

50HZ



Product Features

1. The UP(UB) is a complete, all-in-one booster pump set, consisted of duplex pumps, pressure tank, pipe, inverter panel, and baseplate.
2. Constant water pressure for all fixture outlets. Pressure setting is adjustable according to construction sites.
3. No water hammer, soft start/shut-off extend pump life.
4. Low noise and smooth operation. Inverter function, the system will change motor speed automatically, according to demand of capacity. It can save energy resources (electricity cost).
5. Appropriate diaphragm pressure tank size to match types of water pumps, quantities of inverter, and operation approach.
6. Dry-running shutdown protection for extending pump life.
7. Overhead water storage tank is not essential for UP(UB) pump system, easy to install, reduce the cost of maintenance.
8. Alternative and Parallel operations to reduce pump size and cheaper operating cost.

Pressure Tank Selections

Diaphragm pressure tanks



Applications

1. Auto boost water pressure for IC Manufacture industries, industrial pressure boosting systems.
2. Auto boost water pressure for hotels, apartments, factories, hospitals, schools, parks, gymnasiums, shopping malls, villas, railway stations, airports, military camps, expo center, buildings.

Operating Conditions

1. Ambient Temperature: 0~50°C.
2. Liquid Temperature: 0~60°C.
(If transfer liquid temperature is over 60°C, We strongly recommend the pump needs to be changed into heat-resistant mechanical seal and bearing).
3. Transfer clean or potable water or no corrosive chemicals liquids without abrasives.
4. Working pressure: Max. 5~20bar (Depending on pump types).

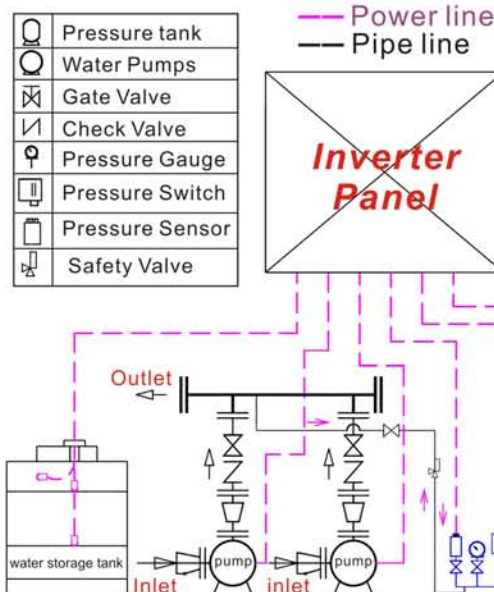


Delta Inverter (VFD)



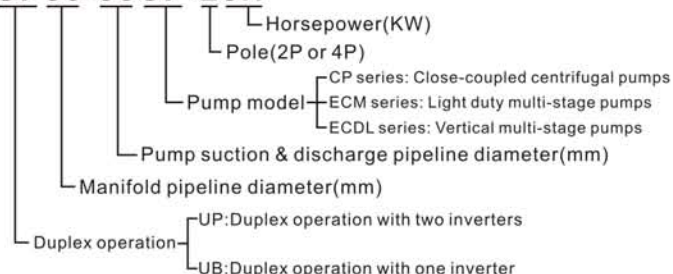
Human machine Interface (OPTIONAL)

System Diagram



Model Code

UP80-50CP-23.7



▲ Duplex operation inverter control panel Introduction

50HZ

Standard Panel

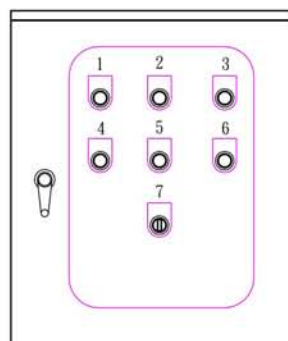
● Panel Outline



Standard Inverter pump panel



Dual gates Inverter pump panel



NO.	Name
1	No.1 running(Red)
2	Power(White)
3	No.2 running(Red)
4	No.1 failure(Yellow)
5	No.1 Auto/Stop/Man.
6	No. 2 failure
7	No.2 Auto/Stop/Man.

