

HM Series



Model Numbers:

HM80-08, HM80-08-316L

HM150-11, HM150-11-316L

HM150-15, HM150-15-316L, HM150-15-3,
HM150-15-3-316L

HM150-22, HM150-22-316L, HM150-22-3,
HM150-22-3-316L

HM300-30-3, HM300-30-3-316L

COMPACT, ALL STAINLESS STEEL HORIZONTAL MULTISTAGE PUMPS

APPLICATIONS

Automatic pressure system for household and domestic water supply, farming and agricultural water systems, small irrigation and turf watering systems and automatic general water transfer.

FEATURES & BENEFITS

Compact stainless steel horizontal multistage centrifugal pump and motor unit:

- Flows to 510 L/min and heads to 50m
- Suitable for high water temperatures
- Corrosion and wear resistant

Axial suction and vertical discharge:

- Higher operating pressures
- Longer life when pumping clean water with neutral pH
- Reduced friction within the casing and impellers
- Available in SS304 and SS316L versions. SS316L version suitable for use with Saline Water

High quality purpose built 2 pole, 50Hz, IP55 TEFC motor, designed to Davey's high quality specifications with:

- Permanently split capacitor (single phase models except HM150-22) for dependable and frequent starting

*HM150-22 / HM150-22-316L includes both a start and run capacitor

- In-built thermal overload for long motor life and protection against motor damage due to jamming
- High quality sealed bearings for longer life
- Resists ingress of dust and dirt

Hydraulic assembly attached to motor bracket at 6 points with o-ring seal to the stainless steel pump casing:

- Better sealing
- Longer service life

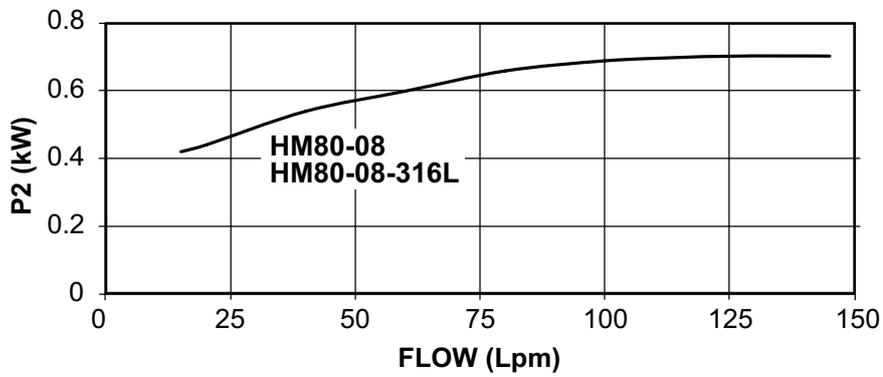
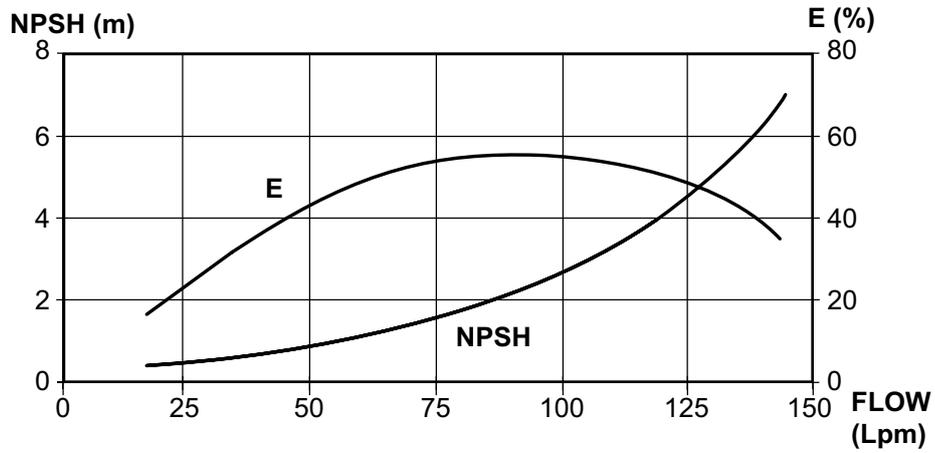
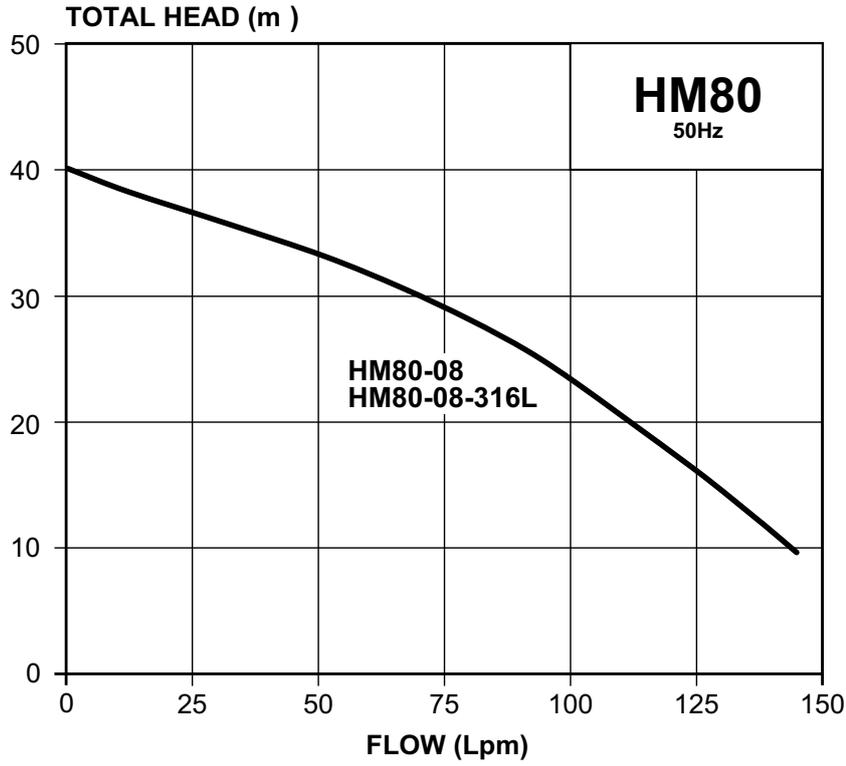
Designed with the serviceman and installer in mind:

