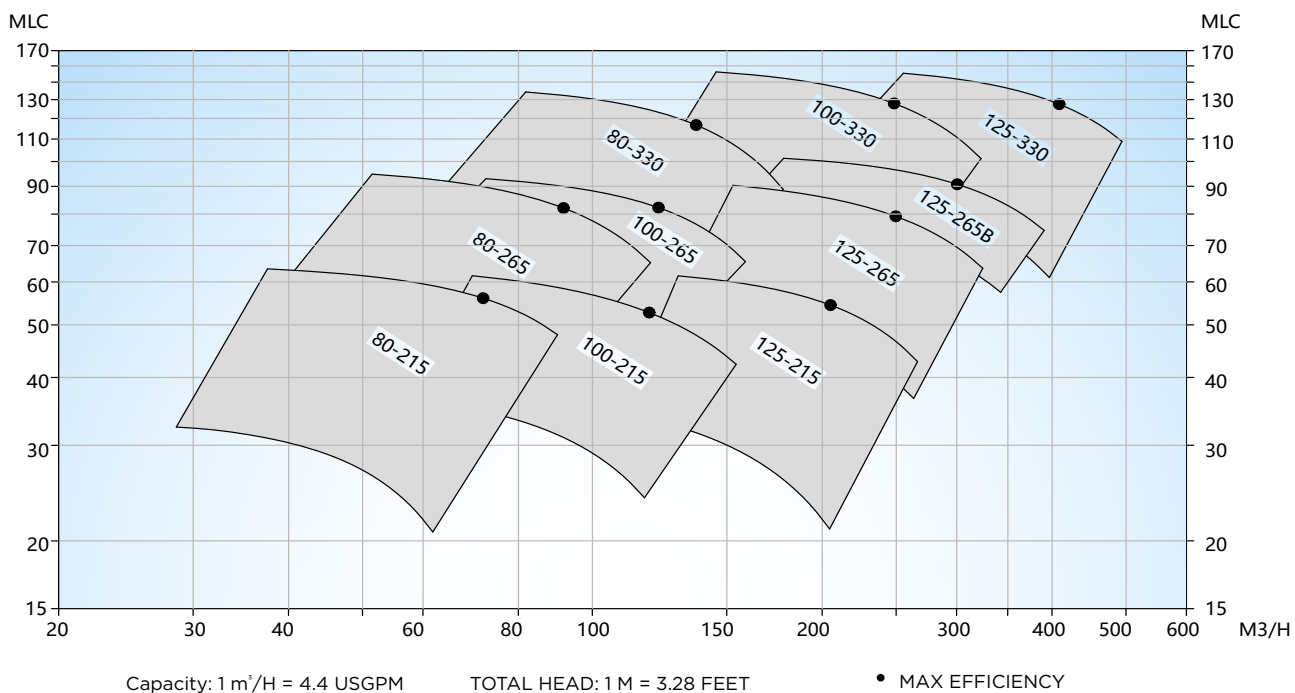


NSL Centrifugal Pump, 1450 rpm, **50 HZ**



DESMI Centrifugal Pumps - NSL 50Hz

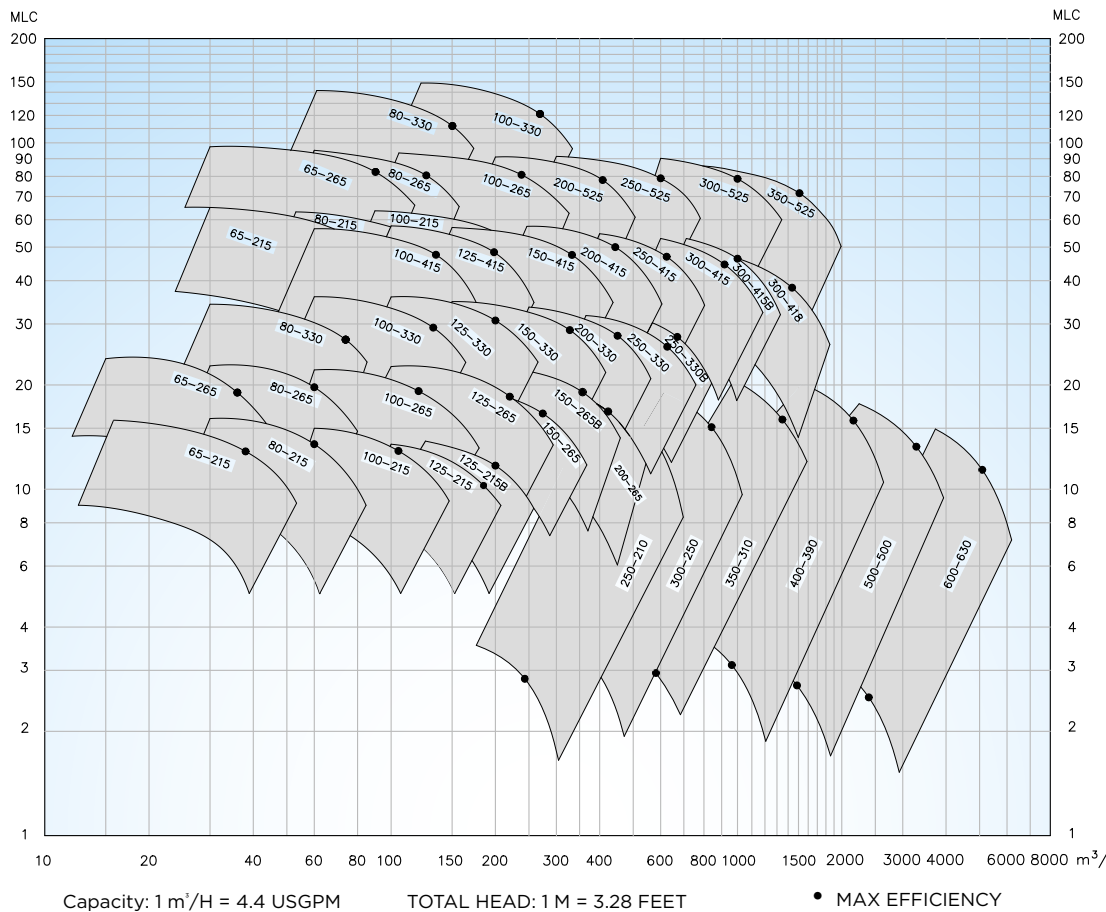
NSL Centrifugal Pump, 2950 rpm, **50 Hz**



