



EBARA *Hydro* Booster System

Uniquely EBARA Variable Speed Booster System
Type UE-MINI

Custom built for ideal water supply system...

APPLICATIONS

- Water supply for villas, schools, hotels, Hospitals, rest houses and high-rise buildings.
- Industrial water boosting.
- Municipal water supply.
- Irrigation.
- General pressure boosting application.

FEATURES

- **Constant Pressure**
'LCD' Screen/'LED' Display PID controller with integrally built-in VFD is capable of adjusting water pressure automatically to meet actual demand, at all times.
- **Energy saving**
The use of inverter makes energy saving possible.
- **Compact design**
Space saving and light weight, permitting easy installation.
- **No water surge**
Prevent water hammering as the speed is adjusted by varying RPM due to the use of inverter.
- **Simple to use**
User-friendly controller unit that accepts minimum setting data for optional operation.



VFD-4000 Series
Controller

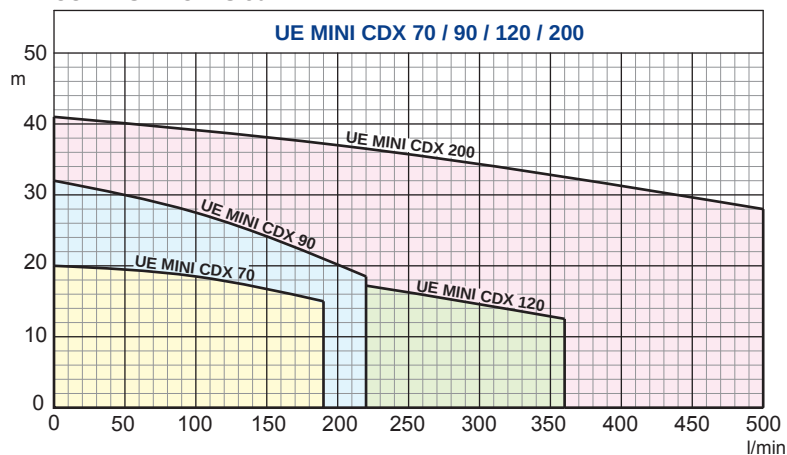


VFD-4500 Series
Controller

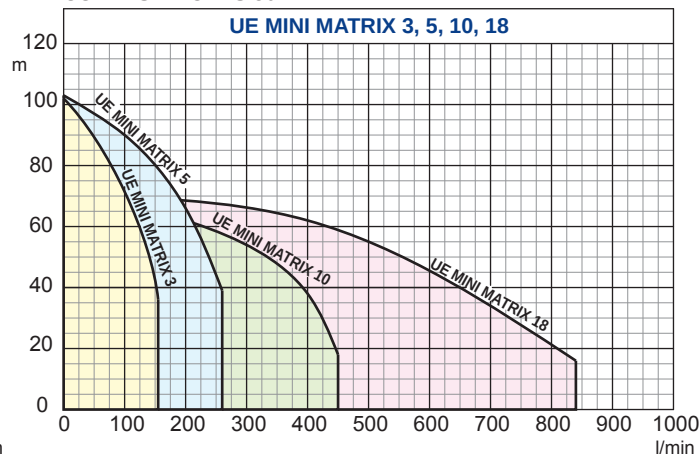


