



Industry / Utility

Pump Solutions

Industry / Utility

DESMI
Make life flow

DESMI pump solutions

DESMI is co-operating with our 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 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 Centrifugal Pumps



ESLH



ESL

Single-stage, End-suction

Vertical In-line / Horizontal end-suction centrifugal pump ESL / ESLH	
Norminal Diameter (DN)	25 to 100
Flow rate - 50 Hz	Up to 200 m ³ /h (880 US gpm)
Flow rate - 60 Hz	Up to 250 m ³ /h (1100 US gpm)
Head	Up to 65 m (213 ft)
Pressure	Up to 30 bar (435 psi)
Temperature	Up to 140°C (284 °F)
Motor	Standard and Ex motor
VFD	Direct or Bulkead/Wall-mounted

Applications:

Water, water with additives, seawater and oils up to 500 cSt.



ESLHT

Horizontal, End-suction

Horizontal end-suction centrifugal pump ESLHT	
Norminal Diameter (DN)	25 to 65
Flow rate - 50 Hz	Up to 100 m ³ /h (440 US gpm)
Flow rate - 60 Hz	Up to 120 m ³ /h (530 US gpm)
Head	Up to 65m (213 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.



NSL Horizontal



NSL

In-line, Vertical & Horizontal

Vertical & horizontal in-line centrifugal pump NSL	
Norminal Diameter (DN)	80 to 350
Flow rate - 50 Hz	Up to 2000 m ³ /h (8800 US gpm)
Flow rate - 60 Hz	Up to 2400 m ³ /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.



NSLH



NSLV

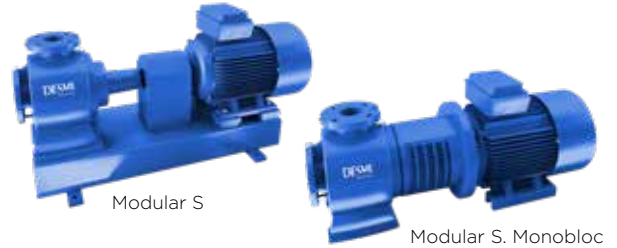
End-suction

Vertical and horizontal end-suction centrifugal pump NSLV / NSLH	
Norminal Diameter (DN)	80 to 400
Flow rate - 50 Hz	Up to 6200 m ³ /h (27300 US gpm)
Flow rate - 60 Hz	Up to 5900m ³ /h (26000 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 motor
VFD	Direct or Bulkead/Wall-mounted
ATEX approved	

Applications:

Water, water with additives, seawater and oils up to 500 cSt.

DESMI Centrifugal Pumps



Double Suction, In-line

Horizontal end-suction centrifugal pump DSL	
Norminal Diameter (DN)	150 to 600
Flow rate - 50 Hz	Up to 6200 m ³ /h (27,300 US gpm)
Flow rate - 60 Hz	Up to 7400 m ³ /h (32,580 US gpm)
Head	Up to 140m (459 ft)
Pressure	Up to 25 bar (363 psi)
Temperature	Up to 140°C (284 °F)
Motor	Standard and Ex motor
VFD	Wall-mounted
ATEX approved	

Applications:

Water with additives and seawater.

Self-priming

Self-priming centrifugal pump Modular S	
Norminal 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 Bulkead/Wall-mounted
ATEX approved	

Applications:

Water, water with additives, seawater and oils up to 500 cSt.

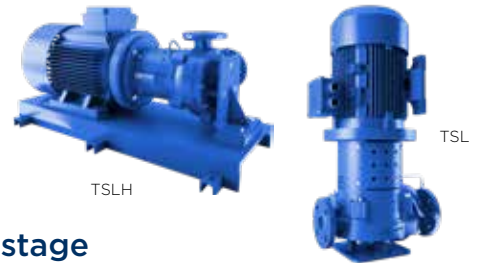


Self-priming

Horizontal self-priming centrifugal pump SA / SAEN	
Norminal 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 Bulkead/Wall-mounted

Applications:

Water, water with additives, seawater and oils up to 500 cSt.



Two-stage

Vertical in-line / Horizontal Two-stage Centrifugal Pump TSL & TSLH	
Norminal Diameter (DN)	40 & 50
Flow rate - 50 Hz	Up to 40 m ³ /h (180 US gpm)
Flow rate - 60 Hz	Up to 48 m ³ /h (210 US gpm)
Head	Up to 135 m (440 ft)
Pressure	Up to 16 bar (230 psi)
Temperature	Up to 140°C (284 °F)
Motor	Standard and Ex motor
VFD	Direct or Bulkead/Wall-mounted

Applications: Boiler water supply, Ballast water backflush, Sprinkler, Fire water jockey, EGCS demist cleaning, Industrial cleaning, Water treatment and filtration

DESMI Centrifugal Pumps (High Flow - Low Pressure)



Vertical, End-suction

Vertical End-suction Pump - High Flow - Low Pressure centrifugal pump NSLV	
Norminal Diameter (DN)	250 to 600
Flow rate	175 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 motor)
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.

Horizontal, End-suction

Horizontal End-Suction centrifugal pump NSLH	
Norminal Diameter (DN)	250 to 600
Flow rate	175 to 6,400 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 motor)
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 Centrifugal Pumps - Magnetically Driven

Magdrive Pump

Vertical In-line Single Suction Centrifugal Pump NSL	
Norminal Diameter (DN)	25 to 100
Flow rate - 50 Hz	Up to 150 m ³ /h (660 US gpm)
Flow rate - 60 Hz	Up to 180 m ³ /h (800 US gpm)
Head	Up to 130 m (430 ft)
Pressure	Up to 16 bar
Temperature	Min. -40°C / Max. 120°C
Motor	Standard and Ex motor
Viscosity Range	Min. 0.3 / Max. 300 cSt

ATEX approved

Common Applications:
Where no pumping medium leakage is allowed

Pumping of: Methanol, Ethanol, Hydrocarbons (fuels), Ammonia & Amine/Water Mixtures.

Note:

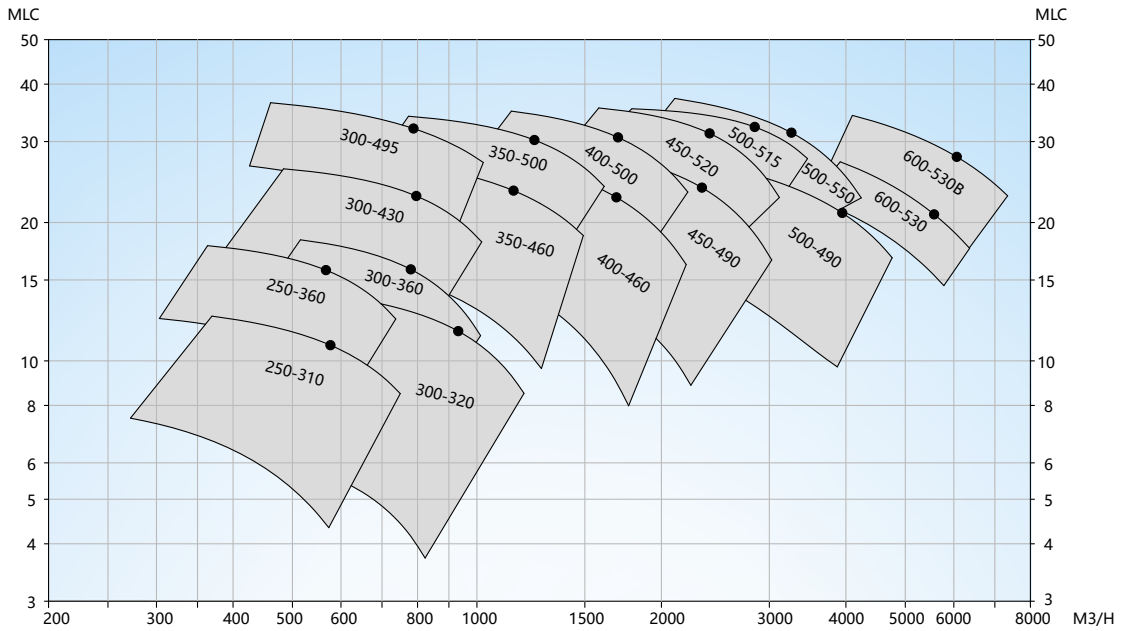
The pumps are designed for pumping liquids without solid/clogging particles. These could cause premature failure of the pump bearings and/or mag-drive.





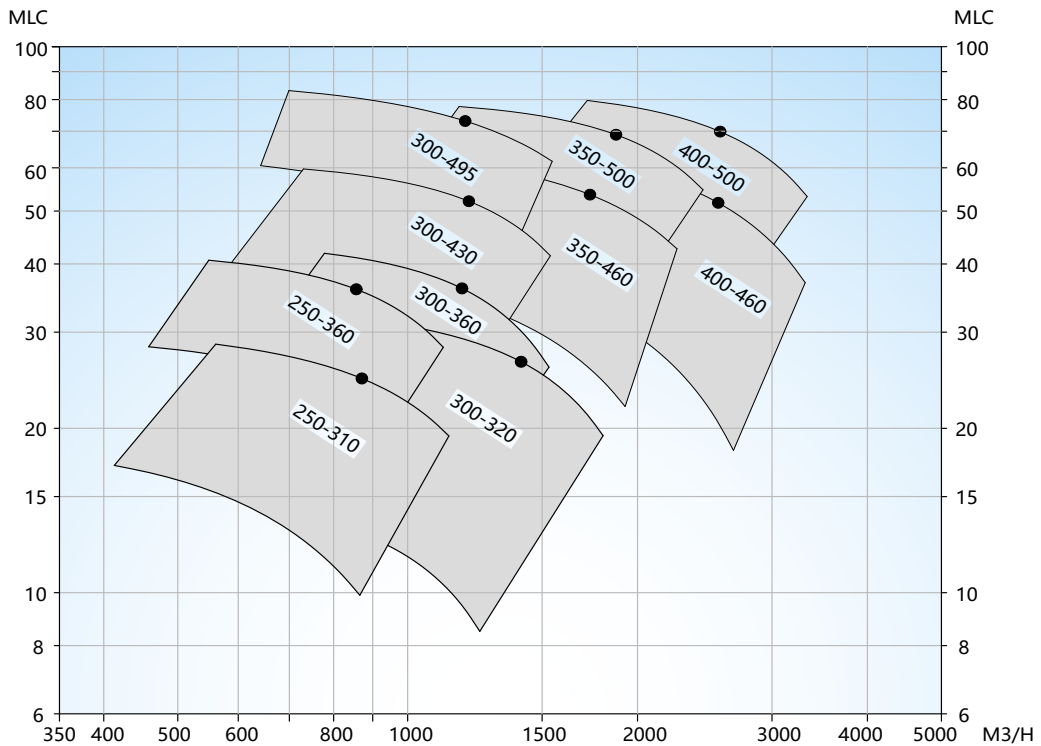
DESMI Centrifugal Pumps - DSL 50Hz

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



Capacity: 1 m³/H = 4.4 USGPM TOTAL HEAD: 1 M = 3.28 FEET • MAX EFFICIENCY

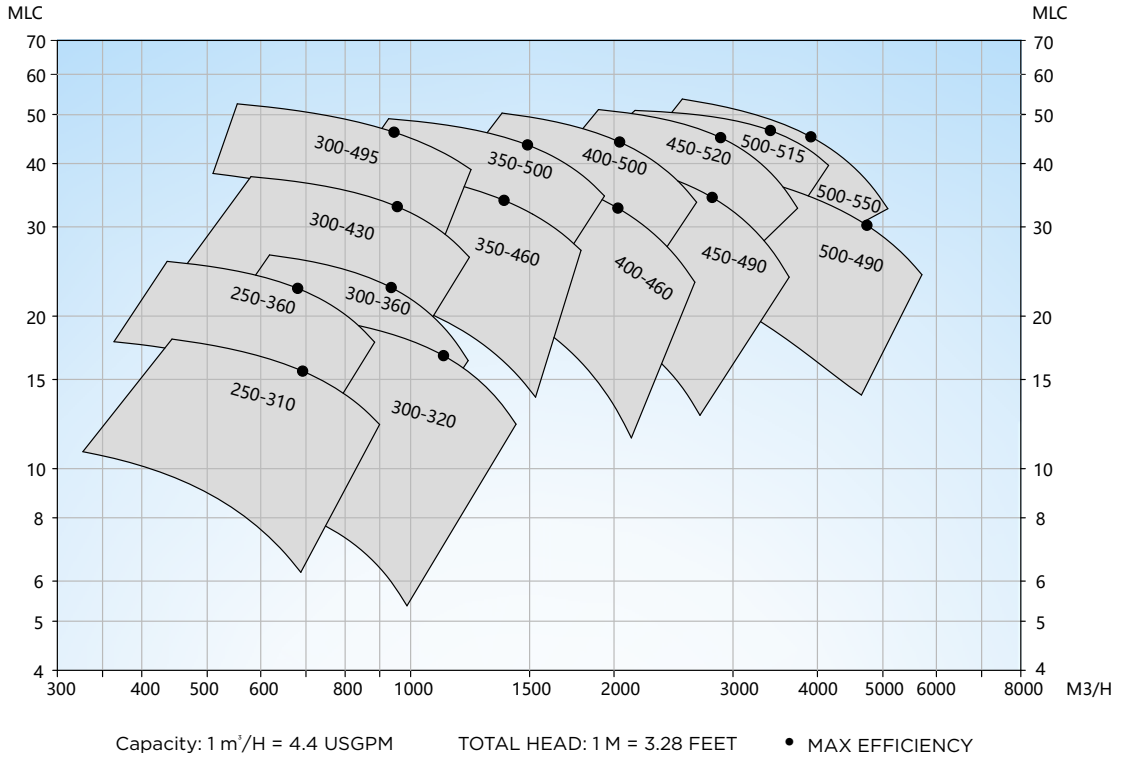
DSL Centrifugal Pump, 1450 rpm, **50 HZ**



