



SUPERPOWER PUMP

Luckpump ^{V.S.D.}

**Constant Pressure Booster Pump
with Variable Speed Drive
CHESS Series**

Pumps Catalogue



40th
Anniversary

Superpower Pumping Engineering, established in 1977, engages mainly in water pumping design, manufacturing, installation and maintenance businesses. Having existed in the industry for over 30 years, Superpower is known to be the first company in Hong Kong that connected water pump designing, manufacturing, production, installation, maintenance and 24 hours emergency services.

Aiming to pursue high quality products and services to its valuable customers, and with the support from its parent company, Superpower invests substantial resources in product design, research and enhancement, human resources and business development. Such move will help satisfying customers' needs and ensuring the operation of water supply runs smoothly and will not be affected by external interruption.

Its continued dedication to the industry has enabled Superpower to earn accolades from the trade. In 2001, the award of ISO 9001:2000 certification by SGS, United Kingdom further proved its commitment leads to winning international acclaims and building a solid reputation.

Water pumps is the core product of the Company's manufacturing arm. Today, Superpower's different materials and functional pumps produced for the residential and commercial buildings are ranked as the most popular items in the market. The name of Superpower represents quality water pump and ranks the best selling items in the market.

Today, Superpower employs more than 60 staff overseeing water supply system for over 1000 properties in Hong Kong to provide better after sale services, including luxurious residences, large-scale residential estates, shopping malls, offices, hotels, schools, as well as property management companies. Superpower Pumps installed in Hong Kong including the Benchmark properties such as International Commerce Centre, The Leighton Hill, Manhattan Hill, Dynasty Heights and Grand Promenade.

Apart from the above prestigious buildings, Superpower also serves for some of the prominent property developer as its customers, such as Sun Hung Kai Properties, Henderson Land Development and Sino Land etc.



International Commerce Centre

INTRODUCTION

Luck constant pressure variable speed pump set designated for solving the problem of low incoming water supply pressure. The system comprises of motor, water pump, variable speed drive, pressure vessel, control panel, check valve and pressure sensor. The system is small, quiet, and energy saving. It suits for outdoor installation and is able to regulate water supply.

FUNCTION

The controller senses the pressure change in the water supply piping through the signals detected 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 (0-50Hz) accordingly. The motor speed varies according to the frequency converted thus maintaining the preset pressure.

