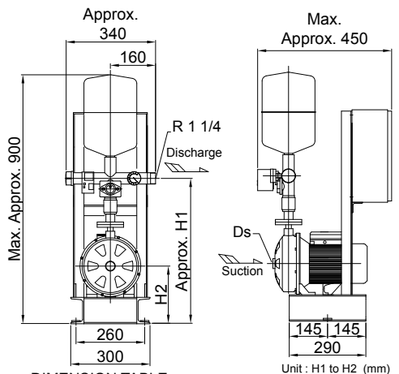
NORMAL PRESSURE BOOSTER UNIT

■ DIMENSIONS

MODEL UD2-S CDX & 2CDX

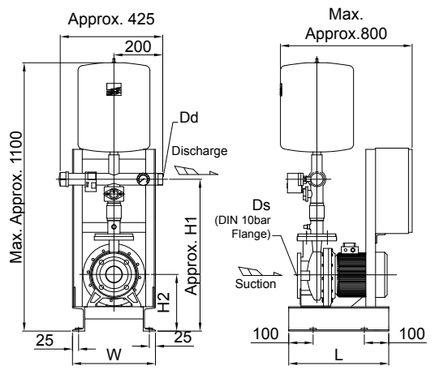


DIMENSION TABLE

Unit : H1 to H2 (mm)
Weight (kg)

Model	kW	Ds	H1	H2	Weight
UD2-S CDX120/12	0.9	G 1 1/4	465	206	31
UD2-S CDX120/20	1.5	G 1 1/4	486	218	35
UD2-S 2CDX120/15	1.1	G 1 1/4	465	206	34
UD2-S 2CDX120/20	1.5	G 1 1/4	465	206	36
UD2-S 2CDX120/30	2.2	G 1 1/4	486	218	42
UD2-S 2CDX120/40	3.0	G 1 1/4	486	218	45
UD2-S CDX200/20	1.5	G 1 1/2	465	206	33
UD2-S CDX200/25	1.8	G 1 1/2	486	218	36
UD2-S 2CDX200/30	2.2	G 1 1/2	465	206	44
UD2-S 2CDX200/40	3.0	G 1 1/2	486	218	44
UD2-S 2CDX200/50	3.7	G 1 1/2	486	218	51

MODEL UD2-S 3M

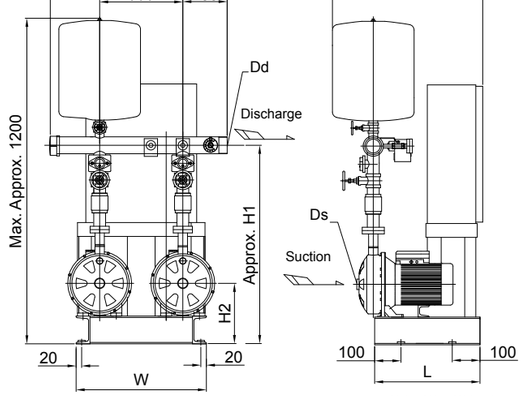


DIMENSION TABLE

Unit : H1 to W (mm)
Weight (kg)

Model	kW	Ds	Dd	H1	H2	L	W	Weight
UD2-S 3M32-160/2.2	2.2	Ø50	R1 1/2	625	232	410	340	48
UD2-S 3M32-200/3.0	3.0	Ø50	R1 1/2	675	260	410	340	57
UD2-S 3M32-200/4.0	4.0	Ø50	R1 1/2	675	260	410	340	63
UD2-S 3M32-200/5.5	5.5	Ø50	R1 1/2	675	260	410	340	72
UD2-S 3M40-160/3.0	3.0	Ø65	R 2	650	232	410	340	57
UD2-S 3M40-160/4.0	4.0	Ø65	R 2	650	232	410	340	64
UD2-S 3M40-200/5.5	5.5	Ø65	R 2	695	260	410	340	77
UD2-S 3M40-200/7.5	7.5	Ø65	R 2	695	260	410	340	89
UD2-S 3M40-200/11	11	Ø65	R 2	695	260	520	350	100

