

# DAVEY



Mukmova  
25301



Jumbo Mukmova  
MM07

## DAVEY Mukmova

### EFFLUENT MOVER

Model Number:  
25301, 25303,  
MM07/3, MM09/3

**GUARANTEE**  
1 YEAR

#### APPLICATIONS

Ideal for pumping water containing solids in suspension, such as effluent water, dairy or piggery waste, liquid food transfer, bentonite sludge and sawdust muds.

### FEATURES & BENEFITS

#### MUKMOVA

- Semi vortex open vane impeller
- Solid cast iron casing and impeller
- Mechanical seal is grease packed with grease nipple
- Inspection cover held by two wing nuts
- Choice of 240 / 480 volt single phase and 415 volt three phase, 50Hz models
- Single phase models are capacitor start/capacitor run design
- Automatic resetting motor overload in all single phase models
- Oversized motor used, with ample power reserve
- Davey manufactured TEFC, IP56 motor

#### JUMBO MUKMOVA

- Robust cast iron casing with thick walls for longer pump life
- Open impeller design allows for high solids passage (up to 25x40mm) with little chance of blockage
- Internal armoured volute plate made of nodular cast iron to resist the abrasive and corrosive action of liquids even with solids in suspension
- The armoured volute plate is fixed to the casing without screws for fast and easy removal
- Self-priming action allows the pump to prime without the need to fill the pipe and to be operated without a foot valve to reduce the risk of blockages
- Large priming and drain plugs for fast filling and draining of the pump casing
- Comes with companion flanges for easy installation of piping

# Effluent Pumps



## Installation & Priming

Fit strainer to bottom of suction pipe only where blockage of such a strainer is unlikely.

A foot valve is not required.

To prime pump, fill the pump casing with water then allow the pump to run until it draws water.