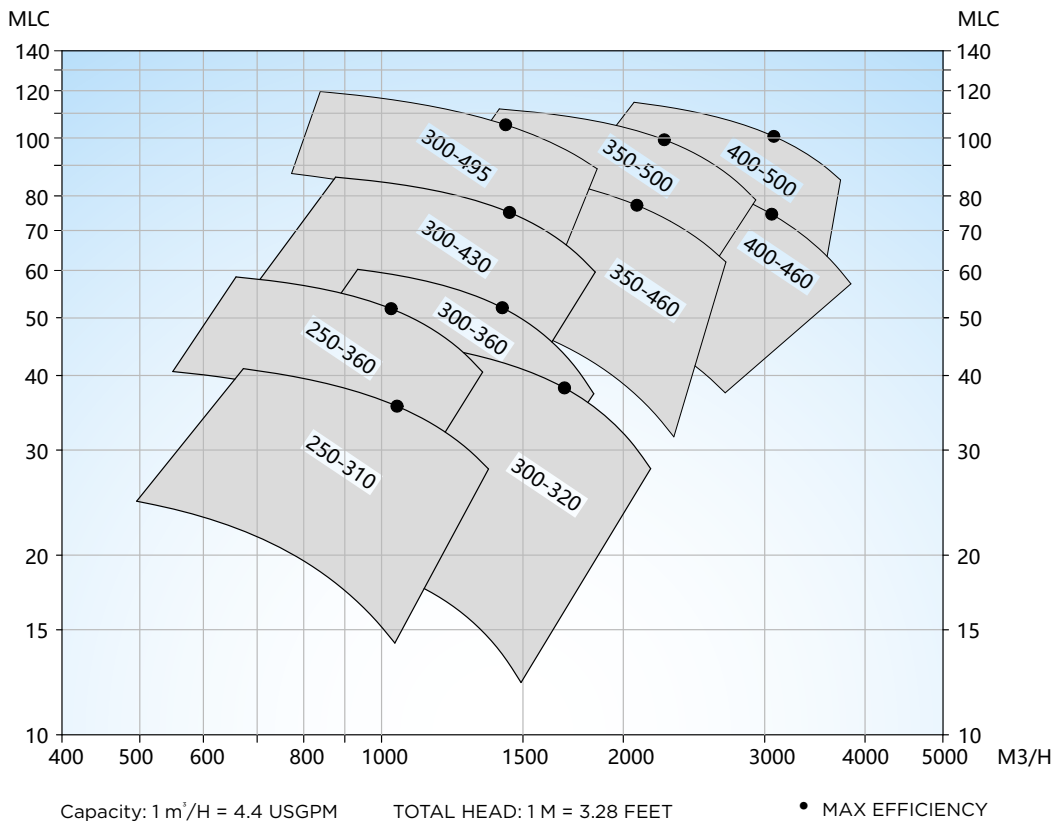
Capacity: 1 m³/H = 4.4 USGPM TOTAL HEAD: 1 M = 3.28 FEET • MAX EFFICIENCY

DESMI Centrifugal Pumps - DSL 60Hz

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



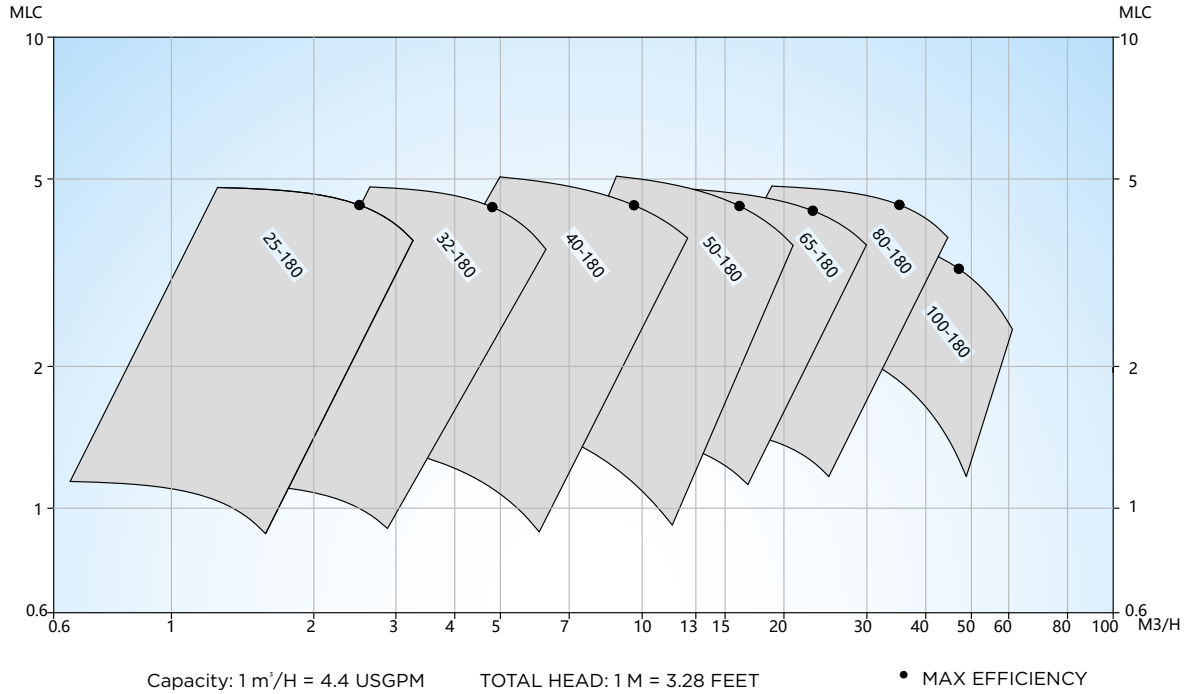
DSL Centrifugal Pump, 1740 rpm, **60 Hz**