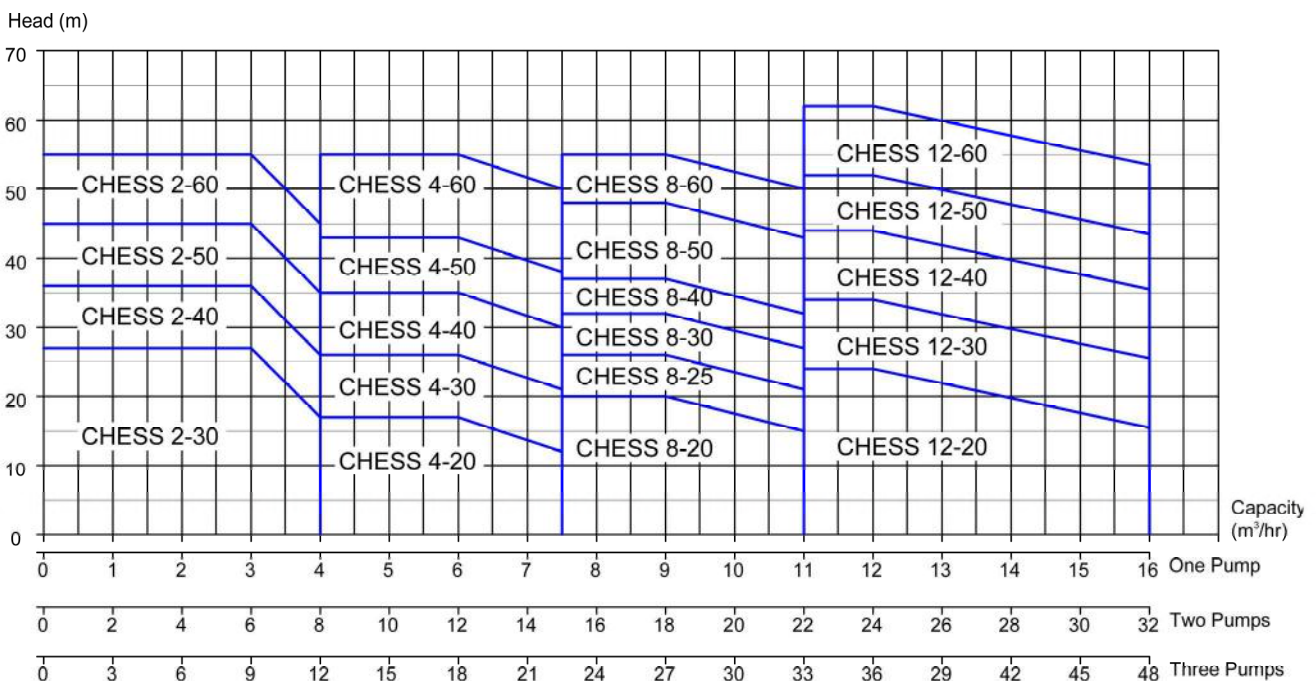
ADVANTAGES

- ✓ Constant pressure, variable speed drive
- ✓ Easy operation & maintenance
- ✓ Adjustable pressure setting
- ✓ Leakage detection and compensation
- ✓ No water & lost pressure protection
- ✓ Saving space
- ✓ Low noise
- ✓ Full stainless steel pump body

OPERATION CONDITIONS

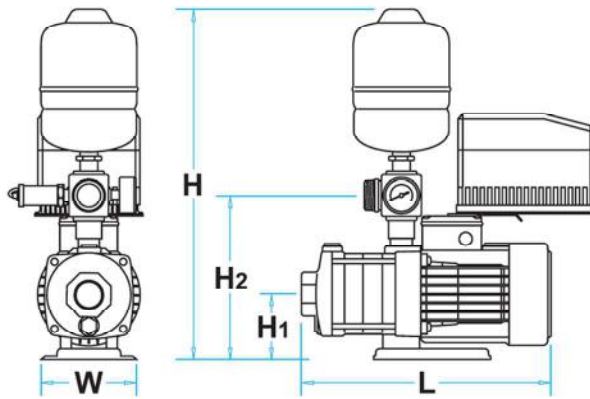
Capacity up to 48 m³/hr
 Total Head up to 62 meter
 Ambient Temperature: 15 to 40°C
 Power: 220V/1 phase/50Hz
 380V/3 phase/50Hz
 Insulation Class: F
 IP Code: 54

PERFORMANCE CHART



ONE PUMP

DIMENSION DRAWING

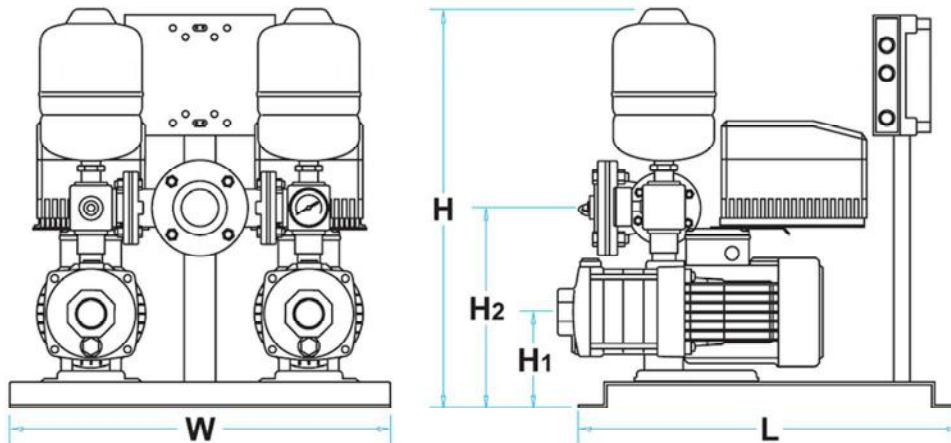


SPECIFICATIONS

Pump Model	Power Rating kW	Flow Rate m ³ /hr	Head m	Predetermined Pressure kg/cm ²	Suction Dia. inch	Discharge Dia. inch	Dimensions (mm)				
							L	W	H	H ₁	H ₂
CHESS 2-30	0.75	3	27	0.5 ~ 3.0	1	1	356	200	450	90	215
CHESS 2-40	0.95	3	36	0.5 ~ 3.8	1	1	414	200	450	90	215
CHESS 2-50	1.15	3	45	0.5 ~ 4.8	1	1	432	200	450	90	215
CHESS 2-60	1.35	3	55	0.5 ~ 5.8	1	1	450	200	450	90	215
CHESS 4-20	0.95	6	17	0.5 ~ 2.0	1-1/4	1	348	200	450	90	215
CHESS 4-30	1.35	6	26	0.5 ~ 2.8	1-1/4	1	416	200	450	90	215
CHESS 4-40	1.75	6	35	0.5 ~ 3.8	1-1/4	1	444	200	450	90	215
CHESS 4-50	2.15	6	43	0.5 ~ 4.5	1-1/4	1	444	200	450	90	215
CHESS 4-60	2.55	6	55	0.5 ~ 5.8	1-1/4	1	444	200	450	90	215
CHESS 8-20	1.35	9	20	0.5 ~ 2.2	1-1/2	1-1/2	345	220	560	110	280
CHESS 8-25	1.55	9	26	0.5 ~ 2.8	1-1/2	1-1/2	415	220	560	110	280
CHESS 8-30	1.85	9	32	0.5 ~ 3.5	1-1/2	1-1/2	415	220	560	110	280
CHESS 8-40	2.65	9	37	0.5 ~ 4.0	1-1/2	1-1/2	450	220	560	110	280
CHESS 8-50	3.5	9	48	0.5 ~ 5.0	1-1/2	1-1/2	450	220	560	110	280
CHESS 8-60	4.0	9	55	0.5 ~ 5.8	1-1/2	1-1/2	450	220	560	110	280
CHESS 12-20	1.85	12	24	0.5 ~ 2.6	1-1/2	1-1/2	385	220	560	110	280
CHESS 12-30	2.6	12	34	0.5 ~ 3.6	1-1/2	1-1/2	463	220	560	110	280
CHESS 12-40	3.85	12	44	0.5 ~ 4.6	1-1/2	1-1/2	463	220	560	110	280
CHESS 12-50	4.5	12	52	0.5 ~ 5.5	1-1/2	1-1/2	463	220	560	110	280
CHESS 12-60	5.5	12	62	0.5 ~ 6.5	1-1/2	1-1/2	463	220	560	110	280