PERFORMANCE CURVE

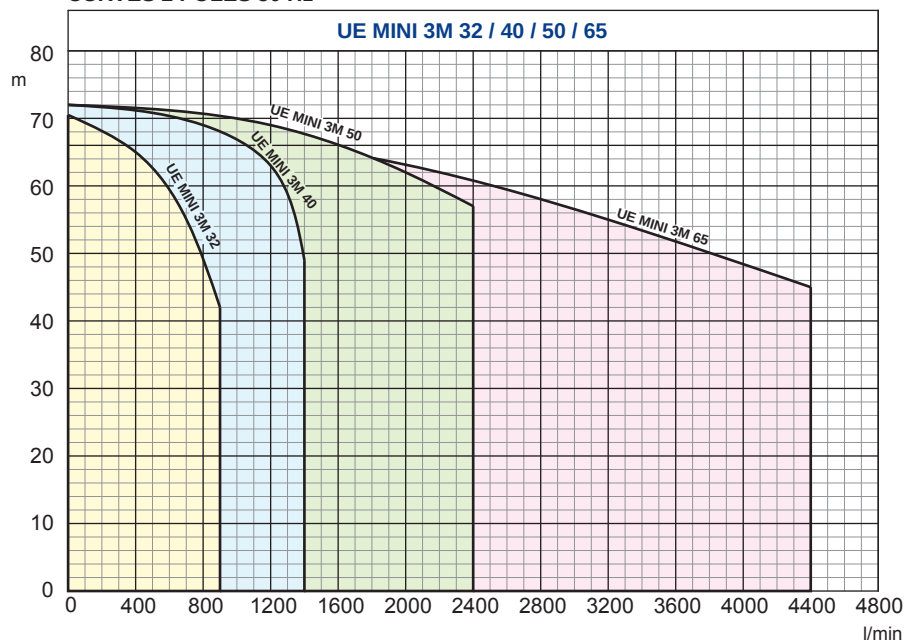
UE MINI CDX 70 / 90 / 120 / 200
CURVES 2 POLES 50 Hz



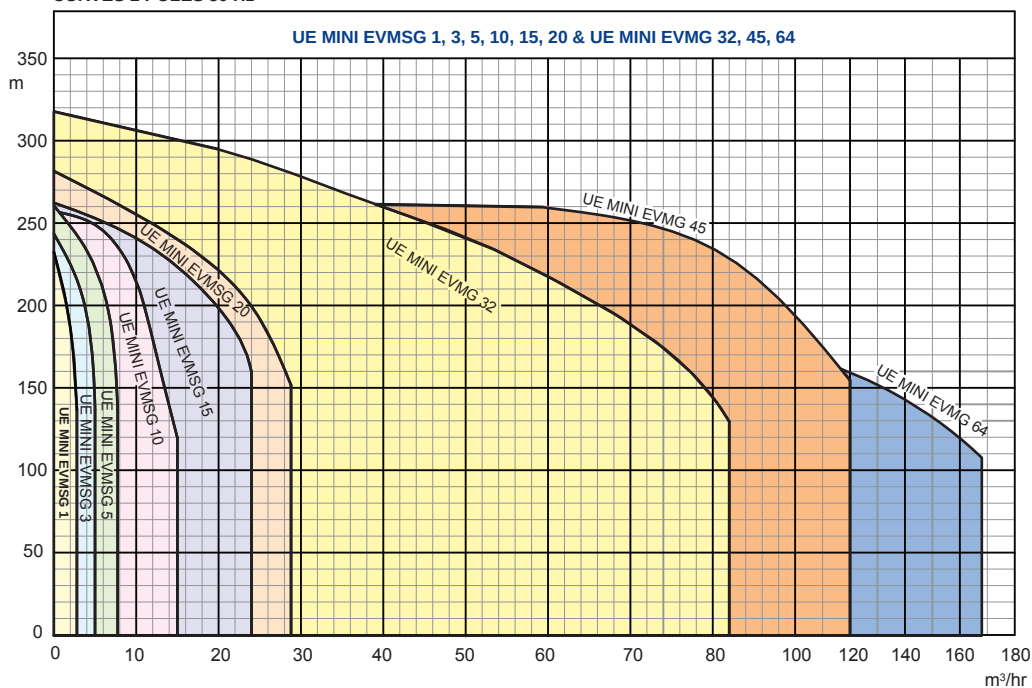
UE MINI MATRIX 3, 5, 10, 18
CURVES 2 POLES 50 Hz



UE MINI 3M 32 / 40 / 50 / 65
CURVES 2 POLES 50 Hz



UE MINI EVMSG 1, 3, 5, 10, 15, 20 & UE MINI EVMG 32, 45, 64
CURVES 2 POLES 50 Hz



SPECIFICATIONS

- 0.75 to 2.2kw, 1PH / 230V / 50Hz input.
- V/F control.
- Pressure control function.
- Option: 3PH/415V/50Hz (for 0.75kW to 37 kW)

KEY FUNCTIONS

- **Duty pressure point setting**
Ensure constant pressure operation.
- **Fully automatic operation**
Suitable for most pressure boosting requirement.
- **Faulty pump skip function**
No interruption operation, at all time.
- **Automatic re-start**
Storage of operational data even during sudden or unexpected power failure situation, ensure auto-start when power supply resumed.
- **Dry running protection**
Protection of pump unit during low water level or no-flow condition.
- **Simple data display**
Display operating data and provide alarm data where applicable.



