Luck V.S.D. pump

Constant Pressure Booster Pump With Variable Speed Drive

Luck Innovation

SINCE 1970

Constant Pressure Booster Pump with Variable Speed Drive

CHES
CHESS

- Modularity
- Easy operation & maintenance
- Good heat dissipation
- Space saving
- Temperature range from 0℃ to 90℃
- Low acoustic noise-52 dBA only
- Protection IP:54
- CHESS All 304 stainless

水井牌
Luck
Luckpump

LUCK MACHINERY CO., LTD

No. 28, Lane 269, Sec. 3, Roosevelt Rd., Taipei,Taiwan, R.O.C.
TEL: 886-2-23654026 FAX: 886-2-23671928
E-mail:luckpump@ms45.hinet.net
Http://www .shluckpump.com

ISO 9001 環保產品

CHINA PATENT No. 1182318
U.S. PATENT No. 5941690

FUNCTION

The controller senses the pressure change in the water supply piping through the signals detectd by pressure transmitter, and compares with the preset pressure ; then the controller will send continuous signals (DC 0-10V) to inverter, for adjusting its frequency (0-60Hz) accordingly. The Motor speed varies according to the frequency converted thus maintaining the set pressure.

OPERATION MANNAL

CONSTANT PRESSURE CONTROOLER

SPECIFICATIONS

- Adjustable Pressure Setting :
  A wide range 25 turns of pressure settings is available through the use of the Luck Control System. The desired pressure is easily established by means of a " set screw " ; clock-wise increases pressure, counter clock-wise decreases the pressure.
- CPU maintains and compensates the pressure.

FEATURES

- WATER IN NORMAL USE,
  The controller will start the motor at 90% of pre-set pressure in order to boost/maintain the desired pressure.
- MOTOR STOP MODE,
  When the water tap is turned off, the Green Indicator Light turns on, showing the controller is in the " MOTOR STOP " mode, if the mode lasts 20 seconds the motor will stop auto-matically.
- LEAKAGE DETECTION,
  The Controller continuously monitors water pressure and if pressure in under 80% of the pre-set level (due to leaks), it will start the pump to compensate for pressure.
- NO WATER AND LOST PRESSURE PROTECTION
  When the motor is at full soeed and cannot achieve at least 60% of the pre-set pressure, then there is either (a) no incoming water supply or (b) the impeller has failed. The Red indicator light illuminates and, after 20 seconds, the motor will automatically stop. Turn off the electricity, solve the problem and restart after 2 minutes.

INTERFACE CONTROLLER

FEATURES

- With DC 24V inter power supply controller.
- One input, two outputs for inverter to control variable motor soeed.
- Automatically monitors the water pressure, enables the pump sustem to operate alternatively and parallelly, the Controller always starts the primary pump. Then, after 60 seconds, if the primary pump is not sufficient to reach the pre-set pressure level, the secondary pump is brought on-line by the controller. (This process continues depending upon the number of pumps in the system.)
- When water consumption is reduced, the controller will instruct the motor to decrease motor soeed or bring the secondary pump off-line.
- If any pump failed, will alter to other pump automatically.
- The designated Primary pump is altered every 4 hours by the controller, THat is, the secondary pump becomes the designated primary pump, and so on ; therefore reducing individual motor use and extending motor life.
- Constant pressure in the piping, Quiet running smooth speed changing, No water hammer.

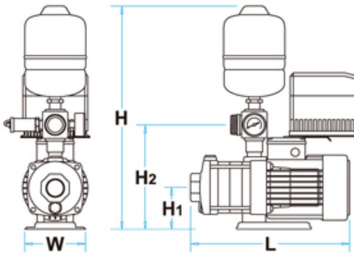
BENEFITS :

- Space saving :
  Use vertical multi-stage pumps, small pressure tank.
- Simple wiring, [erfect production functions :
  One pump one inverter, soft start, soft stop, over-load, over-heat, high/loe voltage, reverse rotation, sudden power off...etc. protection.
- Ideal control box construction :
  Dust free, no ventilation fan, energe saving.
- Single chip, single point, single part control :
  Minimize the defect possibility, easy maintainance.