- Suction and discharge are close for easier installation
- Quality components throughout for long life and easier maintenance

Every pump is tested in the factory to ensure quality and reliability.

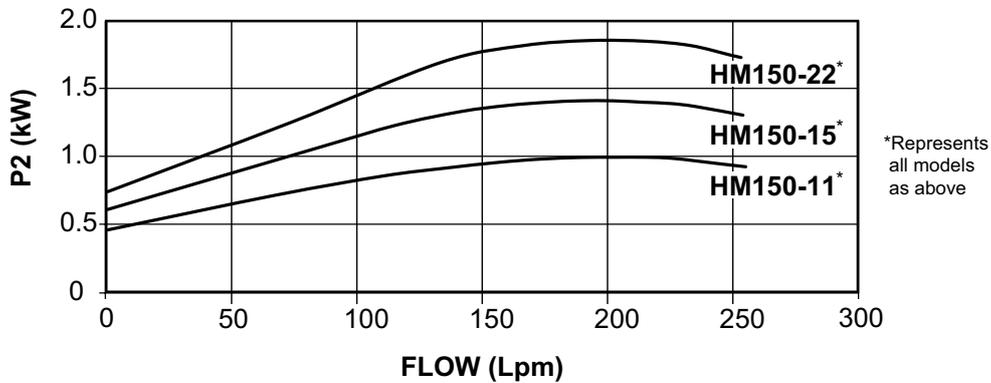
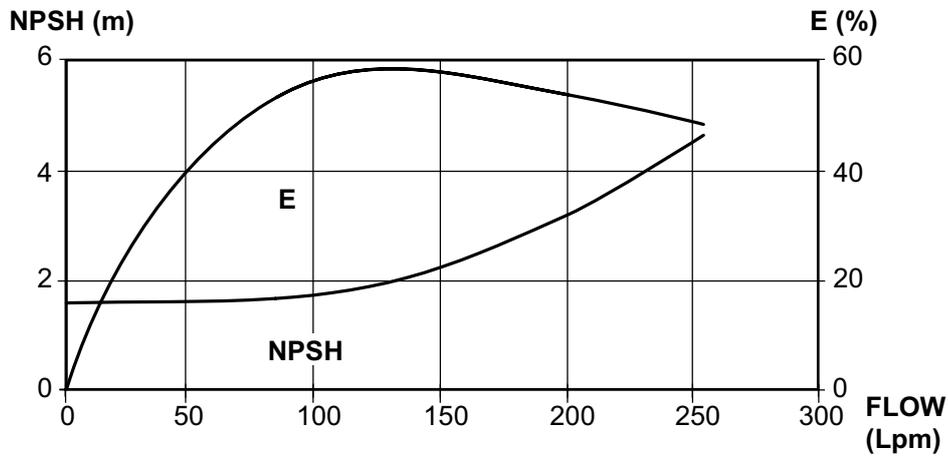
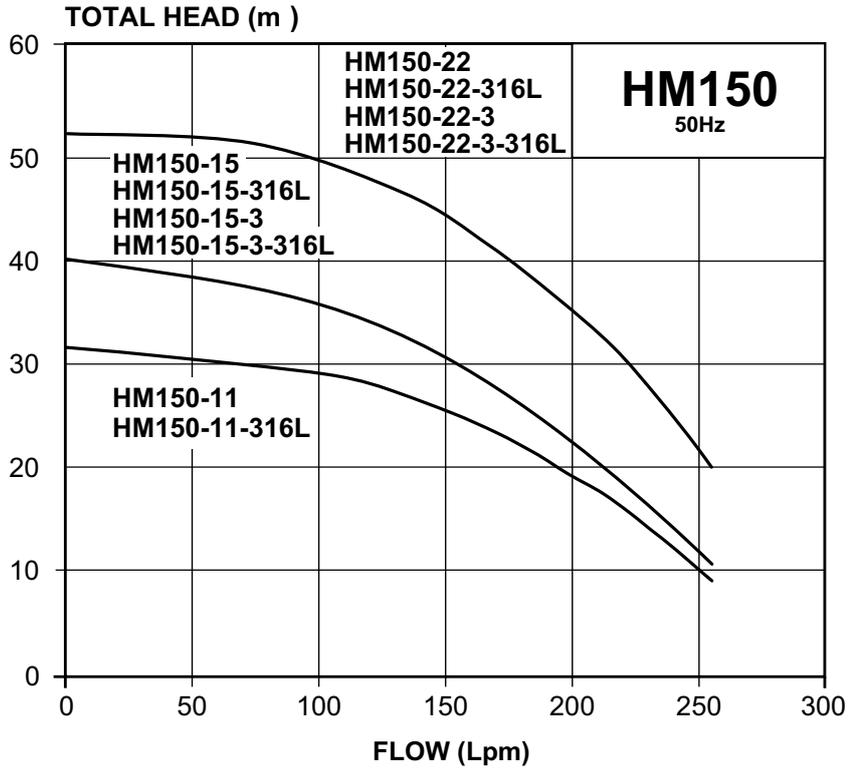
Horizontal Multistage Pumps

