

4" Borehole



Model Numbers: J Series



SLIMLINE SUBMERSIBLE BOREHOLE PUMPS

APPLICATION

Ideal for domestic water supply, turf watering, irrigation, stock watering, dewatering and fountains.

FEATURES & BENEFITS

- **Designed for flow rates up to 325 lpm and heads up to 275m.** Close coupled to a submersible electric motor.
- **Proven and reliable design** for harsh conditions
- **Manufactured from quality corrosion resistant materials** for long life
- **Specific impeller material selection** ensures optimal performance in sandy bores
- **25, 40 and 60 lpm models feature independently floating centrifugal (radial) impellers** to provide easy starting and long life - automatically adjusting to pumping conditions for each application
- **80, 110, 160 and 250lpm models feature locked stack partial mixed flow impellers with open waterways** to provide easy starting and long life
- **Heavy duty stainless steel outer casing shell** providing protection and accurate alignment of internal components
- **High quality shaft bearings** providing low friction and high wear resistance
- **Pump and motor** are easily serviceable
- **Heavy duty cast stainless steel discharge bowl with large durable lifting eye and built-in check valve** for long life and ease of installation
- **Strong hexagonal section drive shaft of premium stainless steel** ensures positive impeller drive and longer life
- **Available with either Davey DME Encapsulated motors or Davey DM Rewindable motors**

Submersible Borehole Pumps and Motors

OPERATING LIMITS

| | |
|---------------------------|--|
| Nominal flows | 25, 40, 60, 80, 110, 160 & 250 lpm |
| Maximum flow | 325 lpm (19.5m ³ /hr) |
| Heads | 275 metres |
| Motors | 0.37kW (1/2hp) to 7.5kW (10hp) |
| Maximum water temperature | 35°C |
| Pumped liquid | Clean, thin, non-aggressive liquids without solid particles or fibres. |

RECOMMENDED FLOW RANGE

| Model | Minimum flow (lpm) | Maximum flow (lpm) |
|-------|--------------------|--------------------|
| J25 | 15 | 31 |
| J40 | 30 | 45 |
| J60 | 44 | 70 |
| J80 | 50 | 100 |
| J110 | 80 | 140 |
| J160 | 100 | 210 |
| J250 | 150 | 310 |

PUMP STARTS

The average number of starts per day over a period of months or years influences the life of a submersible pumping system. Excessive cycling affects the life of control components such as pressure switches, starters, relays and capacitors, plus splines and bearings. Rapid cycling can also cause motor overheating and winding failures.

The pump size, tank size and other controls should be selected to keep the starts per day as low as practical for longest life. The maximum allowable number of starts per hour is 30.

Motors should be allowed to run a minimum of one minute to dissipate heat build up from starting current.

CHECK VALVES

All Davey submersible pumps are fitted with a check valve.

It is recommended that check valves be used in all submersible pump installations. A check valve should be installed in the discharge pipe within 7 metres of the pump, if the built-in check valve is not used.

TYPE KEY: COMPLETE PUMPS

| Example | | K | D | J | 5 | 25 | D | 2 | 1 | E |
|--------------------|---|---|---|---|---|----|---|---|---|---|
| Product Figuration | Complete Pump, Motor, Control box (where needed) and splice kit | X | | | | | | | | |
| Motor | Davey Motor | | X | | | | | | | |
| Pump Type | J-Series | | | X | | | | | | |
| Power | Fractional hp eg 0.5Hp | | | | X | | | | | |
| Rated Flow | lpm | | | | | X | | | | |
| Wire | 2 or 3 | | | | | | | X | | |
| Phase | 1 or 3 | | | | | | | | X | |
| Motor Type | E = DM Rewindable E = DME Encapsulated | | | | | | | | | X |

MATERIALS OF CONSTRUCTION

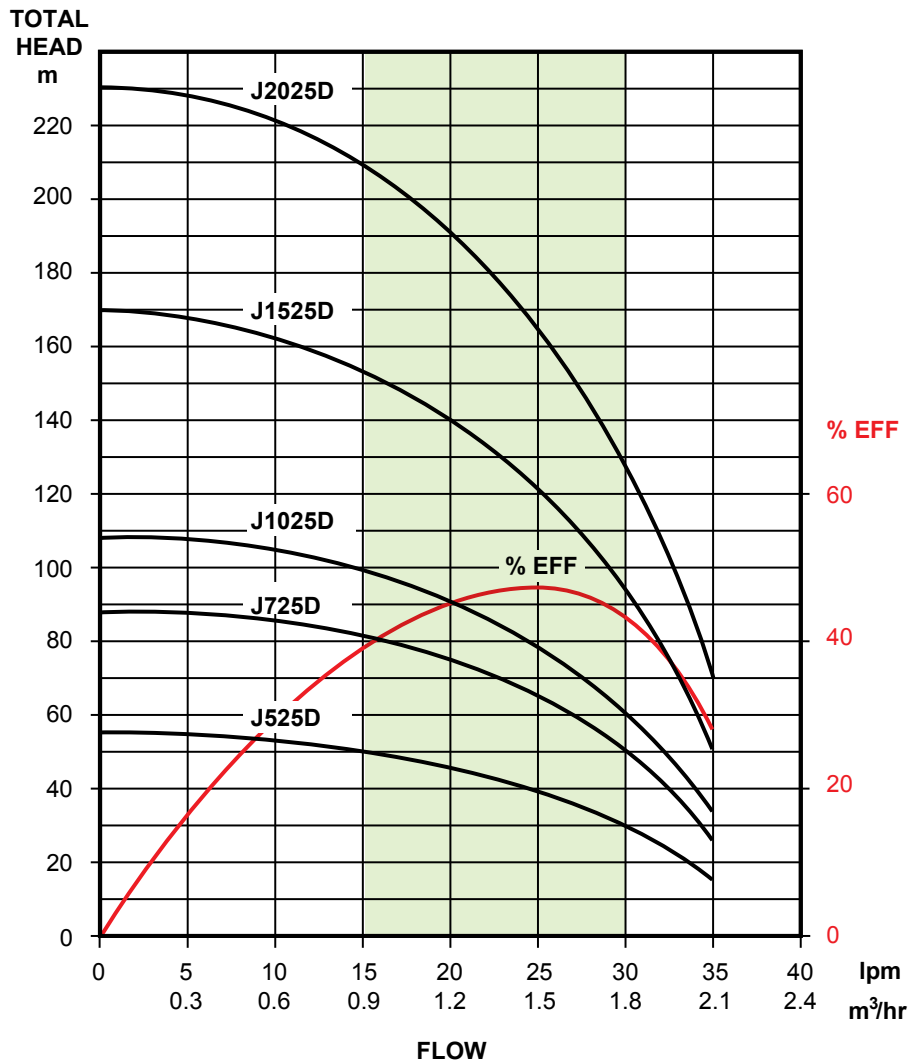
| | Models: 25, 40 & 60 lpm | Models: 80, 110, 160 & 250 lpm |
|---------------------------|---|--------------------------------|
| Discharge | 303 stainless steel | |
| Impeller | Polyester with Teflon fill | Glass-filled Polycarbonate |
| Diffuser | Polyester with Teflon fill | Glass-filled Polycarbonate |
| Shaft guide bearing | Buna-N | |
| Pump casing | 304 stainless steel | |
| Shaft and coupling | 303 stainless steel | |
| Wear rings | 304 stainless steel | |
| Check valve | Polyester with Teflon fill | 303 SS and Acetal |
| Cable guard | 304 stainless steel | |
| Thrust washer (ea. stage) | Phenolic | Nyloil |
| Fasteners | 302-304 stainless steel | |
| Lower mounting bracket | Stainless steel reinforced composite for up to 1.1kW, full SS 1.5kW and 2.2kW | 304 stainless steel |
| Suction strainer | 304 stainless steel | 304 stainless steel |
| Design Features | | |
| Impellers | Floating | Fixed |
| Check valve | Internal non-spin | External |

