



EBARA PUMP

Quality since 1912

EBARA *Hydro* Booster System

Uniquely EBARA Variable Speed Booster System
Type UE-MINI (P)

Custom built for ideal water supply system...

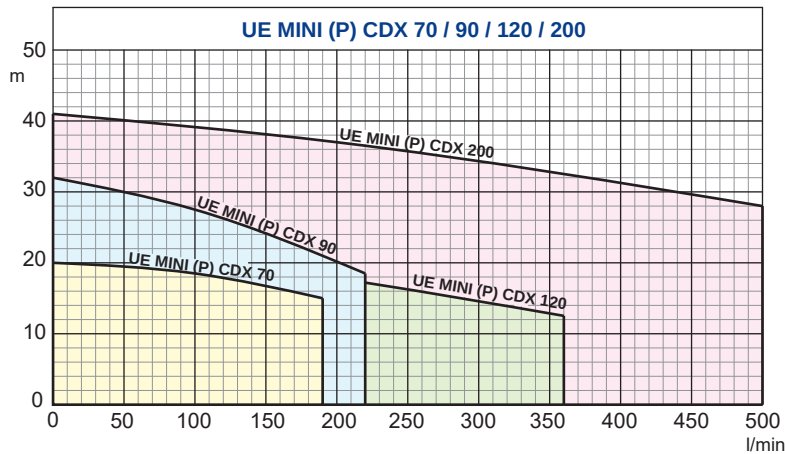


VFD S100
Panel-mounted
Variable Frequency Drive

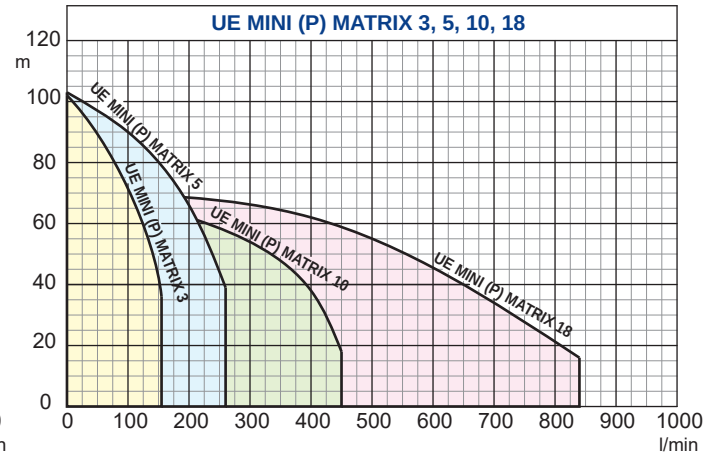
Quality • Value • Performance

PERFORMANCE CURVE

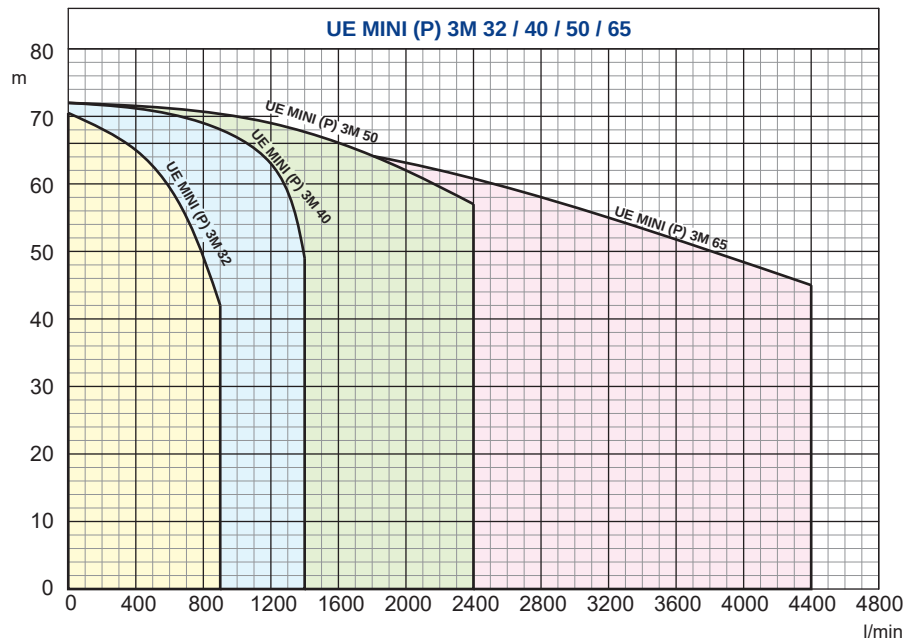
UE MINI (P) CDX 70 / 90 / 120 / 200
CURVES 2 POLES 50 Hz