HYDRAULIC PERFORMANCE HM80



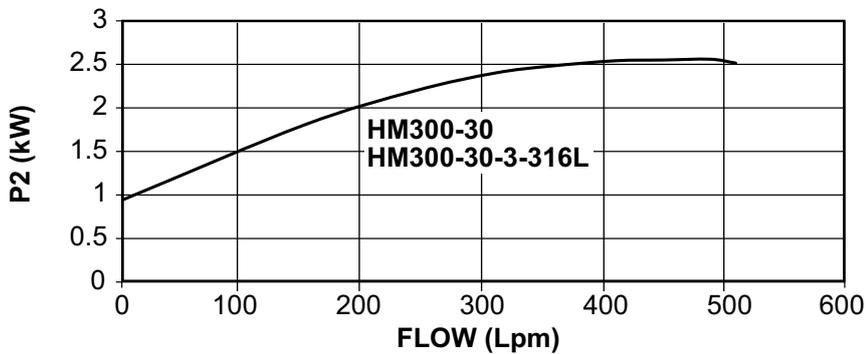
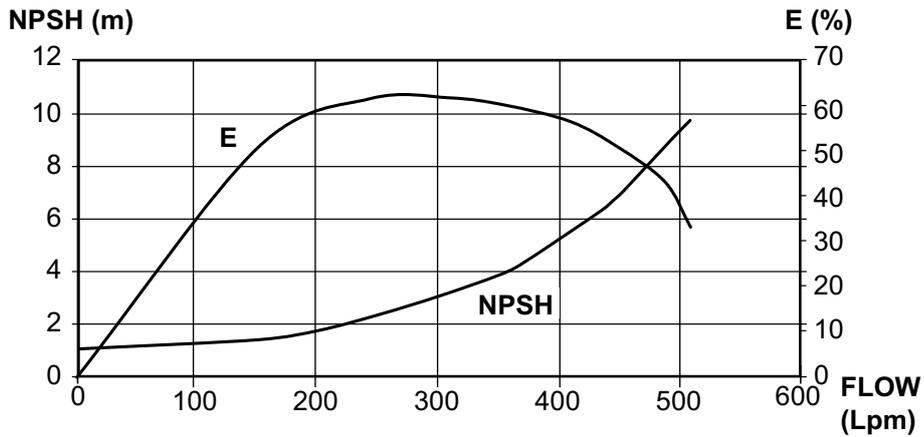
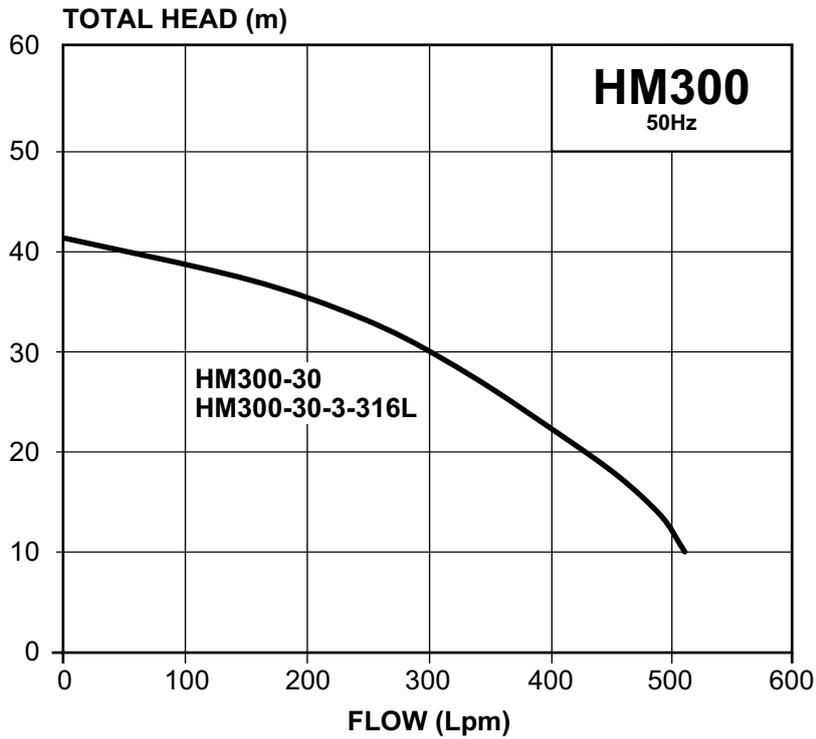
Horizontal Multistage Pumps