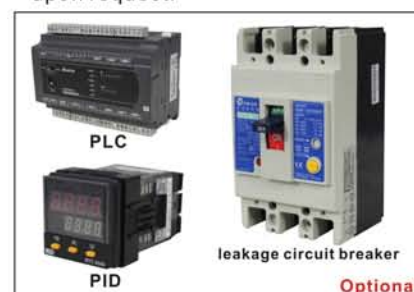
● Inside configuration



NO.	Name
1	Inverter
2	Fan
3	No fuse breaker
4	Fuse
5	Transformer
6	Double timer relay
7	Timer relay
8	Auxiliary relay
9	Terminal block
10	Ground wire base

Remarks:

- Standard type: Single gate, outdoor type panel. The panel casing is made of SS400.
- Stainless steel SUS304 panel casing, dual gates panel are available upon customer's request.
- Earth leakage circuit breaker, PID controller and PLC are optional upon request.



Human machine interface inverter Panel

● Panel outline



● Inside configuration



NO.	Name
1	Fan
2	Inverter
3	PLC
4	Terminal block
5	Auxiliary relay
6	Fuse
7	Magnetic switch
8	Switch
9	Ground wire base
10	Transformer
11	No fuse breaker
12	H.M.I.

● Remarks:

Standard type: Dual gates, outdoor type panel. The panel casing is made of SS400. Stainless steel SUS304 panel casing is available upon request.

Pump Selections

ECM-series Light duty Multi-stage Centrifugal Pump



Low operation noise, less power consumption, stainless steel pump construction, multi-stage impellers design, compact for saving space.
Output(HP): 0.5~4HP
Frequency/Pole: 50HZ /2P
Head(M): Max. 73M
Std. Capacity ranges: 2~24M³/hr
Inverter pressure setting: 1.5~4.5 bar.
Pump inlet/outlet: 1"~1.5"
Interflow piping dia.: 2"~3"

CP-series Close-coupled Centrifugal Pump



Low operation noise, close-coupled design saves space and minimize fluctuation. Optimal performance and diverse pump material choice.
Output(HP): 0.5~20HP
Frequency/Pole: 50HZ /2P
Head(M): Max. 58M
Std. Capacity ranges: 5~84M³/hr
Inverter pressure setting: 1.0~5.0 bar.
Pump inlet/outlet: 1"~3"
Interflow piping dia.: 2"~6"

ECDL-series Vertical Multi-stage Centrifugal Pump



Low operation noise, vertical design is for space saving and easy maintenance. Main pump components and impellers are made of stainless steel SUS304.
Output(HP): 0.5~20HP
Frequency/Pole: 50HZ /2P
Head(M): Max. 130M
Std. Capacity ranges: 2~64M³/hr
Inverter pressure setting: 2.0~9.0 bar.
Pump inlet/outlet: 1 1/4"~3"
Interflow piping dia.: 2"~4"

CPS-series Stainless Steel Close-coupled Centrifugal Pump



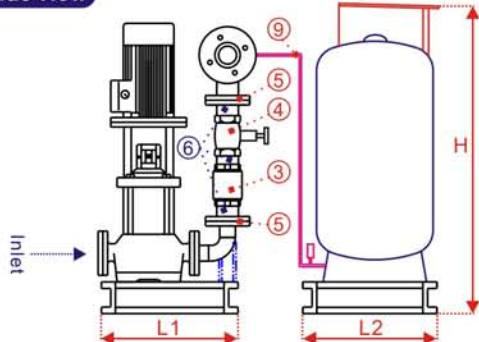
Low operation noise, close-coupled design is for space saving and minimizes fluctuation. Pump construction and impeller are made of stainless steel SUS304 or SUS316.
Output(HP): 0.5~20HP
Frequency/Pole: 50HZ /2P
Head(M): Max. 58M
Std. Capacity ranges: 5~84M³/hr
Inverter pressure setting: 1.0~5.0 bar.
Pump inlet/outlet: 1"~3"
Interflow piping dia.: 2"~6"

Special pump type, above 20HP motor specification and performance requirement are available upon request.