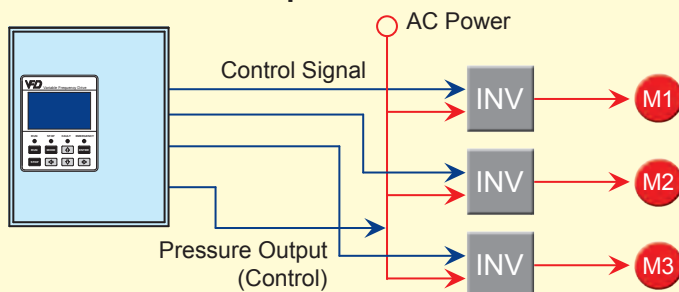
UE-MINI

Type 2UEM-CDX 90/10/0.75

SYSTEM OPERATION DIAGRAM

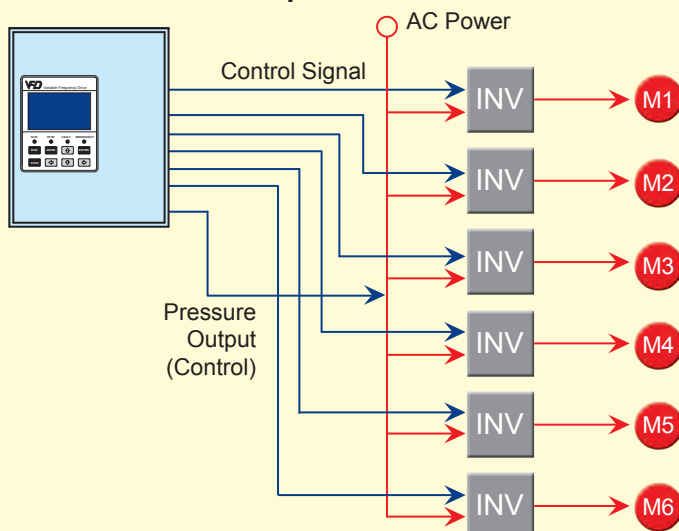
■ Model : UE-MINI (Multiple Inverter type)

1. 1PH/230V/50Hz input



- * Up To 3 Inverter Pump System
- * BMS Option Not Available

2. 3PH/415V/50Hz input



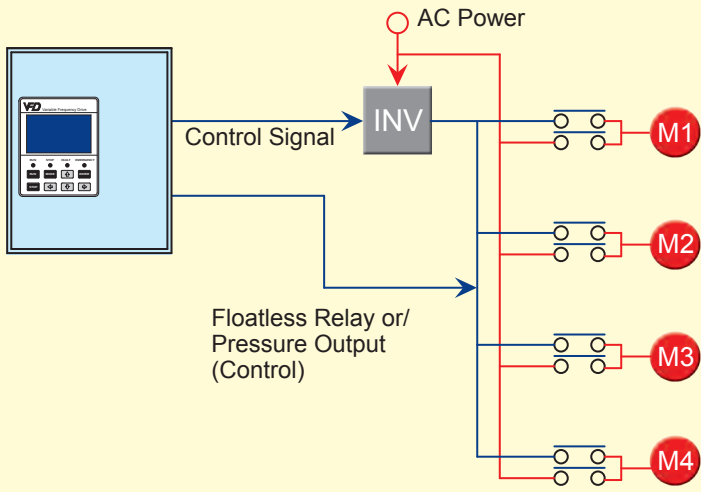
- * Up To 6 Inverter Pump System
- * BMS Option Available

Operation Functional Features

- **UE-Mini (Multi Inverter type) System**
 - Booster unit incorporated with multiple pumps with integral inverter up to
 - 3 pumps for 1PH
 - 6 pumps for 3PH
 parallel in operation and capable to adjust the water pressure automatically to meet actual system demand at all times.
 - Graphical display controller with password protection provided and prevents any unauthorized personnel's erroneous operation or/ overwriting of parameter function code.
 - Dry running prevention, high & low pressure limit protection, pipe friction loss compensation and fix prevention function.