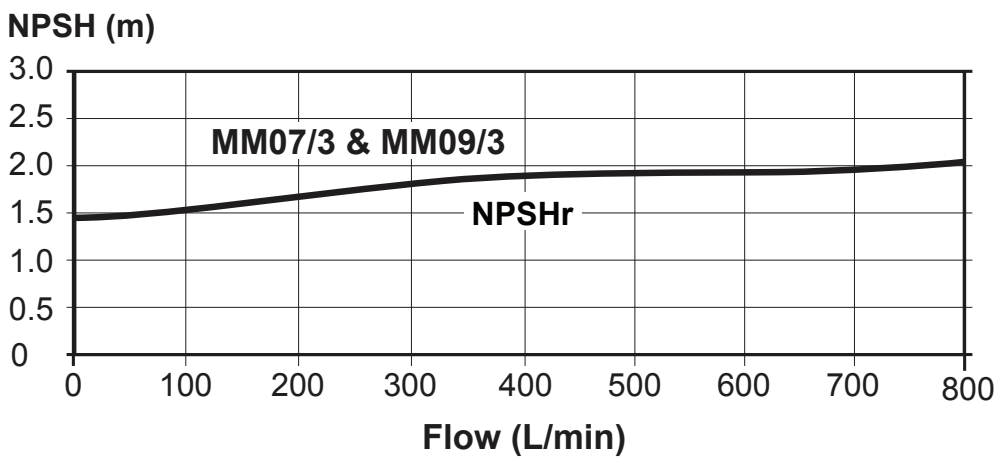
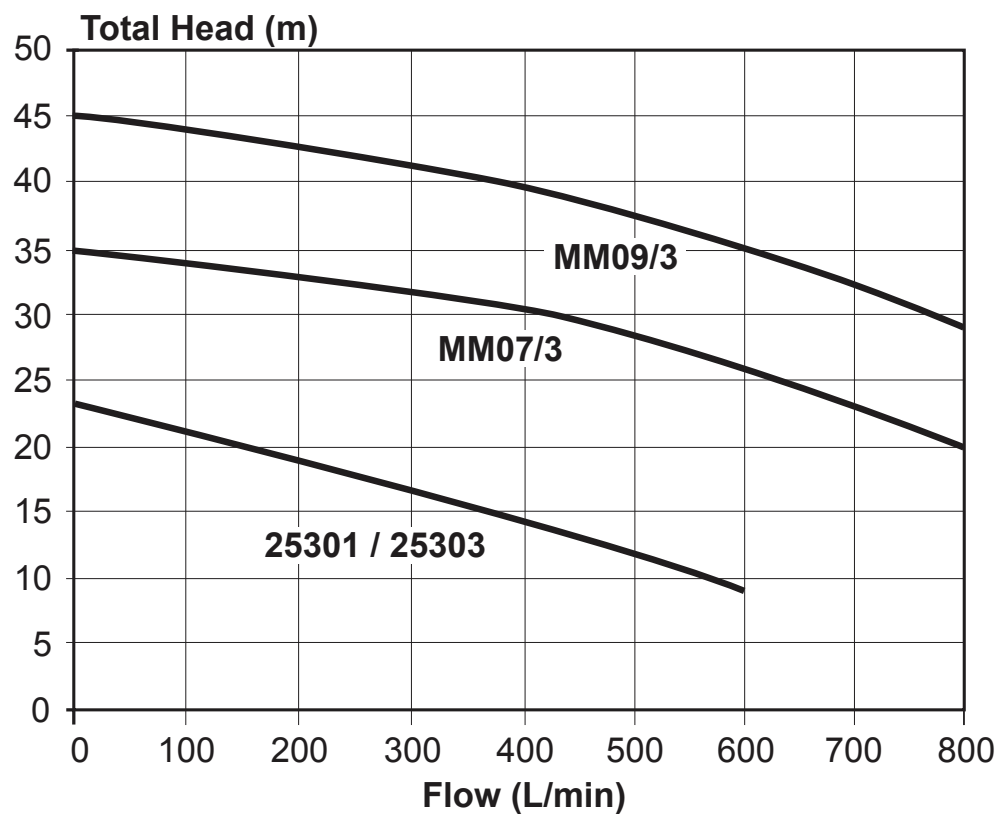
| MATERIALS OF CONSTRUCTION   |                       |
|-----------------------------|-----------------------|
| MUKMOVA 25301, 25303 MODELS |                       |
| PART                        | MATERIAL              |
| Suction cover               | Grey cast iron (T220) |
| Pump body & yoke            | Grey cast iron (T220) |
| Impeller                    | Grey cast iron (T220) |
| Inspection cover            | Grey cast iron (T220) |
| Inspection cover shims      | 304 stainless steel   |
| Inspection cover wing nuts  | Bronze ¾" BSW         |
| Seal ring (stationary)      | Ceramic               |
| Seal ring (rotating)        | Carbon                |
| Seal grease                 | BP energrease LS2     |
| O-rings & gaskets           | Nitrile rubber        |
| Priming plug                | Glass filled nylon 6  |

| MATERIALS OF CONSTRUCTION            |                         |
|--------------------------------------|-------------------------|
| JUMBO MUKMOVA MM07/3 & MM09/3 MODELS |                         |
| PART                                 | MATERIAL                |
| Casing                               | Cast Iron G20           |
| Armoured volute plate                | Nodular cast iron GS400 |
| Impeller                             | Nodular cast iron GS400 |
| Impeller washer                      | 304 stainless steel     |
| Inspection doors                     | Galvanised steel        |
| Mechanical seal (stationary face)    | Silicon carbide, Viton® |
| Mechanical seal (rotating face)      | Silicon carbide, Viton® |
| Shaft shim                           | Teflon                  |
| Gaskets                              | Paper fibre             |