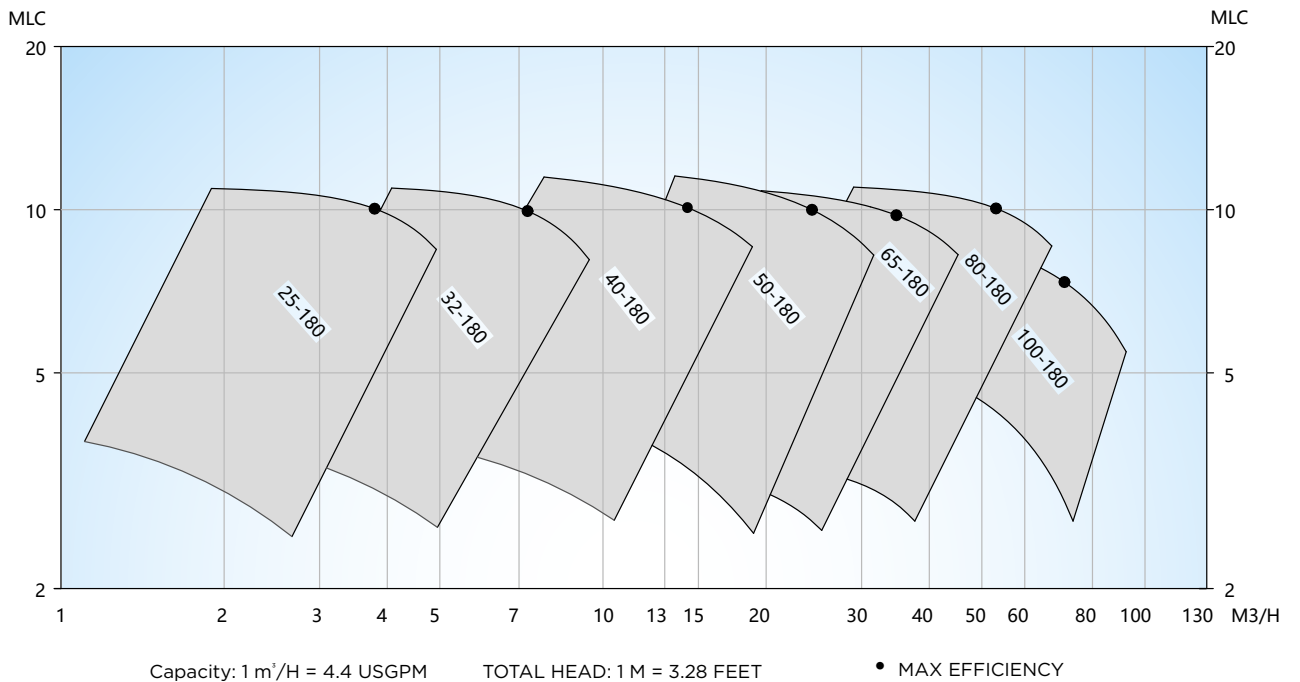


DESMI Centrifugal Pumps - ESL 50Hz

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

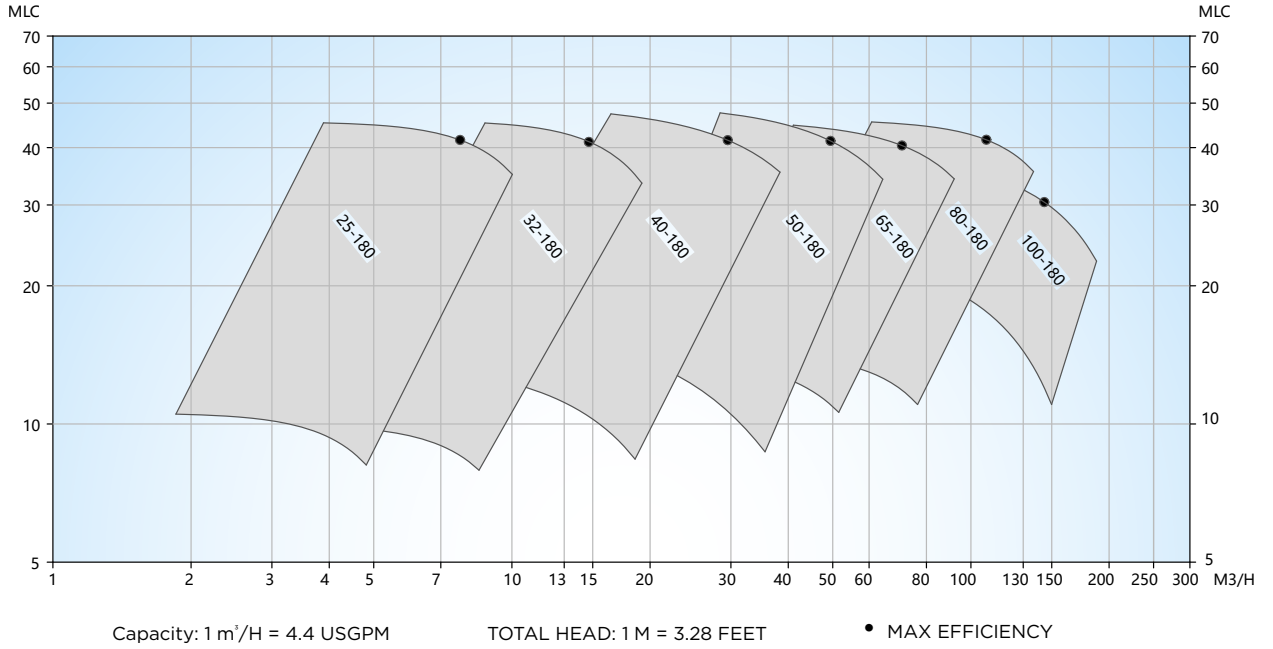


ESL Centrifugal Pump, 1450 rpm, **50 HZ**



DESMI Centrifugal Pumps - ESL

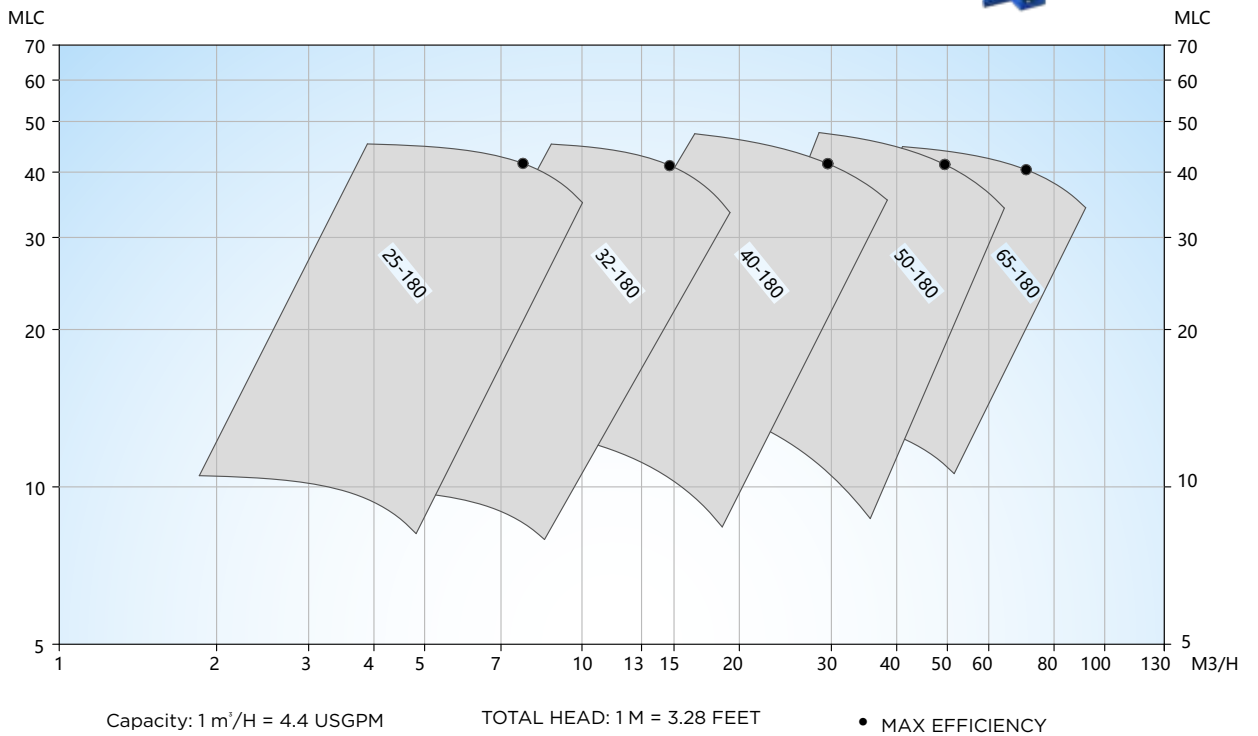
ESL Centrifugal Pump, 2950 rpm, 50 Hz



DESMI Centrifugal Pumps - ESLHT



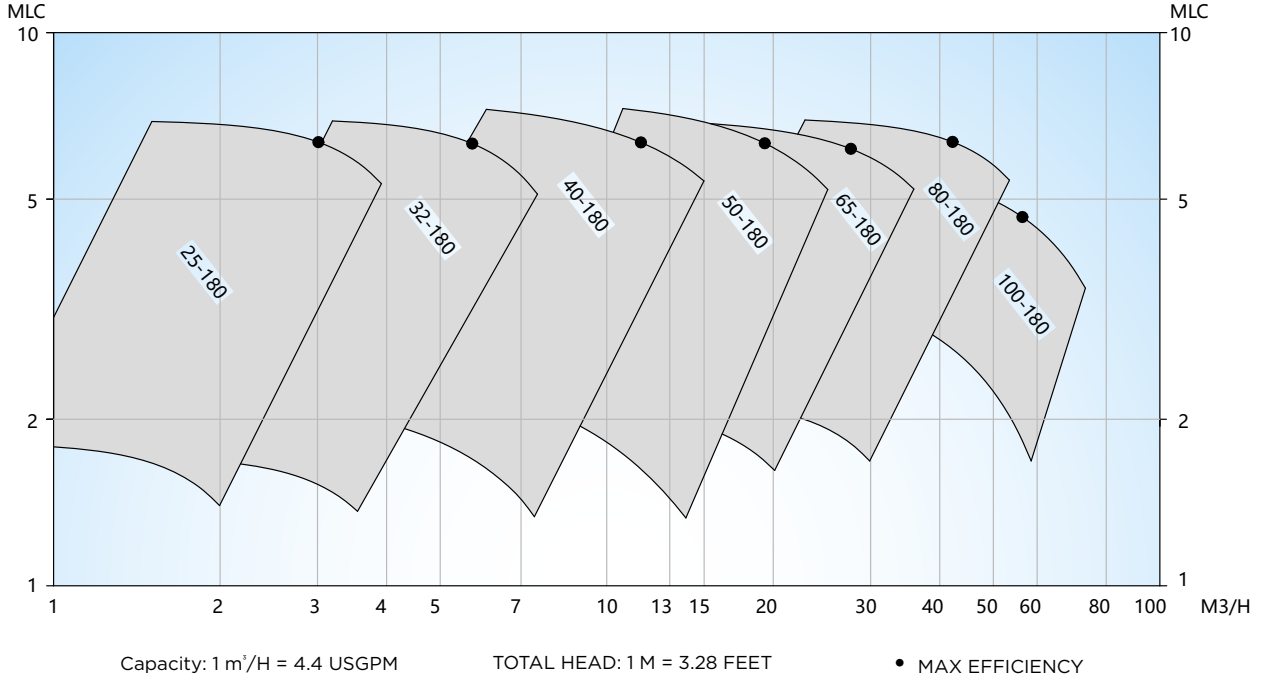
ESLTH Centrifugal Pump, 2950 rpm, 50 Hz



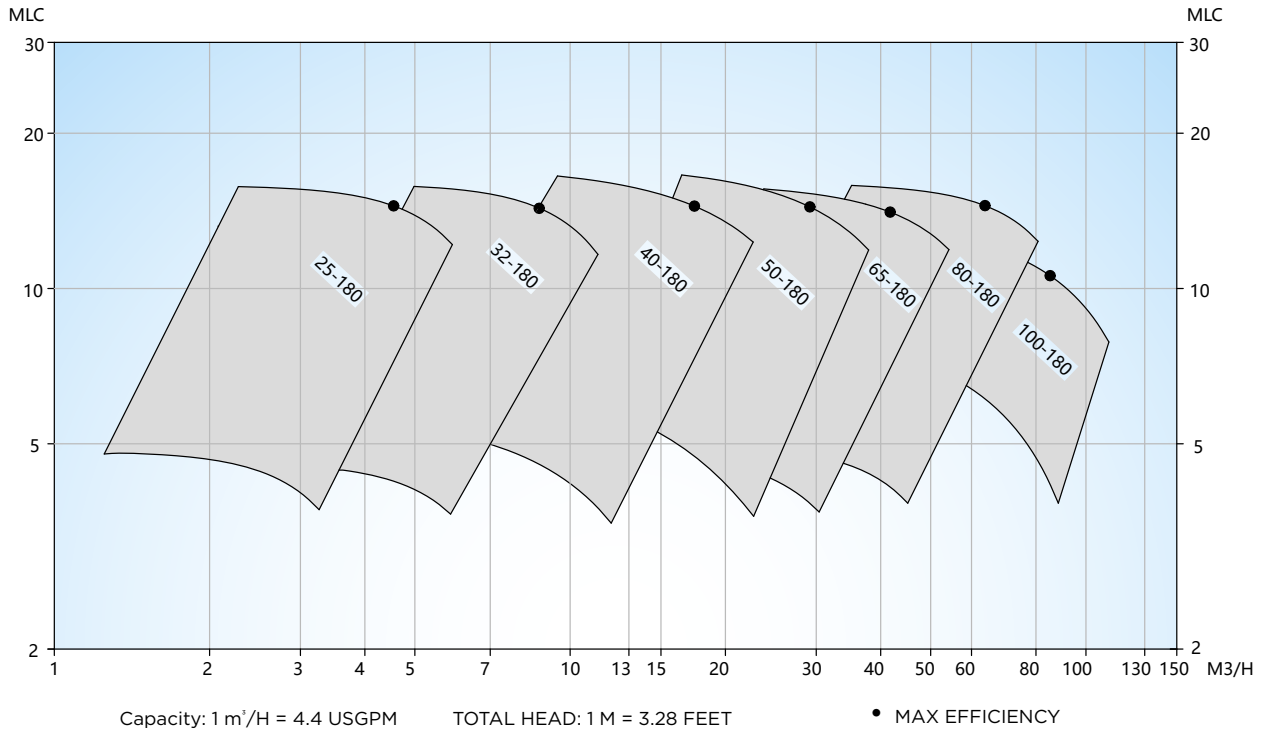


DESMI Centrifugal Pumps - ESL 60Hz

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

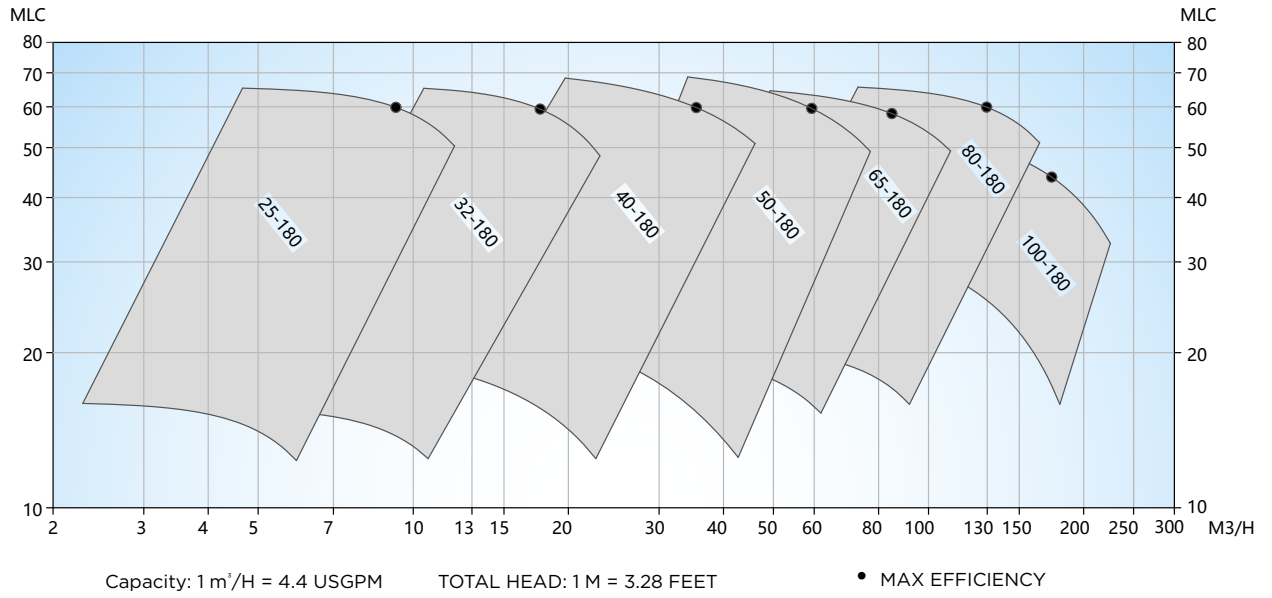


ESL Centrifugal Pump, 1740 rpm, **60 Hz**



DESMI Centrifugal Pumps - ESL

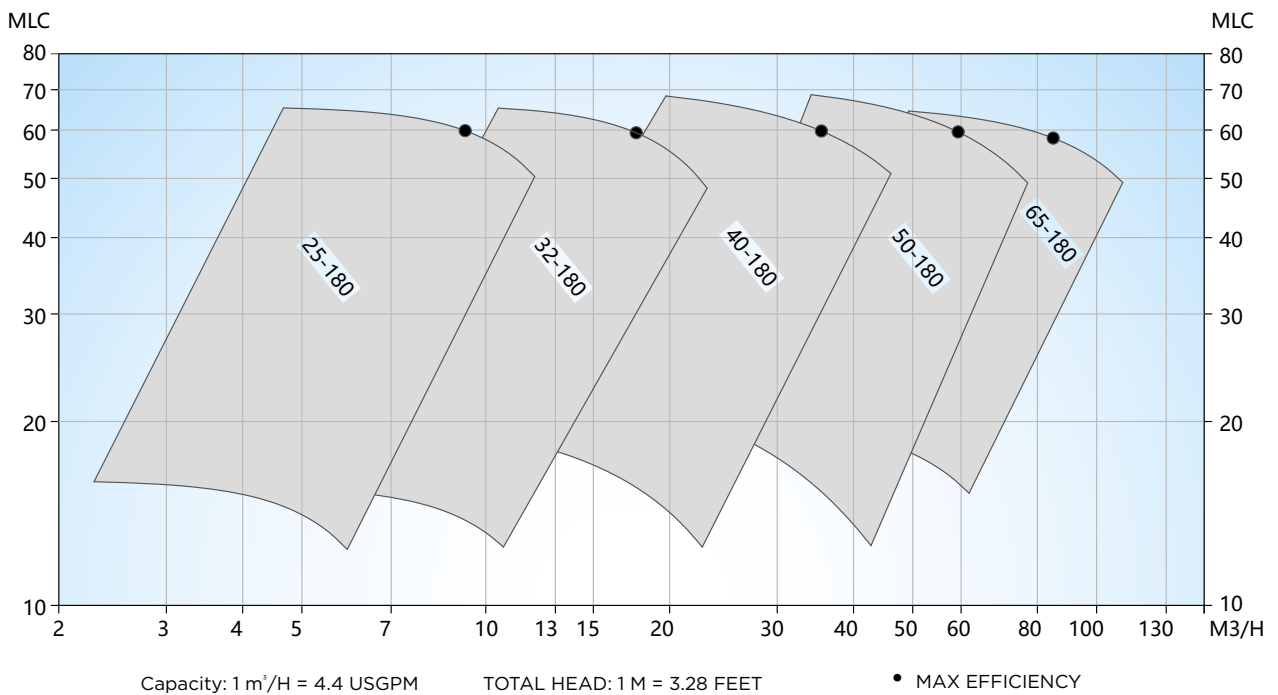
ESL Centrifugal Pump, 3450 rpm, **60 Hz**



DESMI Centrifugal Pumps - ESLHT



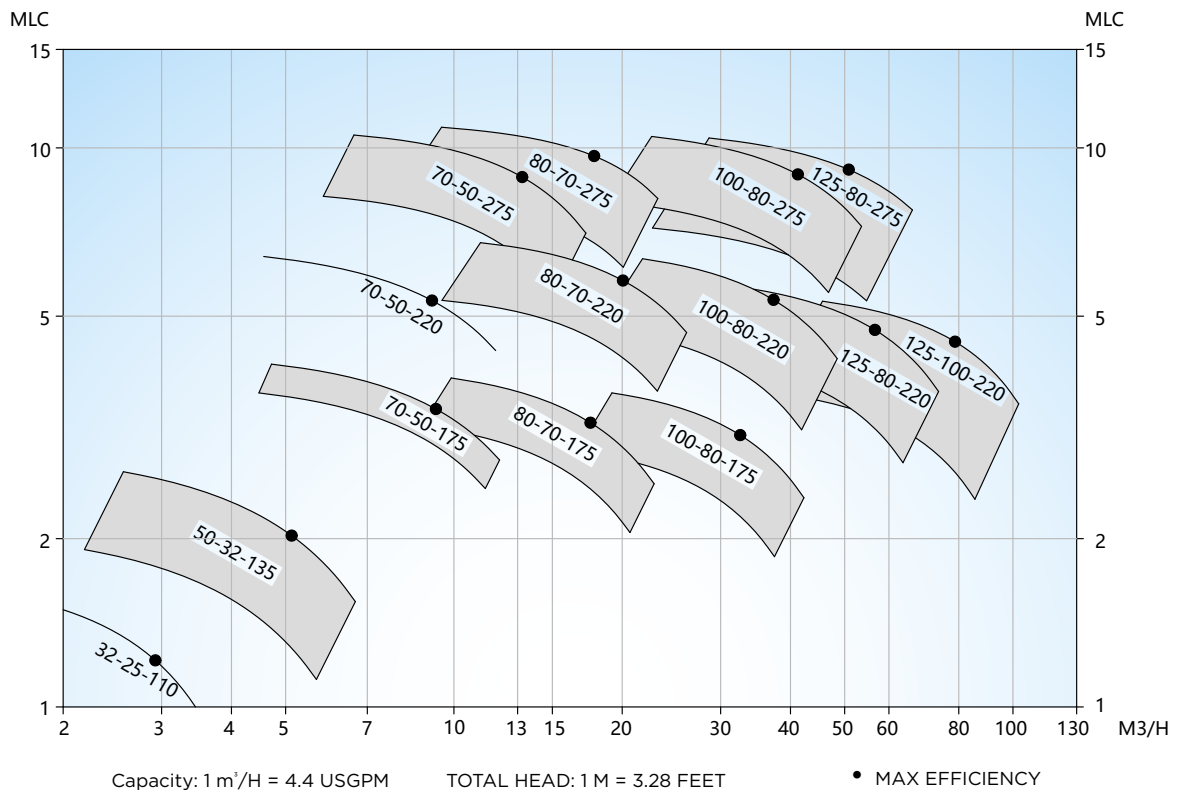
ESLTH Centrifugal Pump, 3450 rpm, **60 Hz**