DESMI Centrifugal Pumps - NSLV & NSLH 50Hz



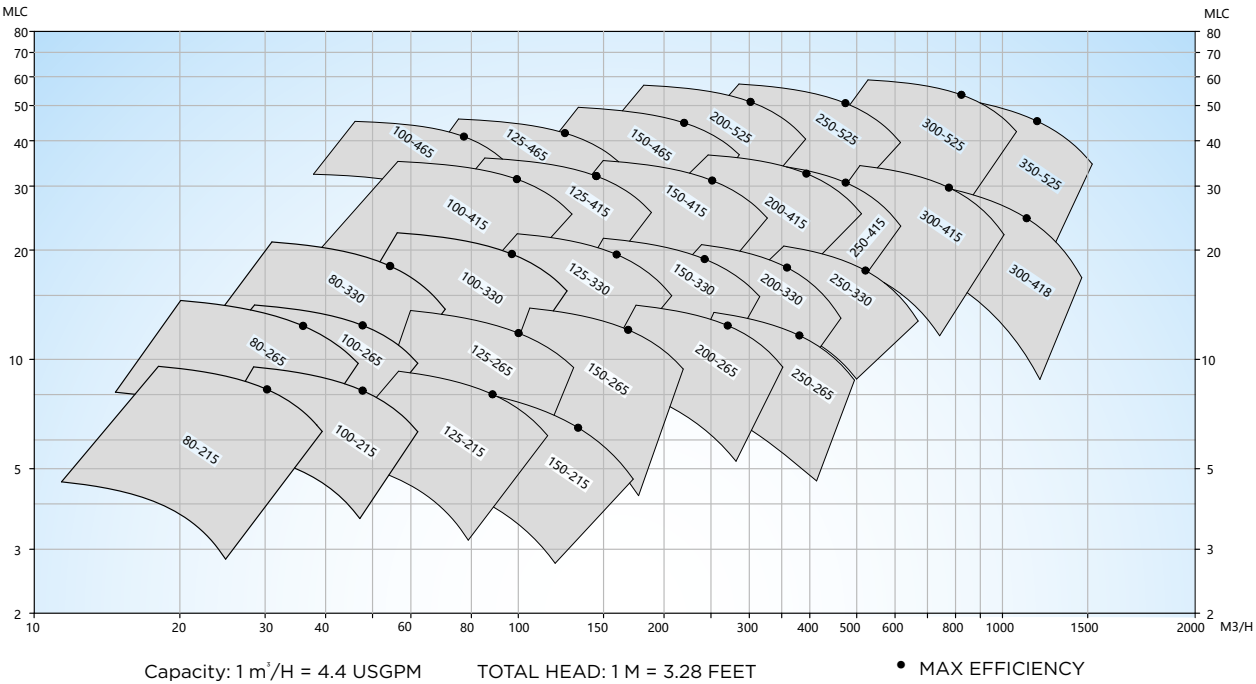
NSLV/NSLH Centrifugal Pump, **50 Hz**



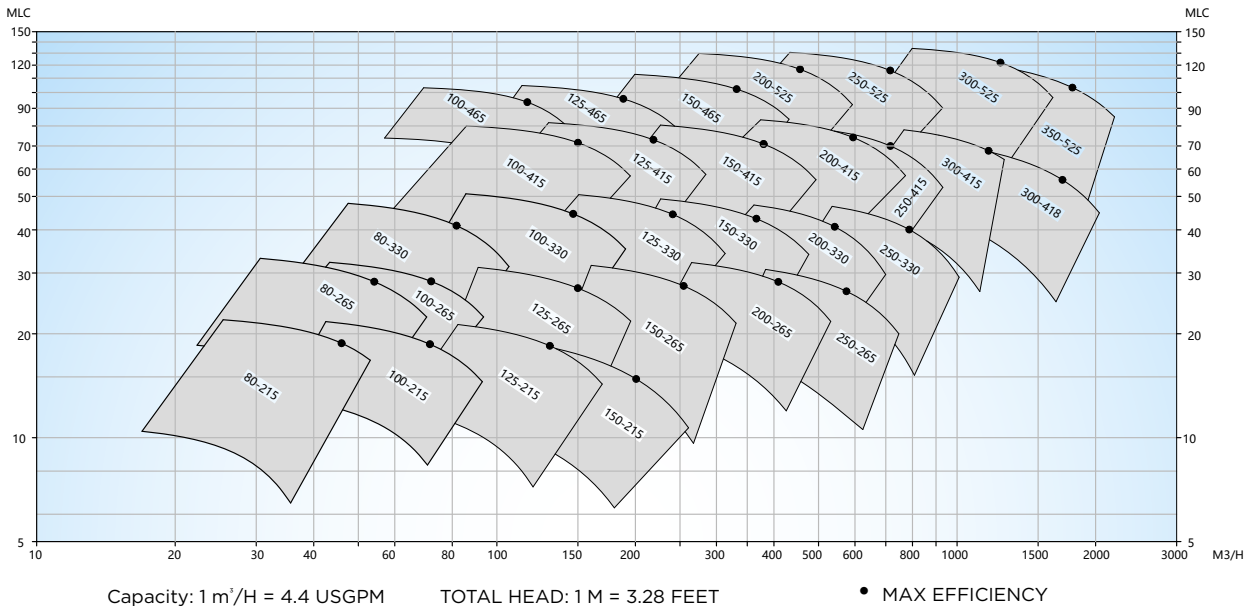
*The pump curve is obtained on variable speed control on full diameter impeller.
These model's maximum rotation speed are different from 1000 rpm to 1850 rpm*