SYSTEM OPERATION DIAGRAM

■ Model : UE-MINI (T Series) (Single Inverter type)

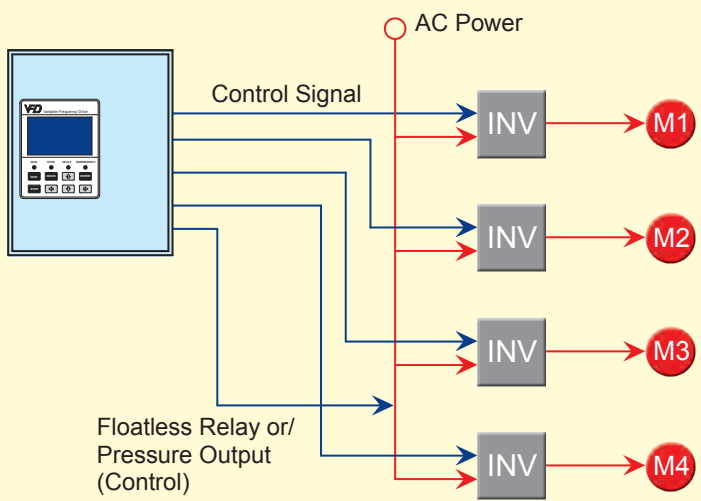


* Up To 4 Pump System

• UE-Mini (T-Series) System

- Booster unit incorporated with 1 single external inverter driven pump and 3 fix speed pump or/ 4 fixed pumps with 1 floating inverter driven up to 4 pumps in parallel operation and capable to adjust the water pressure automatically to meet actual system demand at all times.
- User-friendly and simplest key pad display with password protection provided and prevents any unauthorized personnel's erroneous operation or/ overwriting of parameter function code
- Dry running prevention, high & low pressure limit protection and control of maximum start/stop operation.

■ Model : UE-MINI (TD Series) (Multiple Inverter type)



* Up To 4 Inverter Pump System

• UE-Mini (TD-Series) System

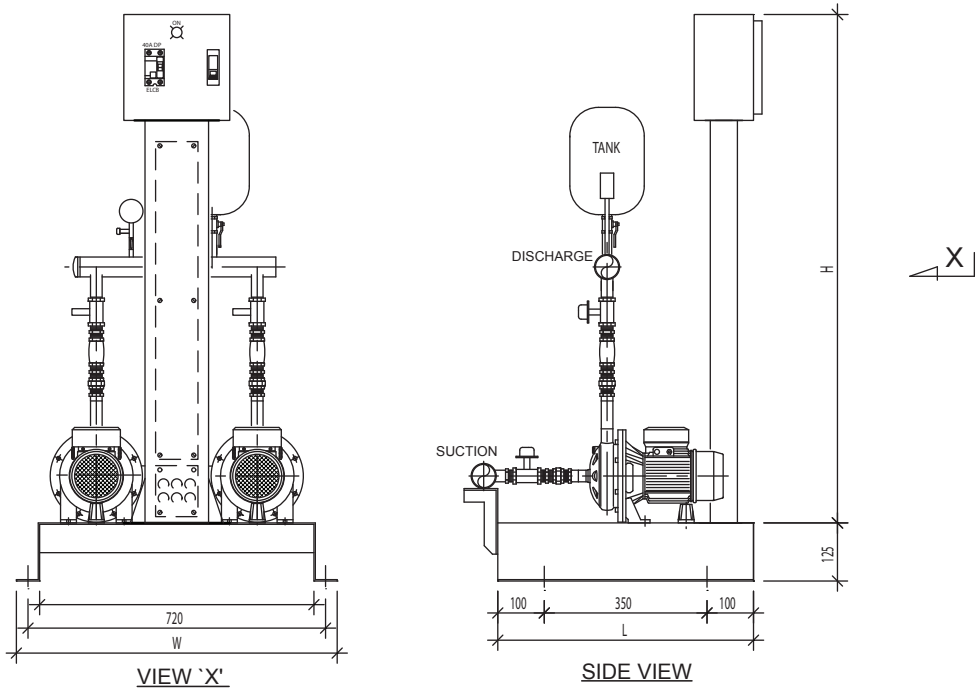
- Booster unit incorporated with multi external inverter driven pump up to 4 pumps in parallel operation and capable to adjust the water pressure automatically to meet actual system demand at all times.
- User-friendly and simplest key pad display with password protection provided and prevents any unauthorized personnel's erroneous operation or/ overwriting of parameter function code
- Dry running prevention, high & low pressure limit protection and control of maximum start/stop operation.

