

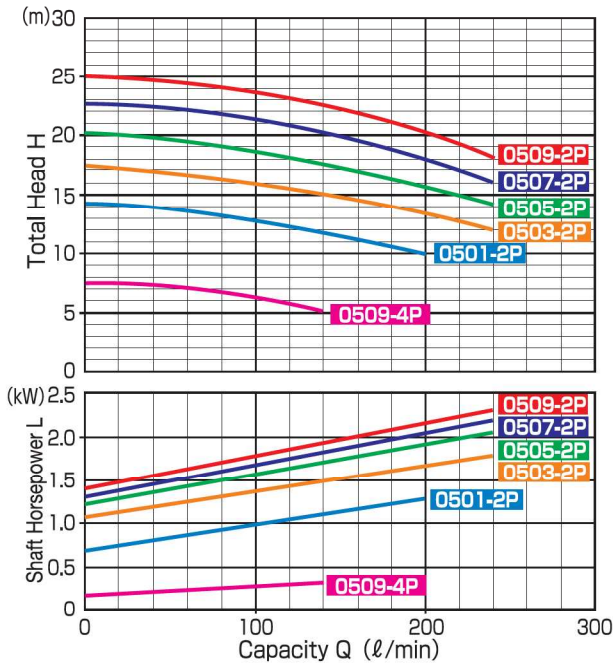
MES-050 Series (Suction 50A×Discharge 40A)



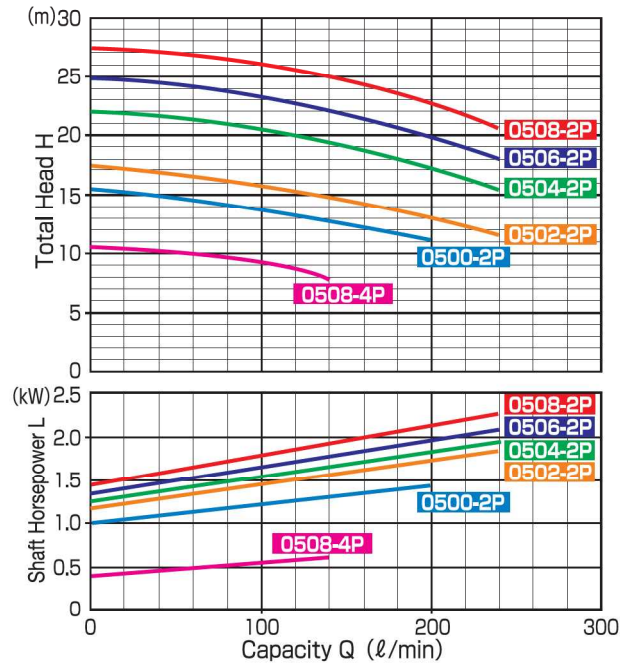
Pump Specifications

- Operating Temperature 0~80°C
- Rotation Direction Clockwise (viewed from the motor)
- Flange JIS 10K FF (Please consult us about ANSI/DIN standard.)
- Finish Paint Munsell 2.5B4/8(pump body)
- Motor TEXEL flanged induction motor / IEC flanged induction motor
- Accessories Base & Foundation bolts (M12×160L×50b)

50Hz Performance Curve & Technical Data



60Hz Performance Curve & Technical Data



Model	Capacity (ℓ/min)	Total Head (m)	NPSH Re (m)	Motor Output (kW)
MES-0501-2P	200	10	1.8	0.75~3.7
MES-0503-2P		13		
MES-0505-2P		15		
MES-0507-2P		18		
MES-0509-2P		20		
MES-0509-4P	100	6	1.0	0.4 · 0.75

Model	Capacity (ℓ/min)	Total Head (m)	NPSH Re (m)	Motor Output (kW)
MES-0500-2P	200	10	2.5	0.75~3.7
MES-0502-2P		13		
MES-0504-2P		15		
MES-0506-2P		18		
MES-0508-2P		20		
MES-0508-4P	100	9	1.5	0.75

Note: ① Motor output of 0.4 kW (4-pole) is only applicable when a TEXEL flanged induction motor is used.
 ② Motor output of 3.7 kW is only applicable when an IEC flanged induction motor is used.
 ③ NPSH Re values shown in the table are those obtained from the maximum suction pipe diameter.

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Pump Identification

MES - 050 1 F 01 A S F 4

- ① Model ② Suction Pipe Size
- ③ Model Number Please refer to Performance Curve
- ④ O-ring Material
F : FPM E : EPDM Z : Other
- ⑤ Motor Output
00 : 0.4kW 01 : 0.75kW 02 : 1.5kW
03 : 2.2kW 05 : 3.7kW
- ⑥ Pump Body Material

Type	Tank	Casing	Impeller	Inner Magnet	Rear Casing
A	PP				C-PVDF
P	PVDF				
Z	Other Combinations or Special Option				