NSL Centrifugal Pump, 1152 rpm, **60 HZ**

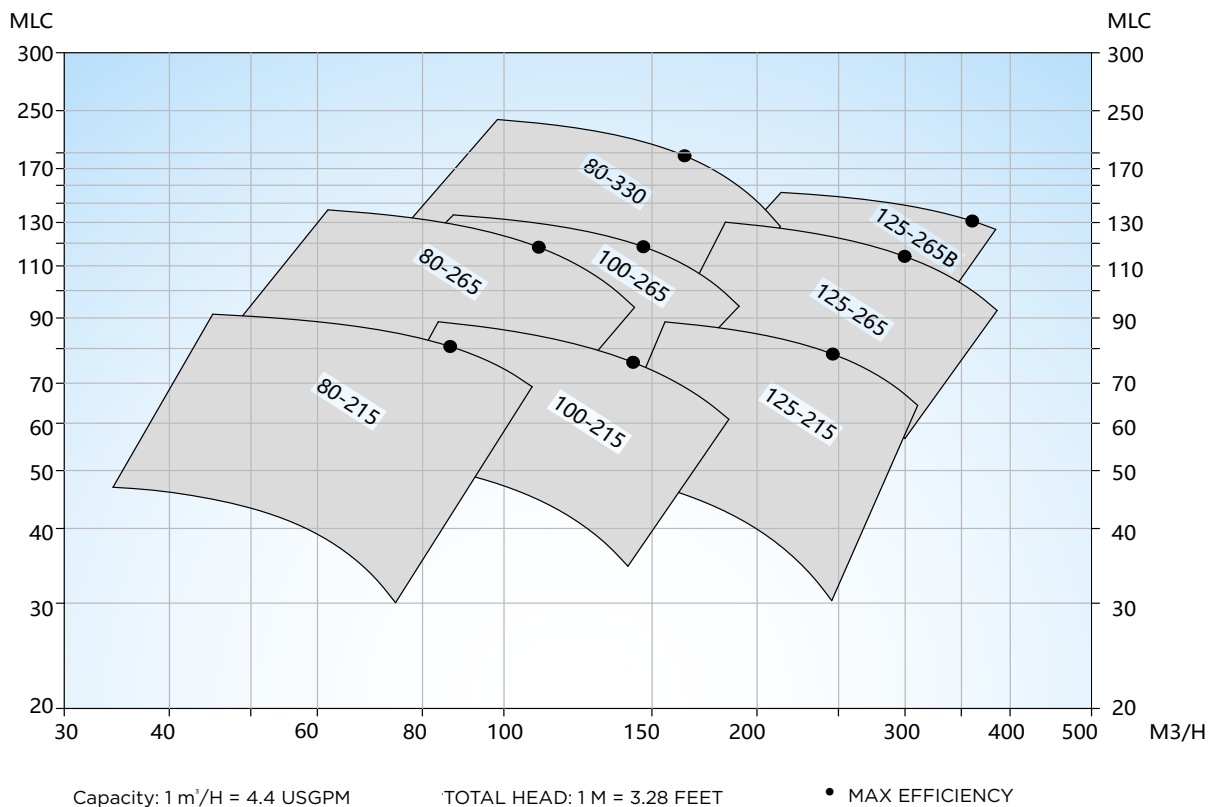


NSL Centrifugal Pump, 1740 rpm, **60 HZ**



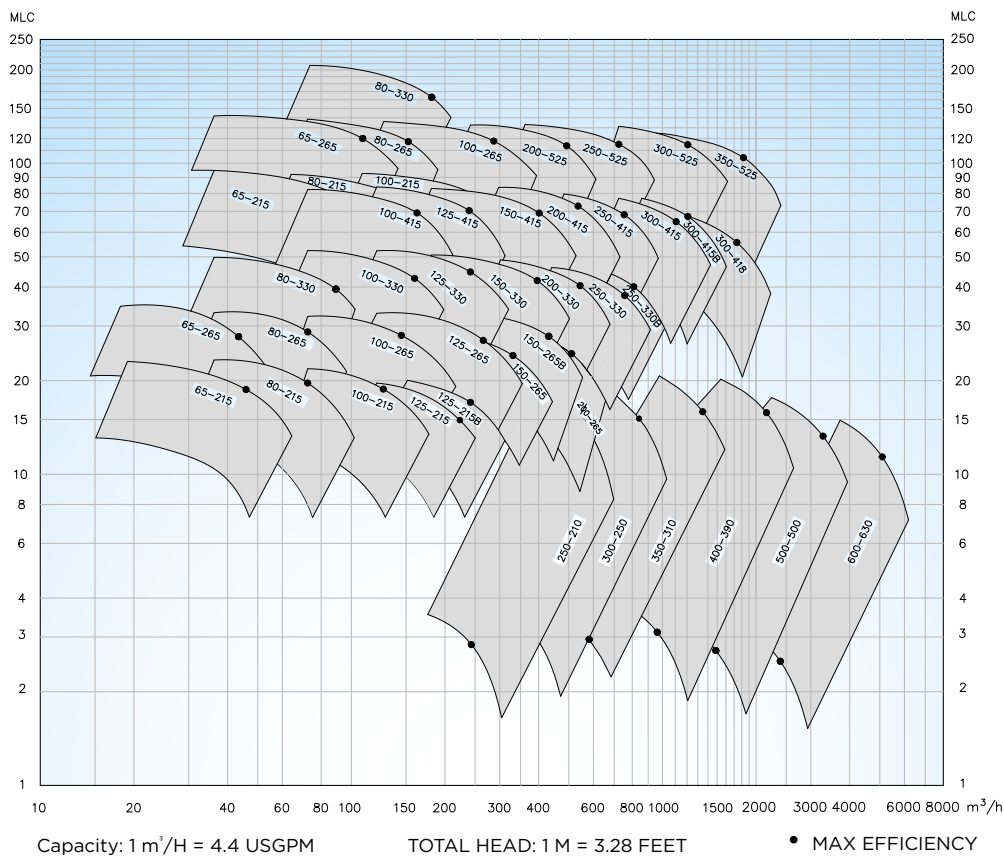
DESMI Centrifugal Pumps - NSL 60Hz

NSL Centrifugal Pump, 3450 rpm, **60 Hz**