| OPERATING LIMITS           |              |                |
|----------------------------|--------------|----------------|
| Model                      | 25301, 25303 | MM07/3, MM09/3 |
| Maximum flow (nil suction) | 600 lpm      | 800 lpm        |
| Maximum total head         | 22 metres    | 45 metres      |
| Maximum suction lift       | 6 metres     | 6 metres       |
| Max. soft solids size (mm) | 20mm         | 30mm x 40mm    |
| Maximum specific gravity   | 1.2          | 1.1            |
| Minimum water temp.        | 1°C          | 1°C            |
| Maximum water temp.        | 50°C         | 90°C           |
| Max. ambient temperature   | 50°C         | 50°C           |
| Minimum suction pipe size  | 2"           | 2"             |
| Inlet size                 | 2½" BSP(F)   | 2" BSP(F)      |
| Outlet size                | 2" BSP(F)    | 2" BSP(F)      |

| ELECTRICAL DATA  |         |       |       |        |        |
|--|---------|-------|-------|--------|--------|
| Model  | 25301   |       | 25303 | MM07/3 | MM09/3 |
| Supply Voltage   | 240V    | 480V  | 415V  |        |        |
| Phase  | Single  |       | Three |        |        |
| Input Power (P1)   | 2.6kW   |       | 2.4kW | 7.2kW  | 9.7kW  |
| Output Power (P2)  | 2.1kW   |       | 2.0kW |        |        |
| Capacitor - run  | 40µF    |       | -     | -      | -      |
| Capacitor - start  | 120µF   |       | -     | -      | -      |
| Full Load Current  | 11A     | 5.5A  | 4.2A  | 12.9   | 15.5   |
| Locked rotor current   | 70A     | 60.9A | 30.6A | 91     | tba    |
| Motor Efficiency   | 80%     | 80%   | 83%   | 91.5%  | 91.5%  |
| Insulation Class   | Class F |       |       |        |        |
| IP Rating  | IP56    |       |       | IP55   |        |
| Starting (1Ø)  | CSCR    |       | -     |        |        |
| Single phase models should be restricted to no more than 20 starts per hour.<br>Three phase (415V) models must be connected to a suitable magnetic contactor with M10 rated "quick trip" thermal overloads. Single phasing protection is strongly recommended. |         |       |       |        |        |

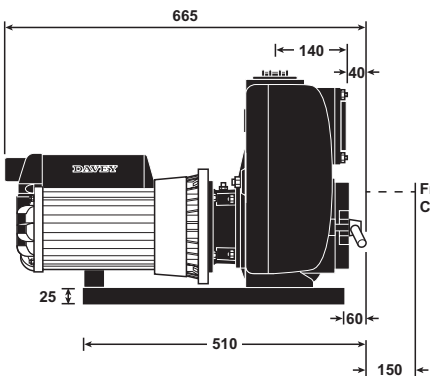
HYDRAULIC PERFORMANCE



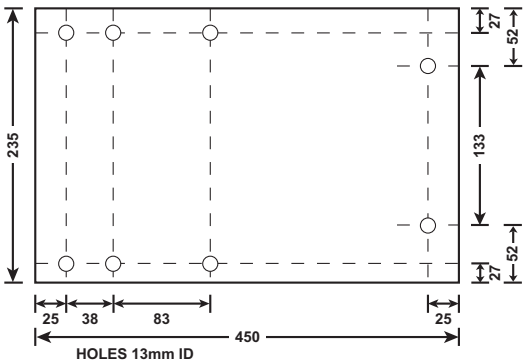
| Model  | Type          | kW (P2) | Voltage  | Inlet / Outlet |
|--------|---------------|---------|----------|----------------|
| 25301  | Mukmova       | 2.1     | 240/480V | 2½" F / 2" F   |
| 25303  | Mukmova       | 2       | 415V     | 2½" F / 2" F   |
| MM07/3 | Jumbo Mukmova | 7.5     | 415V     | 2" F / 2" F    |
| MM09/3 | Jumbo Mukmova | 9.2     | 415V     | 2" F / 2" F    |

## DIMENSIONS (mm)

### MUKMOVA 25301, 25303 MODELS



### Base Mounting Holes



### JUMBO MUKMOVA MM07/3 & MM09/3 MODELS