SPECIFICATIONS

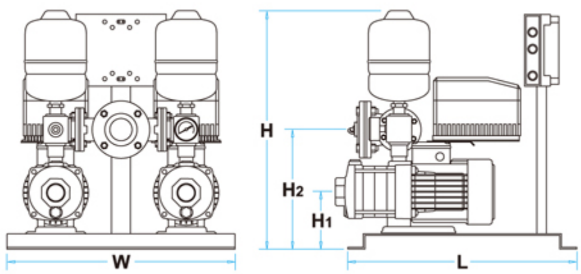
1.QUANTITY:_______ m^3/H
2.SET PRESSURE:_______ KG/Cm^2
3.OPERATION MODE:
4.PUMP MOTOR:_______ HP/KW
5.VOLTAGE:_______3ϕ220V 380V
6.SUCTION:_______mm
DISCHARGE:_______mm
7.MAIN PIPING DIA.:_______mm

ONE PUMP



機　　型	馬達出力 kw / p1	額定水量 m^3/H	額定揚程 M	建議恆壓設定值 kg/cm^2	吸入口徑 inch	出水口徑 inch	尺　寸 (mm)				
							L	W	H	H 1	H 2
CHES 2-30	0.75	3.0	27	0.5~3	1	1	356	200	450	90	215
CHES 2-40	0.95	3.0	36	0.5~3.8	1	1	414	200	450	90	215
CHES 2-50	1.15	3.0	45	0.5~4.8	1	1	432	200	450	90	215
CHES 2-60	1.35	3.0	55	0.5~5.8	1	1	450	200	450	90	215
CHES 4-20	0.95	6.0	17	0.5~2.0	1-1/4	1	348	200	450	90	215
CHES 4-30	1.35	6.0	26	0.5~2.8	1-1/4	1	416	200	450	90	215
CHES 4-40	1.75	6.0	35	0.5~3.8	1-1/4	1	444	200	450	90	215
CHES 4-50	2.15	6.0	43	0.5~4.5	1-1/4	1	444	200	450	90	215
CHES 4-60	2.55	6.0	55	0.5~5.8	1-1/4	1	444	200	450	90	215
CHES 8-20	1.35	9.0	20	0.5~2.2	1-1/2	1-1/2	345	220	560	110	280
CHES 8-25	1.55	9.0	26	0.5~2.8	1-1/2	1-1/2	415	220	560	110	280
CHES 8-30	1.85	9.0	32	0.5~3.5	1-1/2	1-1/2	415	220	560	110	280
CHES 8-40	2.65	9.0	37	0.5~4.0	1-1/2	1-1/2	450	220	560	110	280
CHES 8-50	3.5	9.0	48	0.5~5.0	1-1/2	1-1/2	450	220	560	110	280
CHES 8-60	4.0	9.0	55	0.5~5.8	1-1/2	1-1/2	450	220	560	110	280
CHES 12-20	1.85	12.0	24	0.5~2.6	1-1/2	1-1/2	385	220	560	110	280
CHES 12-30	2.6	12.0	34	0.5~3.6	1-1/2	1-1/2	463	220	560	110	280
CHES 12-40	3.85	12.0	44	0.5~4.6	1-1/2	1-1/2	463	220	560	110	280
CHES 12-50	4.5	12.0	52	0.5~5.5	1-1/2	1-1/2	463	220	560	110	280
CHES 12-60	5.5	12.0	62	0.5~6.5	1-1/2	1-1/2	463	220	560	110	280