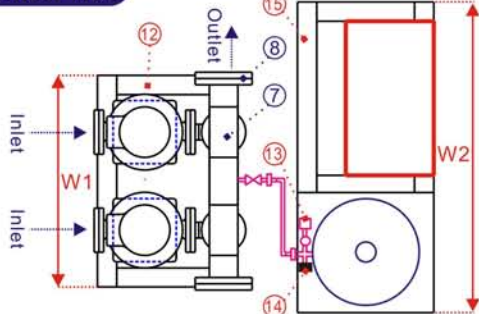
Construction

UP(UB)-ECDL SERIES

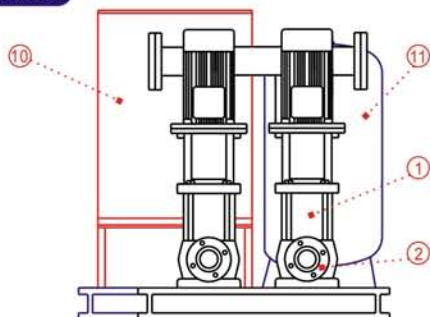
Side view



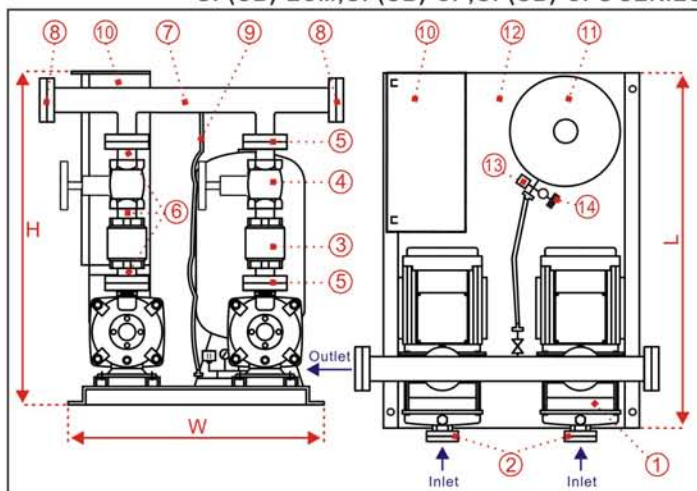
Vertical view



Front view



UP(UB)-ECM;UP(UB)-CP;UP(UB)-CPS SERIES



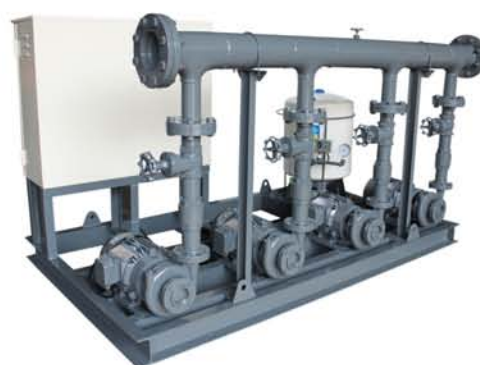
NO.	Name	Std. Material	Sub. Material
1	main pumps	ECDL: SUS304 ECM: SUS304	CP: FC200 CPS: SUS304
2	inlet flanges	SS400	SUS304
3	check valve	BC	SUS304
4	gate valve	BC	SUS304
5	outlet flanges	SS400	SUS304
6	outlet pipe	SS400	SUS304
7	manifold pipe	SS400	SUS304
8	manifold flanges	SS400	SUS304
9	high pressure hose	Rubber	SUS304
10	control panel	SS400	SUS304
11	pressure tank	SS400	SUS304
12	baseplate	SS400	SUS304
13	pressure switch	-----	-----
14	pressure transmitter	SUS304	-----
15	baseplate for panel	SS400	SUS304