TWO PUMPS

DIMENSION DRAWING



Fibox Control Panel
(standard)



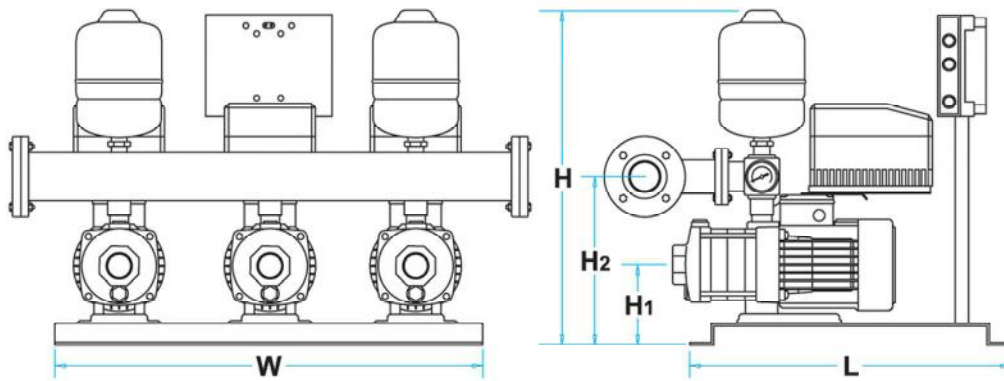
Hensel Control Panel
(optional)

SPECIFICATIONS

Pump Model	Power Rating kW	Flow Rate m ³ /hr	Head m	Predetermined Pressure kg/cm ²	Suction Dia. inch	Discharge Dia. inch	Dimensions (mm)				
							L	W	H	H ₁	H ₂
CHESS 2-30-2	0.75 x 2	6	27	0.5 ~ 3.0	1 x 2	1-1/2	530	590	500	142	267
CHESS 2-40-2	0.95 x 2	6	36	0.5 ~ 3.8	1 x 2	1-1/2	530	590	500	142	267
CHESS 2-50-2	1.15 x 2	6	45	0.5 ~ 4.8	1 x 2	1-1/2	530	590	500	142	267
CHESS 2-60-2	1.35 x 2	6	55	0.5 ~ 5.8	1 x 2	1-1/2	530	590	500	142	267
CHESS 4-20-2	0.95 x 2	12	17	0.5 ~ 2.0	1-1/4 x 2	2	530	590	500	142	267
CHESS 4-30-2	1.35 x 2	12	26	0.5 ~ 2.8	1-1/4 x 2	2	530	590	500	142	267
CHESS 4-40-2	1.75 x 2	12	35	0.5 ~ 3.8	1-1/4 x 2	2	530	590	500	142	267
CHESS 4-50-2	2.15 x 2	12	43	0.5 ~ 4.5	1-1/4 x 2	2	530	590	500	142	267
CHESS 4-60-2	2.55 x 2	12	55	0.5 ~ 5.8	1-1/4 x 2	2	530	590	500	142	267
CHESS 8-20-2	1.35 x 2	18	20	0.5 ~ 2.2	1-1/2 x 2	2	530	590	612	162	332
CHESS 8-25-2	1.55 x 2	18	26	0.5 ~ 2.8	1-1/2 x 2	2	530	590	612	162	332
CHESS 8-30-2	1.85 x 2	18	32	0.5 ~ 3.5	1-1/2 x 2	2	530	590	612	162	332
CHESS 8-40-2	2.65 x 2	18	37	0.5 ~ 4.0	1-1/2 x 2	2	530	590	612	162	332
CHESS 8-50-2	3.5 x 2	18	48	0.5 ~ 5.0	1-1/2 x 2	2	530	590	612	162	332
CHESS 8-60-2	4.0 x 2	18	55	0.5 ~ 5.8	1-1/2 x 2	2	530	590	612	162	332
CHESS 12-20-2	1.85 x 2	24	24	0.5 ~ 2.6	1-1/2 x 2	2-1/2	530	590	612	162	332
CHESS 12-30-2	2.6 x 2	24	34	0.5 ~ 3.6	1-1/2 x 2	2-1/2	530	590	612	162	332
CHESS 12-40-2	3.85 x 2	24	44	0.5 ~ 4.6	1-1/2 x 2	2-1/2	530	590	612	162	332
CHESS 12-50-2	4.5 x 2	24	52	0.5 ~ 5.5	1-1/2 x 2	2-1/2	530	590	612	162	332
CHESS 12-60-2	5.5 x 2	24	62	0.5 ~ 6.5	1-1/2 x 2	2-1/2	530	590	612	162	332