HYDRAULIC PERFORMANCE HM150



Horizontal Multistage Pumps

HYDRAULIC PERFORMANCE HM300



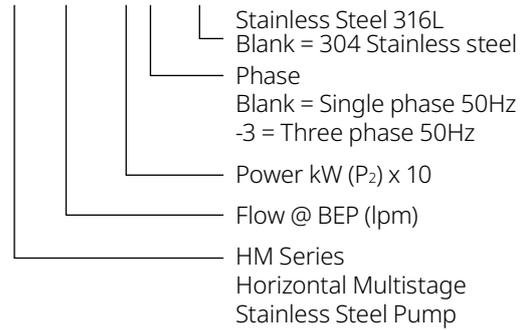
Horizontal Multistage Pumps

MATERIALS OF CONSTRUCTION

PART	MATERIAL	
	Standard	316L
Casing	304 stainless steel	316L stainless steel
Impellers	304 stainless steel	316L stainless steel
Stages (casing)	304 stainless steel	316L stainless steel
Pump shaft	316L stainless steel	
Stage centring device	304 stainless steel	316L stainless steel
Mechanical seal	EPDM/Carbon/ Silicon Carbide	Viton/Carbon/ Silicon Carbide
O-rings	EPDM	Viton
Plugs	316 stainless steel	
Motor shell and lantern bracket	Aluminium	
Motor feet	Aluminium	
Fan cowl	Aluminium	

IDENTIFICATION OF THE PUMP

HM 150 - 15-3-316L



ELECTRICAL DATA

Model	HM80-08	HM150-11	HM150-15	HM150-22	HM150-15-3	HM150-22-3	HM300-30-3
	HM80-08-316L	HM150-11-316L	HM150-15-316L	HM150-22-316L	HM150-15-3-316L	HM150-22-3-316L	HM300-30-3-316L
Nom speed (rpm)	2,900						
Supply voltage (V AC)	220-240			Δ 230, Y 400			
Phase	1			3			
Supply frequency (Hz)	50						
Power (P ₁)	0.99kW (1.3HP)	1.46kW (2HP)	1.68kW (2.2HP)	2.85kW (3.8HP)	1.68kW (2.2HP)	2.6kW (3.5HP)	3.5kW (4.7HP)
Power (P ₂)	0.75kW (1HP)	1.1kW (1.5HP)	1.35kW (1.8HP)	2.2kW (3HP)	1.35kW (1.8HP)	2.2kW (3HP)	3kW (4HP)
Current (A)	4.6	6.3	7.7	12.4	Δ 4.8, Y 2.5	Δ 7.78, Y 4.49	Δ 10.2, Y 5.9
Enclosure class	IP55						
Insulation	F						

OPERATING LIMITS

Model	HM80-08	HM150-11	HM150-15 / HM150-15-316L	HM150-22 / HM150-22-316L	HM300-30-3
	HM80-08-316L	HM150-11-316L	HM150-15-3 / HM150-15-3-316L	HM150-22-3 / HM150-22-3-316L	HM300-30-3-316L
Maximum flow	145 lpm	255 lpm	255 lpm	255 lpm	510 lpm
Nominal flow	80 lpm	133 lpm	133 lpm	133 lpm	266 lpm
Maximum head	40 m	32 m	40 m	52 m	41 m
Nominal head	32 m	27 m	36 m	45 m	35 m
Maximum ambient temperature	55 °C	55 °C	55 °C	55 °C	55 °C
Maximum water temperature	80 °C	80 °C	80 °C	80 °C	80 °C
Stages	4	3	4	5	3

Suitable fluids: Clean potable water of neutral pH containing no solids or abrasives.

DIMENSIONS (MM)

Model	A	C	F	H	H1	H2	H3 (H4)	M	N	N1	S	W	D	DNA	DNM	Weight (kg)
HM80-08 HM80-08-316L	136	170	425	176	88	88	180	30	100	130	7	91	92	1 1/4"	1"	10.2
HM150-11 HM150-11-316L	118	222	475	245	120	125	260	39	140	180	9	112	95	1 1/2"	1 1/2"	17.6
HM150-15 HM150-15-316L	178	222	535	245	120	125	260	39	140	180	9	112	95	1 1/2"	1 1/2"	22
HM150-22 HM150-22-316L	178	222	550	245	120	125	268	39	140	180	9	112	95	1 1/2"	1 1/2"	24.5
HM150-15-3 HM150-15-3-316L	178	222	535	245	120	125	230	39	140	180	9	112	95	1 1/2"	1 1/2"	22
HM150-22-3 HM150-22-3-316L	178	222	550	245	120	125	240	39	140	180	9	112	95	1 1/2"	1 1/2"	24.5
HM300-30-3 HM300-30-3-316L	186	222	550	250	120	130	240	39	140	180	9	112	95	2"	2"	25