UP(UB)-CP SERIES & UP(UB)-CPS SERIES

50HZ



Optional: triplex or quadruple pumps operation



Specifications

(2P;2900rpm)

MODEL	Output (P2)		Pump Inlet/ outlet	Manifold pipeline dia.	Pressure setting	Rated Capacity		Max. head	Pressure tank size	Dimensions (unit:mm) (Refer to page.3)			Around Weight
	KW	HP				single pump running	dual pumps running			L	W	H	
UP(UB)40-25CP-2.4	0.37	0.5	1"	1.5"	1.0~1.3	5~3	10~6	15	20(60)	930	910	920	125
UP(UB)50-40CP-2.75	0.75	1	1.5"	2"	1.0~1.3	12~8	24~16	16	20(60)	930	910	920	135
UP(UB)50(65)-50CP-21.5	1.5	2	2"	2"(2.5")	1.2~1.5	21~15	42~30	17	20(60)	930	910	940	168
UP(UB)65(80)-50CP-22.2	2.2	3	2"	2.5"(3")	1.8~2.2	24~15	48~30	26	20(60)	930	910	940	188
UP(UB)80(100)-80CP-22.2	2.2	3	3"	3"(4")	1.0~1.3	30~23	60~42	15	20(60)	930	910	940	198
UP(UB)80(100)-80CP-23.7H	3.7	5	3"	3"(4")	1.8~2.1	28~24	56~48	29	20(60)	1060	900	1150	245
UP(UB)80(100)-80CP-23.7	3.7	5	3"	3"(4")	1.3~1.6	33~23	66~46	19.5	20(60)	1060	900	1150	263
UP(UB)80(100)-80CP-25.5	5.5	7.5	3"	3"(4")	1.9~2.3	33~24	66~48	26.5	60	1200	1060	1180	318
UP(UB)80(100)-80CP-27.5	7.5	10	3"	3"(4")	2.8~3.5	33~27	66~54	45	60	1200	1060	1320	365
UP(UB)80(100)-80CP-211	11	15	3"	3"(4")	4.0~5.0	39~30	78~60	55	60	1200	1060	1320	460
UP(UB)80(100)-80CP-215	15	20	3"	3"(4")	4.7~5.4	39~30	78~60	58	60	1200	1060	1420	510
UP(UB)40-25CPS-2.4	0.37	0.5	1"	1.5"	1.0~1.3	5~3	10~6	15	20(60)	930	910	920	125
UP(UB)50-40CPS-2.75	0.75	1	1.5"	2"	1.0~1.3	12~8	24~16	16	20(60)	930	910	920	135
UP(UB)50(65)-50CPS-21.5	1.5	2	2"	2"(2.5")	1.2~1.5	21~15	42~30	17	20(60)	930	910	940	168
UP(UB)65(80)-50CPS-22.2	2.2	3	2"	2.5"(3")	1.8~2.2	24~15	48~30	26	20(60)	930	910	940	188
UP(UB)80(100)-80CPS-22.2	2.2	3	3"	3"(4")	1.0~1.3	30~23	60~42	15	20(60)	930	910	940	198
UP(UB)65(80)-50CPS-23.7	3.7	5	2"	2.5"(3")	2.1~2.6	24~15	48~30	29.5	20(60)	1060	900	1150	245
UP(UB)80(100)-80CPS-23.7	3.7	5	3"	3"(4")	1.3~1.6	33~23	66~46	19.5	20(60)	1060	900	1150	263
UP(UB)80(100)-80CPS-25.5	5.5	7.5	3"	3"(4")	1.9~2.3	33~24	66~48	26.5	60	1200	1060	1180	318
UP(UB)80(100)-80CPS-27.5	7.5	10	3"	3"(4")	2.8~3.5	33~27	66~54	45	60	1200	1060	1320	365
UP(UB)80(100)-80CPS-211	11	15	3"	3"(4")	4.0~5.0	39~30	78~60	55	60	1200	1060	1320	460
UP(UB)80(100)-80CPS-215	15	20	3"	3"(4")	4.7~5.4	39~30	78~60	58	60	1200	1060	1420	510

Remarks: ● UP: Duplex operation with two inverters ; (UB): Duplex operation with one inverter.