DESMI Centrifugal Pumps - NSLV & NSLH 60Hz

NSLV/NSLH Centrifugal Pump, **60 Hz**

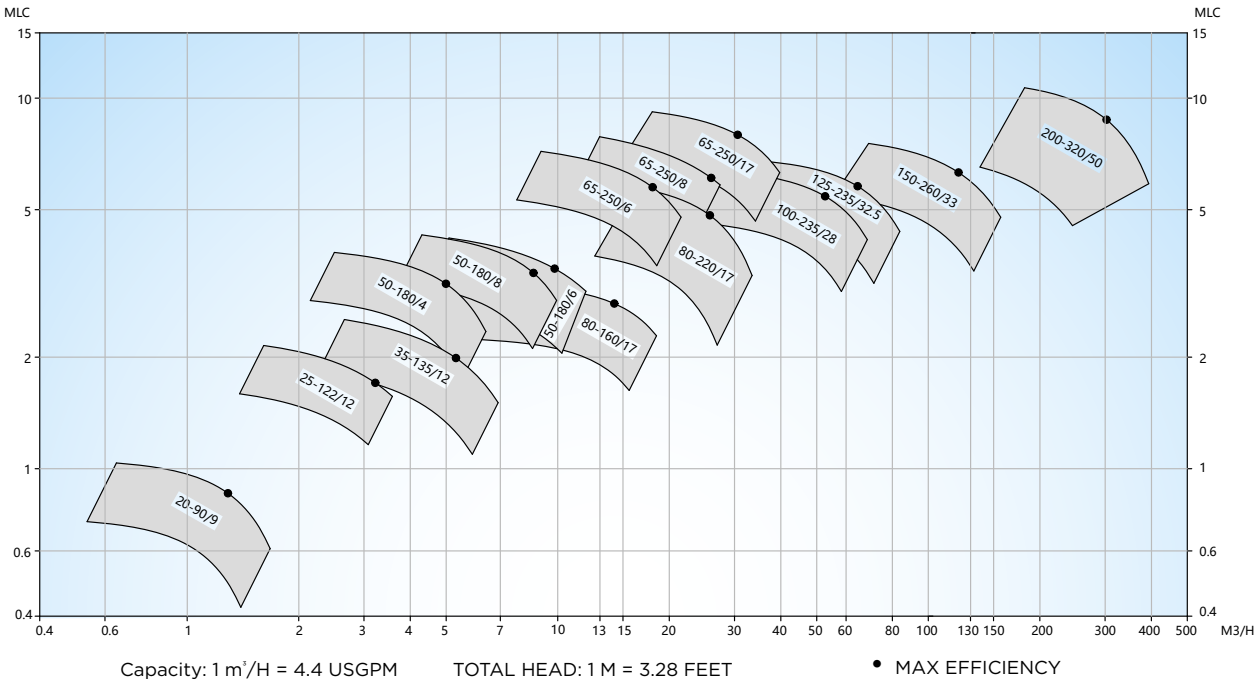


The pump curve is obtained on variable speed control on full diameter impeller.
These model's maximum rotation speed are different from 1000 rpm to 1850 rpm