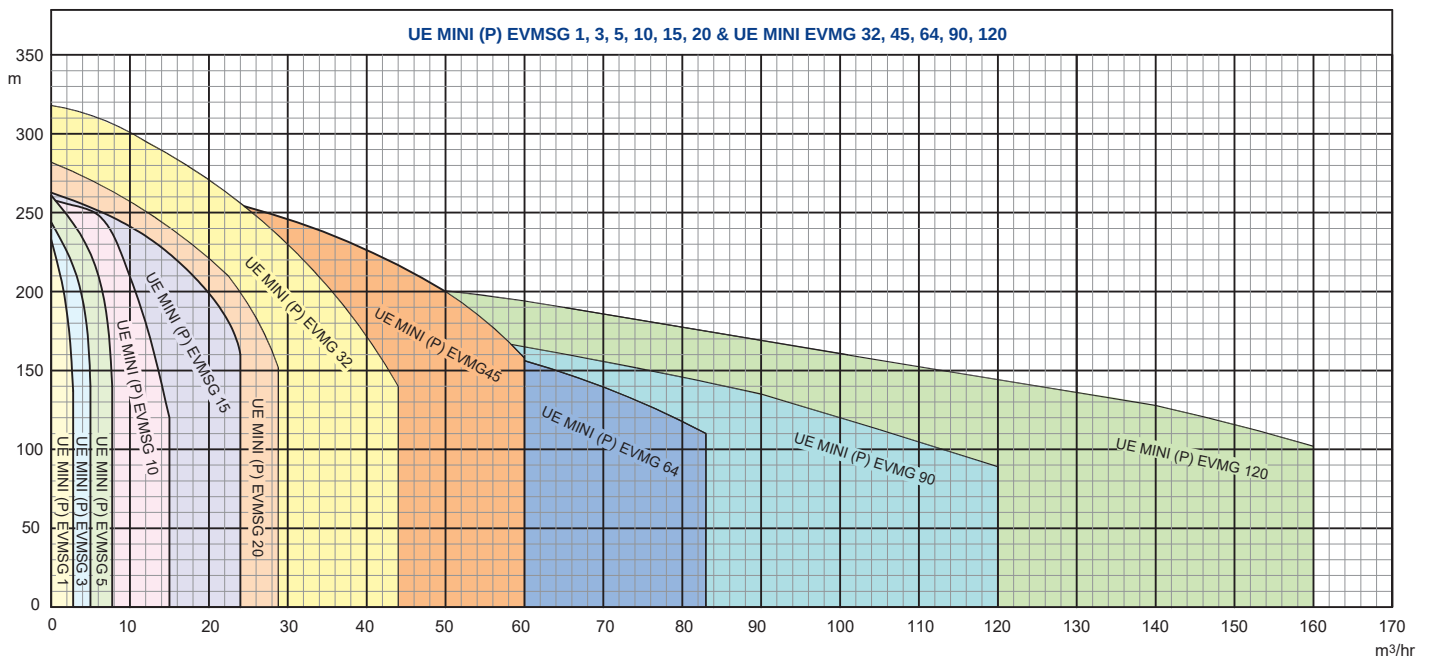
UE MINI (P) MATRIX 3, 5, 10, 18
CURVES 2 POLES 50 Hz



