

Moviboost Dual - Pressure Booster System

For Commercial Building Services Segment

Design

Moviboost Dual system is a pressure booster pump set with two identical horizontal multistage pumps connected in parallel to support the variable flow requirement. The system comes along with 2 nos. KSB's KHM/KM pumps including all necessary accessories & piping mounted on common base plate, 24L Global Water Tank (optional), 2 pressure switch or Changeover switch and control panel.

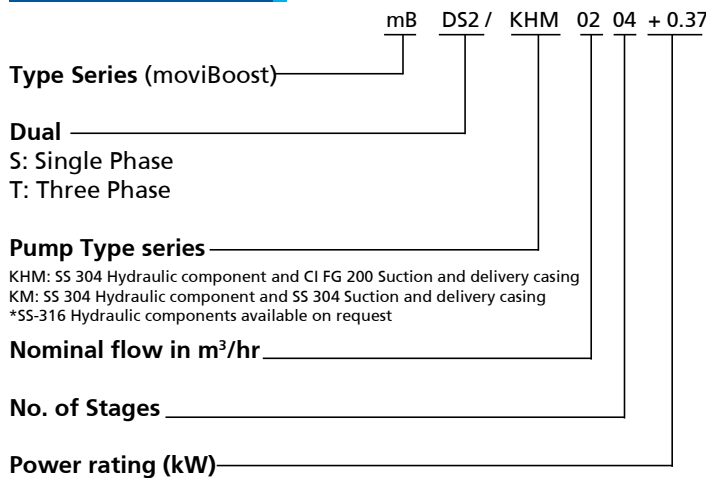
Features

- Robust Construction
- Compact Design
- Stainless steel (SS304) hydraulic components
- Low Vibrations and noise
- High reliability
- Service friendly
- Wide usage
- IP 55 motor
- Class F insulation

Working Conditions

- Medium temperature : +15°C ~ +70°C
- Environmental temperature : ≤ 50°C

Pump Description



Operating data Parameters

For Single phase

- a) Supply Voltage : 220 V +10% -10%
- b) Frequency : 50 Hz ± 10%

For Three phase

- a) Supply Voltage : 380 V +10% -10%
- b) Frequency : 50Hz ± 10%

Pump protections

- Overload : Overload relay
- Short Circuit protection
- Dry run : Suction tank float switch / Pressure Switch (Provided loose. To be installed by customer)

Functional Details

- Two KHM horizontal multi stage, centrifugal, non-self-priming Monobloc pumps are used.
- Auto Mode : Pumps cascading through pressure switch, pumps may run in parallel also depending on pressure.
- Manual Mode : Pumps will run at full speed through optional switches provided for setting in manual mode.
- System operates automatically cascade control as function of pressure.
- Two pressure switches are provided for cut-in and cut-out of pumps within prescribed pressure range.
- MS CED coated headers which offers high corrosion resistance.
- Pressure gauge is provided for system pressure indication.
- Overload protection is by thermal overload protection (TOP-in motor for single phase) and over load relay (OLR).
- Dry run protection is provided with help of float switch (optional - Level sensor).
- Factory fitted System.
- Fault indication for over load & dry run.
- IP Protection:
Control Panel : IP 54
Motor : IP 55
- Indication for each pump ON / OFF is provided.
- Indication of power ON/OFF is provided

Scope of Supply

Nos of Pumps	2 Nos.
Cascade control panel	1 Nos
Suction Headers/ Manifold	1 Nos.
Pressure Switch	2 Nos.
Pressure gauge	1 Nos.
Float Switch	1 Nos.
Tank	1 Nos. (optional)
Electronic dry run protection	Optional
Change over switch	Optional

List of indicators

Power On	: Green Illuminated
Pump On / Off	: Amber Illuminated
Fault Condition	: Amber Illuminated