● CP: Cast iron close-coupled centrifugal pump ; CPS: Stainless steel close-coupled centrifugal pump.

● Over 20HP specifications or multi-pumps operation system are available upon request.

UP(UB)-ECM SERIES

50HZ



Optional: Pump system with two pressure tanks



Specifications

(2P;2900rpm)

MODEL	Output (P2)		Pump Inlet/ outlet	Manifold pipeline dia.	Pressure setting	Rated Capacity		Max. head	Pressure tank size	Dimensions (unit:mm) (Refer to page.3)			Around Weight
	KW	HP				single pump running	dual pumps running			L	W	H	
UP(UB)40-25ECM2-30-2.4	0.37	0.5	1"	1.5"	1.7~2.1	3~2	6~4	28	20	930	910	970	123
UP(UB)40-25ECM2-40-2.55	0.55	0.75	1"	1.5"	2.3~2.8	3~2	6~4	38	20	930	910	970	123
UP(UB)40-25ECM2-50-2.55	0.55	0.75	1"	1.5"	2.8~3.5	3~2	6~4	48	20	930	910	970	123
UP(UB)40-25ECM2-60-2.75	0.75	1	1"	1.5"	3.2~4.2	3~2	6~4	56	20	930	910	970	125
UP(UB)40(50)-25ECM4-30-2.75	0.75	1	1"	1.5"(2")	1.5~2.2	6~4	12~8	29	20	930	910	970	124
UP(UB)40(50)-25ECM4-40-2.75	0.75	1	1"	1.5"(2")	2.0~3.0	6~4	12~8	38	20	930	910	970	124
UP(UB)40(50)-25ECM4-50-2.1	1.0	1.35	1"	1.5"(2")	2.6~3.8	6~4	12~8	47	20	930	910	970	124
UP(UB)40(50)-25ECM4-60-2.1.1	1.1	1.5	1"	1.5"(2")	3.3~4.5	6~4	12~8	56	20	930	910	970	130
UP(UB)50(65)-40ECM8-15-2.75	0.75	1	1.5"	2"(2.5")	1.2~1.7	10~8	20~16	28	20(60)	930	910	970	142
UP(UB)50(65)-40ECM8-20-2.1	1.0	1.35	1.5"	2"(2.5")	1.6~2.0	10~8	20~16	34	20(60)	930	910	970	148
UP(UB)50(65)-40ECM8-25-2.1.5	1.5	2	1.5"	2"(2.5")	2.0~2.7	10~8	20~16	46	20(60)	930	910	970	158
UP(UB)50(65)-40ECM8-30-2.1.8	1.85	2.5	1.5"	2"(2.5")	2.4~3.0	10~8	20~16	49	20(60)	930	910	970	172
UP(UB)50(65)-40ECM8-35-2.2.2	2.2	3	1.5"	2"(2.5")	2.8~3.7	10~8	20~16	62	20(60)	1060	900	970	180
UP(UB)50(65)-40ECM8-40-2.2.2	2.2	3	1.5"	2"(2.5")	3.4~4.5	10~8	20~16	72	20(60)	1060	900	970	182
UP(UB)50(65)-40ECM12-15-2.1.5	1.5	2	1.5"	2"(2.5")	1.5~2.0	14~12	28~24	31	20(60)	930	910	970	150
UP(UB)50(65)-40ECM12-20-2.1.8	1.85	2.5	1.5"	2"(2.5")	2.0~2.8	14~12	28~24	40	20(60)	930	910	970	170
UP(UB)50(65)-40ECM12-25-2.2.2	2.2	3	1.5"	2"(2.5")	2.7~3.3	14~12	28~24	51	20(60)	1060	900	970	180
UP(UB)50(65)-40ECM12-30T-2.3	3	4	1.5"	2"(2.5")	3.0~3.9	14~12	28~24	58	20(60)	1060	900	1020	192

Remarks: ● UP: Duplex operation with two inverters ; (UB): Duplex operation with one inverter.

● Customized design is available upon special request.

UP(UB)-ECDL SERIES

50HZ

Optional: triplex or quadruple pumps operation



Specifications

(2P:2900rpm)

MODEL	Output (P2)		Pump Inlet/ outlet	Manifold pipeline dia.	Pressure setting	Rated Capacity		Max. head	Pressure tank size	Dimensions (unit:cm) (Refer to page.3)					Around Weight
						single pump running	dual pump running			L1	L2	W1	W2	H	
UP(UB)40(50)-32ECDL4-4-2.75	0.75	1	11/4"	1.5"(2")	2.4~3.0	6~4	12~8	39	20	50	50	60	118	70	280
UP(UB)40(50)-32ECDL4-5-21.1	1.1	1.5	11/4"	1.5"(2")	3.0~3.8	6~4	12~8	51	20	50	50	60	118	70	285
UP(UB)40(50)-32ECDL4-6-21.1	1.1	1.5	11/4"	1.5"(2")	3.7~4.6	6~4	12~8	60	20	50	50	60	118	70	289
UP(UB)40(50)-32ECDL4-8-21.5	1.5	2	11/4"	1.5"(2")	4.8~6.0	6~4	12~8	80	20	50	50	60	118	70	300
UP(UB)40(50)-32ECDL4-10-22.2	2.2	3	11/4"	1.5"(2")	6.0~7.6	6~4	12~8	101	20	50	50	60	118	70	315
UP(UB)40(50)-32ECDL4-12-22.2	2.2	3	11/4"	1.5"(2")	7.5~9.2	6~4	12~8	121	20	50	50	60	118	70	315
UP(UB)50(65)-40ECDL8-2-2.75	0.75	1	1.5"	2"(2.5")	1.3~1.7	12~8	24~16	21	20	50	50	60	118	75	314
UP(UB)50(65)-40ECDL8-3-21.1	1.1	1.5	1.5"	2"(2.5")	2.0~2.6	12~8	24~16	31	20	50	50	60	118	75	325
UP(UB)50(65)-40ECDL8-4-21.5	1.5	2	1.5"	2"(2.5")	2.6~3.5	12~8	24~16	41	20	50	50	60	118	75	340
UP(UB)50(65)-40ECDL8-5-22.2	2.2	3	1.5"	2"(2.5")	3.3~4.4	12~8	24~16	52	20	50	50	60	118	80	357
UP(UB)50(65)-40ECDL8-7-23	3.0	4	1.5"	2"(2.5")	4.6~6.2	12~8	24~16	72	20	50	50	60	118	80	372
UP(UB)50(65)-40ECDL8-9-23	3.0	4	1.5"	2"(2.5")	6.0~8.0	12~8	24~16	92	20	50	50	60	118	80	376
UP(UB)50(65)-40ECDL8-12-24	4.0	5.5	1.5"	2"(2.5")	8.0~9.6	12~10	24~20	122	60	50	50	60	118	90	388
UP(UB)65(80)-65ECDL16-2-22.2	2.2	3	2.5"	2.5"(3")	1.8~2.2	20~15	40~30	28	60	50	50	60	118	90	365
UP(UB)65(80)-65ECDL16-3-23	3.0	4	2.5"	2.5"(3")	2.7~3.3	20~15	40~30	40	60	50	50	60	118	90	375
UP(UB)65(80)-65ECDL16-4-24	4.0	5.5	2.5"	2.5"(3")	3.6~4.4	20~15	40~30	53	60	50	50	60	118	90	390
UP(UB)65(80)-65ECDL16-5-24	4.0	5.5	2.5"	2.5"(3")	4.5~5.5	20~15	40~30	66	60	50	50	60	118	90	396
UP(UB)65(80)-65ECDL16-6-25.5	5.5	7.5	2.5"	2.5"(3")	5.4~6.3	20~16	40~32	79	60	60	50	90	128	110	466
UP(UB)65(80)-65ECDL16-7-25.5	5.5	7.5	2.5"	2.5"(3")	6.3~7.3	20~16	40~32	92	60	60	50	90	128	110	472
UP(UB)65(80)-65ECDL16-8-27.5	7.5	10	2.5"	2.5"(3")	7.2~8.4	20~16	40~32	106	60	60	50	90	128	110	485
UP(UB)65(80)-65ECDL16-9-27.5	7.5	10	2.5"	2.5"(3")	8.1~9.4	20~16	40~32	118	60	60	50	90	128	110	487
UP(UB)65(80)-65ECDL16-10-211	11	15	2.5"	2.5"(3")	9.0~10	20~18	40~36	132	60	70	50	108	128	135	572
UP(UB)80(100)-80ECDL32-2-2-23	3.0	4	3"	3"(4")	1.7~2.0	36~28	72~56	30	60	60	50	60	118	85	435
UP(UB)80(100)-80ECDL32-2-24	4.0	5.5	3"	3"(4")	2.4~3.1	36~28	72~56	40	60	60	50	60	118	85	457
UP(UB)80(100)-80ECDL32-3-25.5	5.5	7.5	3"	3"(4")	3.6~4.4	36~30	72~60	59	60	60	50	90	128	110	500
UP(UB)80(100)-80ECDL32-4-27.5	7.5	10	3"	3"(4")	4.8~5.9	36~30	72~60	78	60	60	50	90	128	110	530
UP(UB)80(100)-80ECDL32-5-211	11	15	3"	3"(4")	6.0~7.4	36~30	72~60	98	60	70	50	108	128	125	645
UP(UB)80(100)-80ECDL32-6-211	11	15	3"	3"(4")	7.2~8.9	36~30	72~60	118	60	70	50	108	128	125	655
UP(UB)80(100)-80ECDL32-7-215	15	20	3"	3"(4")	8.4~9.8	36~32	72~64	138	60	70	50	108	150	135	722
UP(UB)80(100)-80ECDL45-2-2-25.5	5.5	7.5	3"	3"(4")	2.7~3.3	50~40	100~80	41	60	60	50	90	128	110	494
UP(UB)80(100)-80ECDL45-2-27.5	7.5	10	3"	3"(4")	3.5~4.2	50~40	100~80	51	60	60	50	90	128	110	500
UP(UB)80(100)-80ECDL45-3-2-211	11	15	3"	3"(4")	4.4~5.4	50~40	100~80	67	60	70	50	108	128	125	653
UP(UB)80(100)-80ECDL45-3-211	11	15	3"	3"(4")	5.3~6.3	50~40	100~80	79	60	70	50	108	128	125	663
UP(UB)80(100)-80ECDL45-4-215	15	20	3"	3"(4")	7.0~8.4	50~40	100~80	102	60	70	50	108	150	135	680
UP(UB)100(125)-100ECDL64-1-25.5	5.5	7.5	4"	4"(5")	1.7~2.0	70~60	140~120	30	60	70	50	90	128	110	520
UP(UB)100(125)-100ECDL64-2-2-27.5	7.5	10	4"	4"(5")	2.3~2.8	70~60	140~120	41	60	70	50	108	128	110	546
UP(UB)100(125)-100ECDL64-2-1-211	11	15	4"	4"(5")	3.0~3.6	70~60	140~120	51	60	82	50	108	128	125	623
UP(UB)100(125)-100ECDL64-2-211	11	15	4"	4"(5")	3.7~4.2	70~60	140~120	61	60	82	50	108	128	125	623
UP(UB)100(125)-100ECDL64-3-1-215	15	20	4"	4"(5")	4.8~5.6	70~60	140~120	80	60	82	50	108	150	135	710

Remarks: ● UP: Duplex operation with two inverters ; (UB): Duplex operation with one inverter.

● Over 20HP specifications or multi-pumps operation system are available upon request.