THREE PUMPS

DIMENSION DRAWING



Fibox Control Panel
(standard)



Hensel Control Panel
(optional)

SPECIFICATIONS

Pump Model	Power Rating kW	Flow Rate m ³ /hr	Head m	Predetermined Pressure kg/cm ²	Suction Dia. inch	Discharge Dia. inch	Dimensions (mm)				
							L	W	H	H ₁	H ₂
CHESS 2-30-3	0.75 x 3	9	27	0.5 ~ 3.0	1 x 3	1-1/2	600	850	800	170	320
CHESS 2-40-3	0.95 x 3	9	36	0.5 ~ 3.8	1 x 3	1-1/2	600	850	800	170	320
CHESS 2-50-3	1.15 x 3	9	45	0.5 ~ 4.8	1 x 3	1-1/2	600	850	800	170	320
CHESS 2-60-3	1.35 x 3	9	55	0.5 ~ 5.8	1 x 3	1-1/2	600	850	800	170	320
CHESS 4-20-3	0.95 x 3	18	17	0.5 ~ 2.0	1-1/4 x 3	2	600	850	800	170	320
CHESS 4-30-3	1.35 x 3	18	26	0.5 ~ 2.8	1-1/4 x 3	2	600	850	800	170	320
CHESS 4-40-3	1.75 x 3	18	35	0.5 ~ 3.8	1-1/4 x 3	2	600	850	800	170	320
CHESS 4-50-3	2.15 x 3	18	43	0.5 ~ 4.5	1-1/4 x 3	2	600	850	800	170	320
CHESS 4-60-3	2.55 x 3	18	55	0.5 ~ 5.8	1-1/4 x 3	2	600	850	800	170	320
CHESS 8-20-3	1.35 x 3	27	20	0.5 ~ 2.2	1-1/2 x 3	2-1/2	600	850	800	190	380
CHESS 8-25-3	1.55 x 3	27	26	0.5 ~ 2.8	1-1/2 x 3	2-1/2	600	850	800	190	380
CHESS 8-30-3	1.85 x 3	27	32	0.5 ~ 3.5	1-1/2 x 3	2-1/2	600	850	800	190	380
CHESS 8-40-3	2.65 x 3	27	37	0.5 ~ 4.0	1-1/2 x 3	2-1/2	600	850	800	190	380
CHESS 8-50-3	3.5 x 3	27	48	0.5 ~ 5.0	1-1/2 x 3	2-1/2	600	850	800	190	380
CHESS 8-60-3	4.0 x 3	27	55	0.5 ~ 5.8	1-1/2 x 3	2-1/2	600	850	800	190	380
CHESS 12-20-3	1.85 x 3	36	24	0.5 ~ 2.6	1-1/2 x 3	3	600	850	800	190	380
CHESS 12-30-3	2.6 x 3	36	34	0.5 ~ 3.6	1-1/2 x 3	3	600	850	800	190	380
CHESS 12-40-3	3.85 x 3	36	44	0.5 ~ 4.6	1-1/2 x 3	3	600	850	800	190	380
CHESS 12-50-3	4.5 x 3	36	52	0.5 ~ 5.5	1-1/2 x 3	3	600	850	800	190	380
CHESS 12-60-3	5.5 x 3	36	62	0.5 ~ 6.5	1-1/2 x 3	3	600	850	800	190	380

MEMO

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SPV SERIES



SPLV SERIES



SUBMERSIBLE PUMP SERIES



SPE, SPI, SPS SERIES



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ISO 9001



ISO 14001



OHSAS 18001



WASTEWISE



CARING COMPANY

While the production techniques continue to improve, designs and materials used for the products may thus be varied from time to time. No further notice will be provided.

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