

MUKMOVA
Model Numbers: 25301 & 25303

DEPEND ON
DAVEY

WATER PRODUCTS

**SELF PRIMING
SOLID HANDLING PUMP**

**PRODUCT
DESCRIPTION**

Single stage open vane, semi vortex self priming centrifugal pumps driven by single or three phase TEFC motors.

APPLICATIONS

Ideal for pumping effluent water or water containing soft solids in suspension, such as:

- Dairy or piggery waste
- Liquid food transfer
- Water transfer



Also available in 220 volt 60Hz single phase and 380 volt 60Hz three phase.

FEATURES & BENEFITS

Semi vortex open vane impeller

- Allows safe pumping of soft solids with little chance of blockage

Solid cast iron casing and impeller

- Long service life

Mechanical seal is grease packed with grease nipple

- Easy maintenance
- Able to withstand abrasives in the pumped fluid for longer

Inspection cover held by two wing nuts

- Easy access for cleaning
- Quick clearance adjustments

Choice of 240 / 480 volt single phase and 415 volt three phase, 50Hz models

- Making installation possible in most sites with electric power

Single phase models are capacitor start / capacitor run design

- Ensures ample starting torque with less likelihood of jamming when solids are present

Automatic resetting motor overload in all single phase models

- Protects the motor in the event of blockage or voltage supply problems

Davey manufactured TEFC, IP56 motor

- Resistant to vermin, dust and jets of water
- Able to be installed in wash down areas safely (subject to local regulations)

Oversized motor used, with ample power reserve

- More reliable in poor voltage and/or high ambient temperature installations
- Able to pump water with heavy soft solids without overloading the motor (up to SG 1.2)

Single phase models come complete with 1.8m lead with 15amp plug for easy connection to 240v power. 480v single phase and 415v 3 phase installations require "hard wiring".

OPERATING LIMITS

Max. flow (nil suction)	600lpm
Max. self prime (height)	6m
Max. soft solids (size)	20mm
Max. water temperature	70°C
Min. water temperature	1°C
Max. ambient temperature	50°C
Max. specific gravity	1.2
Inlet size	2 1/2" BSP(F)
Outlet sizes	2" BSP(F)



TECHNICAL SPECIFICATIONS

MATERIALS OF CONSTRUCTION

PART	MATERIAL
Suction cover	Cast iron*
Pump body & yoke	Cast iron*
Inspection cover	Cast iron*
Impeller	Cast iron*
Inspection cover shims	Stainless steel
Inspection cover wingnuts (size)	Bronze 3/8" BSW
Seal ring (stationary)	Ceramic
Seal ring (rotating)	Carbon
Seal grease	BP energrease LS2
Orings & gaskets	Nitrile rubber
Priming plug	Glass filled nylon 6

*Grade AS1830/T-180

ELECTRICAL DATA

	25301		25303
Supply voltage	240V	480V	415V
Phase	Single	Single	Three
Input power (P ₁)	2.6kW	2.6kW	2.4kW
Output power (P ₂)	2.1kW	2.1kW	2.0kW
Capacitor - run	40µF	40µF	-
Capacitor - start	120µF	120µF	-
Full load current	11A	5.5A	4.2A
Locked rotor current	70A	60.9A	30.6A
Motor eff (%) @ FL	80%	80%	83%
Insulation class	Class F		
IP rating	IP56		
Starting (1 phase)	CSCR	CSCR	N/A

Single phase units should be restricted to no more than 20 starts per hours. Three phase units must be connected via a magnetic contactor with "quick-trip" or M10 rated overloads. Single phasing protection is strongly recommended.

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, fill pump body with water then allow pump to run until drawing water
- 415v 3 phase motors must be connected to a suitable magnetic contactor with M10 rated "quick trip" thermal overloads

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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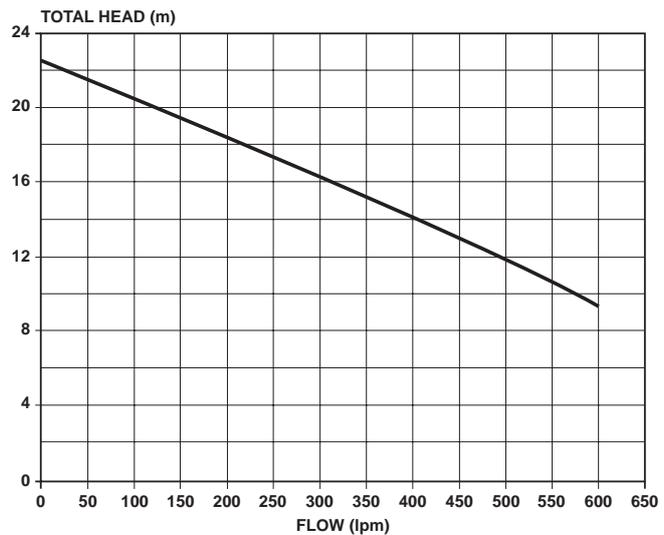
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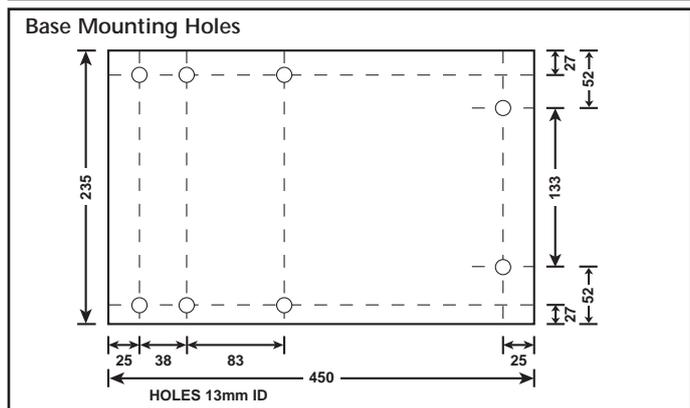
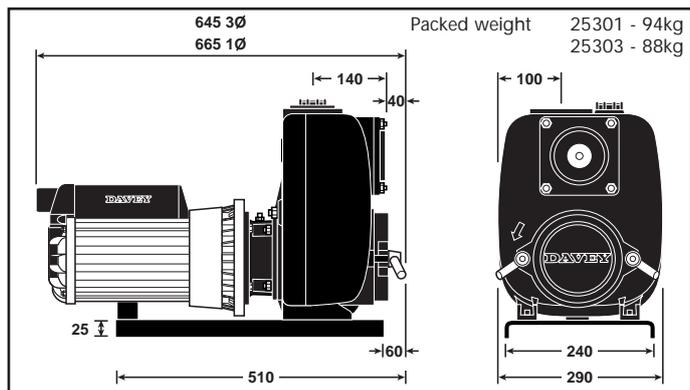
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HYDRAULIC PERFORMANCE



DIMENSIONS



All dimensions in mm unless otherwise stated.



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