

HM Series



Model Numbers:
HM80-08, HM150-11,
HM150-15, HM150-15-3,
HM150-22, HM150-22-3,
HM300-30-3



COMPACT, ALL STAINLESS STEEL, MULTISTAGE PRESSURE SYSTEM

APPLICATION

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 530 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

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

- Permanently split capacitor (single phase models) starting for dependable and frequent starting every time

- 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:

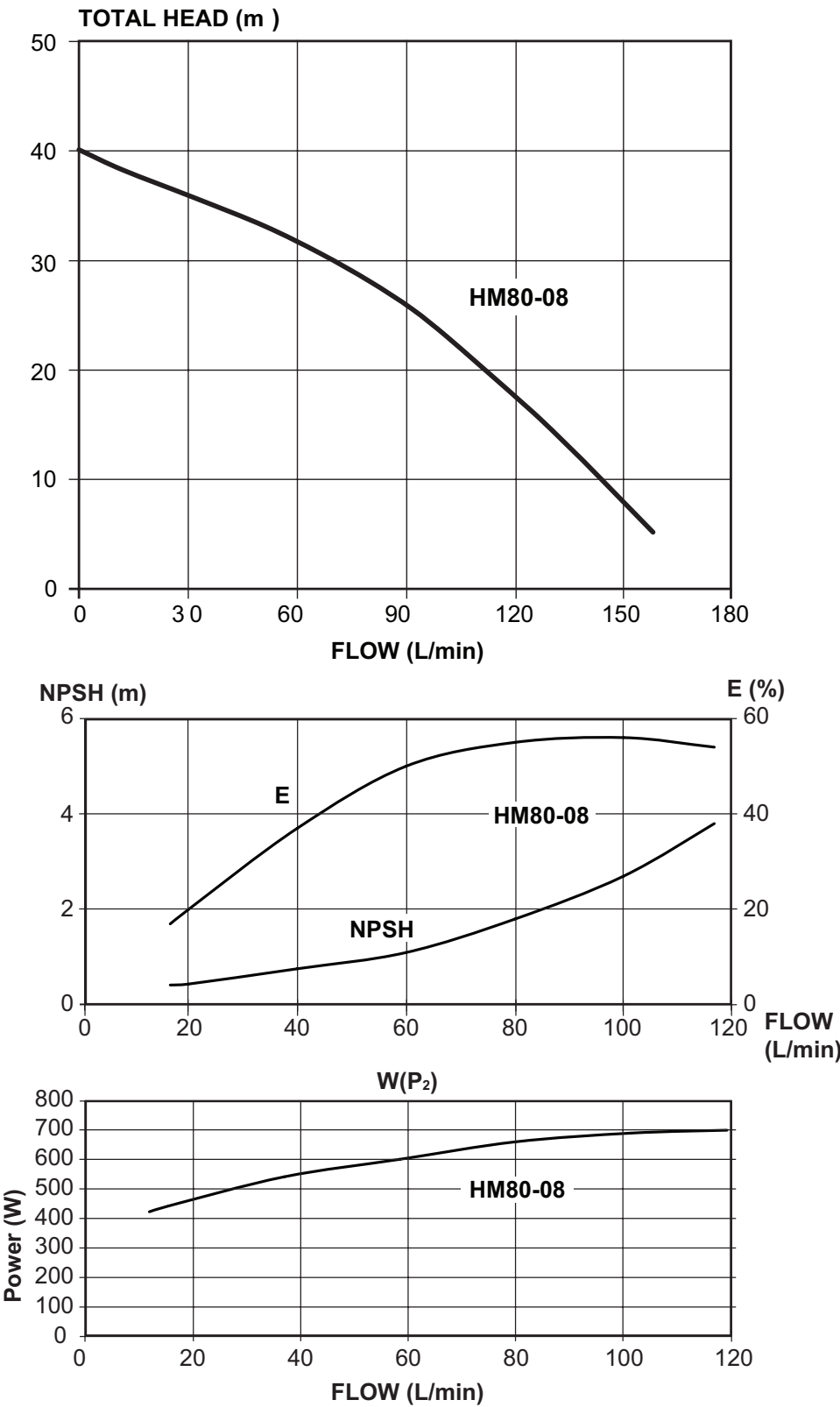
- Better sealing
- Longer service life

Designed with the serviceman and installer in mind:

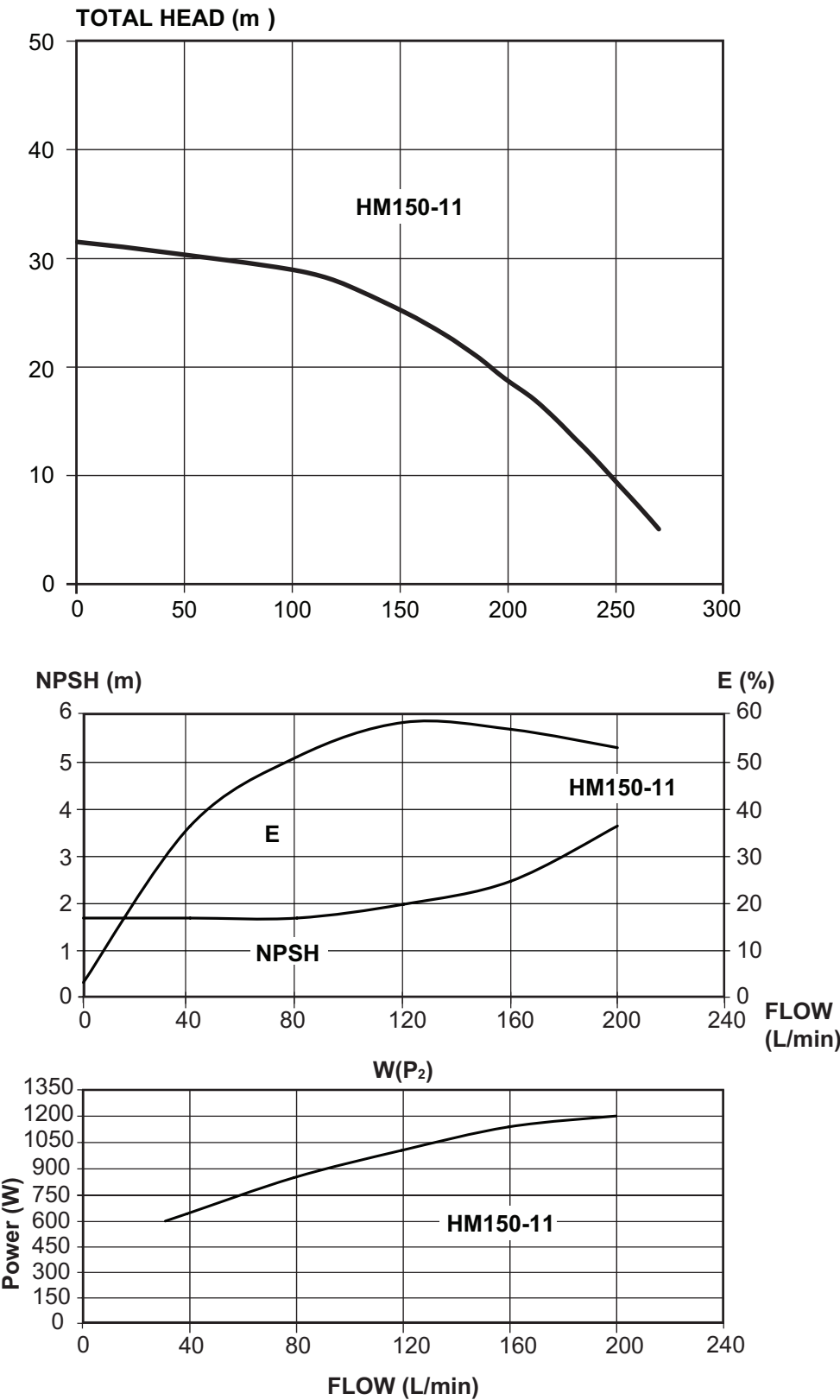
- Suction and discharge are close for easier installation
- Quality components throughout for long life and easier maintenance