DESMI Centrifugal Pumps - Modular S 50Hz

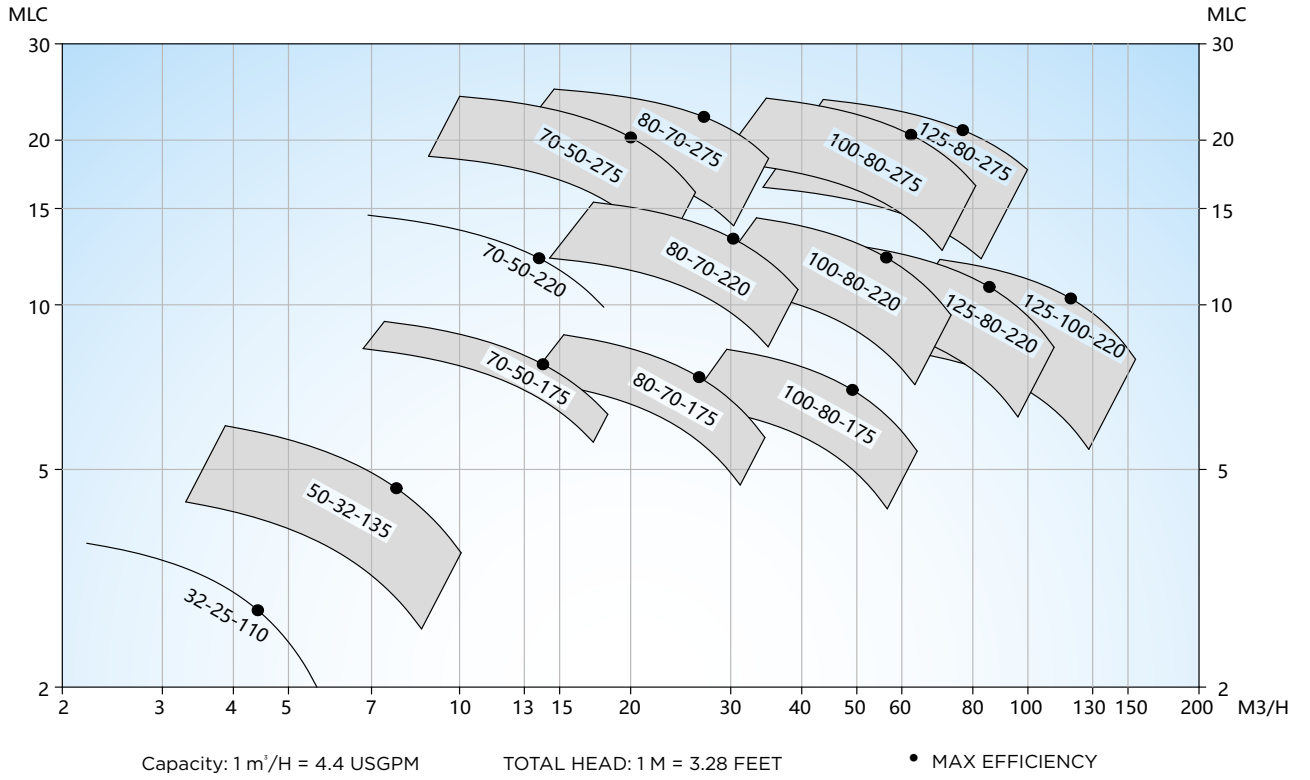


S Centrifugal Pump, 960 rpm, **50 Hz**

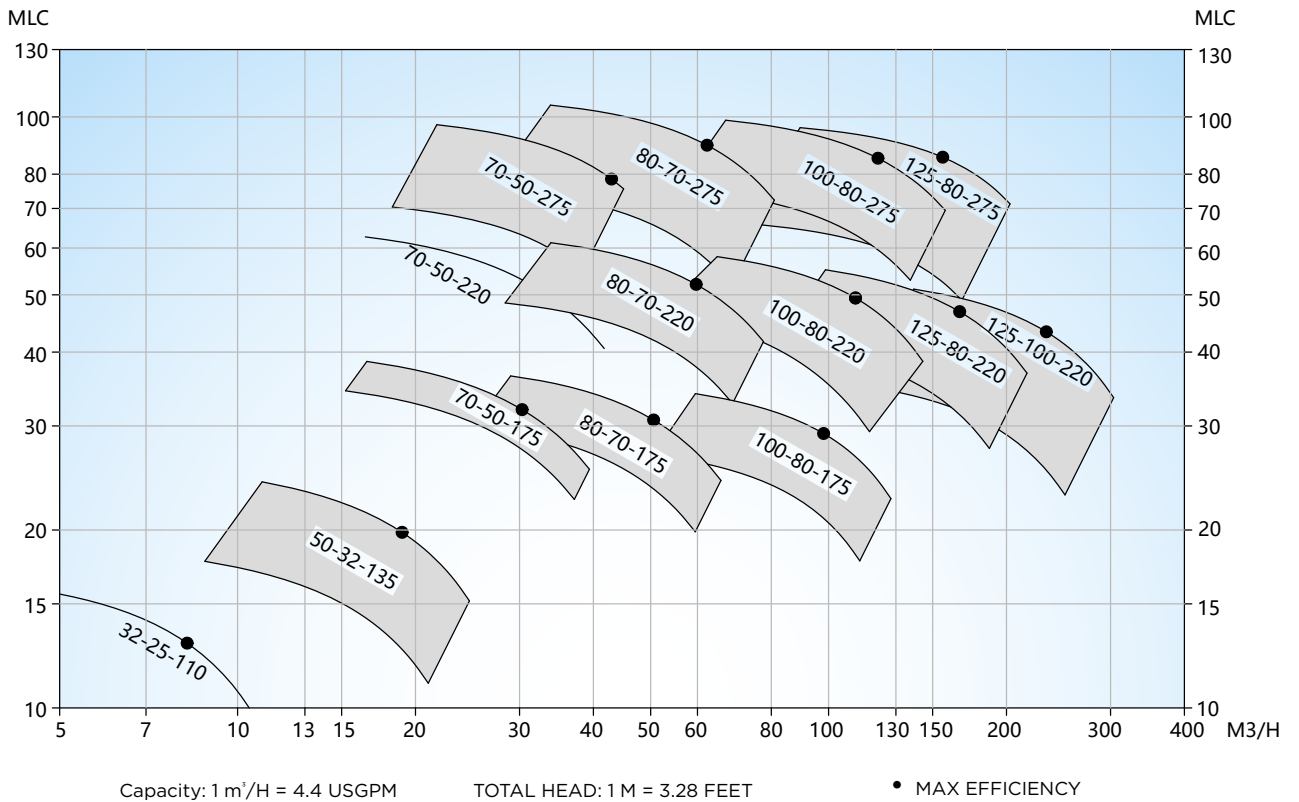


DESMI Centrifugal Pumps - Modular S 50Hz

S Centrifugal Pump, 1450 rpm, 50 Hz



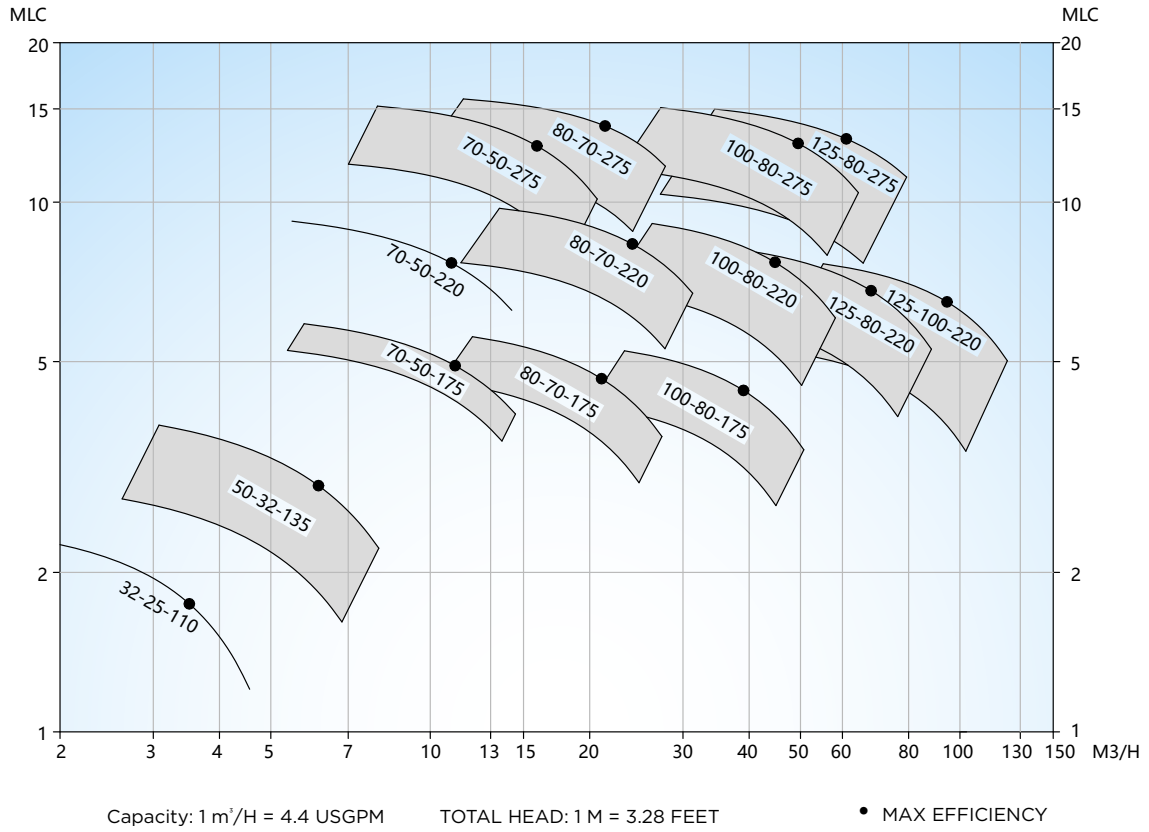
S Centrifugal Pump, 2950 rpm, 50 Hz



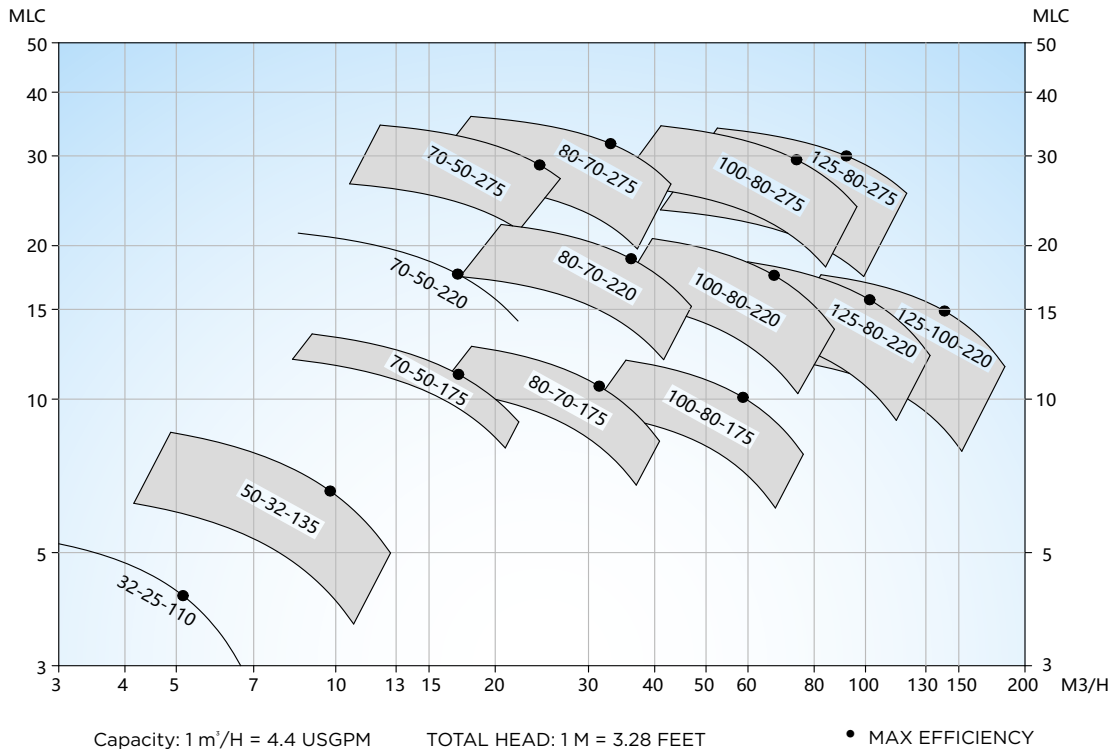
DESMI Centrifugal Pumps - Modular S 60Hz