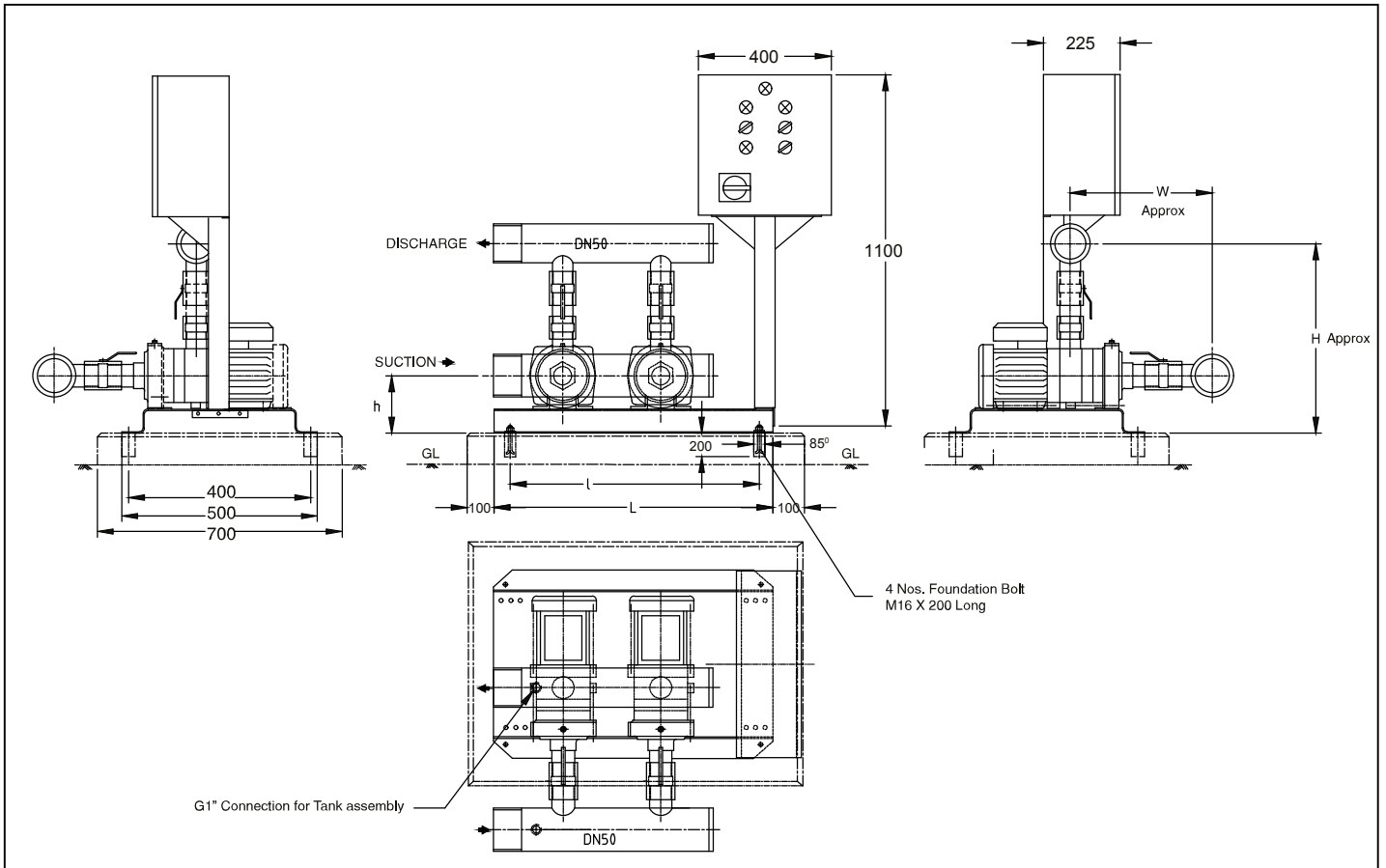


Applications

- Single booster
- Domestic water supply system
- Multi-jet pumps
- Temperature control
- Chemical industry
- Pharmaceutical industry
- Water treatment
- Washing and cleaning



Dimensional drawing & details



L3 (W)	MODEL	L	I	H	W	h
104	KHM2-20	560	470	593.5	288.5	150
122	KHM2-30	560	470	593.5	288.5	150
140	KHM2-40	560	470	593.5	288.5	150
158	KHM2-50	560	470	593.5	288.5	150
176	KHM2-60	560	470	593.5	288.5	150

L3 (W)	MODEL	L	I	H	W	h
113	KHM4-20	560	470	593.5	299.5	150
140	KHM4-30	560	470	593.5	299.5	150
167	KHM4-40	560	470	593.5	299.5	150
194	KHM4-50	560	470	593.5	299.5	150
221	KHM4-60	560	470	593.5	299.5	150

L3 (W)	MODEL	L	I	H	W	h
78	KHM8-10	790	700	697.5	312	170
108	KHM8-15	790	700	697.5	312	170
108	KHM8-20	790	700	697.5	312	170
138	KHM8-25	790	700	697.5	312	170
138	KHM8-30	790	700	697.5	312	170
168	KHM8-35	790	700	697.5	312	170
168	KHM8-40	790	700	697.5	312	170

L3 (W)	MODEL	L	I	H	W	h
78	KHM12-10	790	700	697.5	312	170
108	KHM12-15	790	700	697.5	312	170
108	KHM12-20	790	700	697.5	312	170
138	KHM12-25	790	700	697.5	312	170
138	KHM12-30	790	700	697.5	312	170