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



UE MINI (P) EVMSG 1, 3, 5, 10, 15, 20 & UE MINI EVMG 32, 45, 64, 90, 120
CURVES 2 POLES 50 Hz



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**
VFD PID controller with integrally built-in VFD is capable of adjusting water pressure automatically to meet actual demand, at all times.
- **Operation Status Indication**
LCD operation data display.
BLUE (Run), **PURPLE** (Stop), **RED** (Alarm).
- **Energy saving**
The use of inverter makes energy saving possible. Effective in improving power factor and decreasing THD (Total harmonic distortion).
- **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 operation and functionality.

SPECIFICATIONS

- Variable frequency control.
- Pressure control function.
- 3PH/415V/50Hz (for 0.75kW to 75 kW)
Optional : Display Remote Controller / Monitor.

KEY FUNCTIONS

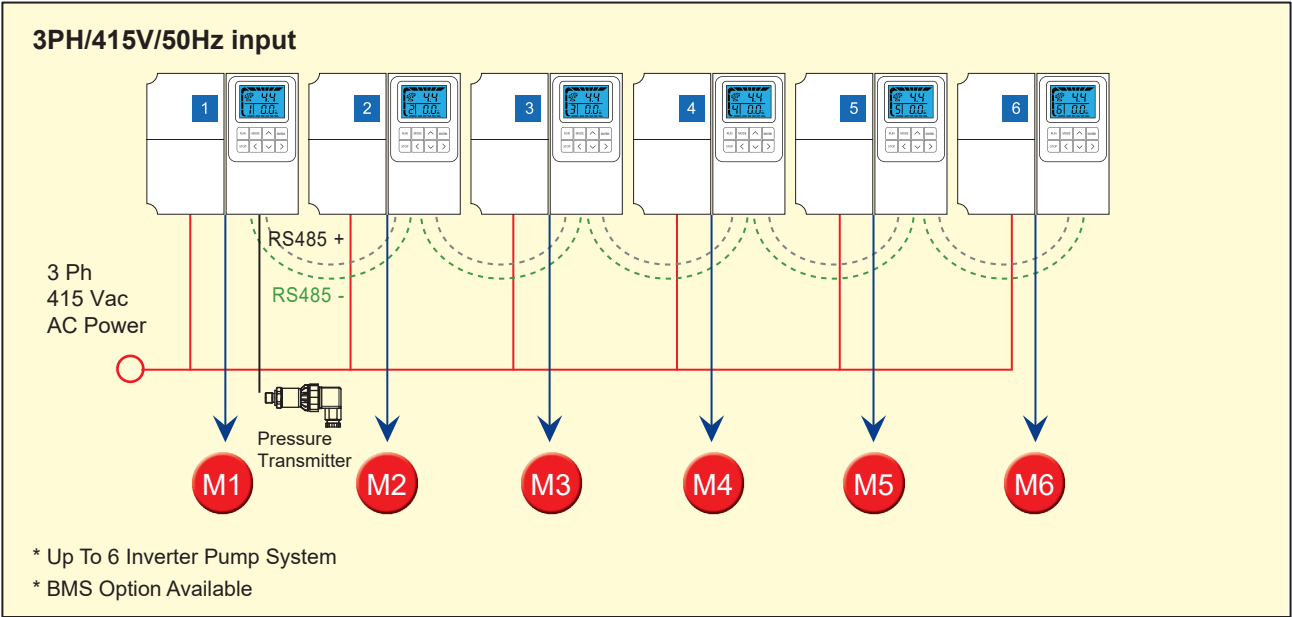
- **Duty pressure point setting**
Ensure constant pressure operation.
- **Fully automatic operation**
Suitable for most pressure boosting requirement.
- **Faulty pump skip function**
No interruption operation, at all time.
- **Automatic re-start**
Storage of operational data even during sudden or unexpected 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.
- **Operation data display**
Display operating data and provide alarm data where applicable.
- **Timer delay start**
Timer to delay the next start of pump (Transfer System)