Input Signal & Type of Sensor

- **Constant Pressure control installation:**
Industrial pressure transmitter with 4 to 20mA.
- **Option:**
Floatless Relay control for Tank to Tank pumping application

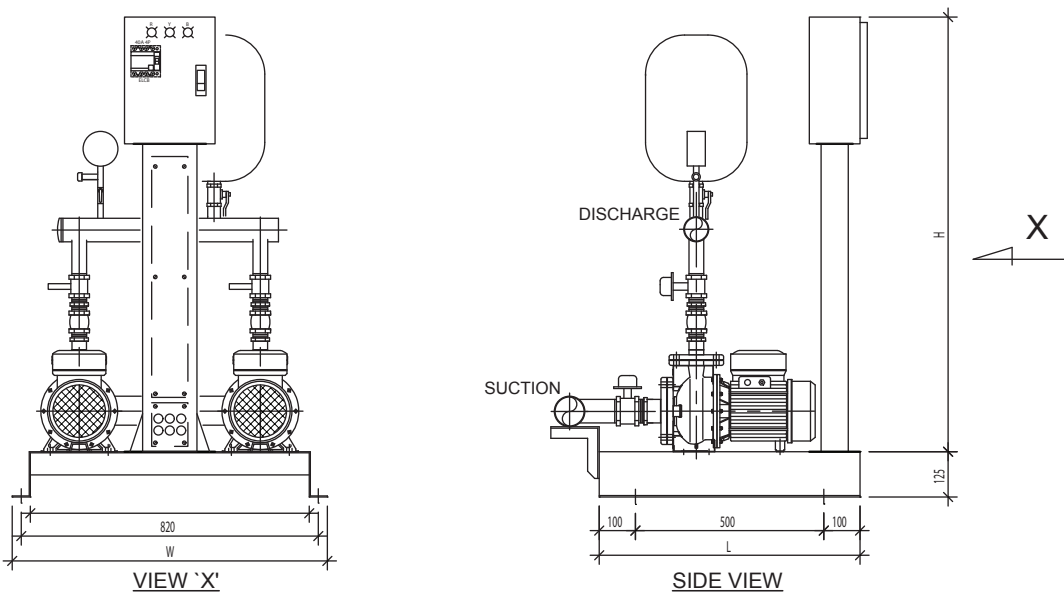
DIMENSION

TYPE : 2UEM-CDX/2CDX



DIMENSION	L	H	W	TANK	SUCTION	DISCHARGE	PIPE
MODEL	mm	mm	mm	LITRE	MANIFOLD (mm)	MANIFOLD (mm)	CONNECTION
2UEM-CDX	550	1200	770	8	50	50	BSP
2UEM-2CDX 70, 90, 120	550	1200	770	8	50	50	BSP
2UEM-2CDX 200	620	1200	770	8	50	50	BSP