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

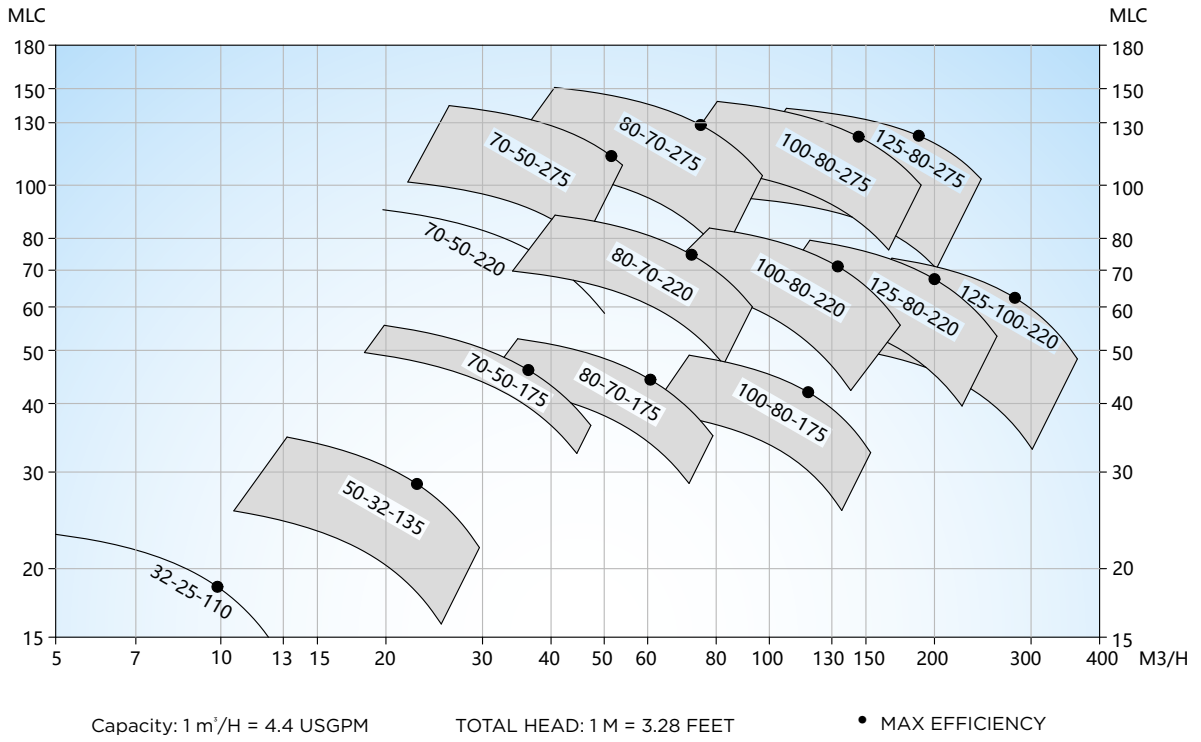


S Centrifugal Pump, 1740 rpm, **60 Hz**



DESMI Centrifugal Pumps - Modular S 60Hz

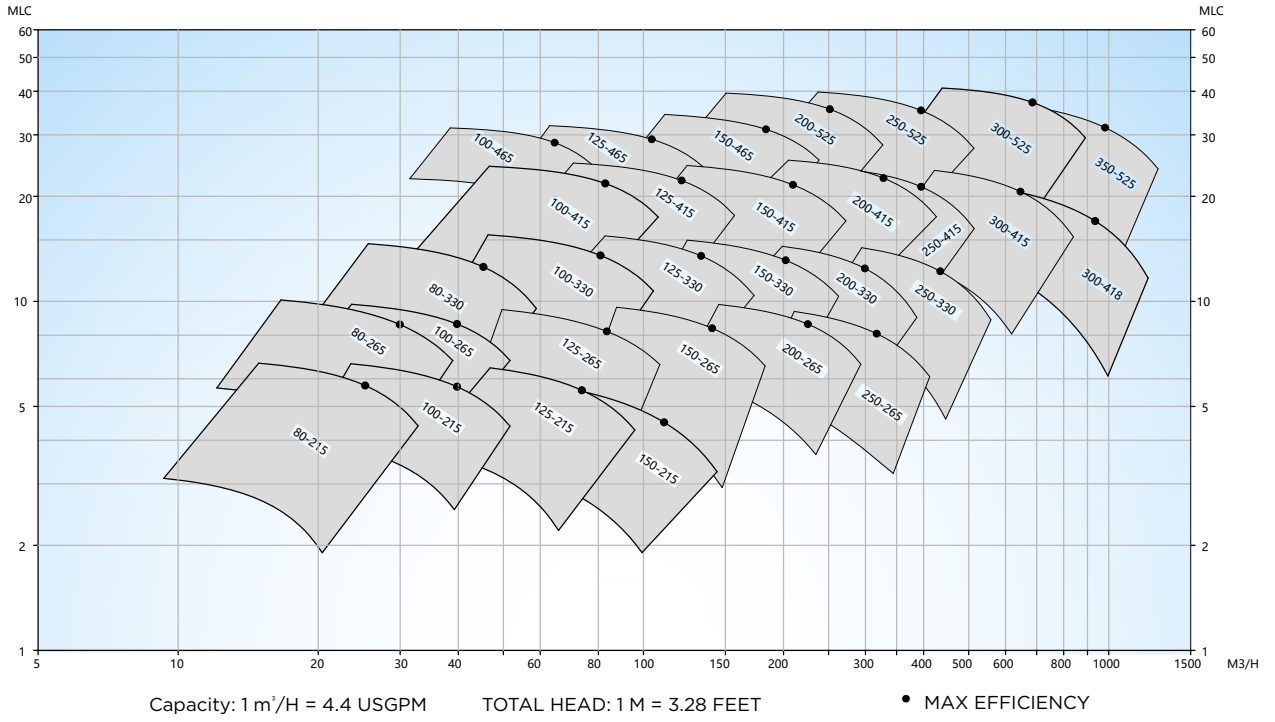
S Centrifugal Pump, 3450 rpm, 60 Hz



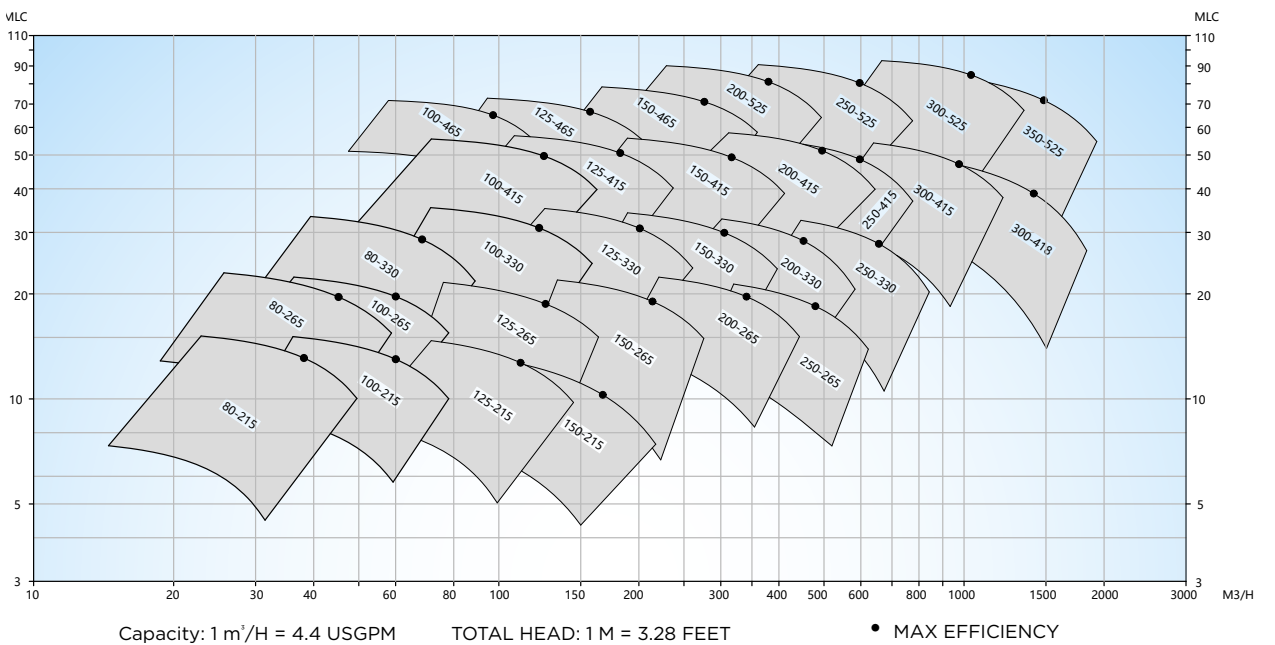
DESMI Centrifugal Pumps - NSL 50Hz



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

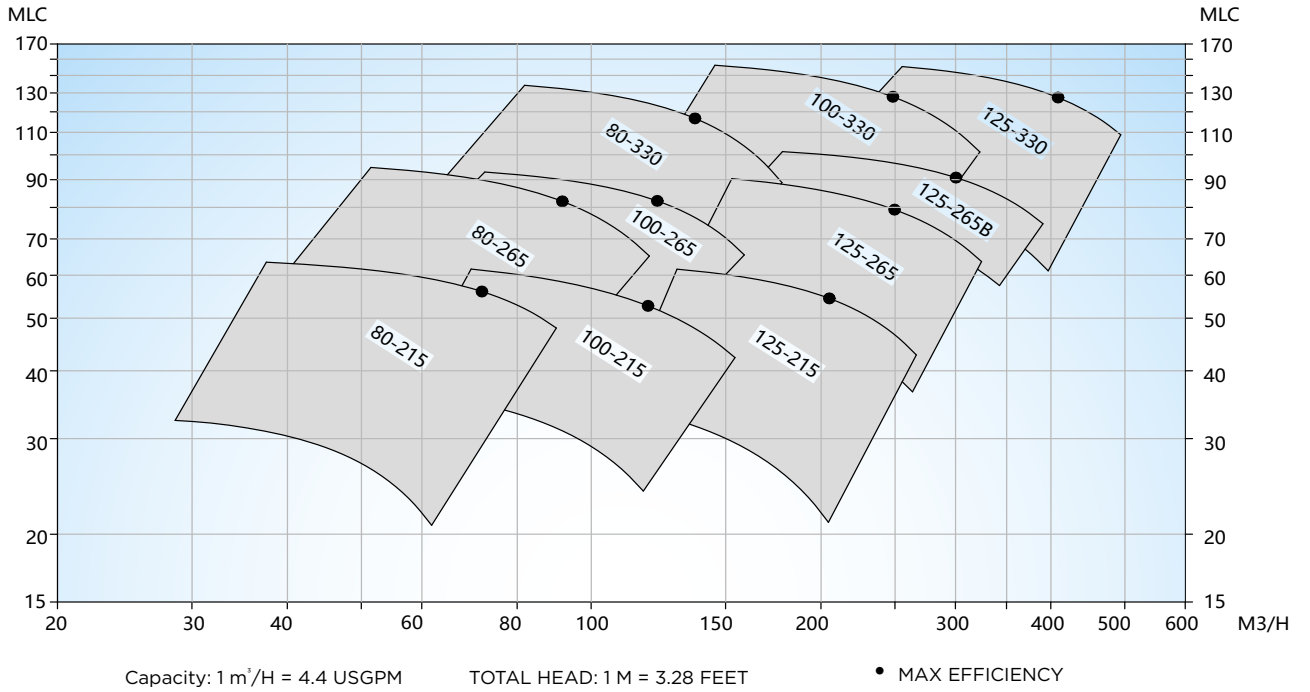


NSL Centrifugal Pump, 1450 rpm, **50 Hz**



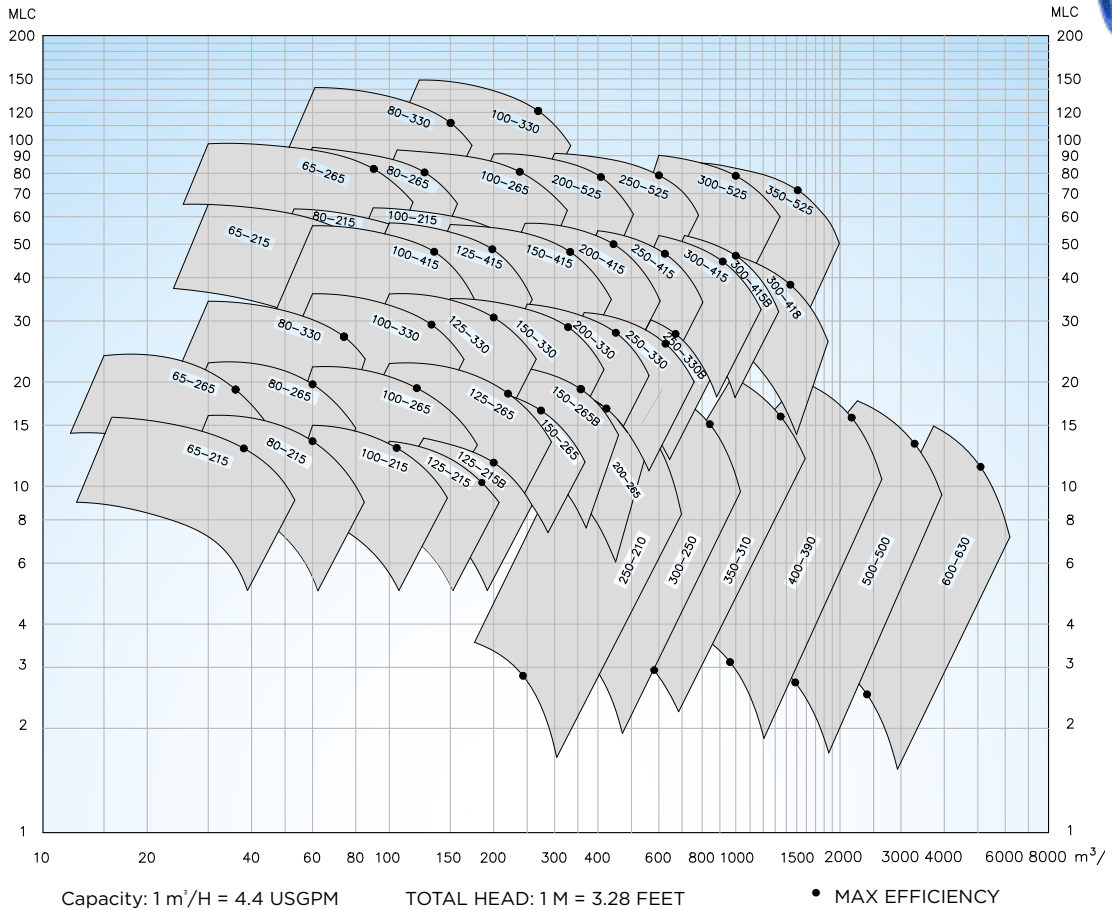
DESMI Centrifugal Pumps - NSL 50Hz

NSL Centrifugal Pump, 2950 rpm, 50 Hz



DESMI Centrifugal Pumps - NSLV & NSLH 50 Hz

NSLV/NSLH Centrifugal Pump, 50 Hz

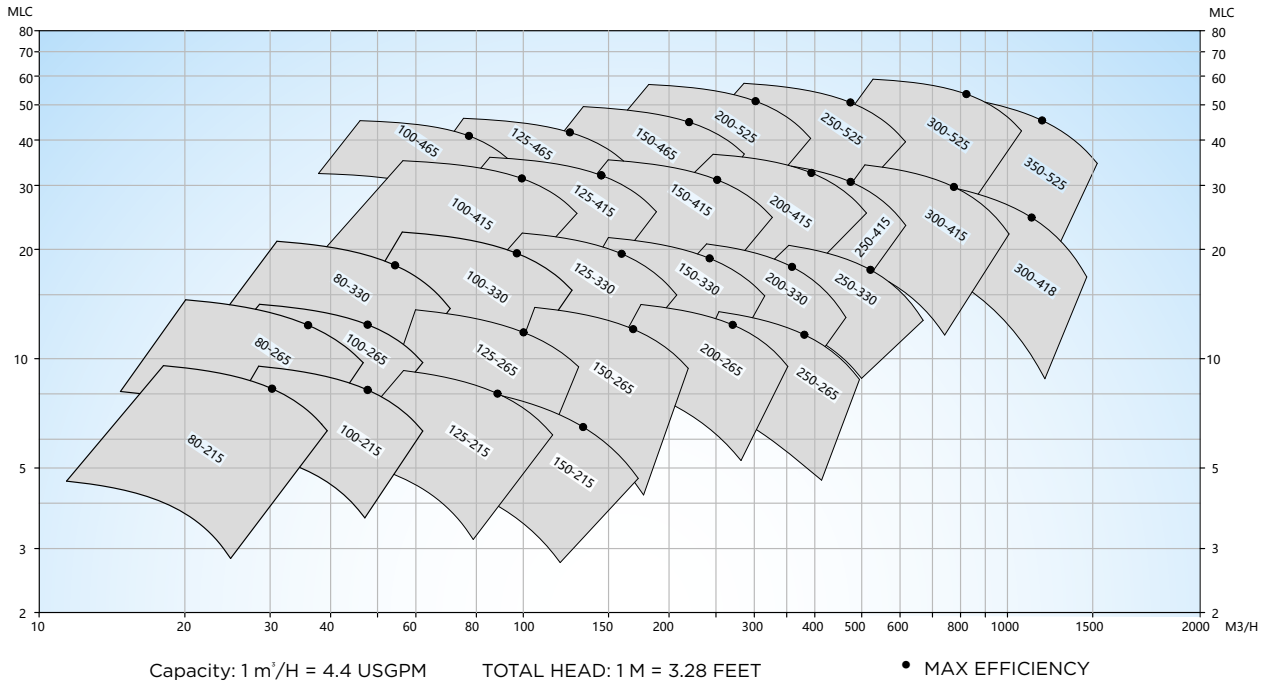


The pump curve is obtained on variable speed control on full diameter impeller.
These model's maximum rotation speed are different from 1000 rpm to 1850 rpm

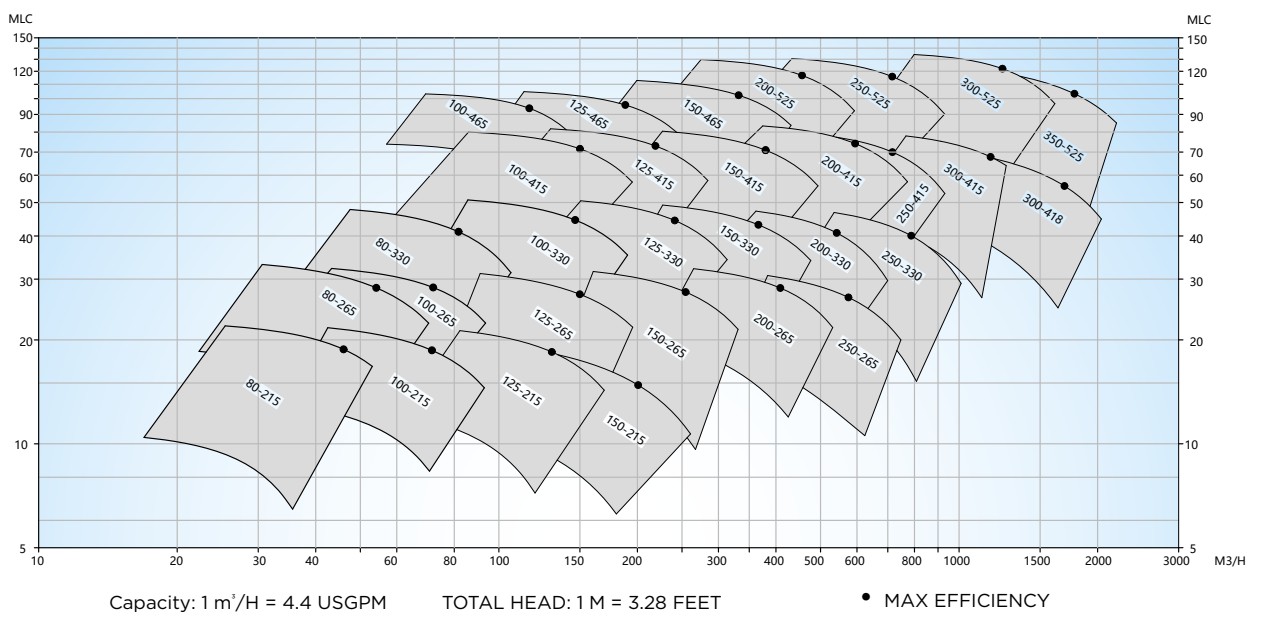
DESMI Centrifugal Pumps - NSL 60Hz



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

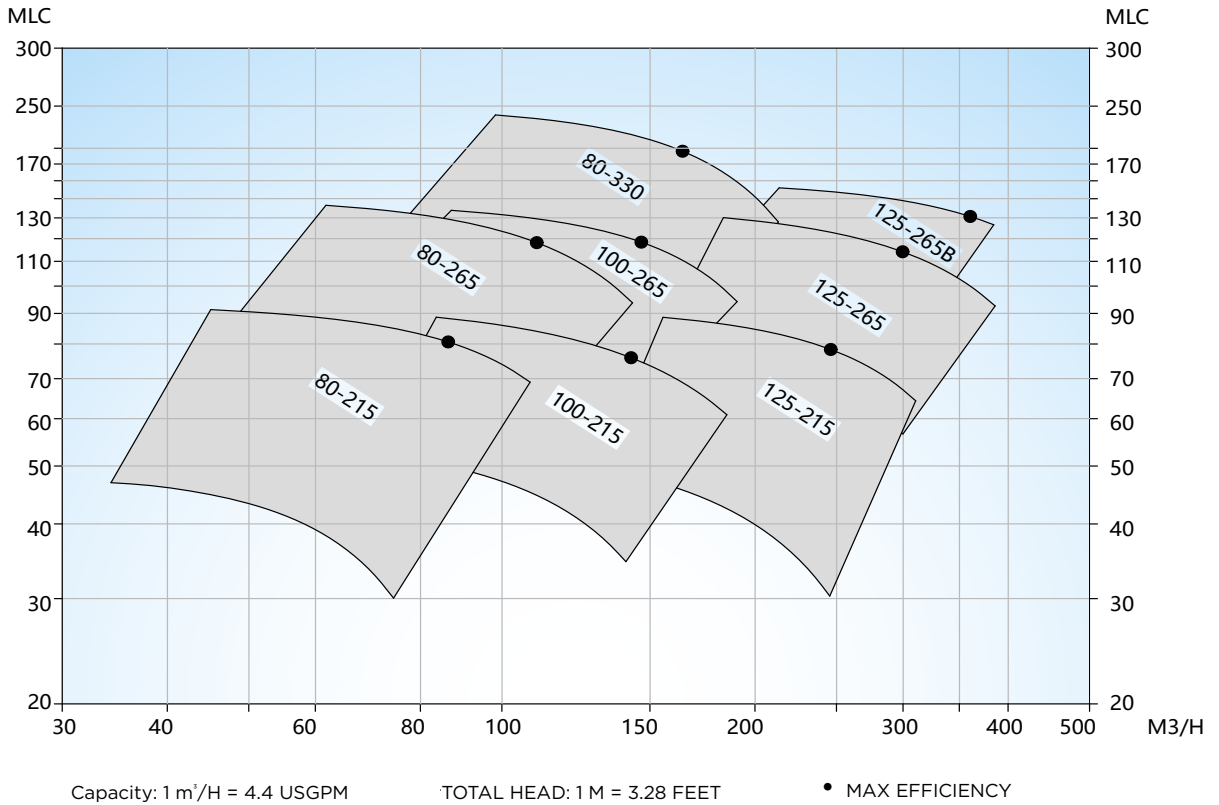


NSL Centrifugal Pump, 1740 rpm, **60 Hz**



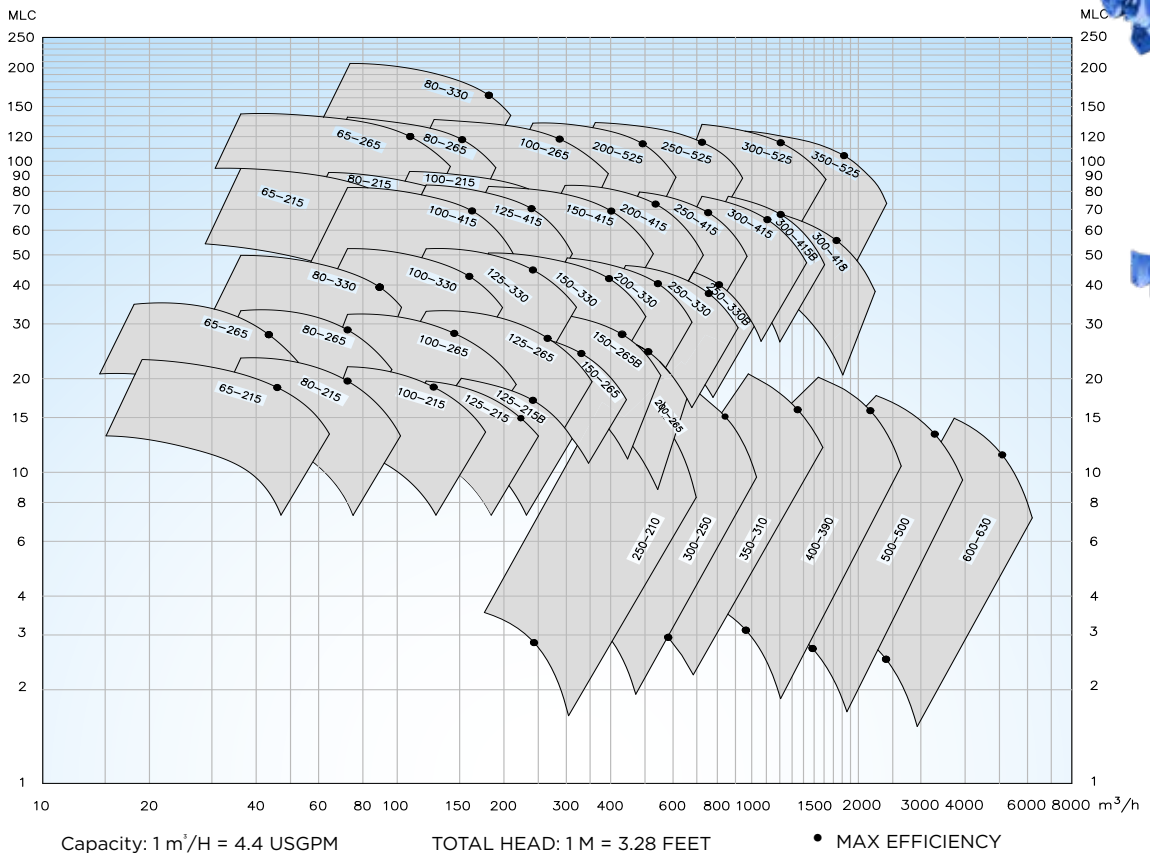
DESMI Centrifugal Pumps - NSL 60Hz

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



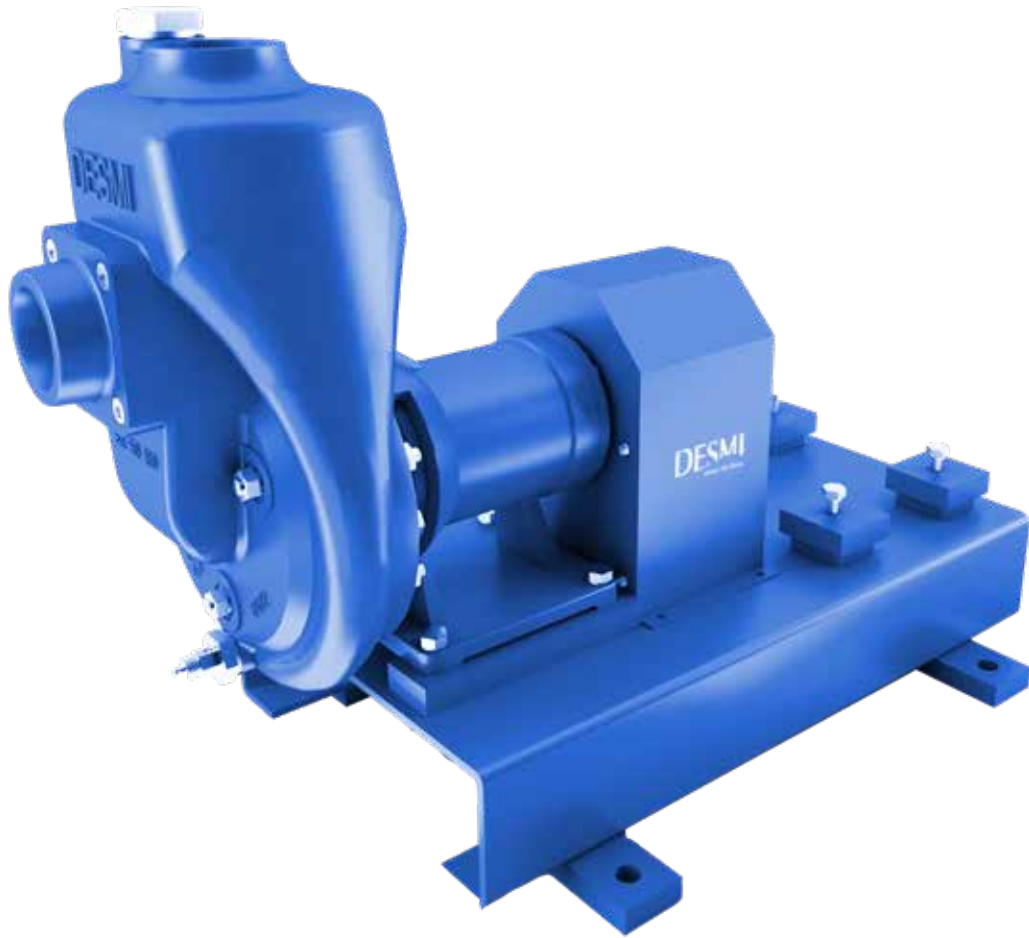
DESMI Centrifugal Pumps - NSLV & NSLH 60 Hz

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

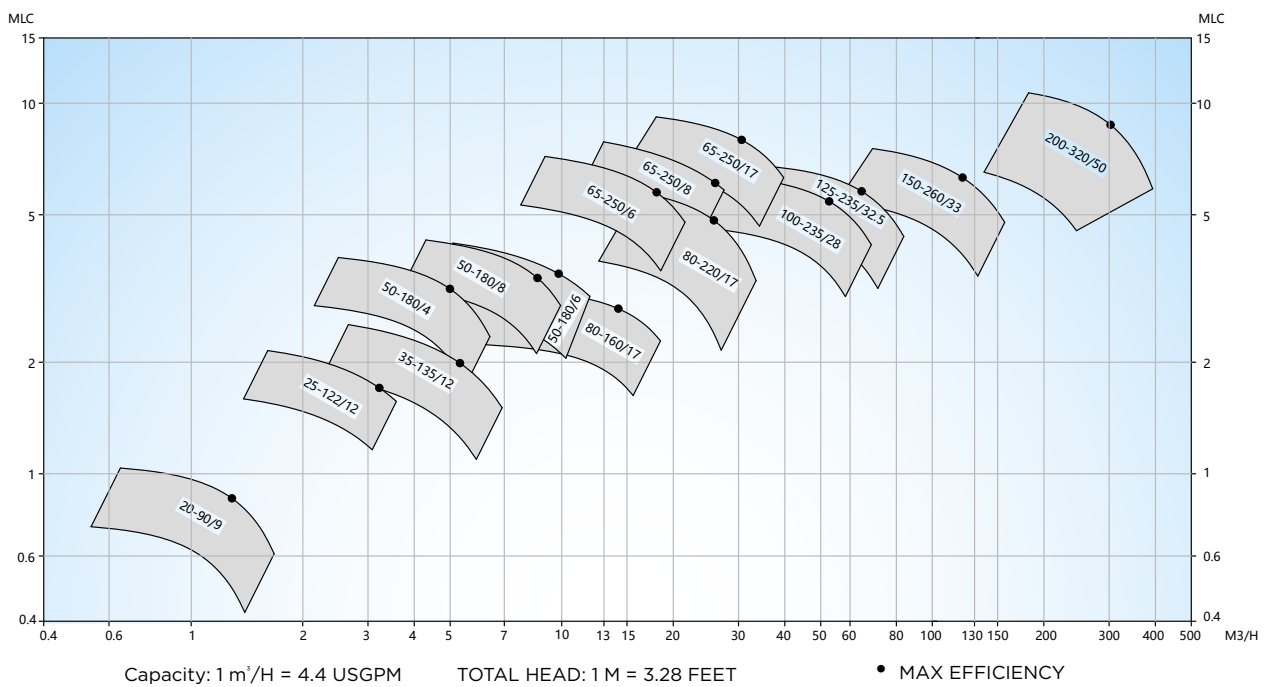


*The pump curve is obtained on variable speed control on full diameter impeller.
These model's maximum rotation speed are different from 1000 rpm to 1850 rpm*

DESMI Centrifugal Pumps - SA 50Hz

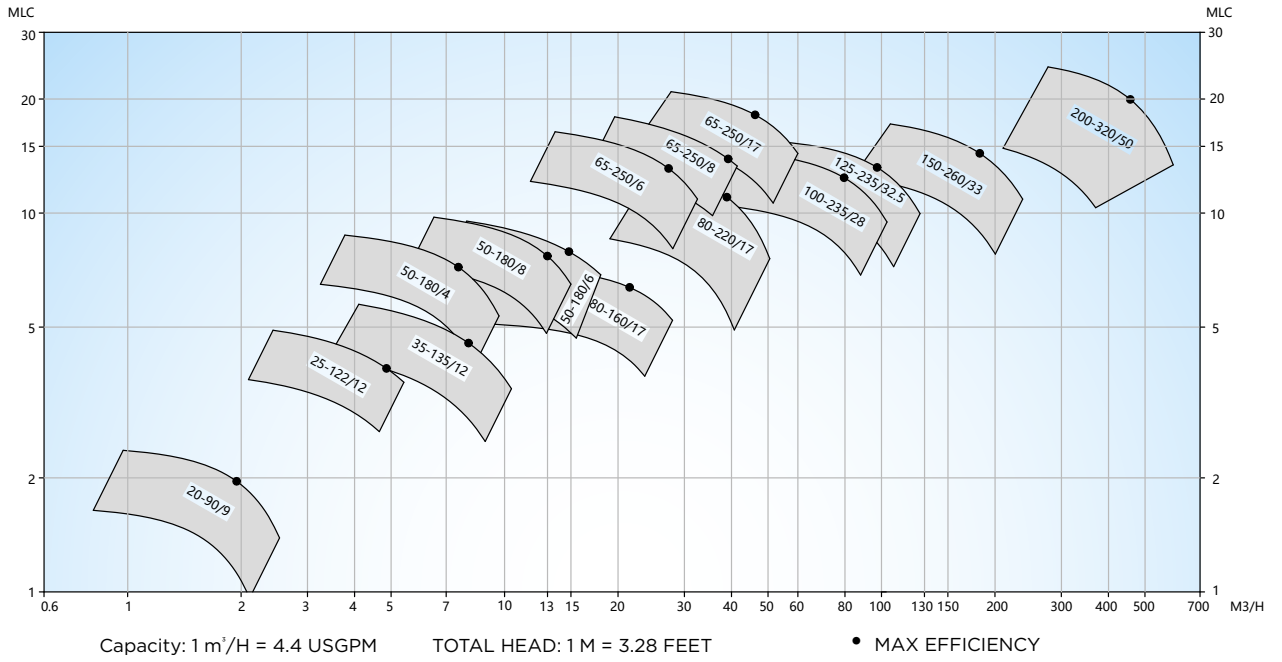


SA Centrifugal Pump, 960 rpm, **50 Hz**

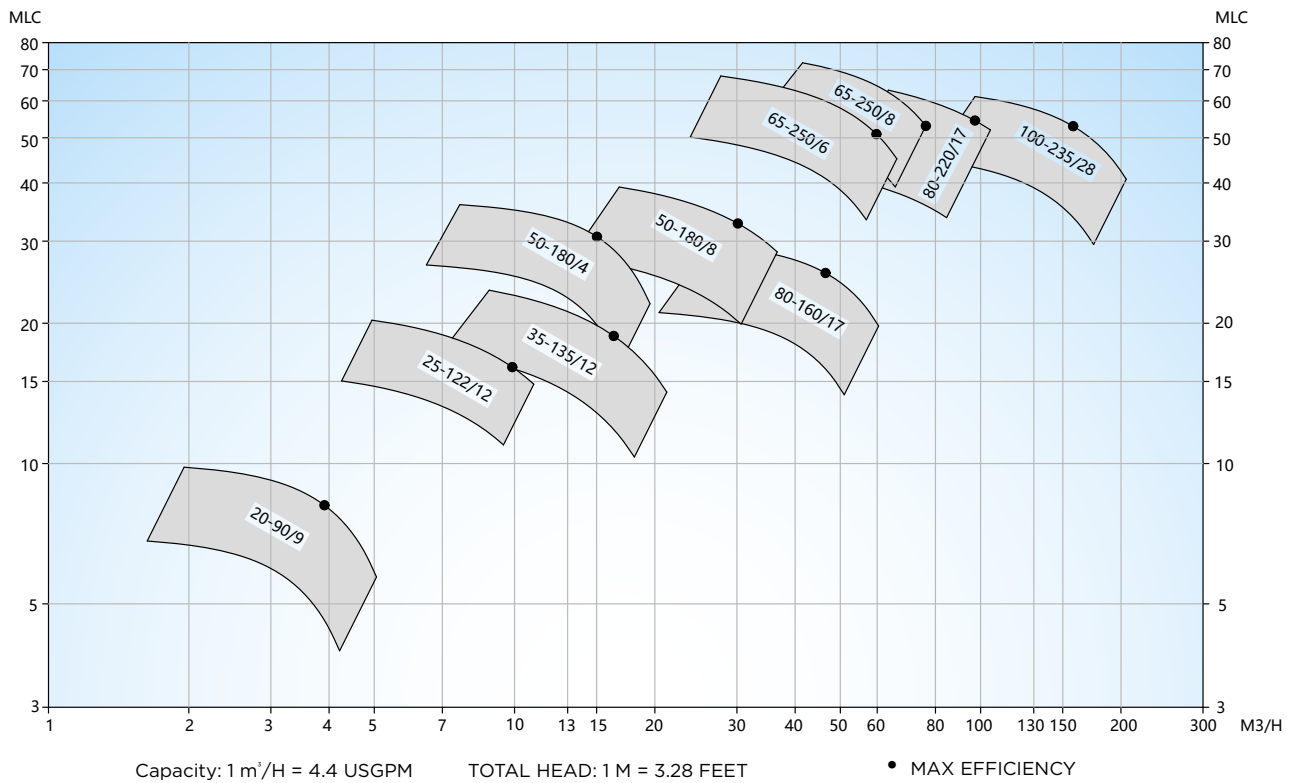


DESMI Centrifugal Pumps - SA 50Hz

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

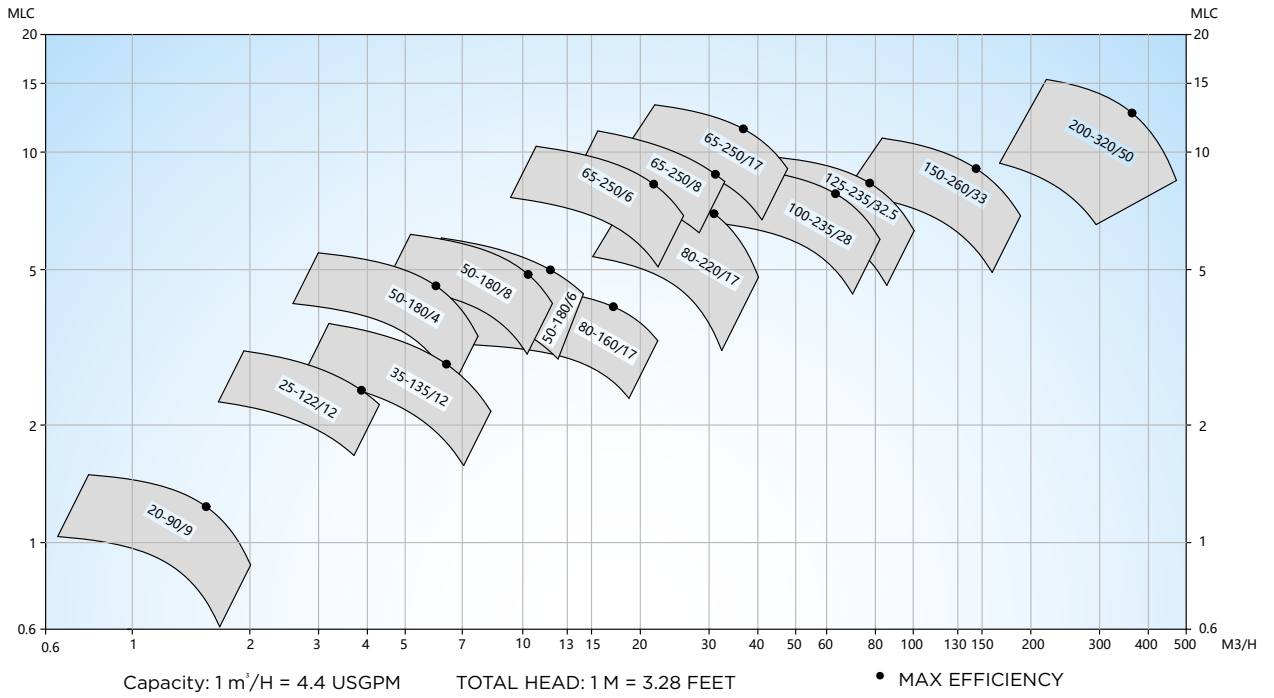


SA Centrifugal Pump, 2950 rpm, **50 Hz**

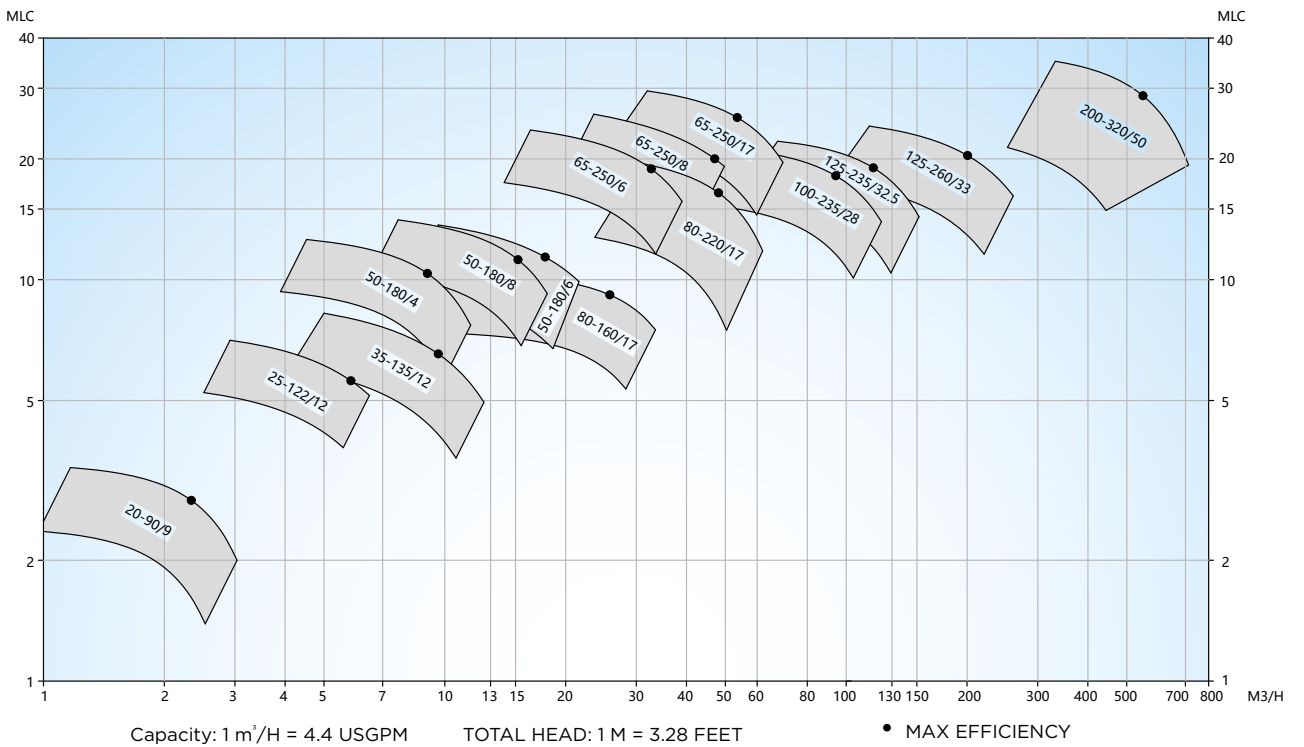


DESMI Centrifugal Pumps - SA 60Hz

SA Centrifugal Pump, 1152 rpm, 60 Hz

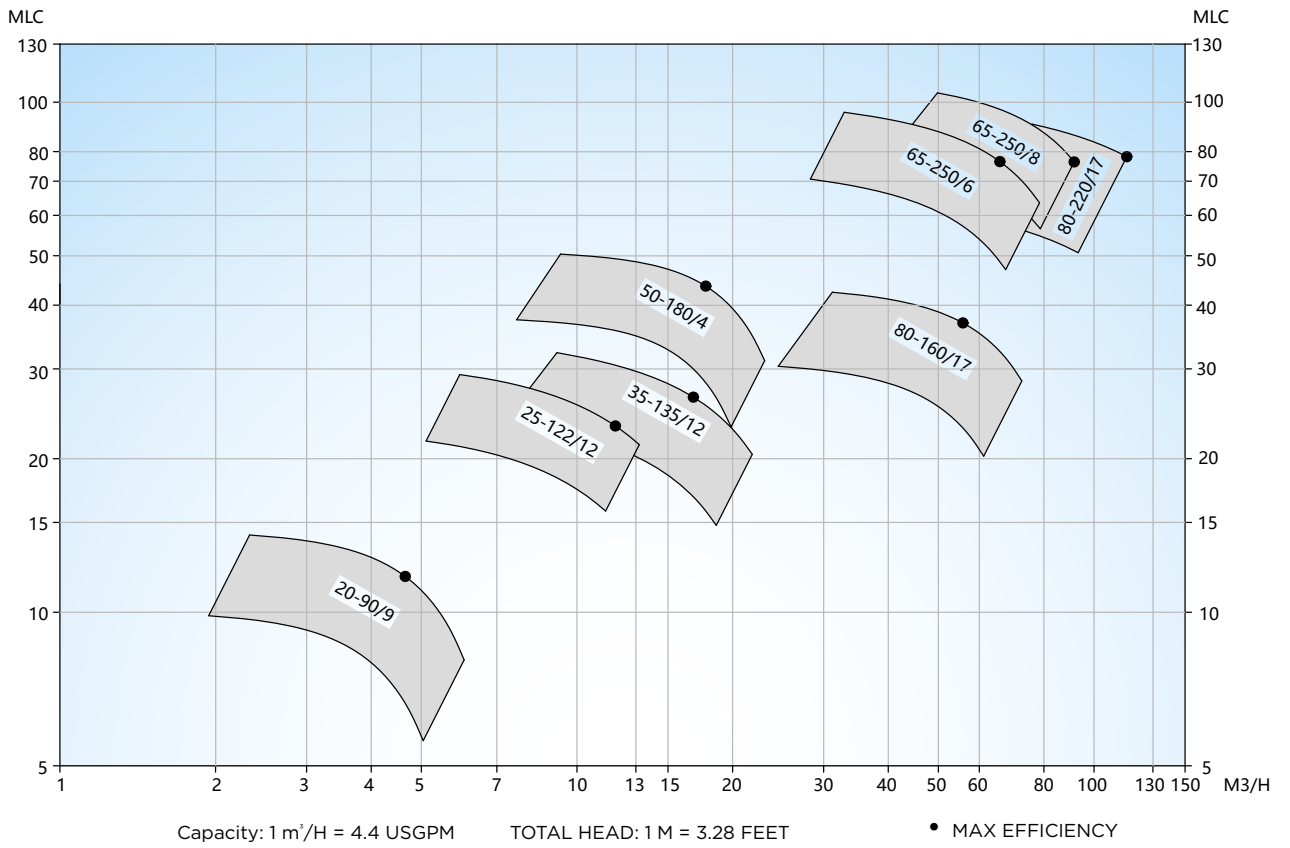


SA Centrifugal Pump, 1740 rpm, 60 Hz



DESMI Centrifugal Pumps - SA 60Hz

SA Centrifugal Pump, 3450 rpm, 60 HZ



ROTAN®

Internal Gear Pumps for Industry / Utility

All the ROTAN® models have a differential pressure up to 16 bar/232 psi and a suction lift up to 0.8 bar/11.6 psi vacuum while pumping.



ROTAN® GP



ROTAN® HD



ROTAN® PD



ROTAN® CD



ROTAN® ED



ROTAN® HD

	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.

Vertical Multistage Pumps

The art of transporting water is finding the right solution, with maximum efficiency, for each situation. The DPV series of vertical, multistage, centrifugal pumps can be used for numerous applications, like water, sprinkler, industry, cleaning systems and boiler feeds.

The DPV pump series is revolutionary in terms of energy-savings and efficiency. Corrosion-free materials, advanced production methods and an optimised

hydraulic assembly all contribute towards providing a unique example of craftsmanship.

The modular construction of the product enables you to modify the pump according to your specifications.



50 Hz					
Model	DPV 2	DPV 4	DPV 6	DPV 10 2P	DPV 10 4P
Capacity					
Capacity range (m ³ /h)	0.2-3.3/0.9-15	0.4-6.5/1.8-29	0.6-9/2.6-40	1.0-13.2/4-58	0.5-6.6/2-29
Nominal capacity at Qopt. (m ³ /h)/(gpm)	1.9/8.4	4/18	6.3/28	10/44	5/22
Pressure					
Norm pressure	PN16-25-40				
Maximum pump pressure (m)/(ft)	229/751	234/768	256/840	239/784	58/190
Maximum pressure at Qopt. (m)/(ft)	187/614	193/633	200/654	179/587	43/141
NPSH at Qopt. (m)/(ft)	2.2/7.2	1.2/4	1.2/4	1.2/4	0.9/3
Hydraulic assembly					
Temperature range medium	-20 - +140° C / -4 - 284° F				

50 Hz					
Model	DPV 15 2P	DPV 15 4P	DPV 25 2P	DPV 25 4P	DPV 85
Capacity					
Capacity range (m ³ /h)/(gpm)	1.8-22.5/8-99	0.98-11.3/4.3-50	2.8-35/12-154	1.4 - 17.5	8.5 - 112.8
Nominal capacity at Qopt. (m ³ /h)/(gpm)	18/79	9.8/43	28/123	14	85.7
Pressure					
Norm pressure	PN16-25-40				
Maximum pump pressure (m)/(ft)	248/814	59/194	246/807		176/577
Maximum pressure at Qopt. (m)/(ft)	193/633	44/144	185/607	45/148	132/433
NPSH at Qopt. (m)/(ft)	1.2/4	0.6/2	3.0/10	0.8/3	2.2/7
Hydraulic assembly					
Temperature range medium	-20 up to + 140° C / -4 - 284° F				

60 Hz					
Model	DPV 2	DPV 4	DPV 6	DPV 10 2P	DPV 10 4P
Capacity					
Capacity range (m ³ /h)/(gpm)	0.24-4/1-18	0.48 - 7.8	0.72 - 10.8	1.3 -15.8	0.6 - 7.9
Nominal capacity at Qopt. (m ³ /h)/(gpm)	2.3/10	4.8	7.6	13.3	6.3
Pressure					
Norm pressure	PN16-25-40				
Maximum pump pressure (m)/(gpm)	246/807	238/781	255/837	246/807	61/200
Maximum pressure at Qopt. (m)/(gpm)	201/659	195/640	199/653	173/568	44/144
NPSH at Qopt. (m)/(ft)	3/10	1.8/6	2/7	2/7	1.3/4
Hydraulic assembly					
Temperature range medium	-20 - +140° C / -4 - 284° F				

60 Hz					
Model	DPV 15 2P	DPV 15 4P	DPV 25 2P	DPV 25 4P	DPV 85
Capacity					
Capacity range (m ³ /h)/(gpm)	2.2-27/10-119	1.1-13.8/5-41	3.4-42/15-185	1.3 -15.8	10-132/44-551
Nominal capacity at Qopt. (m ³ /h)/(gpm)	21.7/96	10.9/48	34/150	34/150	100/440
Pressure					
Norm pressure	PN16-25-40				
Maximum pump pressure (m)/(ft)	233/764	57/187	210/689	87/285	151/495
Maximum pressure at Qopt. (m)/(ft)	177/551	43/141	157/515	65/213	108/354
NPSH at Qopt. (m)/(ft)	1.5/6	1.3/4	4.6/15	1.1/3.6	3.8/12
Hydraulic assembly					
Temperature range medium	-20 up to + 140° C / -4 - 284° F				

DP pump application

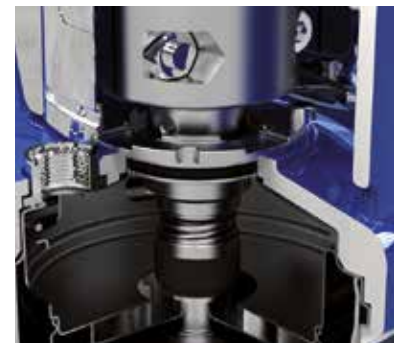
- ME pre-heating pump
- Hot water circulation pump
- Refrigeration water circulation pump
- HVAC water circulation pump
- Technical water pump
- Hydrophore pump
- Boiler water transfer pump
- Chemical clean pump

Low NPSH

- Extended life span as a result of favourable suction conditions
- NPSH-level 0.6 up to 3.8 (Qopt)

Modular construction

- Wide range of options
- All specials are standard
- Short delivery times



Wide range of shaft seals. Replace without dismantling the pump.

After-sales and service solutions

Optimization and long-term performance for your systems

DESMI
DESERVE

DESMI

G

Call the
DESMI Service Hotline
round the clock
at +45 96 32 81 10



The purpose of DESMI DeServe is to provide our customers with the very best service! Covering maintenance, repairs, upgrades, training, and technical support, DESMI DeServe offers services that optimize your critical flow processes.

We offer spare part kits that cover several pumps and contain the parts you need when overhauling your pumps, for example shaft seals, bearings, and O-rings. You can order individual spare parts as needed, too.

Our highly experienced and factory trained service teams provide a long list of services like inspection, installation, commissioning, on-site service, repair, maintenance, and more.

For some parts or products, we ship within 48 hours with our fast-track concept. Through our global parts database, we can also often locate the necessary part in one of our regional warehouses and ship from day to day, helping you keep operational disruptions to a minimum.



Overhaul
Videos



We exist to keep your business flowing

At DESMI, we work closely with system designers, plant engineers, and other industry stakeholders to deliver critical flow processes for a long list of production tasks at small to large-scale industry sites – even in complex applications with challenging media.

Everything we do is about pushing the boundaries of what we can do for you. Our pump solutions are trusted worldwide for superior performance, unmatched reliability, and high efficiency, and our products are just the start: We build flow solutions around you with the expertise and aftermarket support you need.

Founded in Denmark in 1834, we have provided the solutions our customers need for nearly two centuries. We help you operate more efficiently and reliably, enabling your ambitions for performance, compliance, and growth whilst helping you reduce your climate impact.

Together, we can make a difference, whatever the future holds. Because we, like you, are here to **make life flow**.

For more information, visit desmi.com

DESMI A/S

Tagholm 1
DK-9400 Nørresundby
Tel.: +45 96 32 81 11