MODEL UD2-D CMA, CDX & 2CDX

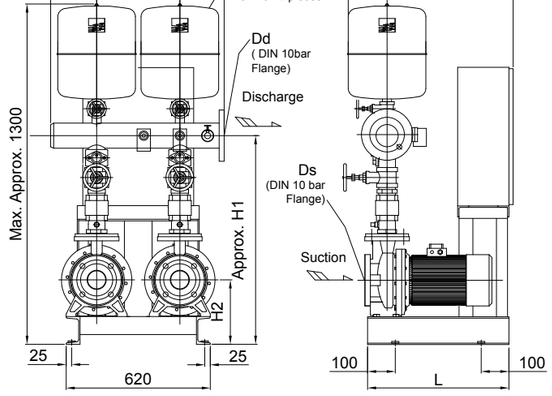


DIMENSION TABLE

Unit : H1 to W (mm)
Weight (kg)

Model	kW	Ds	Dd	H1	H2	L	W	Weight
UD2-D CMA 1.00	0.75	G 1	R 1 1/4	677	197	385	480	59
UD2-D CDX 90/10	0.75	G 1 1/4	R 1 1/4	675	206	430	480	59
UD2-D CDX120/12	0.9	G 1 1/4	R 1 1/2	675	206	430	480	61
UD2-D CDX120/20	1.5	G 1 1/4	R 1 1/2	695	218	430	480	68
UD2-D 2CDX120/15	1.1	G 1 1/4	R 1 1/2	675	206	430	480	66
UD2-D 2CDX120/20	1.5	G 1 1/4	R 1 1/2	675	206	430	480	69
UD2-D 2CDX120/30	2.2	G 1 1/4	R 1 1/2	695	218	430	480	82
UD2-D 2CDX120/40	3.0	G 1 1/4	R 1 1/2	695	218	430	480	88
UD2-D CDX200/20	1.5	G 1 1/2	R 2	675	206	430	480	65
UD2-D CDX200/25	1.8	G 1 1/2	R 2	695	218	430	480	70
UD2-D 2CDX200/30	2.2	G 1 1/2	R 2	675	206	430	480	86
UD2-D 2CDX200/40	3.0	G 1 1/2	R 2	695	218	430	480	86
UD2-D 2CDX200/50	3.7	G 1 1/2	R 2	695	218	430	510	102

MODEL UD2-D 3M



DIMENSION TABLE

Unit : H1 to L (mm)
Weight (kg)

Model	kW	Ds	Dd	H1	H2	L	Weight
UD2-D 3M32-160/2.2	2.2	Ø50	Ø65	755	232	520	106
UD2-D 3M32-200/3.0	3.0	Ø50	Ø65	805	260	520	119
UD2-D 3M32-200/4.0	4.0	Ø50	Ø65	805	260	520	132
UD2-D 3M32-200/5.5	5.5	Ø50	Ø65	805	260	560	150
UD2-D 3M40-160/3.0	3.0	Ø65	Ø80	800	232	520	111
UD2-D 3M40-160/4.0	4.0	Ø65	Ø80	800	232	520	125
UD2-D 3M40-200/5.5	5.5	Ø65	Ø80	850	260	560	152
UD2-D 3M40-200/7.5	7.5	Ø65	Ø80	850	260	560	175
UD2-D 3M40-200/11	11	Ø65	Ø80	850	260	650	198

Note : (1) kW is shown output per 1 pump.
(2) All specifications subject to prior notice.

EBARA

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EBARA CONSTANT SPEED PRESSURE BOOSTER UNIT

MODEL UD2

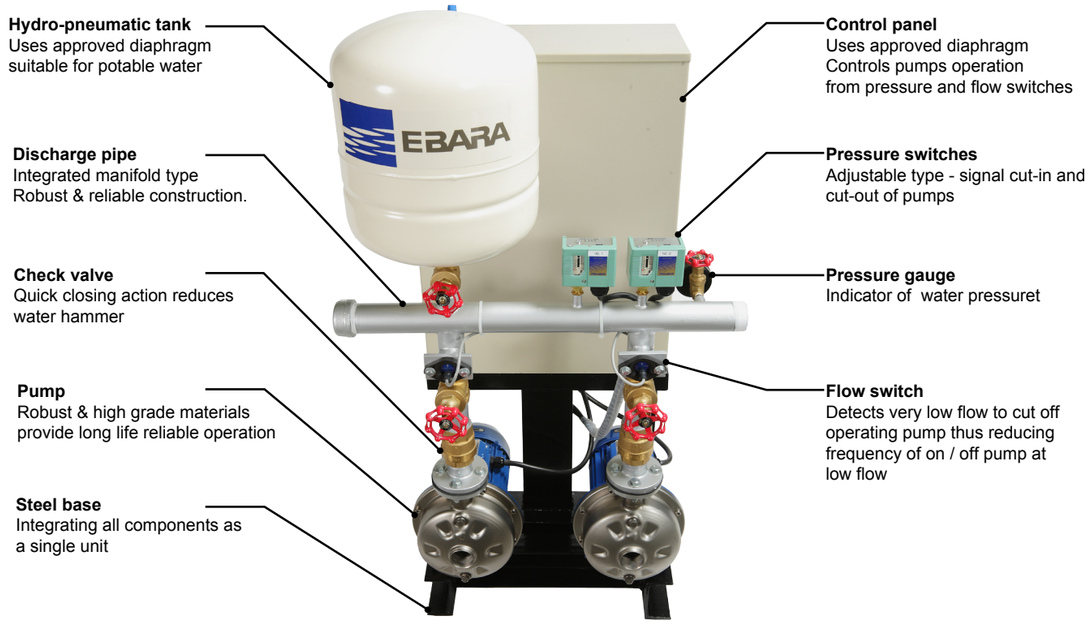
NORMAL PRESSURE BOOSTER UNIT
MODEL UD2

■ APPLICATIONS

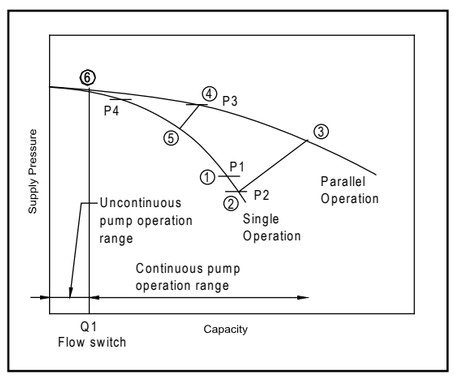
1. Domestic : High-rise buildings, Condominiums, Apartments etc.
2. Commercial : Office buildings, Hotels, Shopping centres etc.
3. Industrial : High-rise factories, Manufacturing & processing industries applications etc.
4. Social service : Schools, Hospitals etc.

■ FEATURES

1. *All components are integrated* on a rugged steel base. It is *ready for use* by only connecting with supply piping and to the power source.
2. Layout is *very compact* and *much lighter* than conventional units. It occupies *lesser space* and requires *easier installation* than conventional units.
3. The flow control system which *prevents frequent start and stop* of pumps, requires only small hydro-pneumatic pressure tank and ensures *constant fresh water supply*.
4. Pumps are in parallel operation for high demand and alternating in low demand, suitable for *energy saving*.(Model UD2-D)
5. *Various options are available* on request.



CONTROL SYSTEM



Step 1) Both pumps are stopped when water tank is fully charged. In this condition water is supplied from the pressure tank, and water pressure in tank gradually decreases.

Step 2) No.1 pump starts at pressure P1 (Point ①) and water is Supplied from pump (and pressure tank)

Step 3) When more water is required and water pressure decreases to P2(Point ②), No.2 pump also starts, operation point shifts to Point ③ and system shifts to parallel operation

Step 4) When water consumption decreases, water pressure in tank increases and when pressure reaches P3 (Point ④), No.2 pump is stopped and operation point shifts to point ⑤.

Step 5) When water consumption further decreases, water pressure in tank increases and pressure switch is turned off, and the flow switch used to detect small flow, is turned off. When both pressure and flow switches are off, No.1 pump stops (Point ⑥). Flow switch setting point is at small capacity point, therefore pump continuous operation range is much wider. Accordingly pump start frequency is greatly decreased.

NORMAL PRESSURE BOOSTER UNIT
MODEL UD2

■ SPECIFICATIONS

STANDARD

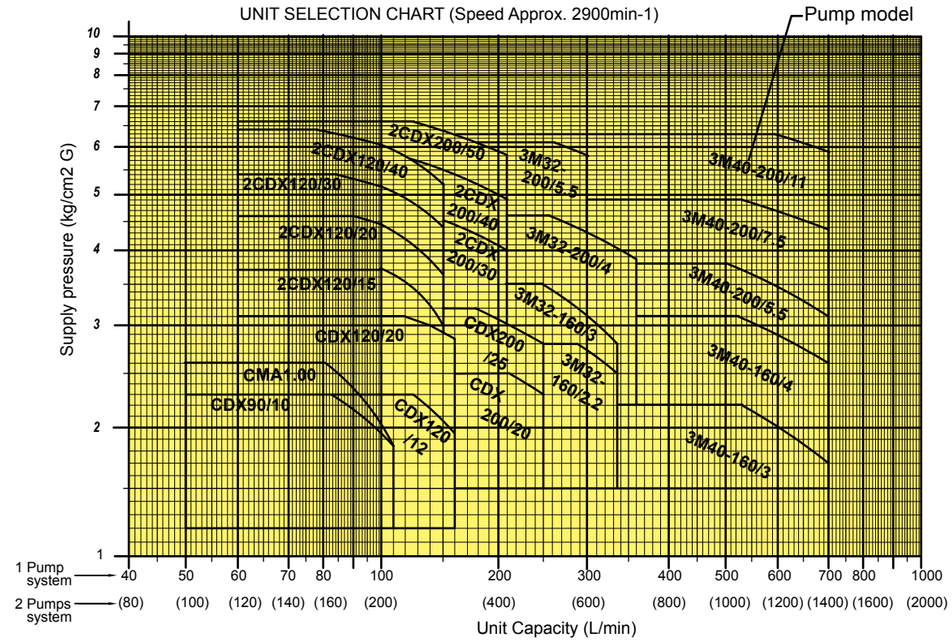
Model		UD2-S	UD2-D
Liquid handled property		Fresh water, 0-40 dgree C	
Installation		Indoor	
Operation system	Pump speed	Constant	
	Control	Controlled with pressure switch & flow switch*	
Power source		AC, Three phase, 50Hz, 380V	
Max. working pressure		6 to 10 barG (refer to model)	
Allowabale suction pressure		Min. : -0.3bar, Max.: Refer to model	
Pump operation No.		1	2
Pump model		CDX, 2CDX & 3M	CMA,CDX, 2CDX & 3M
Control panel	Starting method	DOL(Up to 5.5kW) or Star-Delta(5.5 to 11kW)	
	Construction	Dust proof type	
	Operation key	Push button & selector switch type	Touch panel key type
Pressure tank	Construction	Air precharged diaphragm type	
	Capacity	Refer to model	
Accessories		Control panel & support, Pressure switch, Flow switch*, Pressure tank Pressure gauge, Common base, Piping & valves, Electrical wiring	

OPTION

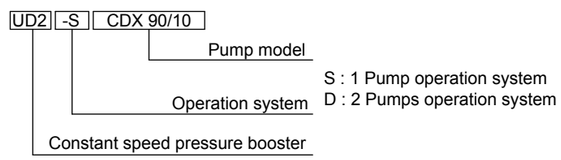
Pump model	Other models
Pressure tank	Large capacity
Installation	Outdoor
Others	On request

Note) * In case of pump model CDX90/10 & CMA, flow switch is not provided.

■ SELECTION CHART AND MODEL CODE



Pressure Booster Unit Model Code



Note : Models for pump CMA1.00 & CDX 90/10 are UD2-D (2 Pumps operation system)only.