UE-MINI

Type 2UEM (P) CDX 70/05 - 0.37kW

(For illustration only)

SYSTEM OPERATION DIAGRAM**Operation Functional Features**

- **UE-Mini (Multi Inverter type) System**
 - Booster unit incorporated with multiple pumps with integral inverter up to 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.
 - BMS dry contact output : RUN, STOP & TRIP

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

**Nation-wide Sales & Service Network**

- Effective after-sales service support

Quality EBARA pump and components

- Low life-cycle-cost assured

EBARA proven Controller being used

- Ensure user-friendly and peace-of-mind operation

Custom-designed electrical control panel

- Fully guaranteed by EBARA

Quality inspection & testing to ISO 9001:2008

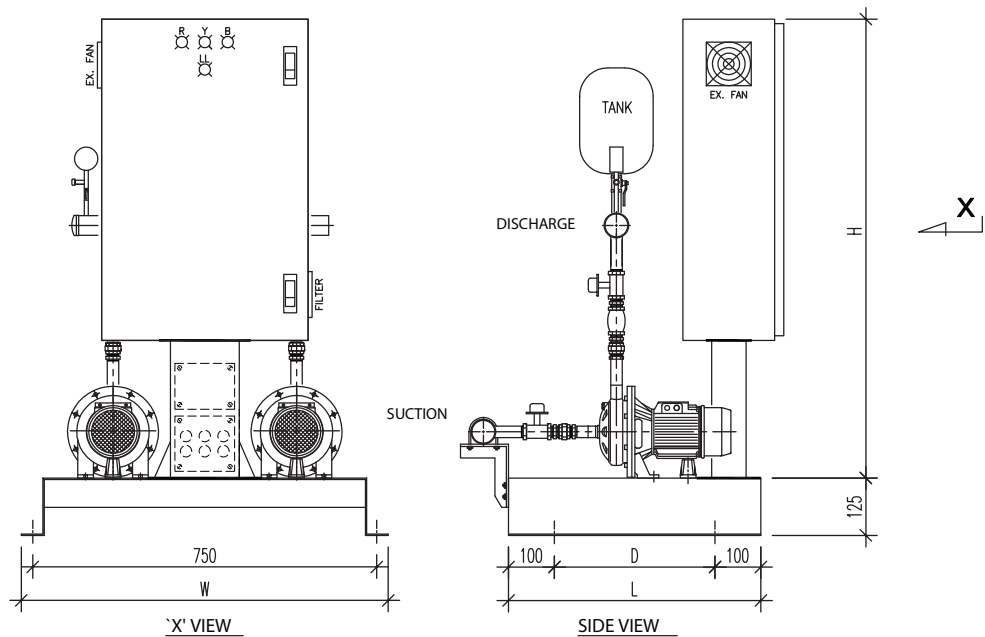
- Your assurance of trouble-free operation

Warranty from single manufacturer

- Value-for-money investment

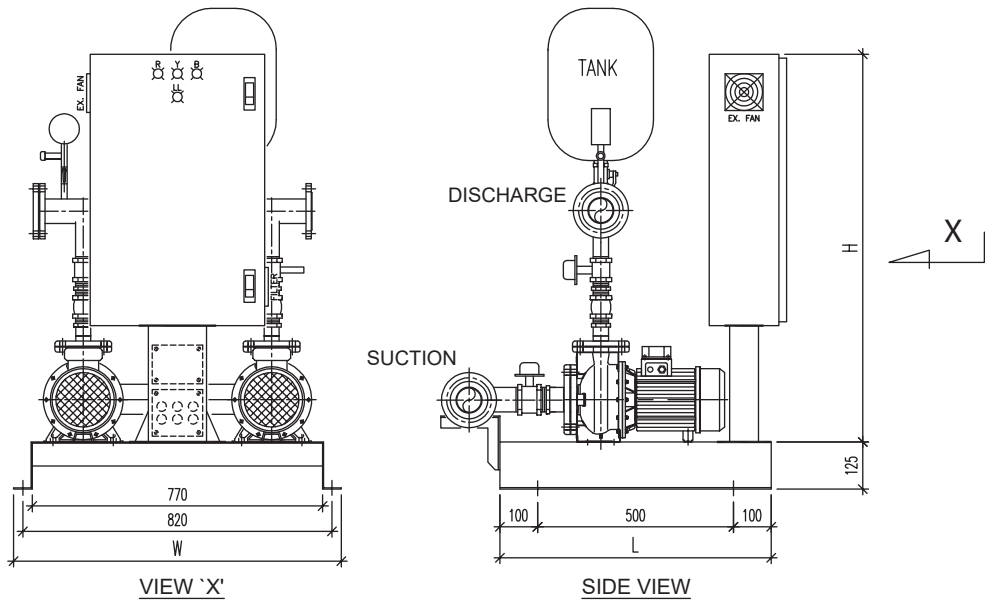
DIMENSION

TYPE : 2UEM (P)-CDX/2CDX



DIMENSION	L	L	H	W	TANK	SUCTION	DISCHARGE	PIPE
MODEL	mm	mm	mm	mm	LITRE	MANIFOLD (mm)	MANIFOLD (mm)	CONNECTION
2UEM (P)-CDX	350	550	1200	800	18	50	50	BSP
2UEM (P)-2CDX 70, 90	350	550	1200	800	18	50	50	BSP
2UEM (P)-2CDX 120, 200	420	620	1200	800	18	65	65	BSP

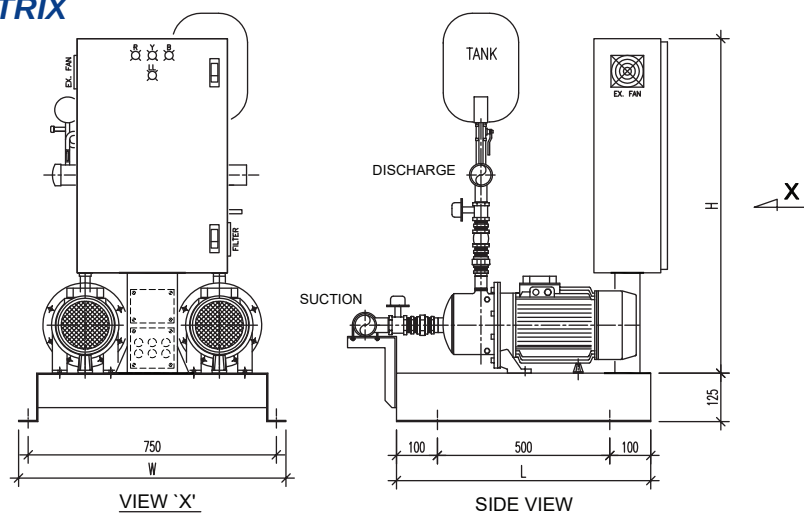
TYPE : 2UEM (P)-3M



DIMENSION	L	H	W	TANK	SUCTION	DISCHARGE	PIPE
MODEL	mm	mm	mm	LITRE	MANIFOLD (mm)	MANIFOLD (mm)	CONNECTION
2UEM (P)-3M32	700	1200	870	24	80	65	BSP
2UEM (P)-3M40	700	1200	870	24	100	80	FLANGE
2UEM (P)-3M50	700	1200	870	24	100	80	FLANGE
2UEM (P)-3M65	700	1200	870	24	100	100	FLANGE