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

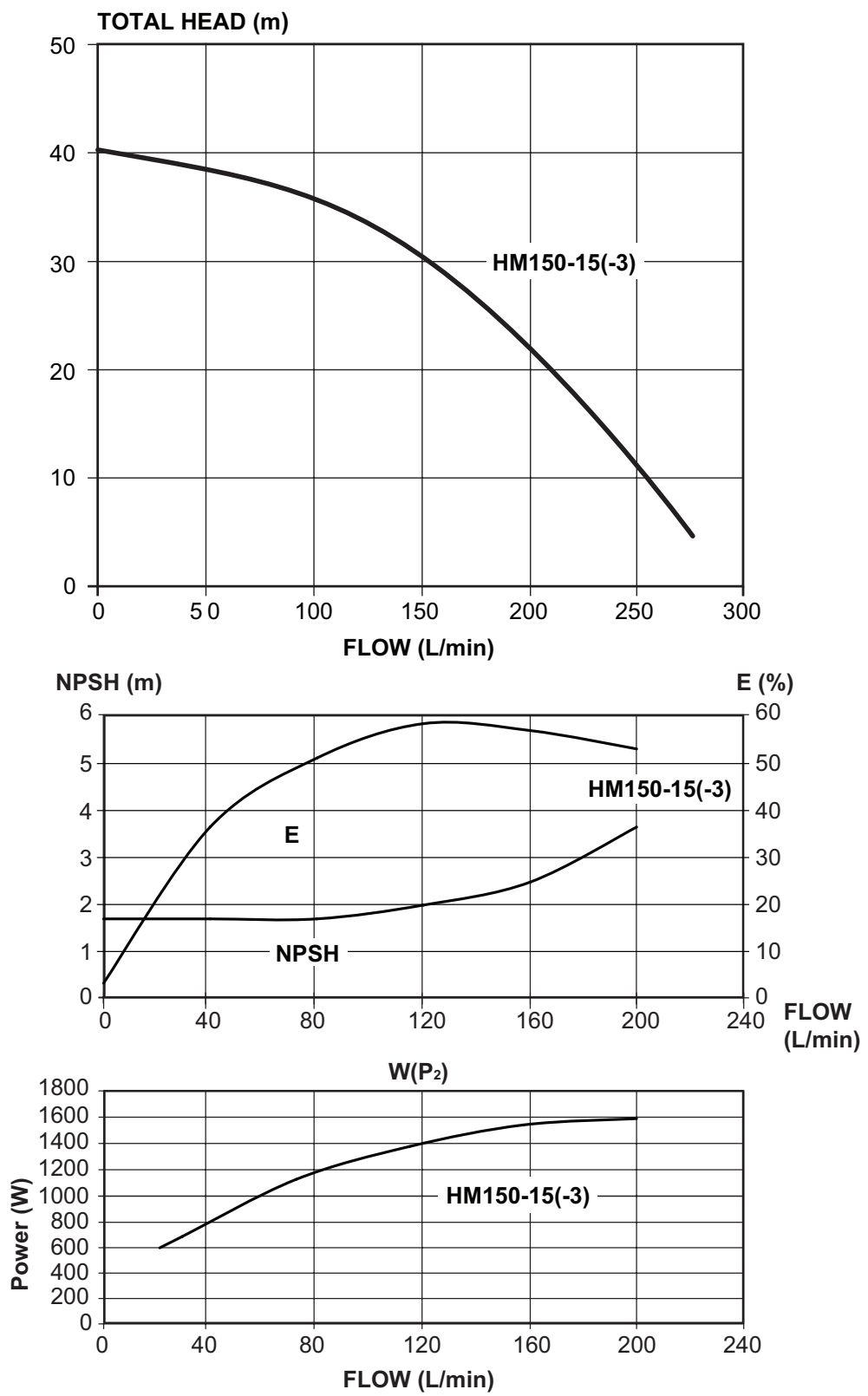
HYDRAULIC PERFORMANCE HM80-08



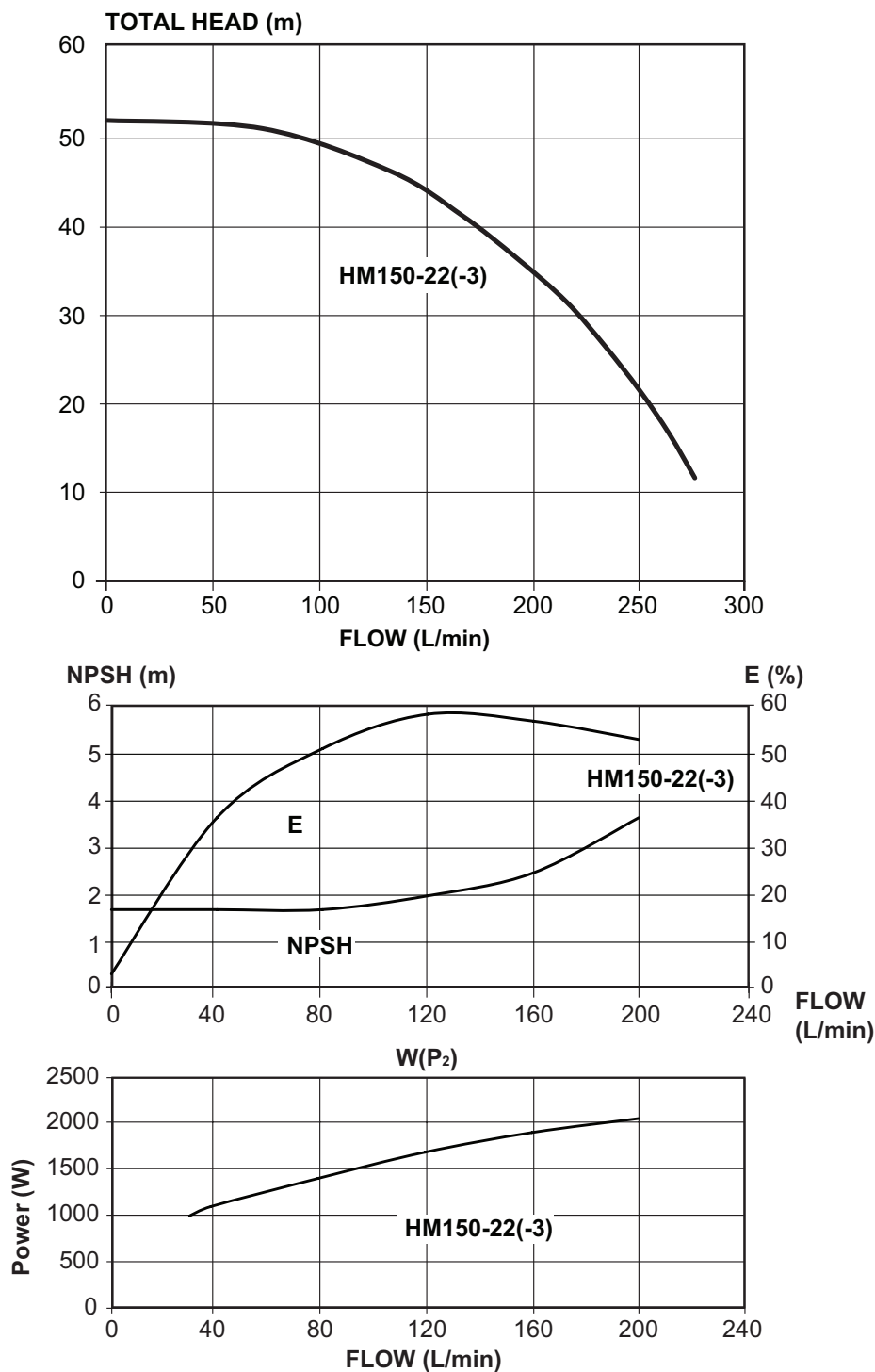
HYDRAULIC PERFORMANCE HM150-11



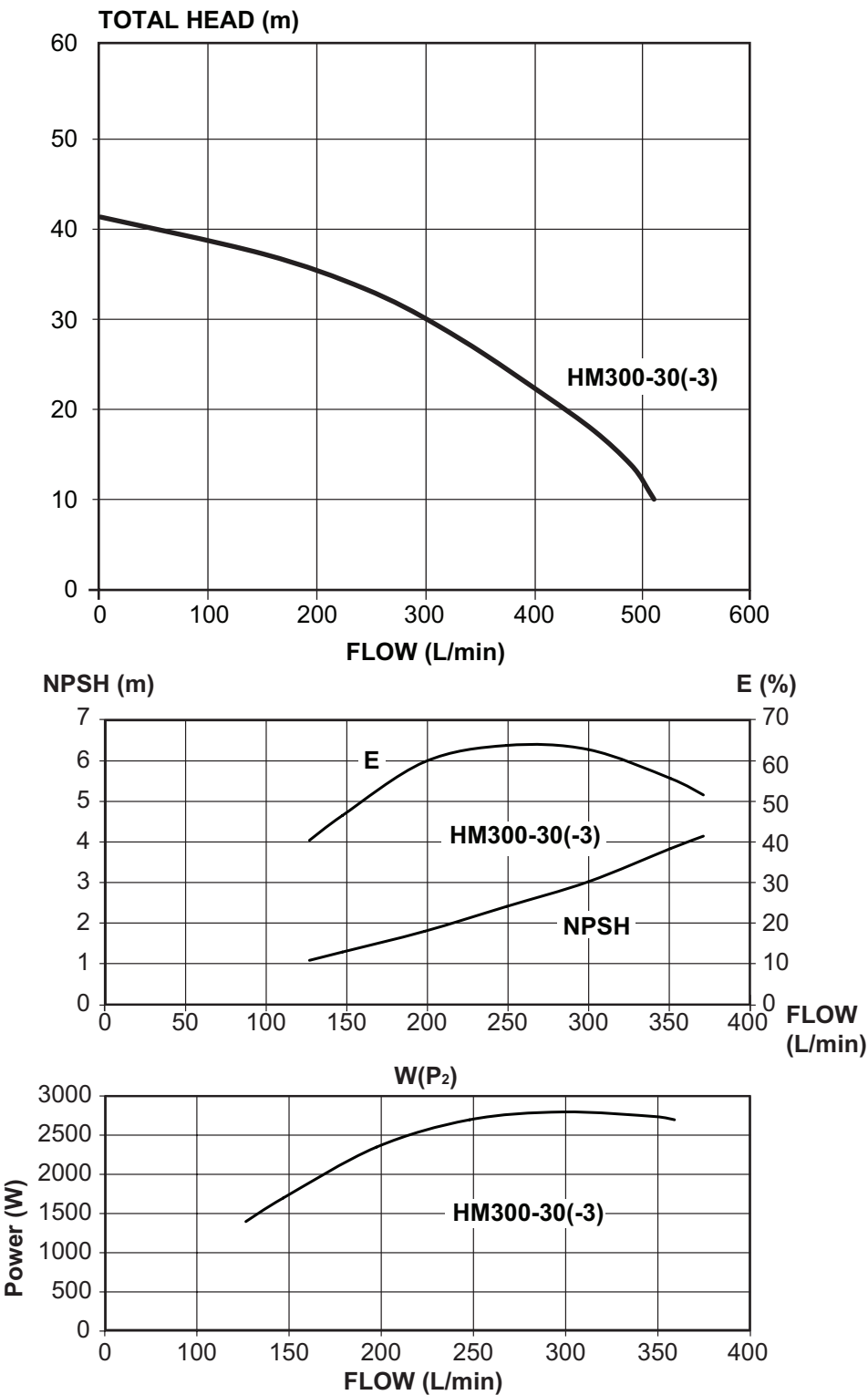
HYDRAULIC PERFORMANCE HM150-15



HYDRAULIC PERFORMANCE HM150-22



HYDRAULIC PERFORMANCE HM300-30



Home Pressure Systems

MATERIALS OF CONSTRUCTION

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

IDENTIFICATION OF THE PUMP

HM 150 - 15-3

Voltage/phase
 Blank = Single phase 50Hz
 -3 = Three phase 50Hz
 Power kW (P₂) x 10
 Flow @ BEP (lpm)
 HM Series
 Horizontal Multistage
 Stainless Steel Pump

ELECTRICAL DATA

Model	HM80-08	HM150-11	HM150-15	HM150-22	HM150-15-3	HM150-22-3	HM300-30-3
Nom speed (rpm)	2,900						
Supply voltage (V AC)	220-240				Δ 230, Y 400		
Phase	1				3		
Supply frequency (Hz)	50						
Power (P1)	990W (1.3HP)	1.46kW (2HP)	1,680W (2.2HP)	2.85kW (4HP)	1,680W (2.2HP)	2.6kW (3.5HP)	3.5kW (4.75HP)
Power (P2)	750W (1HP)	1.1kW (1.5HP)	1,500W (2HP)	2.2kW (3HP)	1,500W (2HP)	2.2kW (3HP)	3kW (4HP)
Current (A)	4.2	6.3	7.7	12.4	Δ 4.8, Y 2.5	7.50 / 4.33	9.8 / 5.7
Enclosure class	IP55						
Insulation	F						

OPERATING LIMITS

Model	HM80-08	HM150-11	HM150-15 / HM150-15-3	HM150-22 / HM150-22-3	HM300-30-3
Maximum flow	145 lpm	255 lpm	255 L/min	255 lpm	510 lpm
Nominal flow	67 lpm	133 lpm	133 lpm	133 lpm	266 lpm
Pressure head	40 m	32 m	40 m	50 m	44 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	136	170	425	176	88	88	180	30	100	130	7	91	92	1 1/4"	1"	10.2
HM150-11	118	222	475	245	120	125	260	39	140	180	9	112	95	1 1/2"	1 1/2"	17.6
HM150-15	178	222	535	245	120	125	260	39	140	180	9	112	95	1 1/2"	1 1/2"	22
HM150-22	178	222	550	245	120	125	268	39	140	180	9	112	95	1 1/2"	1 1/2"	24.5
HM150-15-3	178	222	535	245	120	125	230	39	140	180	9	112	95	1 1/2"	1 1/2"	22
HM150-22-3	178	222	535	245	120	125	240	39	140	180	9	112	95	1 1/2"	1 1/2"	24.5
HM300-30-3	186	222	550-	250	120	130	240	39	140	180	9	112	95	2"	2"	25