DIMENSIONS (MM) AND WEIGHTS (Kg)

| Model | Discharge BSP Female | Motor Power (P ₂) | | Stages | Pump Details | | Assembled Units | | | |
|---------|----------------------|-------------------------------|-------|--------|--------------|--------|-----------------|--------|-------------|--------|
| | | kW | hp | | Length | Weight | Single Phase | | Three Phase | |
| | | | | | | | Length | Weight | Length | Weight |
| J525D | 1 1/4" | 0.37 | 1/2 | 8 | 432 | 4.1 | 757 | 11.1 | 757 | 10.6 |
| J725D | 1 1/4" | 0.55 | 3/4 | 13 | 532 | 5.5 | 857 | 13.1 | 857 | 12.5 |
| J1025D | 1 1/4" | 0.75 | 1 | 16 | 584 | 6.4 | 934 | 15.1 | 909 | 14.0 |
| J1525D | 1 1/4" | 1.10 | 1 1/2 | 25 | 826 | 8.2 | 1211 | 18.5 | 1176 | 16.9 |
| J2025D | 1 1/4" | 1.50 | 2 | 33 | 990 | 11.8 | 1410 | 23.8 | 1375 | 22.2 |
| J540D | 1 1/4" | 0.37 | 1/2 | 6 | 327 | 4.1 | 652 | 11.1 | 652 | 10.6 |
| J740D | 1 1/4" | 0.56 | 1/2 | 9 | 396 | 4.8 | 721 | 12.4 | 721 | 11.8 |
| J1040D | 1 1/4" | 0.75 | 1 | 12 | 466 | 5.4 | 816 | 14.1 | 791 | 13.0 |
| J1540D | 1 1/4" | 1.10 | 1 1/2 | 19 | 618 | 7.0 | 1003 | 17.3 | 968 | 15.7 |
| J2040MD | 1 1/4" | 1.50 | 2 | 24 | 736 | 8.6 | 1156 | 20.6 | 1121 | 19.0 |
| J3040MD | 1 1/4" | 2.20 | 3 | 38 | 1075 | 12.7 | 1545 | 26.9 | 1495 | 24.7 |
| J760D | 1 1/4" | 0.55 | 3/4 | 6 | 352 | 4.3 | 677 | 11.9 | 677 | 11.3 |
| J1060D | 1 1/4" | 0.75 | 1 | 9 | 431 | 5.0 | 781 | 13.7 | 756 | 12.6 |
| J1560D | 1 1/4" | 1.10 | 1 1/2 | 13 | 537 | 5.9 | 922 | 16.2 | 887 | 14.6 |
| J2060MD | 1 1/4" | 1.50 | 2 | 17 | 646 | 7.3 | 1066 | 19.3 | 1031 | 17.7 |
| J3060MD | 1 1/4" | 2.20 | 3 | 27 | 929 | 10.9 | 1399 | 25.1 | 1349 | 22.9 |
| J1080D | 2" | 0.75 | 1 | 8 | 513 | 6.1 | 863 | 14.8 | 838 | 13.7 |
| J1580D | 2" | 1.10 | 1 1/2 | 11 | 665 | 7.6 | 1050 | 17.9 | 1015 | 16.3 |
| J2080MD | 2" | 1.50 | 2 | 15 | 819 | 9.1 | 1239 | 21.1 | 1204 | 19.5 |
| J3080MD | 2" | 2.20 | 3 | 23 | 1128 | 12.2 | 1598 | 26.4 | 1548 | 24.2 |
| J15110D | 2" | 1.10 | 1 1/2 | 8 | 618 | 8.2 | 1003 | 18.5 | 968 | 16.9 |
| J20110D | 2" | 1.50 | 2 | 11 | 761 | 10.0 | 1181 | 22.0 | 1146 | 20.4 |
| J30110D | 2" | 2.20 | 3 | 17 | 1040 | 13.7 | 1510 | 27.9 | 1460 | 25.7 |
| J50110D | 2" | 3.70 | 5 | 28 | 1554 | 28.5 | 2134 | 50.5 | 1974 | 40.5 |
| J15160D | 2" | 1.10 | 1 1/2 | 7 | 652 | 7.6 | 1037 | 17.9 | 1002 | 16.3 |
| J20160D | 2" | 1.50 | 2 | 10 | 838 | 9.4 | 1258 | 21.4 | 1223 | 19.8 |
| J30160D | 2" | 2.20 | 3 | 15 | 1148 | 12.5 | 1618 | 26.7 | 1568 | 24.5 |
| J50160D | 2" | 3.70 | 5 | 25 | 1765 | 27.6 | 2345 | 49.6 | 2185 | 39.6 |
| J20250D | 2" | 1.50 | 2 | 8 | 943 | 9.0 | 1363 | 21.0 | 1328 | 19.4 |
| J30250D | 2" | 2.20 | 3 | 12 | 1293 | 20.0 | 1763 | 34.2 | 1713 | 32.0 |
| J50250D | 2" | 3.70 | 5 | 21 | 2080 | 27.2 | 2660 | 49.2 | 2500 | 39.2 |

Submersible Borehole Pumps and Motors

HYDRAULIC PERFORMANCE (25 lpm models)



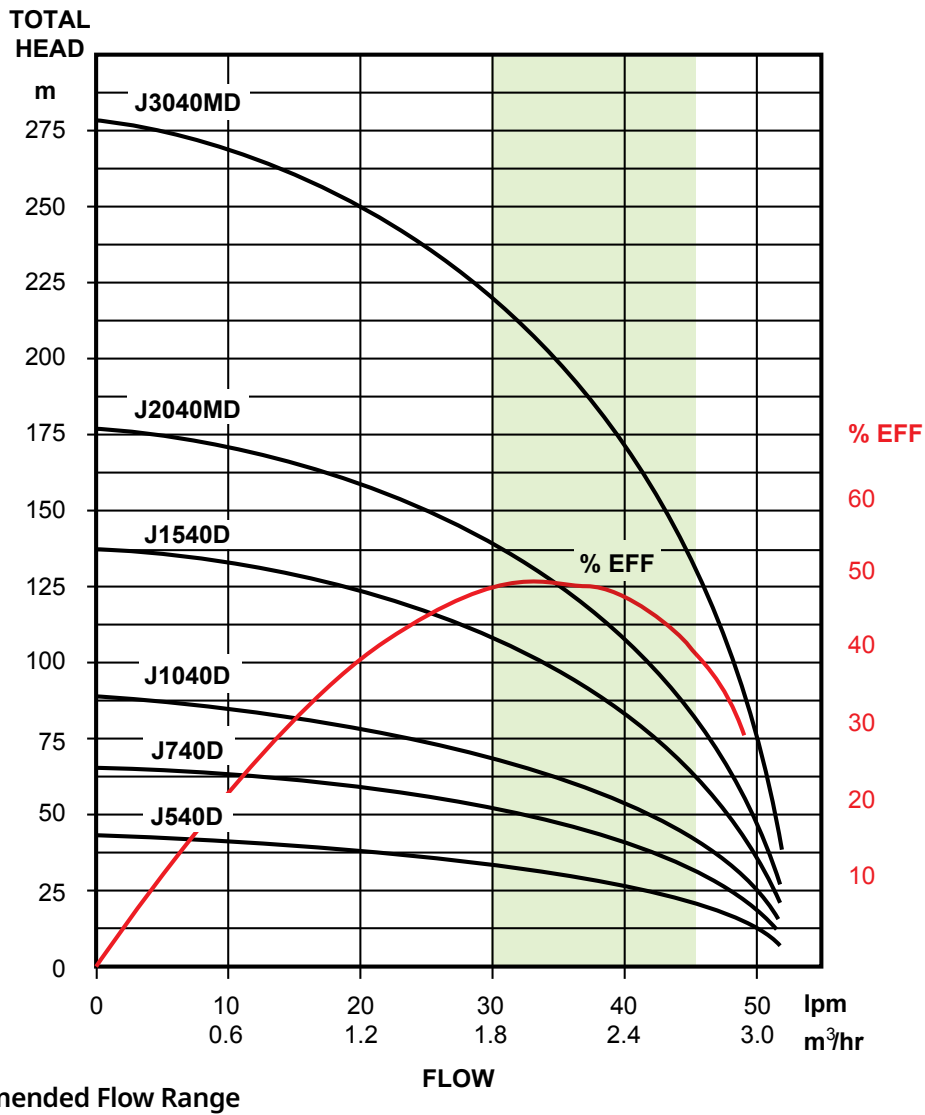
Recommended Flow Range

25 lpm Models

| Pump Type | kW | Motor | DME – ENCAPSULATED MOTOR | | | DM – REWINDABLE MOTOR | | | | |
|-----------|------|-----------|----------------------------------|-----------|--------------------|-----------------------|----------------------------------|----------|-------------------|------------------|
| | | | Pump, Motor, and Control Box Kit | DME Motor | Control Box – CSCR | Cable Splice Kit | Pump, Motor, and Control Box Kit | DM Motor | Control Box – PSC | Cable Splice Kit |
| J525D | 0.37 | 230V - 2W | KDJ525D21E | DME1037W2 | * | 31264 | KDJ525D21 | DM1037W2 | * | 31264 |
| | | 230V - 3W | KDJ525D31E | DME1037 | 20200070 | 31263 | KDJ525D31 | DM1037 | 14020015 | 31263 |
| | | 415V | KDJ525D33E | DME3037 | * | 31263 | KDJ525D33 | DM3037 | * | 31263 |
| J725D | 0.55 | 230V - 2W | KDJ725D21E | DME1055W2 | * | 31264 | KDJ725D21 | DM1055W2 | * | 31264 |
| | | 230V - 3W | KDJ725D31E | DME1055 | 20200080 | 31263 | KDJ725D31 | DM1055 | 14020035 | 31263 |
| | | 415V | KDJ725D33E | DME3055 | * | 31263 | KDJ725D33 | DM3055 | * | 31263 |
| J1025D | 0.75 | 230V - 2W | KDJ1025D21E | DME1075W2 | * | 31264 | KDJ1025D21 | DM1075W2 | * | 31264 |
| | | 230V - 3W | KDJ1025D31E | DME1075 | 20200090 | 31263 | KDJ1025D31 | DM1075 | 14020055 | 31263 |
| | | 415V | KDJ1025D33E | DME3075 | * | 31263 | KDJ1025D33 | DM3075 | * | 31263 |
| J1525D | 1.10 | 230V - 2W | KDJ1525D21E | * | * | 31264 | KDJ1525D21 | DM1110W2 | * | 31264 |
| | | 230V - 3W | KDJ1525D31E | DME1110 | 20200100 | 31263 | KDJ1525D31 | DM1110 | 14020075 | 31263 |
| | | 415V | KDJ1525D33E | DME3110 | * | 31263 | KDJ1525D33 | DM3110 | * | 31263 |
| J2025D | 1.50 | 230V - 3W | KDJ2025D31E | DME1150 | 20200115 | 31263 | KDJ2025D31 | DM1150 | 14020090 | 31263 |
| | | 415V | KDJ2025D33E | DME3150 | * | 31263 | KDJ2025D33 | DM3150 | * | 31263 |

