

Model Numbers:
HS50-05, HS50-06, HS60-06 & HS60-08

DEPEND ON
DAVEY

TRANSFER PUMPS

PRODUCT DESCRIPTION

Robust & compact, 3 or 4 stage centrifugal pumps with corrosion resistant componentry and driven by a TEFC motor. Designed for total head duties to 50 m and flows to 110lpm

APPLICATIONS

Ideal for pumping clean, non-volatile liquids without fibres or solids in such applications as:-

- Household supply
- Irrigation
- Water transfer
- Washing systems
- Pressure Boosting

DESIGN FEATURES

PUMP

3 or 4 stage (impeller) design
Unique floating impeller neckrings
Closed vane impellers - "half blind" design
Stainless steel pump shaft
304 stainless steel casing
Inbuilt & removable inlet check valve
Mechanical shaft seal
Oring casing seal

MOTOR

Davey manufactured
TEFC with IP55 enclosure
Class F insulation
Permanently split capacitor design
Double contact C3-HTG sealed bearings
Inbuilt thermal overload protection
Plastic feet on motor shell
Heavy duty cast aluminium lantern bracket & drive end endshield
"Plug & Play" power lead

OPERATING LIMITS

Max. casing pressure
Capacities to
Max. Total Head
Max. Suction Head

| |
|---------|
| 1000kPa |
| 110 lpm |
| 50 m |
| 6 m |

Max. Ambient Temp.
Max. Water Temp.
Min. Water Temp.

| |
|------|
| 50°C |
| 50°C |
| 1°C |

BENEFITS

- Unique floating neckrings provide outstanding efficiency without compromising grit handling
- "Half blind" impellers maximise performance and help improve waterway clearances to reduce impeller blockages
- Manufactured from quality corrosion resistant materials
- TEFC motor corrosion resistant and protected against entry of dust and dirt
- Motor and pump designed for frequent starts
- Quick and easy installation
- Low maintenance
- Easy to service if required
- Low pressure loss through removable inbuilt check valve
- "Plug & Play" power lead allows easy system upgrade to a automatic water pressure system



TECHNICAL SPECIFICATIONS

MATERIALS OF CONSTRUCTION

| PART | MATERIAL |
|------------------------|--|
| Impellers | Glass filled polycarbonate |
| Lock nut | 304 stainless steel |
| Pump casing | 304 stainless steel |
| Pump backplate | 304 stainless steel |
| Pump shaft | 303 stainless steel |
| Neckrings | Polypropylene |
| Seal ring (stationary) | Ceramic |
| Seal ring (rotating) | Carbon (synthetic) |
| Seal spring | 304 stainless steel |
| Orings | Nitrile rubber |
| Stage body | Glass filled noryl |
| Suction check valve | |
| Body | Polypropylene |
| Spring | 304SS |
| Seal | Nitrile |
| Stage spacer | Glass filled nylon (3 stage models) |
| Priming plug | Glass filled noryl |
| Motor shell | Marine grade aluminium |
| Lantern/DE endshield | Marine grade aluminium |
| Shell & Lantern finish | Baked polyester |

ELECTRICAL DATA

| | HS50-05 | HS50-06 | HS60-06 | HS60-08 |
|--------------------------------|----------|---------|---------|---------|
| Supply voltage | 220-240V | | | |
| Supply frequency | 50Hz | | | |
| Full load current | 3.2A | 3.8A | 3.5A | 4.9A |
| Locked rotor current | 12A | 12A | 12A | 18A |
| Input power (P ₁) | .74kW | .89kW | .82kW | 1.1kW |
| Output power (P ₂) | .53kW | .6kW | .57kW | .76kW |
| Enclosure class | IP55 | | | |
| Insulation class | Class F | | | |
| Starting | P.S.C. | | | |

NOTE: All performance at 240V 50Hz

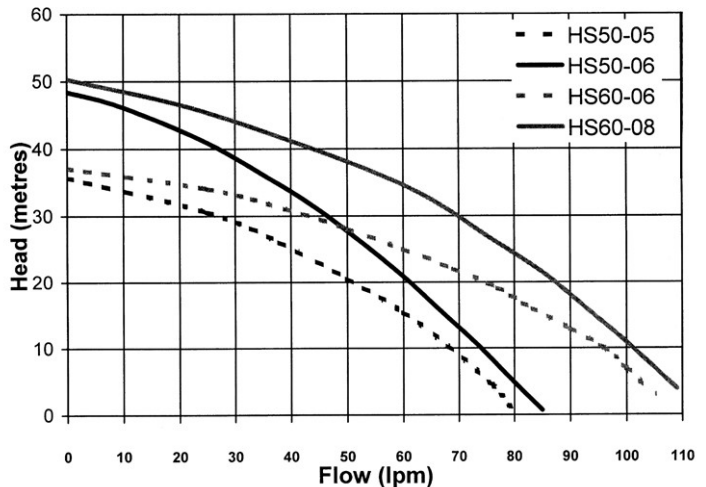
INSTALLATION & PRIMING

- Installations with suction lift require a good quality foot valve to avoid loss of prime - remove inbuilt check valve
- To prime, fill pump body and suction line through priming plug hole located above suction inlet and replace plug.

Note: This literature is not a complete guide to product usage. Further information is available from your Davey dealer, Davey Customer Service Centre and from the relevant product Installation and Operating Instructions. This data sheet must be read in conjunction with the relevant product Installation and Operating Instructions and all applicable statutory requirements. Product specifications may change without notice.

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HYDRAULIC PERFORMANCE



NOTE: All performance at 240V 50Hz

DIMENSIONS

The diagram consists of two views of a pump unit. The left view is a side profile showing the pump's length and various mounting and connection points. Dimension lines indicate: A (total length), F (distance from front flange to top outlet), D (height of the main body), and E (distance from front flange to rear flange). The right view is a front face view showing the circular pump housing with mounting feet. Dimension lines indicate: B (height of the pump body) and C (width of the pump body).

| MODEL | A | B | C | D | E | F | Mounting Holes Dia. | Inlet BSP | Outlet BSP | Net Weight kg. |
|---------|-----|-----|-----|-----|-----|-----|------------------------|-----------|------------|----------------|
| HS50-05 | 405 | 212 | 205 | 145 | 222 | 126 | 10 @ 140 centres | 1¼"F | 1"F | 8.9 |
| HS50-06 | 405 | 212 | 205 | 145 | 222 | 126 | | | | 8.8 |
| HS60-06 | 405 | 212 | 205 | 145 | 222 | 126 | | | | 8.9 |
| HS60-08 | 430 | 212 | 205 | 145 | 222 | 126 | | | | 10.3 |

All dimensions in mm unless otherwise stated.

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