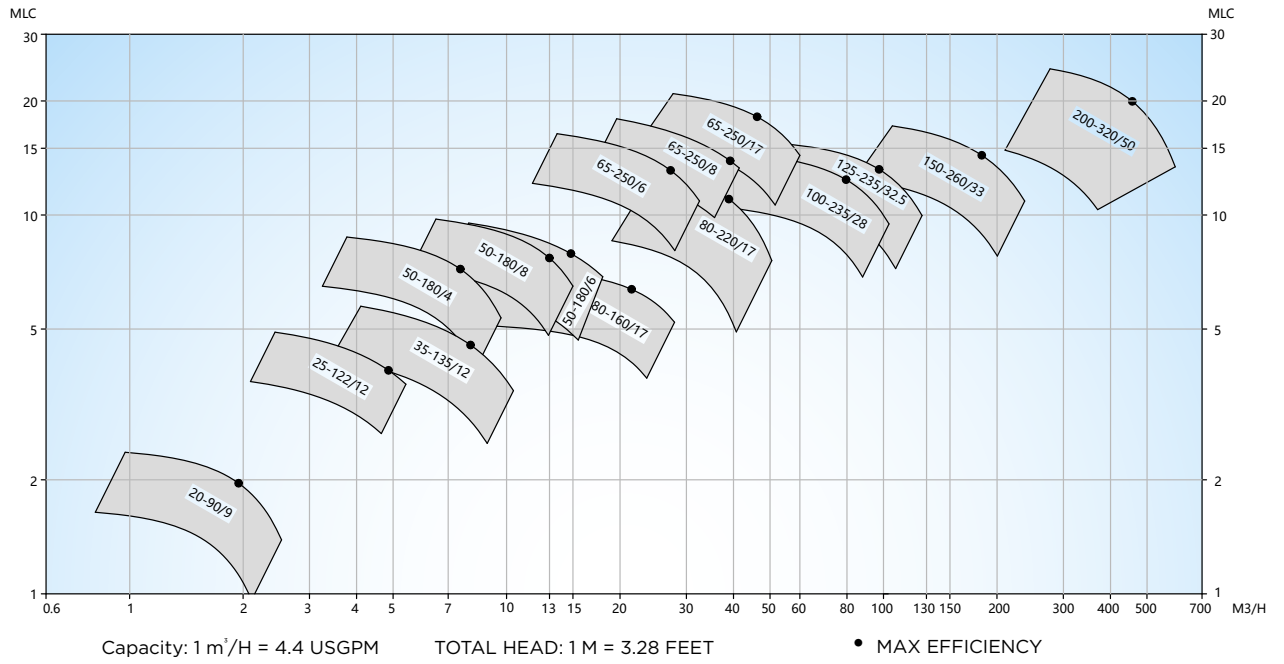
DESMI Centrifugal Pumps - SA 50Hz



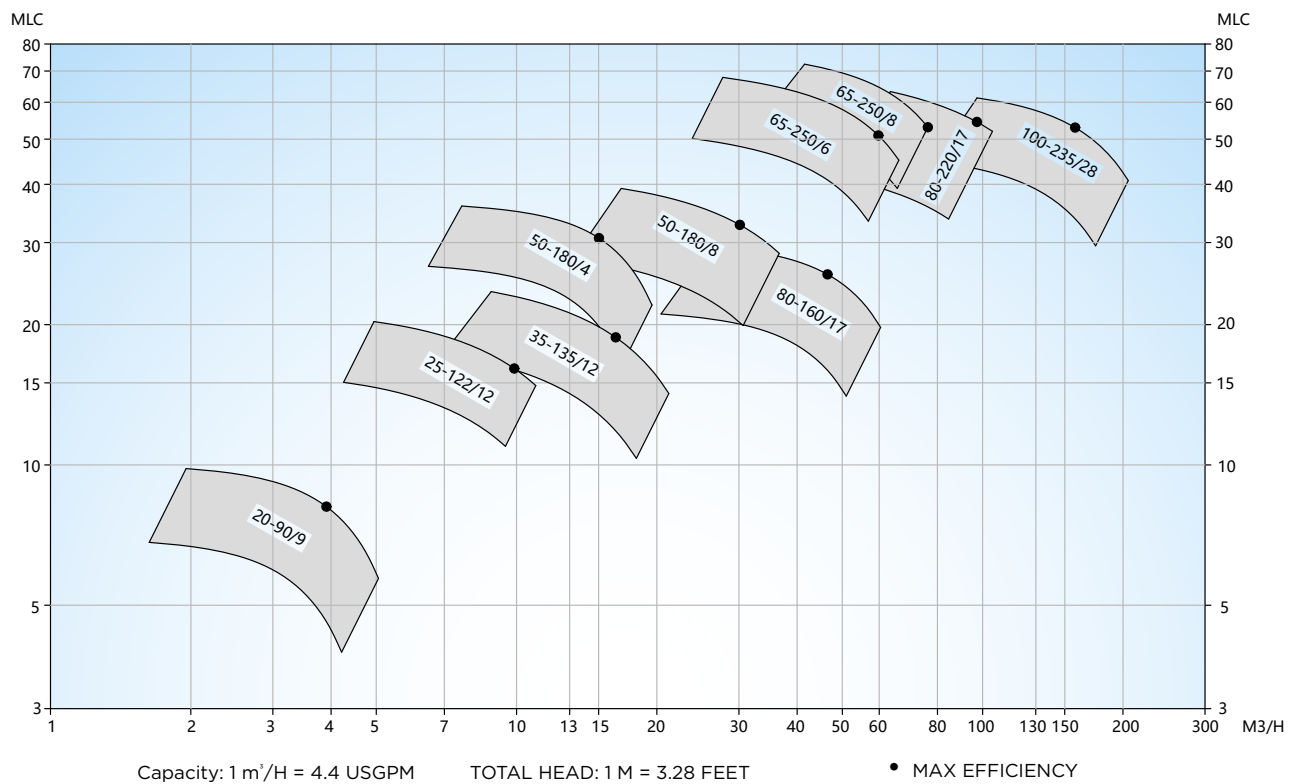
SA Centrifugal Pump, 960 rpm, **50 Hz**