Submersible Borehole Pumps and Motors

HYDRAULIC PERFORMANCE (40 lpm models)

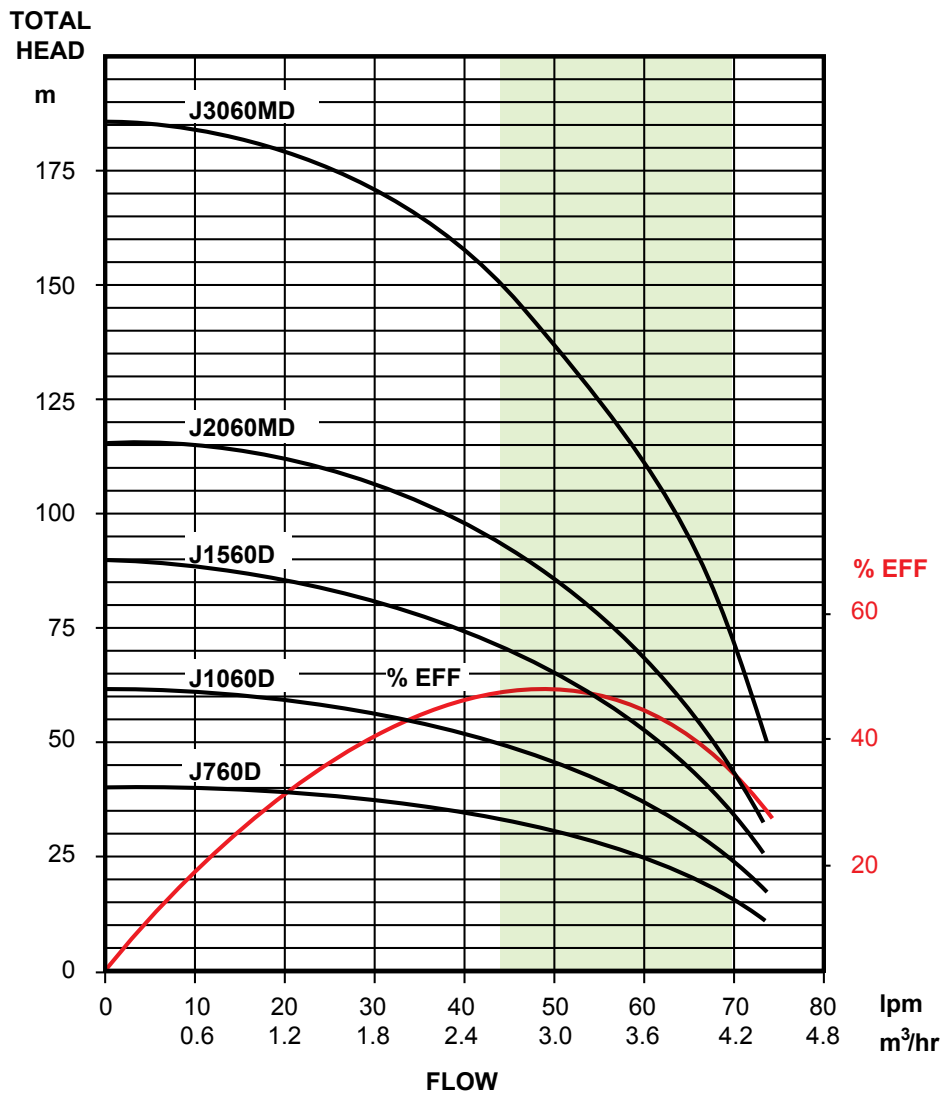


40 lpm Models

| Pump Type | kW | Motor | DME – ENCAPSULATED MOTOR | | | | DM – REWINDABLE MOTOR | | | |
|-----------|------|-----------|----------------------------------|-----------|--------------------|------------------|----------------------------------|----------|-------------------|------------------|
| | | | Pump, Motor, and Control Box Kit | DME Motor | Control Box – CSCR | Cable Splice Kit | Pump, Motor, and Control Box Kit | DM Motor | Control Box – PSC | Cable Splice Kit |
| J540D | 0.37 | 230V - 2W | KDJ540D21E | DME1037W2 | * | 31264 | KDJ540D21 | DM1037W2 | * | 31264 |
| | | 230V - 3W | KDJ540D31E | DME1037 | 20200070 | 31263 | KDJ540D31 | DM1037 | 14020015 | 31263 |
| | | 415V | KDJ540D33E | DME3037 | * | 31263 | KDJ540D33 | DM3037 | * | 31263 |
| J740D | 0.55 | 230V - 2W | KDJ740D21E | DME1055W2 | * | 31264 | KDJ740D21 | DM1055W2 | * | 31264 |
| | | 230V - 3W | KDJ740D31E | DME1055 | 20200080 | 31263 | KDJ740D31 | DM1055 | 14020035 | 31263 |
| | | 415V | KDJ740D33E | DME3055 | * | 31263 | KDJ740D33 | DM3055 | * | 31263 |
| J1040D | 0.75 | 230V - 2W | KDJ1040D21E | DME1075W2 | * | 31264 | KDJ1040D21 | DM1075W2 | * | 31264 |
| | | 230V - 3W | KDJ1040D31E | DME1075 | 20200090 | 31263 | KDJ1040D31 | DM1075 | 14020055 | 31263 |
| | | 415V | KDJ1040D33E | DME3075 | * | 31263 | KDJ1040D33 | DM3075 | * | 31263 |
| J1540D | 1.10 | 230V - 2W | KDJ1540D21E | * | * | 31264 | KDJ1540D21 | DM1110W2 | * | 31264 |
| | | 230V - 3W | KDJ1540D31E | DME1110 | 20200100 | 31263 | KDJ1540D31 | DM1110 | 14020075 | 31263 |
| | | 415V | KDJ1540D33E | DME3110 | * | 31263 | KDJ1540D33 | DM3110 | * | 31263 |
| J2040MD | 1.50 | 230V - 3W | KDJ2040D31E | DME1150 | 20200115 | 31263 | KDJ2040D31 | DM1150 | 14020090 | 31263 |
| | | 415V | KDJ2040D33E | DME3150 | * | 31263 | KDJ2040D33 | DM3150 | * | 31263 |
| J3040MD | 2.20 | 230V - 3W | KDJ3040D31E | DME1220 | 20200130 | 31263 | KDJ3040D31 | DM1220 | 14020095 | 31263 |
| | | 415V | KDJ3040D33E | DME3220 | * | 31263 | KDJ3040D33 | DM3220 | * | 31263 |

Submersible Borehole Pumps and Motors

HYDRAULIC PERFORMANCE (60 lpm models)