TWO PUMPS

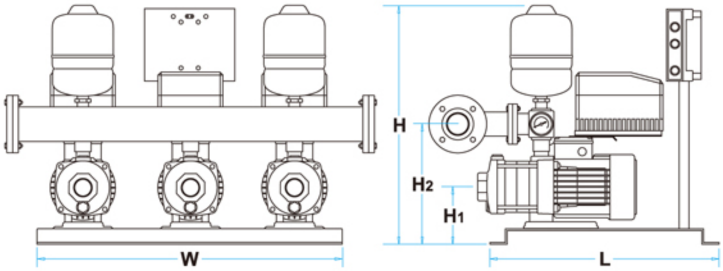


機　　型	馬達出力 kw / p1	額定水量 m^3/H	額定揚程 M	建議恆壓設定值 kg/cm^2	吸入口徑 inch	出水口徑 inch	尺　寸 (mm)				
							L	W	H	H 1	H 2
CHES 2-30-2	0.75×2	6	27	0.5~3.0	1×2	1-1/2	530	590	500	142	267
CHES 2-40-2	0.95×2	6	36	0.5~3.8	1×2	1-1/2	530	590	500	142	267
CHES 2-50-2	1.15×2	6	45	0.5~4.8	1×2	1-1/2	530	590	500	142	267
CHES 2-60-2	1.35×2	6	55	0.5~5.8	1×2	1-1/2	530	590	500	142	267
CHES 4-20-2	0.95×2	12	17	0.5~2.0	1-1/4×2	2	530	590	500	142	267
CHES 4-30-2	1.35×2	12	26	0.5~2.8	1-1/4×2	2	530	590	500	142	267
CHES 4-40-2	1.75×2	12	35	0.5~3.8	1-1/4×2	2	530	590	500	142	267
CHES 4-50-2	2.15×2	12	43	0.5~4.5	1-1/4×2	2	530	590	500	142	267
CHES 4-60-2	2.55×2	12	55	0.5~5.8	1-1/4×2	2	530	590	500	142	267
CHES 8-20-2	1.35×2	18	20	0.5~2.2	1-1/2×2	2	530	590	612	162	332
CHES 8-25-2	1.55×2	18	26	0.5~2.8	1-1/2×2	2	530	590	612	162	332
CHES 8-30-2	1.85×2	18	32	0.5~3.5	1-1/2×2	2	530	590	612	162	332
CHES 8-40-2	2.65×2	18	37	0.5~4.0	1-1/2×2	2	530	590	612	162	332
CHES 8-50-2	3.5×2	18	48	0.5~5.0	1-1/2×2	2	530	590	612	162	332
CHES 8-60-2	4.0×2	18	55	0.5~5.8	1-1/2×2	2	530	590	612	162	332
CHES 12-20-2	1.85×2	24	24	0.5~2.6	1-1/2×2	2-1/2	530	590	612	162	332
CHES 12-30-2	2.60×2	24	34	0.5~3.6	1-1/2×2	2-1/2	530	590	612	162	332
CHES 12-40-2	3.85×2	24	44	0.5~4.6	1-1/2×2	2-1/2	530	590	612	162	332
CHES 12-50-2	4.5×2	24	52	0.5~5.5	1-1/2×2	2-1/2	530	590	612	162	332
CHES 12-60-2	5.5×2	24	62	0.5~6.5	1-1/2×2	2-1/2	530	590	612	162	332

Luck pump V.S.D.

Constant Pressure
Variable Speed Drive
Control SYS.

THREE PUMPS



機　　型	馬達出力 kw/p1	額定水量 m^3/H	額定揚程 M	建議恆壓設定值 kg/cm^2	吸入口徑 inch	出水口徑 inch	尺寸 (mm) L	W	H	H 1	H 2
CHES 2-30-3	0.75×3	9.0	27	0.5~3	1×3	1-1/2	600	850	800	170	320
CHES 2-40-3	0.95×3	9.0	36	0.5~3.8	1×3	1-1/2	600	850	800	170	320
CHES 2-50-3	1.15×3	9.0	45	0.5~4.8	1×3	1-1/2	600	850	800	170	320
CHES 2-60-3	1.35×3	9.0	55	0.5~5.8	1×3	1-1/2	600	850	800	170	320
CHES 4-20-3	0.95×3	8.0	17	0.5~2.0	1-1/4×3	2	600	850	800	170	320
CHES 4-30-3	1.35×3	18.0	26	0.5~2.8	1-1/4×3	2	600	850	800	170	320
CHES 4-40-3	1.75×3	18.0	35	0.5~3.0	1-1/4×3	2	600	850	800	170	320
CHES 4-50-3	2.15×3	18.0	43	0.5~4.5	1-1/4×3	2	600	850	800	170	320
CHES 4-60-3	2.55×3	18.0	55	0.5~5.8	1-1/4×3	2	600	850	800	170	320
CHES 8-20-3	1.35×3	27.0	20	0.5~2.2	1-1/2×3	2-1/2	600	850	800	190	380
CHES 8-25-3	1.55×3	27.0	26	0.5~2.8	1-1/2×3	2-1/2	600	850	800	190	380
CHES 8-30-3	1.85×3	27.0	32	0.5~3.5	1-1/2×3	2-1/2	600	850	800	190	380
CHES 8-40-3	2.65×3	27.0	37	0.5~4.0	1-1/2×3	2-1/2	600	850	800	190	380
CHES 8-50-3	3.5×3	27.0	48	0.5~5.0	1-1/2×3	2-1/2	600	850	800	190	380
CHES 8-60-3	4.0×3	27.0	55	0.5~5.8	1-1/2×3	2-1/2	600	850	800	190	380
CHES 12-20-3	1.85×3	36.0	24	0.5~2.6	1-1/2×3	3	600	850	800	190	380
CHES 12-30-3	2.6×3	36.0	34	0.5~3.6	1-1/2×3	3	600	850	800	190	380
CHES 12-40-3	3.85×3	36.0	44	0.5~4.6	1-1/2×3	3	600	850	800	190	380
CHES 12-50-3	4.5×3	36.0	52	0.5~5.5	1-1/2×3	3	600	850	800	190	380
CHES 12-60-3	5.5×3	36.0	62	0.5~6.5	1-1/2×3	3	600	850	800	190	380

PERFORMANCE

CHESS