

MHM · MES SERIES · SELECTION & PERFORMANCE DATA

MHM End-Suction Centrifugal Pump

Back-pull-out end-suction pump, 10–1200 m³/h, up to 90 m head, IE3 motor.

Rating conditions

Flow	10–1200 m³/h
Head	up to 90 m
Motor	IE3, 1.5–160 kW
Impeller	Bronze / SS304
Seal	Mechanical, SiC/C
Warranty	12 months
Origin	MHM / Energy, China

Model range — nominal data

Model	Flow (m³/h)	Head (m)	Motor (kW)	Suction × Discharge	Speed (rpm)	Weight (kg)
MES-50-160	25	32	4	65 × 50	2900	62
MES-65-200	50	48	11	80 × 65	2900	98
MES-100-250	120	70	37	125 × 100	2900	240
MES-150-315	300	32	45	200 × 150	1450	410
MES-200-400	600	50	110	250 × 200	1450	780
MES-250-400	1200	45	160	300 × 250	1450	1150

Derived performance figures

Model	Hydraulic power (kW)	Wire-to-water efficiency (%)
MES-50-160	2.18	55
MES-65-200	6.54	59
MES-100-250	22.89	62
MES-150-315	26.16	58
MES-200-400	81.75	74
MES-250-400	147.15	92

Calculated from the nominal data above (1 TR = 3.517 kW; water Δt from $Q = \dot{V} \cdot c_p \cdot \Delta t$ with $c_p = 4.186 \text{ kJ/kg}\cdot\text{K}$; hydraulic power $\dot{W} = gQH$). Use them to compare models and check pipe/pump sizing; final selection is done by MHM at your actual conditions.

Selection notes

- Select on the system curve, not the maximum head: operating within 70–120% of the best-efficiency flow keeps vibration and seal wear low.
- Check NPSH available (tank level, suction losses, water temperature) against the pump curve with a 1 m margin.
- Duty/standby pairs: size each pump for 100% flow; parallel pumps must have similar curves.
- Use a VFD when flow varies by more than 30% — pump power drops with the cube of speed.

Need a selection at your conditions?

Email the duty point, water/air conditions and site constraints to sales@mhmmachineries.com — MHM returns a model selection with performance data, drawings and price within two working days.