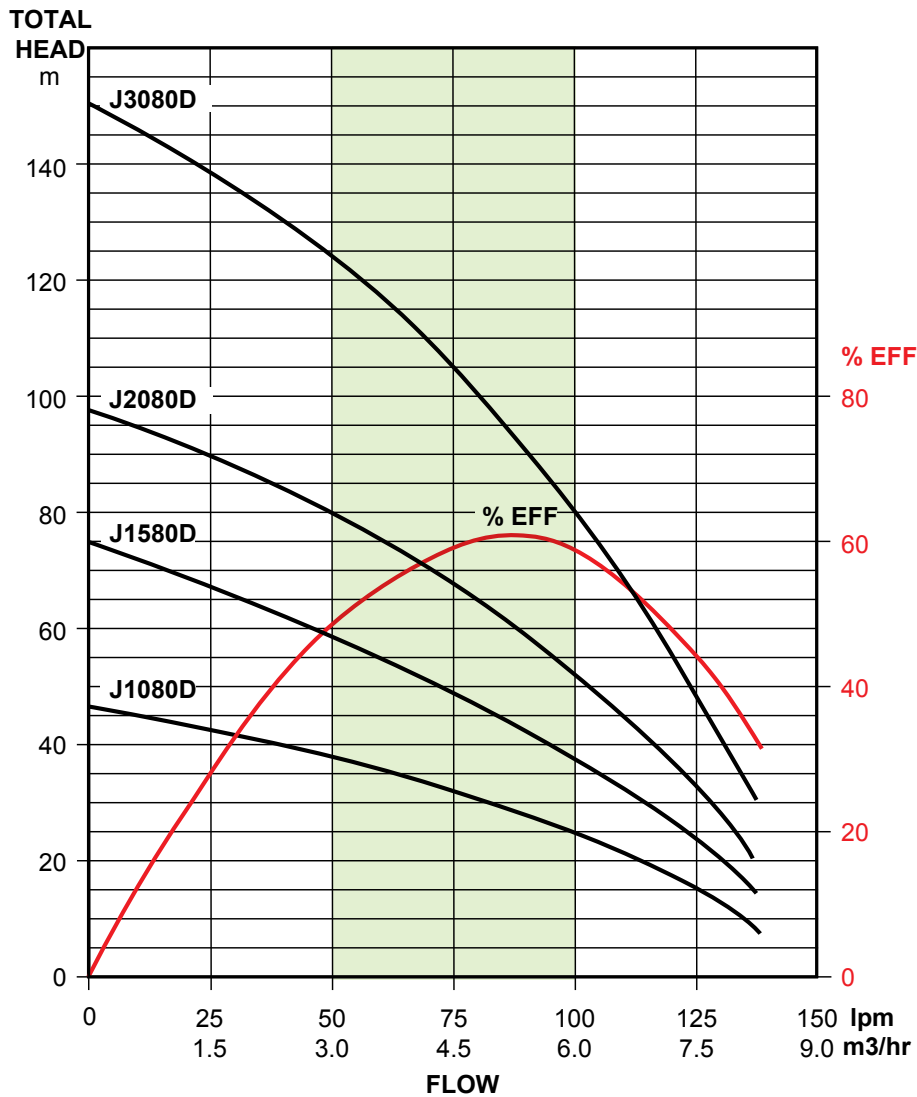
Recommended Flow Range

60 lpm Models

| Pump Type | kW | Motor | DME – ENCAPSULATED MOTOR | | | | DM – REWINDABLE MOTOR | | | |
|-----------|------|-----------|----------------------------------|-----------|--------------------|------------------|----------------------------------|----------|-------------------|------------------|
| | | | Pump, Motor, and Control Box Kit | DME Motor | Control Box – CSCR | Cable Splice Kit | Pump, Motor, and Control Box Kit | DM Motor | Control Box – PSC | Cable Splice Kit |
| J760D | 0.55 | 230V - 2W | KDJ760D21E | DME1055W2 | * | 31264 | KDJ760D21 | DM1055W2 | * | 31264 |
| | | 230V - 3W | KDJ760D31E | DME1055 | 20200080 | 31263 | KDJ760D31 | DM1055 | 14020035 | 31263 |
| | | 415V | KDJ760D33E | DME3055 | * | 31263 | KDJ760D33 | DM3055 | * | 31263 |
| J1060D | 0.75 | 230V - 2W | KDJ1060D21E | DME1075W2 | * | 31264 | KDJ1060D21 | DM1075W2 | * | 31264 |
| | | 230V - 3W | KDJ1060D31E | DME1075 | 20200090 | 31263 | KDJ1060D31 | DM1075 | 14020055 | 31263 |
| | | 415V | KDJ1060D33E | DME3075 | * | 31263 | KDJ1060D33 | DM3075 | * | 31263 |
| J1560D | 1.10 | 230V - 2W | KDJ1560D21E | * | * | 31264 | KDJ1560D21 | DM1110W2 | * | 31264 |
| | | 230V - 3W | KDJ1560D31E | DME1110 | 20200100 | 31263 | KDJ1560D31 | DM1110 | 14020075 | 31263 |
| | | 415V | KDJ1560D33E | DME3110 | * | 31263 | KDJ1560D33 | DM3110 | * | 31263 |
| J2060MD | 1.50 | 230V - 3W | KDJ2060D31E | DME1150 | 20200115 | 31263 | KDJ2060D31 | DM1150 | 14020090 | 31263 |
| | | 415V | KDJ2060D33E | DME3150 | * | 31263 | KDJ2060D33 | DM3150 | * | 31263 |
| J3060MD | 2.20 | 230V - 3W | KDJ3060D31E | DME1220 | 20200130 | 31263 | KDJ3060D31 | DM1220 | 14020095 | 31263 |
| | | 415V | KDJ3060D33E | DME3220 | * | 31263 | KDJ3060D33 | DM3220 | * | 31263 |

Submersible Borehole Pumps and Motors

HYDRAULIC PERFORMANCE (80 lpm models)



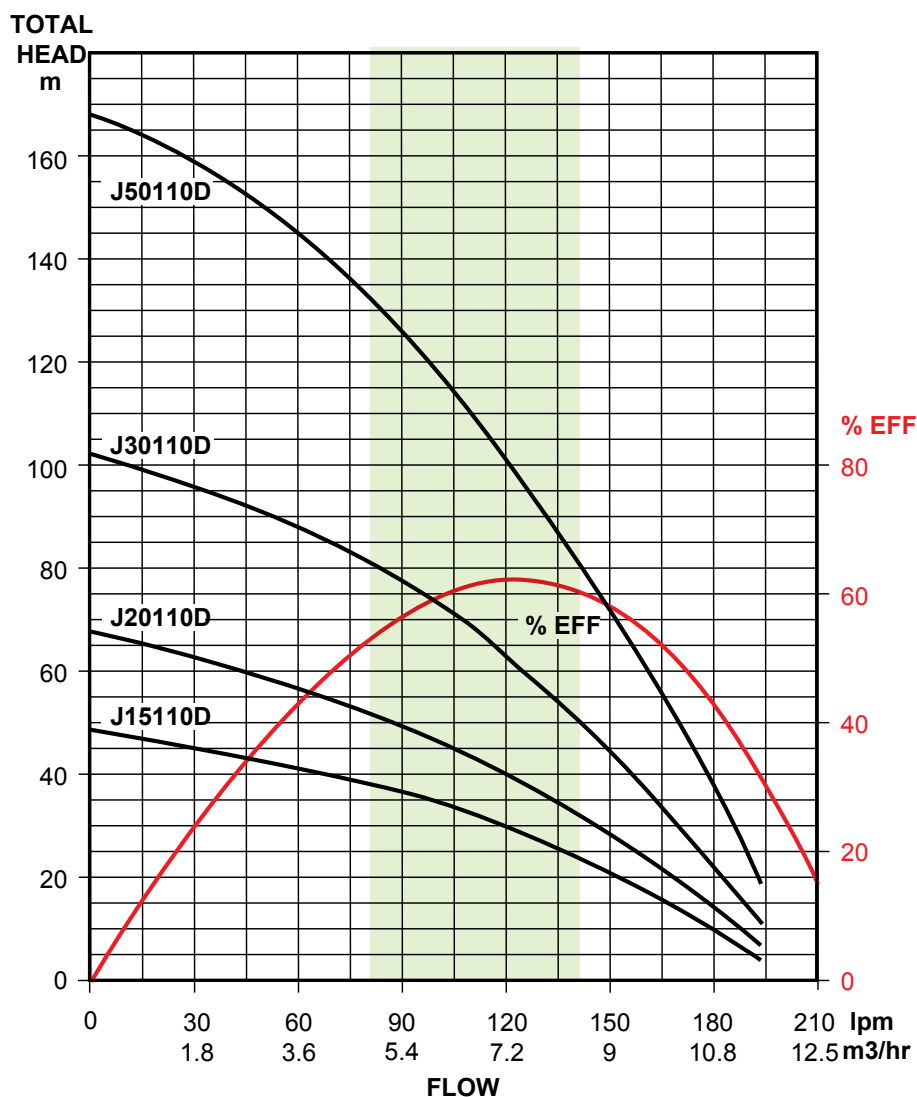
Recommended Flow Range

80 lpm Models

| 80 lpm Models | | | DME – ENCAPSULATED MOTOR | | | | DM – REWINDABLE MOTOR | | | |
|---------------|------|-----------|----------------------------------|-----------|--------------------|------------------|----------------------------------|----------|-------------------|------------------|
| Pump Type | kW | Motor | Pump, Motor, and Control Box Kit | DME Motor | Control Box – CSCR | Cable Splice Kit | Pump, Motor, and Control Box Kit | DM Motor | Control Box – PSC | Cable Splice Kit |
| J1080D | 0.75 | 230V - 2W | KDJ1080D21E | DME1075W2 | * | 31264 | KDJ1080D21 | DM1075W2 | * | 31264 |
| | | 230V - 3W | KDJ1080D31E | DME1075 | 20200090 | 31263 | KDJ1080D31 | DM1075 | 14020055 | 31263 |
| | | 415V | KDJ1080D33E | DME3075 | * | 31263 | KDJ1080D33 | DM3075 | * | 31263 |
| J1580D | 1.10 | 230V - 2W | KDJ1580D21E | * | * | 31264 | KDJ1580D21 | DM1110W2 | * | 31264 |
| | | 230V - 3W | KDJ1580D31E | DME1110 | 20200100 | 31263 | KDJ1580D31 | DM1110 | 14020075 | 31263 |
| | | 415V | KDJ1580D33E | DME3110 | * | 31263 | KDJ1580D33 | DM3110 | * | 31263 |
| J2080D | 1.50 | 230V - 3W | KDJ2080D31E | DME1150 | 20200115 | 31263 | KDJ2080D31 | DM1150 | 14020090 | 31263 |
| | | 415V | KDJ2080D33E | DME3150 | * | 31263 | KDJ2080D33 | DM3150 | * | 31263 |
| J3080D | 2.20 | 230V - 3W | KDJ3080D31E | DME1220 | 20200130 | 31263 | KDJ3080D31 | DM1220 | 14020095 | 31263 |
| | | 415V | KDJ3080D33E | DME3220 | * | 31263 | KDJ3080D33 | DM3220 | * | 31263 |