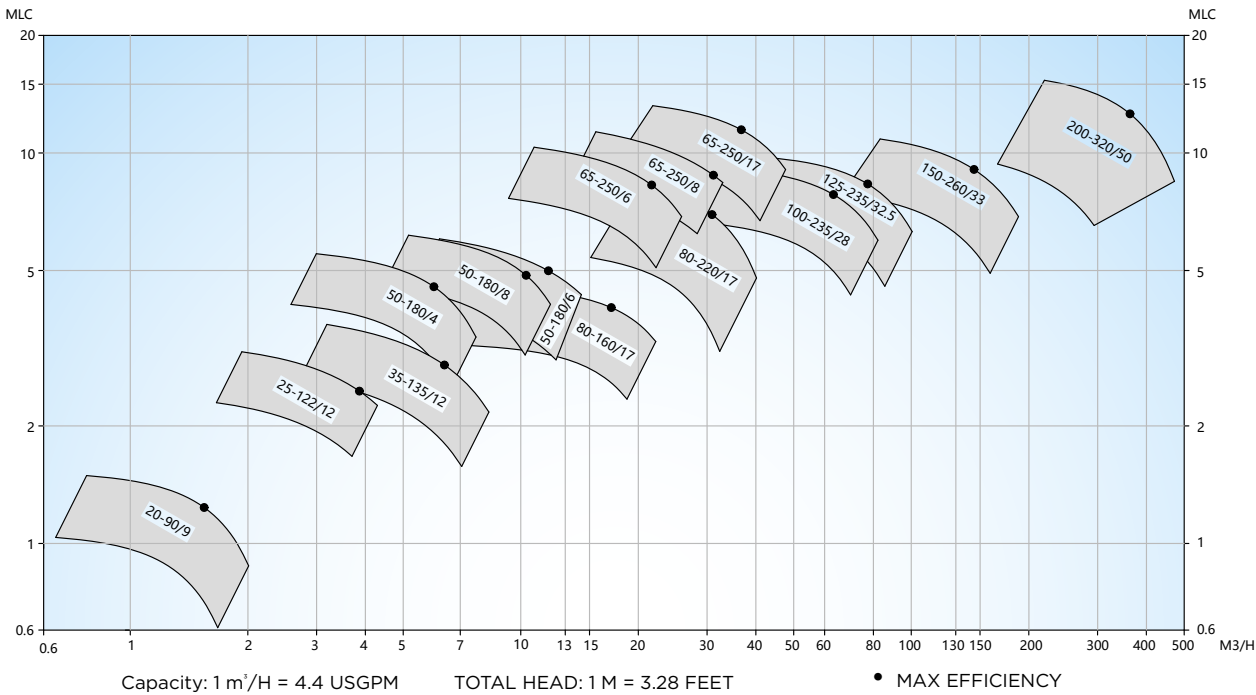
SA Centrifugal Pump, 1450 rpm, **50 Hz**



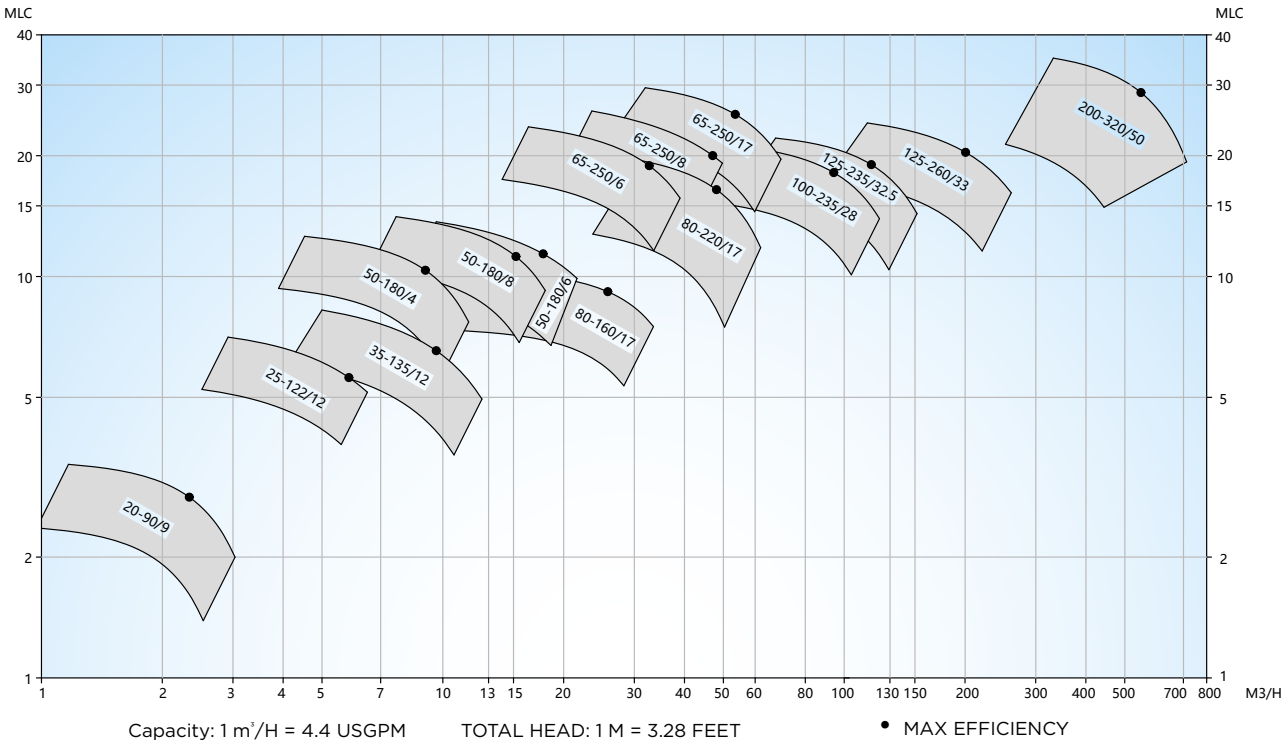
SA Centrifugal Pump, 2950 rpm, **50 Hz**



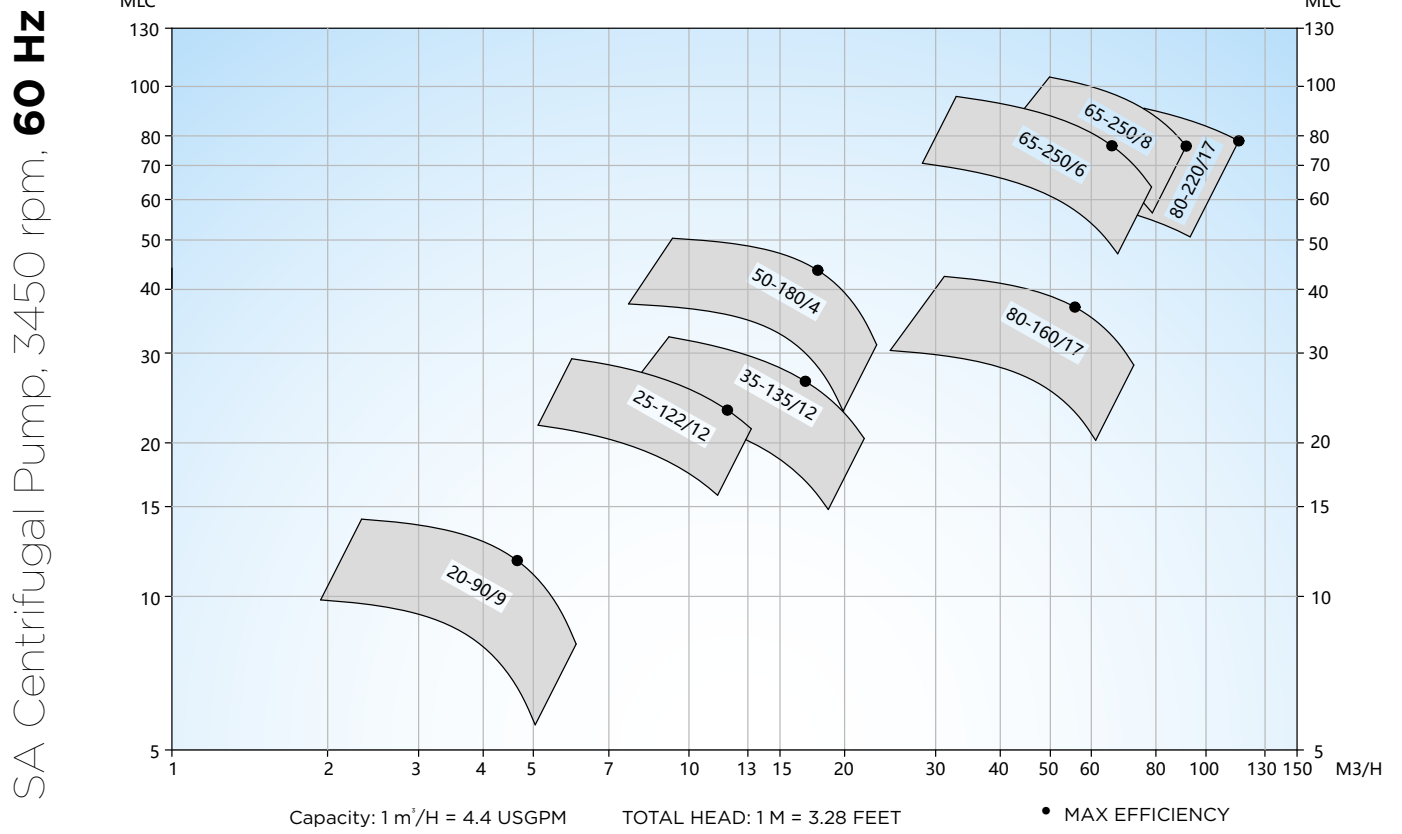
SA Centrifugal Pump, 1152 rpm, **60 HZ**



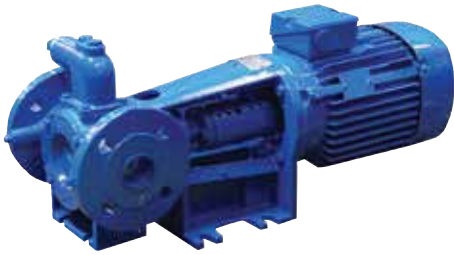
SA Centrifugal Pump, 1740 rpm, **60 HZ**



DESMI Centrifugal Pumps - SA 60Hz







ROTAN® GP



ROTAN® HD



ROTAN® PD



ROTAN® CD



ROTAN® ED



ROTAN® HD 202

Internal Gear Pumps

	ROTAN® GP - General Purpose	ROTAN® HD - Heavy Duty	ROTAN® PD - Petrochemical Duty	ROTAN® CD - Chemical Duty	ROTAN® ED - Environmental Duty
Capacity range	Up to 50 m ³ /h / 220 gpm	Up to 250 m ³ /h / 1100 gpm	Up to 250 m ³ /h / 1100 gpm	Up to 250 m ³ /h / 1100 gpm	Up to 90 m ³ /h / 396 gpm
Speed	Up to 1750 rpm	Up to 1750 rpm	Up to 1750 rpm	Up to 1750 rpm	Up to 1750 rpm
Differential pressure	Up to 16 bar / 232 psi	Up to 16 bar / 232 psi	Up to 16 bar / 232 psi	Up to 16 bar / 232 psi	Up to 16 bar / 232 psi
Suction lift	Up to 0.5 / 7.25 psi bar vacuum while priming Up to 0.8 bar / 11.6 psi vacuum while pumping	Up to 0.5 bar / 7.25 psi vacuum while priming Up to 0.8 bar / 11.6 psi vacuum while pumping	Up to 0.5 bar / 7.25 psi vacuum while priming Up to 0.8 bar / 11.6 psi vacuum while pumping	Up to 0.5 bar / 7.25 psi vacuum while priming Up to 0.8 bar / 11.6 psi vacuum while pumping	Up to 0.5 bar / 7.25 psi vacuum while priming Up to 0.8 bar / 11.6 psi vacuum while pumping
Viscosity range	Up to 7,500 cSt	Up to 250,000 cSt	Up to 250,000 cSt	Up to 250,000 cSt	Up to 10,000 cSt
Temperature	Up to 150°C / 302°F	Up to 250°C / 482°F	Up to 250°C / 482°F	Up to 250°C / 482°F	Up to 250°C / 482°F
Pump medium:	Clean oil, glycol, vegetable oil, solvents, lube oil, waste oil, fish oil, also for marine fuel, diesel, gas, and lube oil.	Oil, asphalt, chocolate, paint/lacquer, molasses, soap, additive, polyol, viscose, sulphate soap, maltose, grease, pitch, base oil, bitumen, polyester, also for marine fuel, diesel, gas, and lube oil.	Fuel, oil, gasoline, lube oil, grease, other hydrocarbon based fluids, additives, bitumen, polystyrene, wax	Organic acid, fatty acid, alkali, caustic soda, polymer solutions, soap, shampoo, animal fat, vegetable fat, chocolate, other special fluids, resin, paint, rosin	Isocyanate, solvents hazardous organic liquids, printing ink, resin, pitch, alkyd resin, soyabean oil, linseed oil, monomers, polyol, corn syrup, also for marine fuel, diesel, gas, and lube oil.



AFTER SALES & SERVICE

DESMI always strives to provide our customers with the very best service! That's why we have established DESMI DeServe - your guarantee for an excellent service 24/7/365.

24-hour hotline: +45 96 32 81 10

Service: service@desmi.com

Spare Parts: spareparts@desmi.com



DESMI Genuine Spare Parts Kits for Simple Overhaul and Service

DESMI provides spare parts kits for easy and simple maintenance and overhaul of your pumps. We offer a variety of spare parts kits for a number of DESMI pump series.

To determine which spare parts kit you need and to provide you with the best service, we need to have the following information:

- Pump type (e.g. NSL 150-265)
- Serial number (e.g. 323249 or 30192-1)

Spare Parts Kits include:

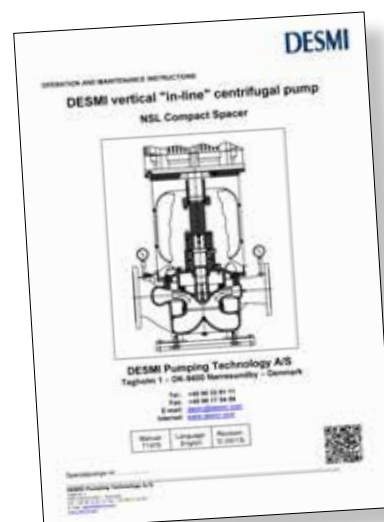
- Mechanical shaft seal
- Special tool
- Bearings
- O-rings
- Gaskets
- Washers & nuts
- Item list
- Etc.



Overhaul videos at
www.desmi.com/overhaul.aspx



Parts numbers and flyers at
www.desmi.com/parts.aspx



Manuals at
www.desmi.com/after-sales

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- DESMI Dealers/Agents

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DEFENCE & FUEL

UTILITY