⑦ Motor Type

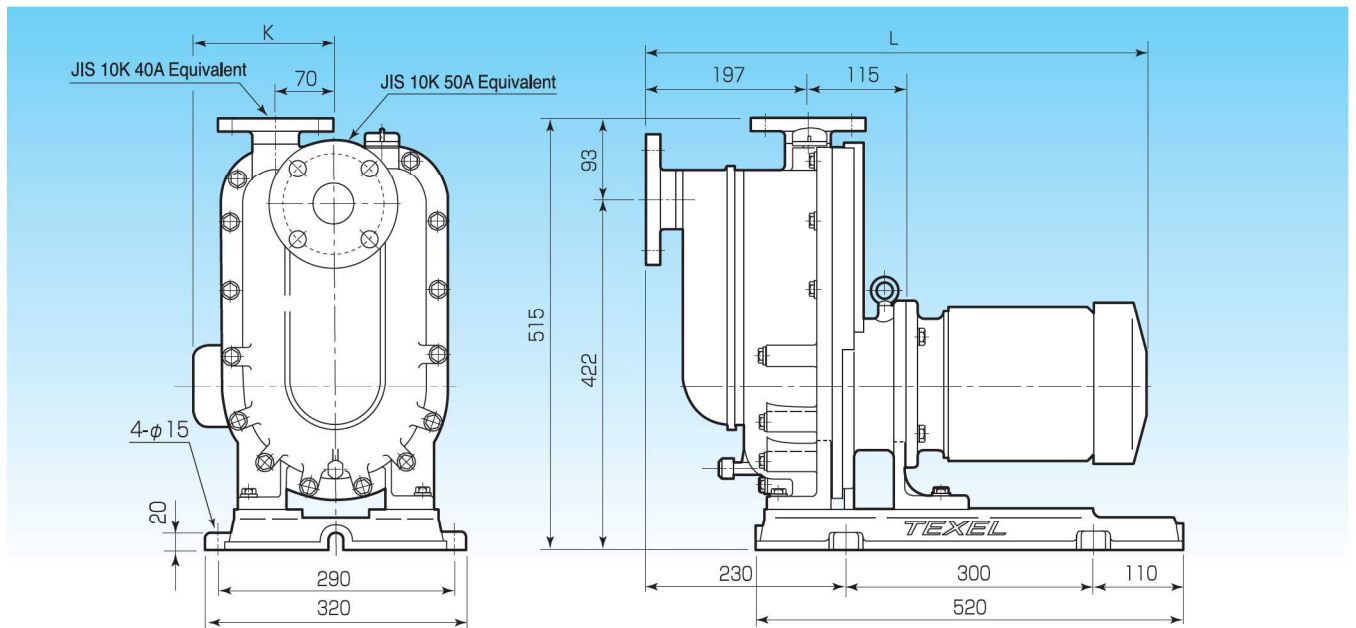
S: TEFC/outdoor TEXEL motor A: Explosion-proof increased safety (eG3) TEXEL motor
 T: IEC standard explosion-proof (d2G4) motor C : Other

⑧ Material Combination

Type	Shaft	Front Thrust Ring	Rear Thrust Ring	Mouth Ring	Bearing
A	Alumina-ceramic			C-PTFE	
B	SiC				
C	SiC			Carbon	
E	SiC			C-PTFE	
F(Standard)	Alumina-ceramic			Carbon	
G	Alumina-ceramic			G-PTFE	
Z	Other Combinations or Special Option				

⑨ Number of Poles "4" is shown only when a 4-pole motor is installed.

Dimensions



Motor Output (kW)	TEFC		eG3		Weight (kg)
	K	L	K	L	
0.4	147	541	150	550	(41)
0.75	161	559	169	559	
1.5	176	585	183	585	
2.2	176	605	205	616	

- Note: ① The weight of pump does not include the motor weight.
 ② The dimensions shown above are applicable when a TEXEL flanged induction motor (2-pole) is used.
 When using special motors (such as explosion-proof motors), please contact us.
 ③ The figures in parentheses are reference values.
 ④ Please consult us when you use 3.7kW IEC flanged motor.

Construction Diagram

No.	Part Name	Materials
001	Casing	PP / PVDF
013	Impeller	PP / PVDF
018	Shaft	Alumina-ceramic/SiC
027	Casing Support	FC200
028	Bracket	FC200
037	Air Vent Plug	PP / PVDF
038	Drain Plug	PP / PVDF
042	Tank	PP / PVDF
051	Bearing	C-PTFE / SiC / Carbon / G-PTFE
054	Front Thrust Ring	Alumina-ceramic / SiC
056	Rear Thrust Ring	Alumina-ceramic / SiC
057	Outer Magnet	Rare Earth
058	Inner Magnet	Rare Earth
060	Rear Casing	C-PVDF
096	Bracket Ring	SS400
102-01	O-ring(Casing)	FPM / EPDM
102-12	O-ring(Drain Plug)	FPM / EPDM
102-20	O-ring(Tank)	FPM / EPDM
102-25	O-ring(Air Vent Plug)	FPM / EPDM
102-29	O-ring(Suction)	FPM / EPDM
104-46	Outer Magnet Set Screw	SNCM
105	Mouth Ring	C-PTFE / SiC / Carbon / G-PTFE
301	Base	FC200

Note: Inner Magnet (058) and Impeller (013) are integrated.