Submersible Borehole Pumps and Motors

HYDRAULIC PERFORMANCE (110 lpm models)



Recommended Flow Range

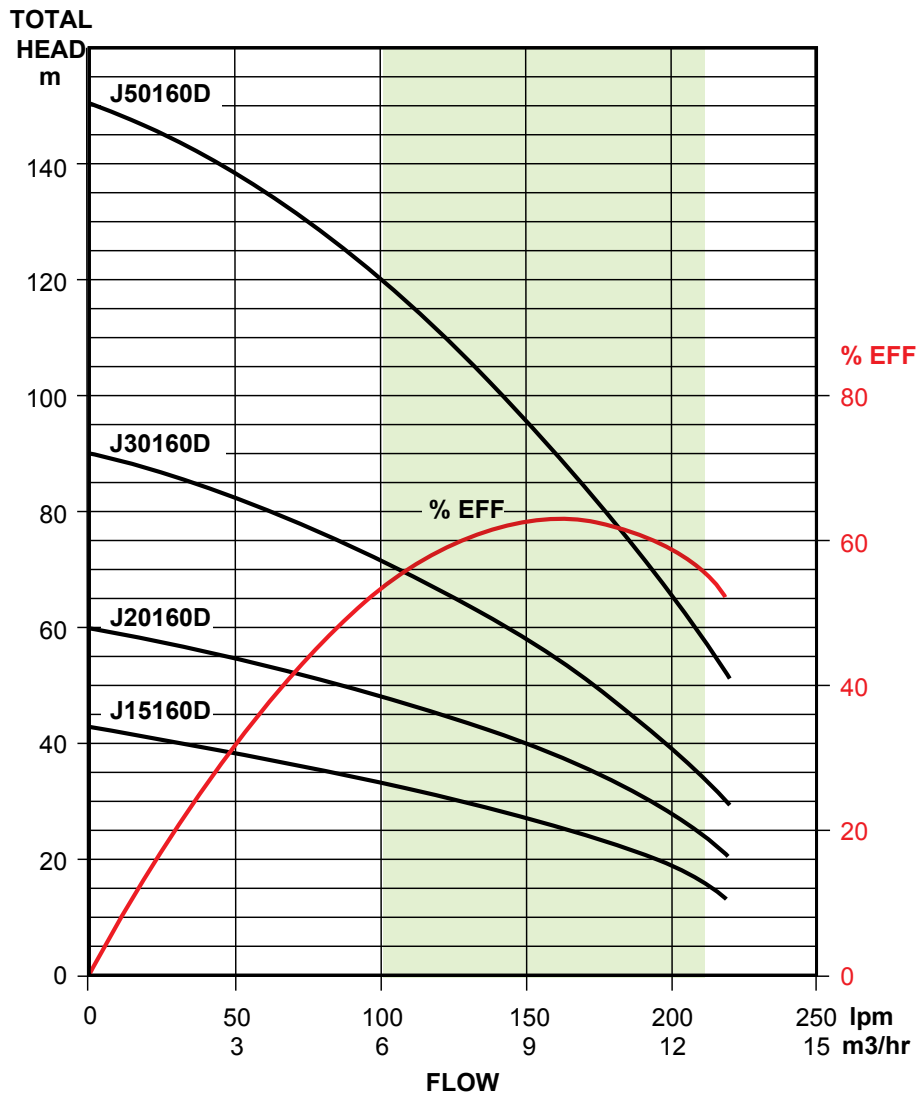
110 lpm Models

| Pump Type | kW | Motor | DME – ENCAPSULATED MOTOR | | | | DM – REWINDABLE MOTOR | | | |
|-----------|------|-----------|----------------------------------|-----------|--------------------|------------------|----------------------------------|----------|-----------------------|------------------|
| | | | Pump, Motor, and Control Box Kit | DME Motor | Control Box – CSCR | Cable Splice Kit | Pump, Motor, and Control Box Kit | DM Motor | Control Box – PSC | Cable Splice Kit |
| J15110D | 1.10 | 230V - 2W | KDJ15110D21E | * | * | 31264 | KDJ15110D21 | DM1110W2 | * | 31264 |
| | | 230V - 3W | KDJ15110D31E | DME1110 | 20200100 | 31263 | KDJ15110D31 | DM1110 | 14020075 | 31263 |
| | | 415V | KDJ15110D33E | DME3110 | * | 31263 | KDJ15110D33 | DM3110 | * | 31263 |
| J20110D | 1.50 | 230V - 3W | KDJ20110D31E | DME1150 | 20200115 | 31263 | KDJ20110D31 | DM1150 | 14020090 | 31263 |
| | | 415V | KDJ20110D33E | DME3150 | * | 31263 | KDJ20110D33 | DM3150 | * | 31263 |
| J30110D | 2.20 | 230V - 3W | KDJ30110D31E | DME1220 | 20200115 | 31263 | KDJ30110D31 | DM1220 | 14020095 | 31263 |
| | | 415V | KDJ30110D33E | DME1320 | * | 31263 | KDJ30110D33 | DM1320 | * | 31263 |
| J50110D | 3.70 | 230V - 3W | KDJ50110D31E | DME1370 | 20200060 | 31263 | KDJ50110D31 | DM1370 | 20200060 [†] | 31263 |
| | | 415V | KDJ50110D33E | DME3400 | * | 31263 | KDJ50110D33 | DM3400 | * | 31263 |

[†] Note: The 3.7kW control box (20200060) is CSCR.

Submersible Borehole Pumps and Motors

HYDRAULIC PERFORMANCE (160 lpm models)