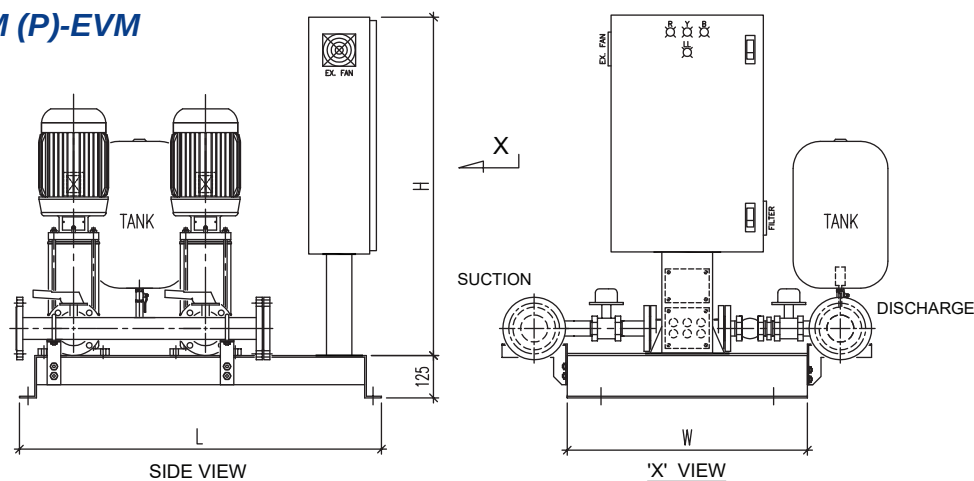
DIMENSION

TYPE : 2UEM (P)-MATRIX



MODEL	DIMENSION	L mm	H mm	W mm	TANK LITRE	SUCTION MANIFOLD (mm)	DISCHARGE MANIFOLD (mm)	PIPE CONNECTION
2UEM (P)-MATRIX 3		700	1200	800	18	50	50	BSP
2UEM (P)-MATRIX 5		700	1200	800	18	50	50	BSP
2UEM (P)-MATRIX 10		700	1200	800	18	65	65	BSP
2UEM (P)-MATRIX 18		700	1200	800	18	80	80	FLANGE

TYPE : 2UEM (P)-EVM



MODEL	DIMENSION	L mm	H mm	W mm	TANK LITRE	SUCTION MANIFOLD (mm)	DISCHARGE MANIFOLD (mm)	PIPE CONNECTION
2UEM (P)-EVMS 1		910	1200	600	18/24	50	50	BSP
2UEM (P)-EVMS 3		910	1200	600	18/24	50	50	BSP
2UEM (P)-EVMS 5		910	1200	600	18/24	65	65	BSP
2UEM (P)-EVMS 10		980	1200	600	24	80	80	FLANGE
2UEM (P)-EVMS 15		1070	1200	710	24	80	80	FLANGE
2UEM (P)-EVMS 20		1070	1200	710	24	100	100	FLANGE
2UEM (P)-EVM 32		1140	1200	850	24	150	150	FLANGE
2UEM (P)-EVM 45		1270	1200	850	24	150	150	FLANGE
2UEM (P)-EVM 64		1270	1200	850	24	200	200	FLANGE
2UEM (P)-EVM 90		1500	1200	850	24	200	200	FLANGE
2UEM (P)-EVM 120		1900	1200	1200	24	200	200	FLANGE

* Dimensional details are provided for reference only.

* All specifications are subject to change without prior notice.



EBARA Pumps Malaysia Sdn Bhd
 6, Jalan TP3, UEP Subang Jaya Industrial Park,
 47620 Subang Jaya, Selangor, Malaysia.
 Tel : 03-8023 6622 Fax : 03-8023 9355
 Email : sales@ebara.com.my
 Website : www.ebara.com.my



Approval No.0048594
 Approval No.0049022

Authorised dealer: