

Cast iron sump pump nomenclature

| CSM | 240 | V | F |
|---|---|--|--|
| Cast iron submersible pump with dual mechanical seals | Max flow rate at open discharge (litres per minute) | V - vortex C - cutter XG - grinder | F - float switch, 1 ø S - single phase T - three phase |

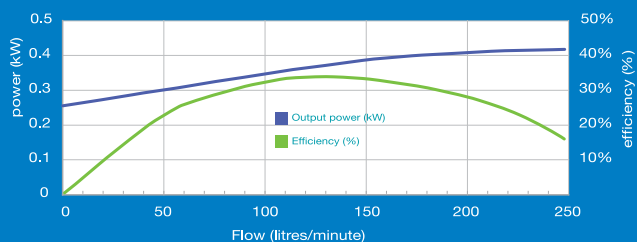
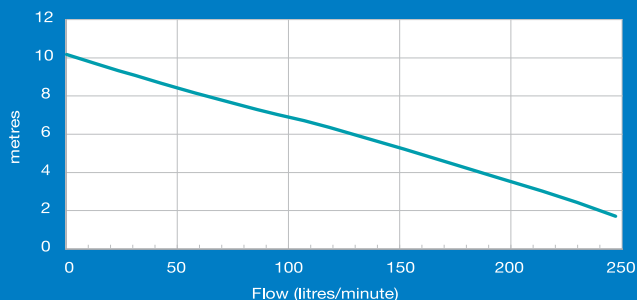
- This range of rugged cast iron submersible pumps is suitable for many dewatering, drainage, water treatment and wastewater applications
- Available in 3 broad types:
 - VORTEX** —→ [suitable for dewatering where some solids may be present]
 - CUTTER** —→ [suitable for draining water where stringy materials may be present]
 - GRINDER** —→ [suitable for wastewater applications and where more soft solids are present]
- Cast iron construction making them solid, durable and rugged, with high abrasion resistance to suspended particles
- Dual mechanical seals in oil bath with lip seal for motor protection to provide longer life combined with low friction for low power consumption
- Epoxy cable - motor connection for preventing water ingress through the cable
- Dry motor design with cap start/cap run provides superior motor protection with maximum starting torque
- Continuous Duty rating [40°C] [Intermittent Duty 50°C] designed to handle the largest and toughest jobs
- 30 metre maximum submergence will deal with the deepest pit dewatering
- Stainless steel fasteners for corrosion protection for long life
- Dual cutter design in stainless grade 440C, hardened to 55 Rockwell C^s for long service life
- Grinder assembly replaceable without disassembling pump^s for very short repair downtime
- Optional Guide Rails available - no need to enter the pit
- Stainless steel shaft with dual ball bearings and short overhang making them corrosion resistant, smooth running and reducing deflection to prolong seal and bearing life.

| MODEL | P1 | | | | | | | | | | | | Max temp. Rating | | Motor Protection |
|------------|-----|------|----------|---------------|----------|------------------|--------------|------------|------------------|-----------|---------|--------------|------------------|---------|----------------------------|
| | HP | kW | Voltage | Rated FLA (A) | Starting | Speed | Cable Length | Cable Type | Insulation Class | Start Cap | Run Cap | Power Factor | Int °C | Cont °C | |
| CSM-240VF* | 1/2 | 0.4 | 230-1-50 | 2.7 | PSC | 2 pole / 2850rpm | 10m | H07RNF | B | 8µF | - | 0.98 | 50 | 40.6 | Auto Cut out switch (ACOS) |
| CSM-500VF* | 1 | 0.75 | 230-1-50 | 5.3 | PSC | 2 pole / 2850rpm | 10m | H07RNF | B | 12µF | - | 0.98 | 50 | 40.6 | |
| CSM-500VT | 1 | 0.75 | 415-3-50 | 2.0 | DOL | 2 pole / 2850rpm | 10m | H07RNF | B | - | - | 0.86 | 50 | 40.6 | |
| CSM-650VS | 2 | 1.5 | 230-1-50 | 9.6 | CS/CR | 2 pole / 2850rpm | 10m | H07RNF | B | 15µF | 100µF | 0.89 | 50 | 40.6 | |
| CSM-650VT | 2 | 1.5 | 415-3-50 | 3.4 | DOL | 2 pole / 2850rpm | 10m | H07RNF | B | - | - | 0.87 | 50 | 40.6 | |
| CSM-850CS | 2 | 1.5 | 230-1-50 | 9.6 | CS/CR | 2 pole / 2850rpm | 10m | H07RNF | B | 15µF | 100µF | 0.89 | 50 | 40.6 | |
| CSM-850CT | 2 | 1.5 | 415-3-50 | 3.4 | DOL | 2 pole / 2850rpm | 10m | H07RNF | B | - | - | 0.87 | 50 | 40.6 | |
| CSM-160XGS | 2 | 1.5 | 230-1-50 | 10.2 | CS/CR | 2 pole / 2850rpm | 10m | H07RNF | B | 12µF | 100µF | 0.97 | 50 | 40.6 | |
| CSM-160XGT | 2 | 1.5 | 415-3-50 | 3.6 | DOL | 2 pole / 2850rpm | 10m | H07RNF | B | - | - | 0.86 | 50 | 40.6 | |
| CSM-300XGT | 3 | 2.2 | 415-3-50 | 5.3 | DOL | 2 pole / 2850rpm | 10m | H07RNF | F | - | - | 0.86 | 50 | 40.6 | |

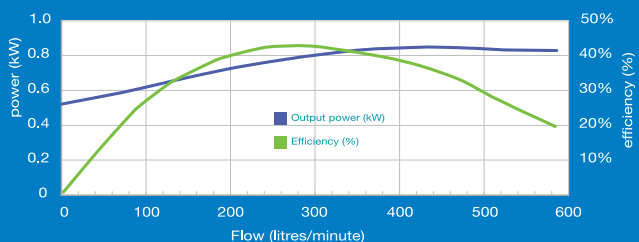
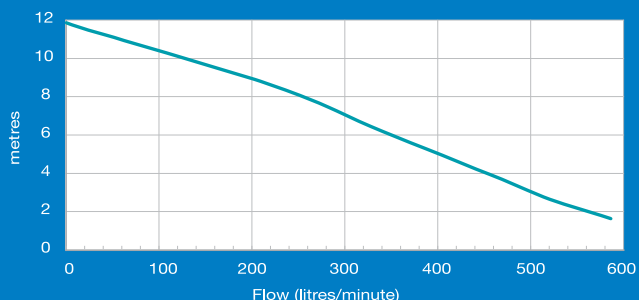
PSC: Permanently Split Capacitor CS/CR: Capacitor start, Capacitor run (centrifugal switch) DOL: Direct on line

* models include float switches - should you require floats with any other model please contact our Customer Service team

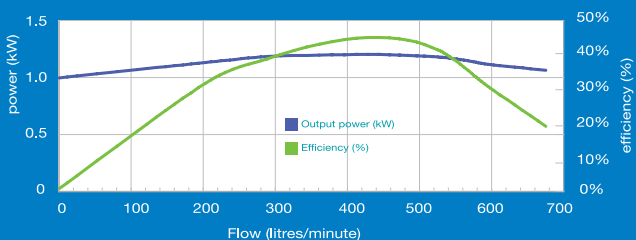
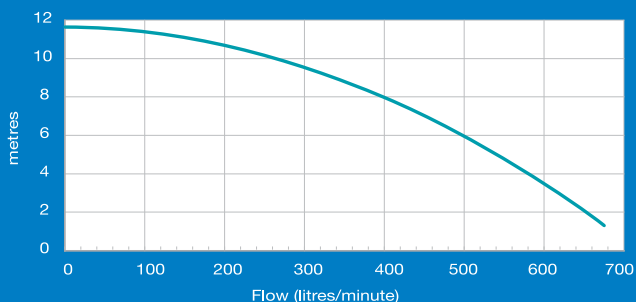
CSM240VF



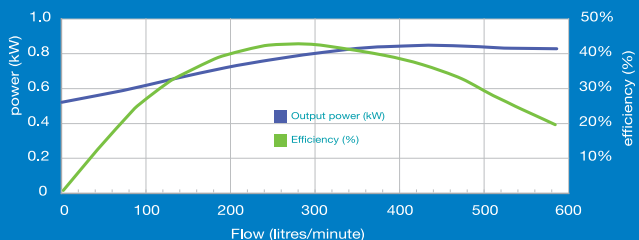
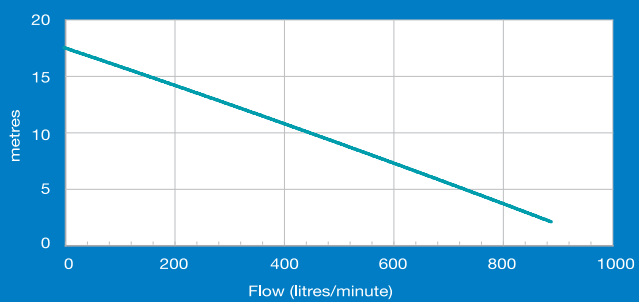
CSM500VF / CSM500VT



CSM650VS / CSM650VT

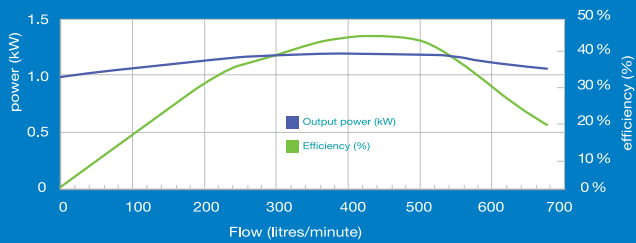
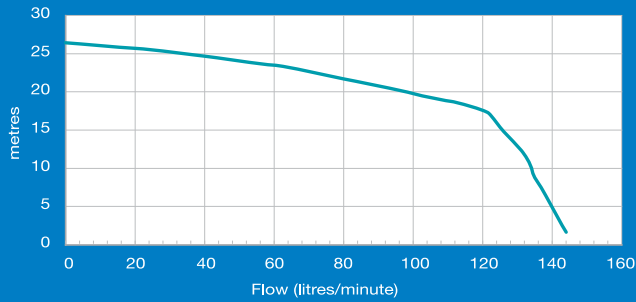


CSM850CS / CSM850CT

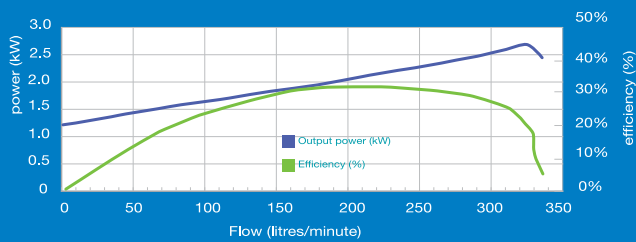
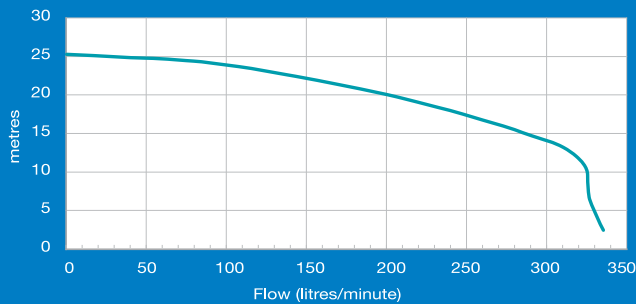


| APPLICATIONS | MODELS | CSM240VF | CSM500V | CSM650V | CSM850C | CSM160XG | CSM300XGT |
|--------------------------------------|--------|----------|---------|---------|---------|----------|-----------|
| Ponds and fountains | | • | • | • | | | |
| Dairy pit drainage | | | | • | • | • | • |
| Water treatment circulation | | • | • | • | • | | |
| Pit drainage (few small hard solids) | | • | • | • | • | | |
| Raw sewerage disposal | | | | | | • | • |
| Low pressure sewerage | | | | | | • | • |
| Dewatering (clean water) | | • | • | • | | | |
| Water with stringy material | | | | | • | • | • |
| Grey water (hair, small soft solids) | | • | • | • | • | • | • |

CSM160XGS / CSM160XGT



CSM300XGT



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