Recommended Flow Range

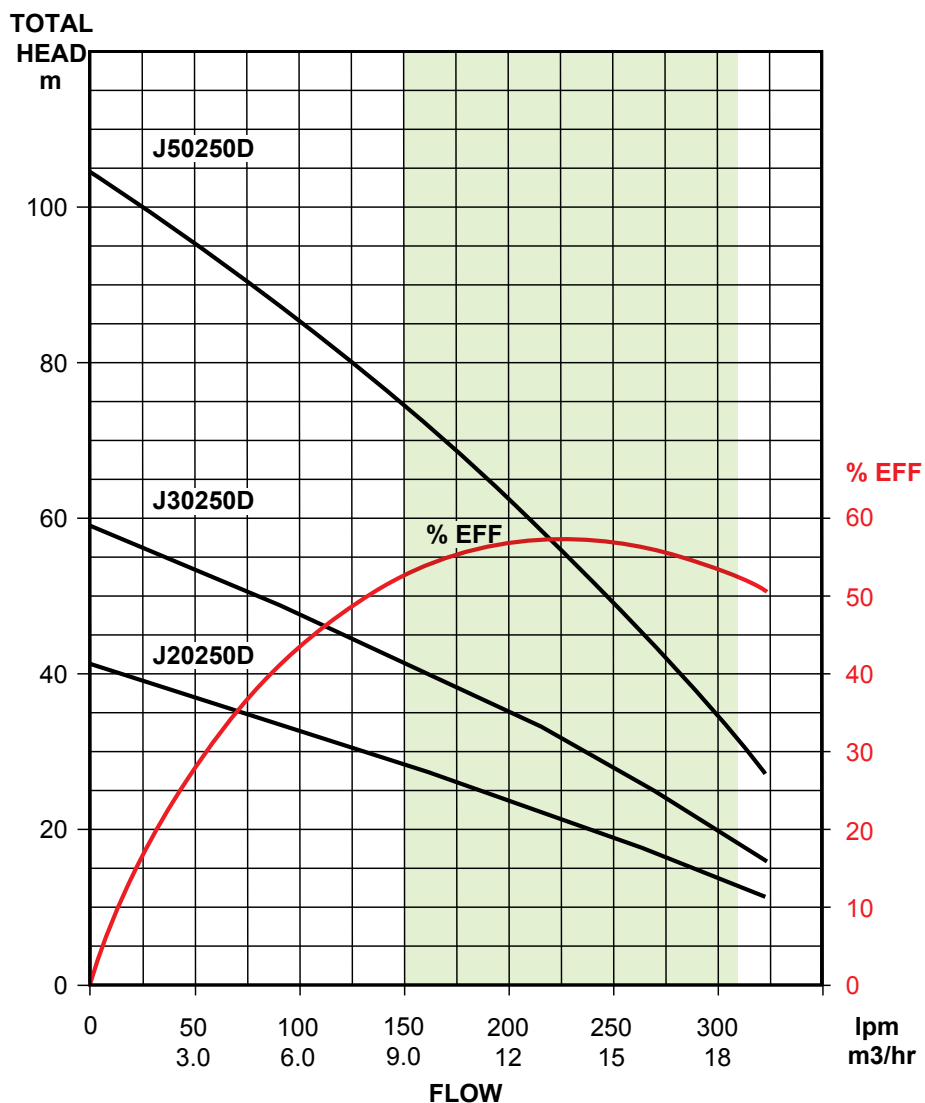
160 lpm Models

| Pump Type | kW | Motor | DME – ENCAPSULATED MOTOR | | | | DM – REWINDABLE MOTOR | | | |
|-----------|------|-----------|----------------------------------|-----------|--------------------|------------------|----------------------------------|----------|-------------------|------------------|
| | | | Pump, Motor, and Control Box Kit | DME Motor | Control Box – CSCR | Cable Splice Kit | Pump, Motor, and Control Box Kit | DM Motor | Control Box – PSC | Cable Splice Kit |
| J15160D | 1.10 | 230V - 2W | KDJ15160D21E | * | * | 31264 | KDJ15160D21 | DM1110W2 | * | 31264 |
| | | 230V - 3W | KDJ15160D31E | DME1110 | 20200100 | 31263 | KDJ15160D31 | DM1110 | 14020075 | 31263 |
| | | 415V | KDJ15160D33E | DME3110 | * | 31263 | KDJ15160D33 | DM3110 | * | 31263 |
| D20160D | 1.50 | 230V - 3W | KDJ20160D31E | DME1150 | 20200115 | 31263 | KDJ20160D31 | DM1150 | 14020090 | 31263 |
| | | 415V | KDJ20160D33E | DME3150 | * | 31263 | KDJ20160D33 | DM3150 | * | 31263 |
| J30160D | 2.20 | 230V - 3W | KDJ30160D31E | DME1220 | 20200115 | 31263 | KDJ30160D31 | DM1220 | 14020095 | 31263 |
| | | 415V | KDJ30160D33E | DME1320 | * | 31263 | KDJ30160D33 | DM1320 | * | 31263 |
| J50160D | 3.70 | 230V - 3W | KDJ50160D31E | DME1370 | 20200060 | 31263 | KDJ50160D31 | DM1370 | 20200060† | 31263 |
| | | 415V | KDJ50160D33E | DME3400 | * | 31263 | KDJ50160D33 | DM3400 | * | 31263 |

† Note: The 3.7kW control box (20200060) is CSCR.

Submersible Borehole Pumps and Motors

HYDRAULIC PERFORMANCE (250 lpm models)



Recommended Flow Range

250 lpm Models

| Pump Type | kW | Motor | DME – ENCAPSULATED MOTOR | | | | DM – REWINDABLE MOTOR | | | |
|-----------|------|-----------|----------------------------------|-----------|--------------------|------------------|----------------------------------|----------|-----------------------|------------------|
| | | | Pump, Motor, and Control Box Kit | DME Motor | Control Box – CSCR | Cable Splice Kit | Pump, Motor, and Control Box Kit | DM Motor | Control Box – PSC | Cable Splice Kit |
| J20250D | 1.50 | 230V - 3W | KDJ20250D31E | DME1150 | 20200115 | 31263 | KDJ20250D31 | DM1150 | 14020090 | 31263 |
| | | 415V | KDJ20250D33E | DME3150 | * | 31263 | KDJ20250D33 | DM3150 | * | 31263 |
| J30250D | 2.20 | 230V - 3W | KDJ30250D31E | DME1220 | 20200115 | 31263 | KDJ30250D31 | DM1220 | 14020095 | 31263 |
| | | 415V | KDJ30250D33E | DME1320 | * | 31263 | KDJ30250D33 | DM1320 | * | 31263 |
| J50250D | 3.70 | 230V - 3W | KDJ50250D31E | DME1370 | 20200060 | 31263 | KDJ50250D31 | DM1370 | 20200060 [†] | 31263 |
| | | 415V | KDJ50250D33E | DME3400 | * | 31263 | KDJ50250D33 | DM3400 | * | 31263 |

[†] Note: The 3.7kW control box (20200060) is CSCR.

Submersible Borehole Pumps and Motors

DAVEY MOTORS

Davey offer a choice of submersible borehole motors. The DME range of encapsulated canned type motors and the DM range of rewindable oil filled motors.

Selecting the best motor for a particular application means considering not only the immediate up front purchase price but taking into consideration the motor's long term ability to support the pump over the entire operating range and its ability to operate at the required water temperature and velocity presented by the installation.

Like other quality submersible motors, the DME and DM models are designed purely for operation in and under water and depends on the surrounding water to carry away the heat that the motor generates.

The most common cause of failure in a submersible motor is overheating so making the correct assessment before selection and installation is critical. This should as a minimum involve checking the ambient water temperature, the velocity in the borehole, the actual

supply voltage and the likelihood of voltage surges and spikes.

When replacing a motor it is always good practice to check out that the initial installation was carried out correctly and that there are no evidence of excessive hydraulic load, an oversized, or wrongly size pump fitted to the motor and that there is no over frequency in the installation.

The Davey DME and DM submersible motors are robust motors based on technology proven worldwide for reliable and long operation. By making a correct assessment of the installation, an experienced Davey Dealer can help make sure the most suitable motor is chosen so that long term the owner avoids having to pay extra for motor failure, extended down times, repeat repairs and higher maintenance cost.

The robust and strong design of the Davey DM motor makes it the recommended choice where installations may experience high voltage drops or potential high overloading. It is rewindable and serviceable.

| MOTOR OPERATING LIMITS | DME – ENCAPSULATED MOTOR | | | DM – REWINDABLE MOTOR | | |
|---------------------------|--------------------------|---------------|-------------|-----------------------|---------------|-----------|
| | 230V - 2 Wire | 230V - 3 Wire | 3 Phase | 230V - 2 Wire | 230V - 3 Wire | 3 Phase |
| Horizontal installation | ✓ | up to 5.5kW | up to 5.5kW | ✓ | ✓ | ✓ |
| Maximum immersion depth | 150m | 150m | 150m | 150m | 150m | 150m |
| Maximum water temperature | 35°C | 35°C | 35°C | 35°C | 35°C | 35°C |
| Liquid pH range | 5.8<x>8.6 | 5.8<x>8.6 | 5.8<x>8.6 | 5.8<x>8.6 | 5.8<x>8.6 | 5.8<x>8.6 |
| Maximum starts per hour | 30 | 30 | 30 | 30 | 30 | 30 |
| Voltage tolerance ± | -10% | -10% | -10% | -10% | -10% | 5.8<x>8.6 |

TYPE KEY: MOTORS

| Example | | K | D | M | E | I | 0 | 7 | 5 |
|--------------------|--|---|---|---|---|---|---|---|---|
| Product Figuration | Complete Motor and Control box | X | | | | | | | |
| Motor Type | DM Rewindable DME Encapsulated | | X | X | X | | | | |
| Phase | 1 or 3 | | | | | X | | | |
| kW | 0.37 to 7.50 | | | | | | X | X | X |
| Wire | 2W = 3 wire + Earth W2 = 2 wire + Earth | | | | | | | | X |

230V – 2 wire

Single Phase

| kw | DME – ENCAPSULATED MOTOR | | | DM – REWINDABLE MOTOR | | |
|------|---------------------------|-----------|--------------------|---------------------------|----------|-------------------|
| | Motor and Control Box KIT | Motor | Control Box – CSCR | Motor and Control Box KIT | Motor | Control Box – PSC |
| 0.37 | * | DME1037W2 | * | * | DM1037W2 | * |
| 0.55 | * | DME1055W2 | * | * | DM1055W2 | * |
| 0.75 | * | DME1075W2 | * | * | DM1075W2 | * |
| 1.10 | * | * | * | * | DM1110W2 | * |

230V – 3 wire

Single Phase

| kw | DME – ENCAPSULATED MOTOR | | | | DM – REWINDABLE MOTOR | | |
|------|---------------------------|---------|--------------------|--------------------------|---------------------------|--------|-------------------|
| | Motor and Control Box KIT | Motor | Control Box – CSCR | Control Box – CSCR Metal | Motor and Control Box KIT | Motor | Control Box – PSC |
| 0.37 | KDME1037 | DME1037 | 20200070 | 20200200 | KDM1037 | DM1037 | 14020015 |
| 0.55 | KDME1055 | DME1055 | 20200080 | 20200220 | KDM1055 | DM1055 | 14020035 |
| 0.75 | KDME1075 | DME1075 | 20200090 | 20200240 | KDM1075 | DM1075 | 14020055 |
| 1.10 | KDME1110 | DME1110 | 20200100 | 20200260 | KDM1110 | DM1110 | 14020075 |
| 1.50 | KDME1150 | DME1150 | 20200115 | 20200280 | KDM1150 | DM1150 | 14020090 |
| 2.20 | KDME1220 | DME1220 | 20200130 | 20200300 | KDM1220 | DM1220 | 14020095 |
| 3.70 | KDME1370 | DME1370 | 20200060 | 20200320 | KDM1370 | DM1370 | 20200060 |

415V

3 Phase

| kw | DME – ENCAPSULATED MOTOR | | | DM – REWINDABLE MOTOR | | |
|------|---------------------------|---------|--------------------|---------------------------|--------|-------------------|
| | Motor and Control Box KIT | Motor | Control Box – CSCR | Motor and Control Box KIT | Motor | Control Box – PSC |
| 0.37 | * | DME3037 | * | * | DM3037 | * |
| 0.55 | * | DME3055 | * | * | DM3055 | * |
| 0.75 | * | DME3075 | * | * | DM3075 | * |
| 1.10 | * | DME3110 | * | * | DM3110 | * |
| 1.50 | * | DME3150 | * | * | DM3150 | * |
| 2.20 | * | DME3220 | * | * | DM3220 | * |
| 3.70 | * | * | * | * | * | * |
| 4.00 | * | DME3400 | * | * | DM3400 | * |
| 5.50 | * | DME3550 | * | * | DM3550 | * |
| 7.50 | * | * | * | * | DM3750 | * |

Submersible Borehole Pumps and Motors

CONTROL BOXES

Davey offer DME and DM motors in both 230V – 2 wire, 230V – 3 wire and 415V to give the customers the widest range of options to suit their specific installation.

Most small domestic appliances in Australia and New Zealand use single phase AC power supply making the 230V-2 or 3 wire models for many the obvious choice. However, it is important to keep in mind that the three phase motor has several inherent advantages including a lower current draw per phase, an ability to create more torque, and smoother running than single phase motors.

Single phase motors are simple in construction, durable and generally maintenance free in operation but single phase motors are not self-starting so require either an in-built or external starter. The Davey DME and DM single phase 2 wire motors have in-built starters while the 3 wire models require an external starter box.

The recommended starting method for the DME models are Capacitor start /Capacitor run (CSCR) while for the DM models (except 3.7kw) the control box is the Permanent Split Capacitor design (PSC).

The use of the CSCR control boxes makes the DME motors ideal for certain applications because the start capacitor offers high starting torque, while the run type capacitor balances the motor which results in a smooth operation meaning that the motor can better handle breakdown or overload torque. Metal enclosure control boxes, with a protection rating of IP24, are also available for the DME motors.

The Permanent Split Capacitor design (PSC) Control box is recommend with the DM models (except for the 3.7kW which require the CSCR control box). In this control box the capacitor is set in series during starting and running which generally means lower torque but also much lower starting currents. Combining these features make the PCS control box and the DM motors the recommended choice in demanding installations where there is risk of high voltage drops or potential overloading.

Manual-Off-Auto Control Box

- Providing Manual-off-Auto control in an IP56 enclosure.
- Three phase boxes include adjustable thermal overloads
- Run light, surge arrestors and a 240 volt control circuit for pressure, float or similar switch.
- Overloads must be set to suit motor.
Check amp rating for each motor as amp rating changes depending on type and brand of motor.

| Model | Amps | Phase | To suit Davey 4" Motor |
|--------|-------------|--------|------------------------|
| FSB221 | | Single | Up to 2.2kW |
| CB3075 | 1.6 – 2.4 | Three | 0.55 & 0.75kW |
| CB3150 | 2.4 – 4.0 | Three | 1.1 & 1.5kW |
| CB3220 | 4.0 – 6.0 | Three | 1.5 & 2.2kW |
| CB3750 | 10.0 – 16.0 | Three | 4.0 & 5.5kW |

Davey Fanox Motor Protection Control Panel

- Suitable for single phase up to 2.2kW and three phase up to 4kW
- Plastic case with transparent lid
- Dimensions: 230mm x 250mm x 150mm

| Model | Phase | Approx. Motor Current (A) | Adj. Well Filling Time (min) | Protection |
|-------|-------|---------------------------|------------------------------|--|
| CBM2 | 1 | 3.0 - 11.0 | 2 - 70 | - Dry running protection |
| CBM3 | 1 | 3.0 - 16.0 | 2 - 240 | - Thermal memory that memorises motor cycles |
| CBT1 | 3 | 1.1 - 2.0 | 2 - 75 | - Automatic Reset for well filling |
| CBT2 | 3 | 2.8 - 3.8 | 2 - 75 | - Indicates cause of tripping |
| CBT3 | 3 | 5.5 - 9.5 | 2 - 75 | - Short Circuit protection |



CSCR starter box



PSC starter box

ELECTRICAL DATA – DROP CABLE

Single Phase: 240V 50Hz 2 Wire and 3 Wire Motors

| Motor kW | Cable size in mm ² (3 core plus earth) | | | | | |
|----------|---|-----|-----|-----|-----|-----|
| | 1.5 | 2.5 | 4 | 6 | 10 | 16 |
| 0.37 | 75 | 125 | | | | |
| 0.55 | 57 | 95 | 152 | | | |
| 0.75 | 45 | 75 | 120 | 174 | | |
| 1.1 | 33 | 53 | 85 | 127 | 210 | |
| 1.5 | 23 | 38 | 63 | 92 | 154 | 246 |
| 2.2 | | 28 | 45 | 67 | 112 | 180 |
| 3.7 | | | 30 | 45 | 75 | 125 |

Three Phase: 415V 50Hz Motors

| Motor kW | Cable size in mm ² (3 core plus earth) | | | | | |
|----------|---|-----|-----|-----|-----|-----|
| | 1.5 | 2.5 | 4 | 6 | 10 | 16 |
| 0.37 | | | | | | |
| 0.55 | 246 | | | | | |
| 0.75 | 200 | 333 | | | | |
| 1.1 | 146 | 244 | 390 | | | |
| 1.5 | 109 | 180 | 290 | 435 | | |
| 2.2 | 78 | 130 | 207 | 310 | 516 | |
| 3.7 | 62 | 104 | 167 | 250 | 416 | |
| 4 | 46 | 77 | 124 | 186 | 310 | 496 |
| 5.5 | 33 | 56 | 90 | 135 | 225 | 360 |
| 7.5 | | | 66 | 100 | 165 | 270 |

| MOTOR FEATURES | DME – ENCAPSULATED MOTOR | | | DM – REWINDABLE MOTOR | | |
|--------------------------------------|--|---------------|---------|--|---------------|---------|
| | 230V - 2 Wire | 230V - 3 Wire | 3 Phase | 230V - 2 Wire | 230V - 3 Wire | 3 Phase |
| Quick maintenance and easy to rewind | Stator filled with special epoxy resin and hermetically encapsulated | | | ✓ | | |
| Lubrication of rotor and bearings | Water mixed with Polypropylene Glycol | | | FDA Approved Food Grade with high thermal capacity | | |
| Mechanical Seal | N/A | | | Hard face - Silicon Carbide / Ceramic | | |
| Sand slinger protection | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Nema Motor to Pump Coupling | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Replacable Motor leads | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Motor casing | 304 stainless steel | | | 304 stainless steel | | |
| Upper bracket | Cast iron w/304 stainless steel cover | | | Cast iron/ nickel plated | | |
| In-built lightning arrestor | ✓ | | | | | |
| In-built thermal overload protection | ✓ | | | ✓ | | |

Single Stage Engine Driven Pump

| DME – ENCAPSULATED MOTOR SPECIFICATIONS | | | | | | | | | | | | | | | | | |
|---|---------------|-----------------|----------|------------|------------------------|------|------|-----------|------------|------------|----------|------------|----------|--------------------|-----------|-----------|---------|
| Part No. | Motor Size kW | Diameter Nom mm | Run Amps | Start Amps | Efficiency @ Full Load | RPM | Cos | Ts/Tn PSC | R (main) Ω | R (aux.) Ω | C run μF | C start μF | Thrust N | Mechanical Seal | Weight Kg | Length mm | Cable m |
| 2 Wire, Single Phase | | | | | | | | | | | | | | | | | |
| DME1037W2 | 0.37 | 96 | 4.4 | 26.0 | 58% | 2850 | 0.70 | 0.85 | 7.48 | * | * | * | 1500 | Hard Face - Sic/Al | 7.5 | 260 | 1.75 |
| DME1055W2 | 0.55 | 96 | 5.9 | 35.0 | 58% | 2860 | 0.72 | 0.81 | 5.07 | * | * | * | 1500 | Hard Face - Sic/Al | 8.8 | 285 | 1.75 |
| DME1075W2 | 0.75 | 96 | 7.8 | 49.0 | 58% | 2860 | 0.72 | 0.82 | 3.60 | * | * | * | 1500 | Hard Face - Sic/Al | 11.4 | 305 | 1.75 |
| 3 Wire, Single Phase | | | | | | | | | | | | | | | | | |
| DME1037 | 0.37 | 96 | 3.4 | 11.0 | 54% | 2850 | 0.90 | 0.70 | 8.19 | 15.40 | 16 | 36 - 46 | 1500 | Hard Face - Sic/Al | 6.8 | 250 | 1.75 |
| DME1055 | 0.55 | 96 | 4.4 | 16.6 | 62% | 2840 | 0.88 | 0.63 | 6.09 | 14.59 | 20 | 72 - 86 | 1500 | Hard Face - Sic/Al | 8.1 | 265 | 1.75 |
| DME1075 | 0.75 | 96 | 6.0 | 23.1 | 63% | 2860 | 0.86 | 0.65 | 4.04 | 9.39 | 30 | 88 - 106 | 1500 | Hard Face - Sic/Al | 10.6 | 295 | 1.75 |
| DME1110 | 1.10 | 96 | 7.8 | 29.6 | 68% | 2850 | 0.90 | 0.62 | 2.95 | 7.20 | 40 | 88 - 106 | 3000 | Hard Face - Sic/Al | 11.2 | 340 | 1.75 |
| DME1150 | 1.50 | 96 | 10.5 | 39.3 | 65% | 2850 | 0.96 | 0.60 | 2.30 | 5.15 | 50 | 130 - 156 | 3000 | Hard Face - Sic/Al | 14.0 | 375 | 1.75 |
| DME1220 | 2.20 | 96 | 15.0 | 52.5 | 72% | 2850 | 0.92 | 0.55 | 1.70 | 3.50 | 70 | 189 - 227 | 3000 | Hard Face - Sic/Al | 16.4 | 430 | 2.50 |
| DME1370 | 3.70 | 96 | 25.3 | 102.0 | 70% | 2840 | 0.92 | 0.50 | 1.00 | 1.90 | 100 | 189 - 227 | 6500 | Hard Face - Sic/Al | 29.3 | 675 | 4.00 |
| 3 Phase | | | | | | | | | | | | | | | | | |
| DME3037 | 0.37 | 96 | 1.3 | 5.3 | 62% | 2840 | 0.72 | 2.16 | 39.70 | * | * | * | 1500 | Hard Face - Sic/Al | 5.8 | 235 | 1.75 |
| DME3055 | 0.55 | 96 | 1.7 | 7.2 | 66% | 2840 | 0.71 | 2.50 | 27.60 | * | * | * | 1500 | Hard Face - Sic/Al | 7.0 | 250 | 1.75 |
| DME3075 | 0.75 | 96 | 2.2 | 9.2 | 67% | 2840 | 0.73 | 1.90 | 24.00 | * | * | * | 1500 | Hard Face - Sic/Al | 8.3 | 265 | 1.75 |
| DME3110 | 1.10 | 96 | 3.0 | 14.2 | 72% | 2840 | 0.74 | 2.30 | 15.00 | * | * | * | 3000 | Hard Face - Sic/Al | 10.9 | 295 | 1.75 |
| DME3150 | 1.50 | 96 | 4.0 | 18.5 | 72% | 2830 | 0.75 | 2.10 | 13.70 | * | * | * | 3000 | Hard Face - Sic/Al | 11.4 | 340 | 1.75 |
| DME3220 | 2.20 | 96 | 5.6 | 26.5 | 74% | 2830 | 0.77 | 2.40 | 7.80 | * | * | * | 3000 | Hard Face - Sic/Al | 14.2 | 375 | 2.50 |
| DME3400 | 4.00 | 96 | 10.6 | 44.0 | 69% | 2840 | 0.79 | 2.30 | 4.00 | * | * | * | 6500 | Hard Face - Sic/Al | 23.4 | 555 | 2.50 |
| DME3550 | 5.50 | 96 | 13.6 | 62.0 | 72% | 2840 | 0.82 | 2.20 | 3.30 | * | * | * | 6500 | Hard Face - Sic/Al | 29.4 | 675 | 4.00 |
| DME3750 | 7.50 | 96 | 18.3 | 90.0 | 75% | 2830 | 0.79 | 2.20 | 2.20 | * | * | * | 6500 | Hard Face - Sic/Al | 33.8 | 765 | 4.00 |

NOTE: 3 wire, single phase motors require a starter box. 3 phase motor must be connected with an M10 rated overload.

| DM – REWINDABLE MOTOR SPECIFICATIONS | | | | | | | | | | | | | | | | | |
|--------------------------------------|---------------|-----------------|----------|------------|------------------------|------|------|-------|------------|------------|------------|----------|--------------------|-----------|-----------|---------|--|
| Part No. | Motor Size kW | Diameter Nom mm | Run Amps | Start Amps | Efficiency @ Full Load | RPM | Cos | Ts/Tn | R (main) Ω | R (aux.) Ω | C start μF | Thrust N | Mechanical Seal | Weight Kg | Length mm | Cable m | |
| 2 Wire, Single Phase | | | | | | | | | | | | | | | | | |
| DM1037W2 | 0.37 | 96 | 3.9 | 10.2 | 46% | 2860 | 0.93 | 1.20 | 8.73 | * | 20 | 1500 | Hard Face - Sic/Al | 7.0 | 325 | 1.75 | |
| DM1055W2 | 0.55 | 96 | 4.8 | 13.6 | 55% | 2820 | 0.86 | 0.70 | 6.88 | * | 25 | 1500 | Hard Face - Sic/Al | 7.6 | 325 | 1.75 | |
| DM1075W2 | 0.75 | 96 | 6.0 | 18.5 | 57% | 2830 | 0.95 | 0.70 | 4.49 | * | 30 | 1500 | Hard Face - Sic/Al | 8.7 | 350 | 1.75 | |
| DM1110W2 | 1.10 | 96 | 7.5 | 26.0 | 70% | 2820 | 0.86 | 0.60 | 3.44 | * | 30 | 1500 | Hard Face - Sic/Al | 10.3 | 385 | 1.75 | |
| 3 Wire, Single Phase | | | | | | | | | | | | | | | | | |
| DM1037 | 0.37 | 96 | 3.4 | 10.8 | 53% | 2860 | 0.94 | 1.0 | 8.70 | 18.35 | 20 | 1500 | Hard Face - Sic/Al | 7.0 | 325 | 1.75 | |
| DM1055 | 0.55 | 96 | 4.2 | 13.9 | 60% | 2855 | 0.92 | 0.87 | 6.48 | 11.30 | 25 | 1500 | Hard Face - Sic/Al | 7.6 | 325 | 1.75 | |
| DM1075 | 0.75 | 96 | 5.6 | 18.5 | 62% | 2855 | 0.92 | 0.67 | 4.64 | 8.08 | 35 | 1500 | Hard Face - Sic/Al | 8.7 | 350 | 1.75 | |
| DM1110 | 1.10 | 96 | 7.8 | 23.0 | 66% | 2855 | 0.98 | 0.65 | 3.21 | 6.30 | 40 | 1500 | Hard Face - Sic/Al | 10.3 | 385 | 1.75 | |
| DM1150 | 1.50 | 96 | 10.3 | 38.7 | 68% | 2855 | 0.88 | 0.55 | 2.32 | 4.50 | 60 | 1500 | Hard Face - Sic/Al | 12.0 | 420 | 1.75 | |
| DM1220 | 2.20 | 96 | 14.6 | 43.5 | 69% | 2820 | 0.94 | 0.48 | 1.82 | 3.26 | 80 | 1500 | Hard Face - Sic/Al | 14.2 | 470 | 2.50 | |
| DM1370 | 3.70 | 96 | 24.0 | 125.0 | 72% | 2820 | 0.91 | 0.50 | 0.97 | 1.89 | 80 | 4400 | Hard Face - Sic/Al | 22.0 | 580 | 4.00 | |
| 3 Phase | | | | | | | | | | | | | | | | | |
| DM3037 | 0.37 | 96 | 1.3 | 6.2 | 60% | 2840 | 0.72 | 2.90 | 35.89 | * | * | 1500 | Hard Face - Sic/Al | 6.5 | 325 | 1.75 | |
| DM3055 | 0.55 | 96 | 1.9 | 8.5 | 62% | 2830 | 0.71 | 3.10 | 28.60 | * | * | 1500 | Hard Face - Sic/Al | 7.0 | 325 | 1.75 | |
| DM3075 | 0.75 | 96 | 2.4 | 10.9 | 66% | 2830 | 0.71 | 3.10 | 19.79 | * | * | 1500 | Hard Face - Sic/Al | 7.6 | 325 | 1.75 | |
| DM3110 | 1.10 | 96 | 3.2 | 14.0 | 73% | 2820 | 0.70 | 3.20 | 14.30 | * | * | 1500 | Hard Face - Sic/Al | 8.7 | 350 | 1.75 | |
| DM3150 | 1.50 | 96 | 4.4 | 17.0 | 73% | 2820 | 0.70 | 3.10 | 9.82 | * | * | 1500 | Hard Face - Sic/Al | 10.4 | 385 | 1.75 | |
| DM3220 | 2.20 | 96 | 5.8 | 25.0 | 75% | 2820 | 0.78 | 3.10 | 6.93 | * | * | 1500 | Hard Face - Sic/Al | 12.0 | 420 | 2.50 | |
| DM3400 | 4.00 | 96 | 9.8 | 49.0 | 76% | 2825 | 0.82 | 3.00 | 3.86 | * | * | 2500 | Hard Face - Sic/Al | 15.3 | 468 | 2.50 | |
| DM3550 | 5.50 | 96 | 13.5 | 57.0 | 78% | 2820 | 0.85 | 3.00 | 2.81 | * | * | 2500 | Hard Face - Sic/Al | 18.6 | 538 | 3.00 | |
| DM3750 | 7.50 | 96 | 19.0 | 77.0 | 79% | 2820 | 0.80 | 3.20 | 2.09 | * | * | 4400 | Hard Face - Sic/Al | 27.0 | 810 | 4.00 | |

NOTE: 3 wire, single phase motors require a starter box. 3 phase motor must be connected with an M10 rated overload.

ALL data at standard AS/NZS voltages, i.e. 1Ø 230V 50Hz or 400V 50Hz



daveywater.com

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