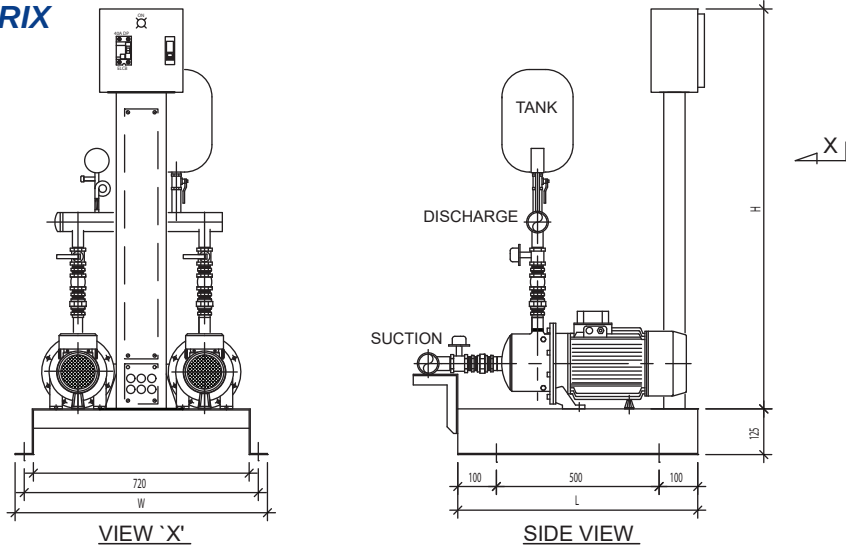
TYPE : 2UEM-3M



DIMENSION	L	H	W	TANK	SUCTION	DISCHARGE	PIPE
MODEL	mm	mm	mm	LITRE	MANIFOLD (mm)	MANIFOLD (mm)	CONNECTION
2UEM-3M32	700	1200	870	18	65	50	BSP
2UEM-3M40	700	1200	870	18	80	65	BSP
2UEM-3M50	700	1200	870	18	80	65	BSP
2UEM-3M65	700	1200	870	18	100	80	BSP

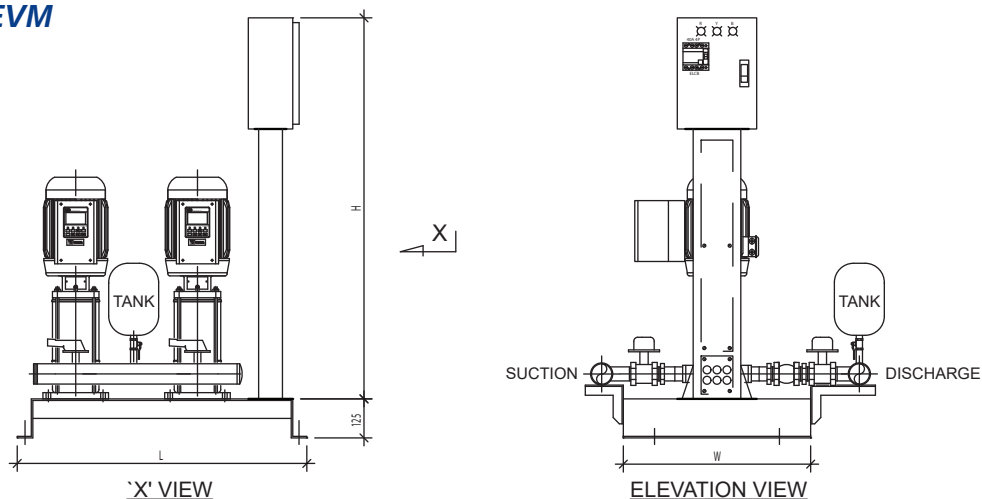
DIMENSION

TYPE : 2UEM-MATRIX



MODEL	DIMENSION	L mm	H mm	W mm	TANK LITRE	SUCTION MANIFOLD (mm)	DISCHARGE MANIFOLD (mm)	PIPE CONNECTION
2UEM-MATRIX 3		700	1200	770	8	50	50	BSP
2UEM-MATRIX 5		700	1200	770	8	50	50	BSP
2UEM-MATRIX 10		700	1200	770	8	50	50	BSP
2UEM-MATRIX 18		700	1200	770	8	50	50	BSP

TYPE : 2UEM-EVM



MODEL	DIMENSION	L mm	H mm	W mm	TANK LITRE	SUCTION MANIFOLD (mm)	DISCHARGE MANIFOLD (mm)	PIPE CONNECTION
2UEM-EVMS 1		910	1200	600	8/24	50	50	BSP
2UEM-EVMS 3		910	1200	600	8/24	50	50	BSP
2UEM-EVMS 5		910	1200	600	8/24	65	65	BSP
2UEM-EVMS 10		980	1200	600	18/24	80	80	FLANGE
2UEM-EVMS 15		1070	1200	710	18/24	80	80	FLANGE
2UEM-EVMS 20		1070	1200	710	18/24	100	100	FLANGE
2UEM-EVM 32		1140	1200	850	24	100	100	FLANGE
2UEM-EVM 45		1270	1200	850	24	100	100	FLANGE
2UEM-EVM 64		1270	1200	850	24	150	150	FLANGE

* Dimensional details are provided for reference only.

* All specifications are subject to change without prior notice.



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Authorised dealer: