

Features

- ① An energy-saving pump with a Top Runner (equivalent to IE3) motor (LPW-e).
- ② Strong and tough enough to resist dirty coolants.
- ③ The impeller made of FCD material and non-seal (mechanical seal-less) structure is adopted for excellent durability.
- ④ Mounting the inlet piping allows you to freely set the operating water level (LPW65-e).
- ⑤ Can be used for high viscosity coolants (LPW40-7W/LPW65-e).
- ⑥ Diverse lineup compatible with various efficiencies.

LPW-e type: Equipped with a Top Runner (equivalent to IE3) motor.
(5.5 to 7.5kW is NEMA Premium motor)

LPW-7W type: Equipped with a UL-approved motor (NEMA premium efficiency) (3.0kW or less).



Please note that the paint color, etc. of the actual unit may partially differ from the photo.

Description of types

Bore diameter 40mm

LPW 40 1 C - 0.75 -7W

① ② ③ ⑤ ⑦ ⑨

Bore diameter 50/65mm

LPW 65 3 /2 A - 6 5.5 L -e

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

- ① Model
- ② Bore diameter
- ③ Number of casings
- ④ Number of impellers
(blank if number is equal to number of casings)
- ⑤ Viscosity of liquid
A, C : for low viscosity liquid
D : for high viscosity liquid
- ⑥ Frequency 5:50Hz 6:60Hz
- ⑦ Output
- ⑧ ID code
- ⑨ Motor efficiency
-e : Top Runner efficiency (equivalent to IE3)
-7W : UL approved motor (3.0kW or less is NEMA Premium efficiency)

Standard Specification

Bore diameter		40mm	50mm	65mm
Used liquid	Property of liquid	Coolants of the kinematic viscosity equivalent to that of water-soluble coolants or water containing an additive (anticorrosive, etc.) ^{*1}		Water-soluble coolant liquid ^{*1}
	Temperature	0 to 60°C (No frozen liquid)		
	Allowable kinematic viscosity	40C : 32mm ² /s 40D : 150mm ² /s	1mm ² /s	
Installation location		Indoor Ambient temperature: 0 to 40 °C, RH 85% or below (no condensation), Height above sea level : 1000m or less, Place not exposed to direct sunlight, Place in an area free of corrosive or explosive gas or vapor.		
Material	Casing Suction • Discharge • Intermediate	FC200		
	Impeller	FCD450		
	Shaft	S35C	S45C	
Shaft seal structure		Non-seal (mechanical seal-less)		
Motor	Power source	3-phase 50/60/60Hz 200/200/220V ^{*2*}		
	Type	Totally enclosed fan-cooled indoor type	Totally enclosed fan-cooled outdoor type ^{*4}	
	Protection method	IP54	IP44	IP55
	Thermal class	F		
	Rating	Continuous		
	Number of poles	2P		
Paint color		Munsell N1.5		

*1 Avoid using the pump with water. Contact us when using the unit for coolant containing foreign substances with high hardness or a large amount of foreign substances including chips.

*2 -7W type: 60Hz 208/230/460V

*3 LPW65-e: 3-phase 50/60/60Hz 200/200/230V

*4 The pump cannot be used outdoors.

Special specification

Shaft seal structure change (wear resistance improvement)

Table of Consumable Parts

Output (kW)	Specification	Bearing		Oil seal	
		Load side	Unload side	Load side	Unload side
1.5	-e	6306ZZC3	6303ZZC3	VC30508	—
5.5		6309ZZC3	6306ZZC3	VC45628	VC30528
7.5		6309ZZC3	6306ZZC3		
0.75	-7W	6306ZZC3	6203ZZCM	SC30457	HM25385
1.5		6306ZZC3	6205ZZCM		
2.2		6306ZZC3	6205ZZCM		
3.0		6307ZZC3	6205ZZCM		

Bore diameter (mm)	O-ring (for companion flange)	O-ring (for water seal plate)
50	S67	—
65	—	S56

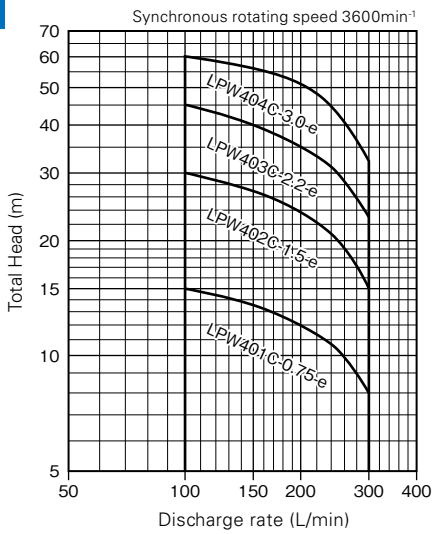
Selection chart

● LPW40-7W

● For low viscosity liquid

(Values at kinematic viscosity 1mm²/s, specific gravity 1)

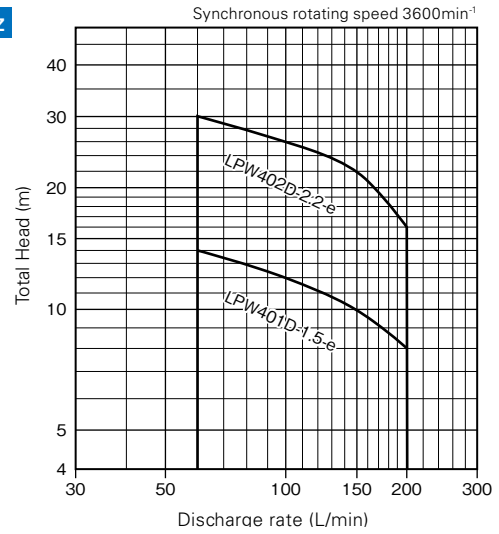
60Hz



● For high-viscosity liquid

(Value at 150 mm²/s kinematic viscosity, specific gravity 1)

60Hz



Specification table

● LPW40-7W

Bore diameter (mm)	Frequency (Hz)	Used liquid	Output (kW)	Type	Rated voltage (V)	Rated current (A)	Starting current (A)	Discharge rate (L/min)	Total head (m)
40	60	For low viscosity liquid	0.75	LPW401C-0.75-7W	208/230/460	4.0/3.9/2.0	33.9/38.0/19.0	100~300	15~8
			1.5	LPW402C-1.5-7W	208/230/460	6.5/6.0/3.1	47.3/52.0/26.0		30~15
			2.2	LPW403C-2.2-7W	208/230/460	8.9/8.5/4.3	74.8/83.0/41.5		45~23
			3.0	LPW404C-3.0-7W	208/230/460	12.5/11.8/6.0	119.4/130/65.0		64~32
		For high-viscosity liquid	1.5	LPW401D-1.5-7W	208/230/460	6.5/6.0/3.1	47.3/52.0/26.0	60~200	14~8
			2.2	LPW402D-2.2-7W	208/230/460	8.9/8.5/4.3	74.8/83.0/41.5		30~16

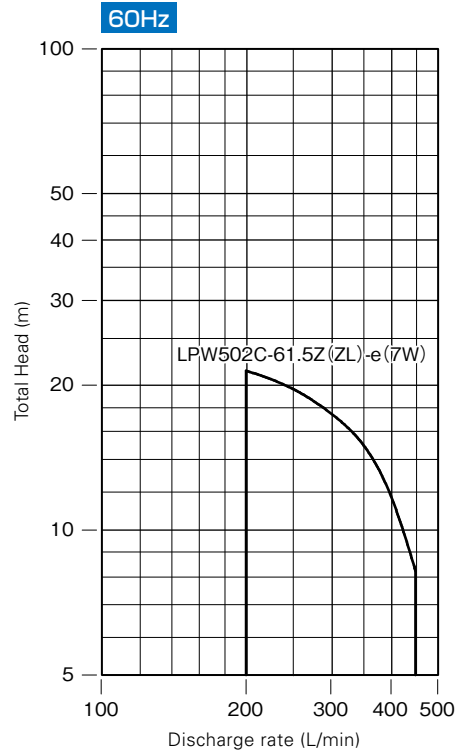
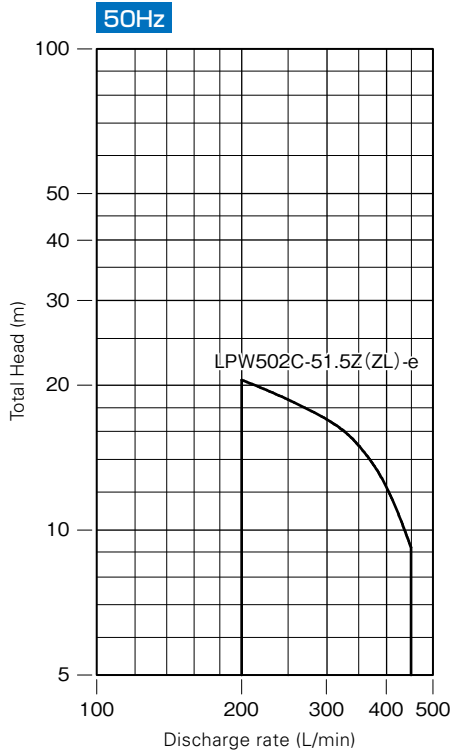
Note 1) Discharge rate and total head are the values obtained in the tests with a liquid viscosity of 1mm²/s (same as fresh water at normal temperature).

Note 2) The pump's rated current (current value listed on the pump nameplate) is the recommended current setting for protection device.

Selection chart

● LPW50

(Values at kinematic viscosity 1mm²/s, specific gravity 1)



Specification table

● LPW50

Bore diameter (mm)	Frequency (Hz)	Output (kW)	Type	Rated voltage (V)	Rated current (A)	Starting current (A)	Discharge rate (L/min)	Total head (m)
50	50	1.5	LPW502C-51.5Z-e	200	6.6	66.0	200~450	20.5~9
			LPW502C-51.5ZL-e					
	60		LPW502C-61.5Z-e	200/220	6.5/6.0	64.0/70.0		
			LPW502C-61.5ZL-e					
			LPW502C-61.5ZL-7W	208/230/460	6.5/6.0/3.1	47.3/52.0/26.0		

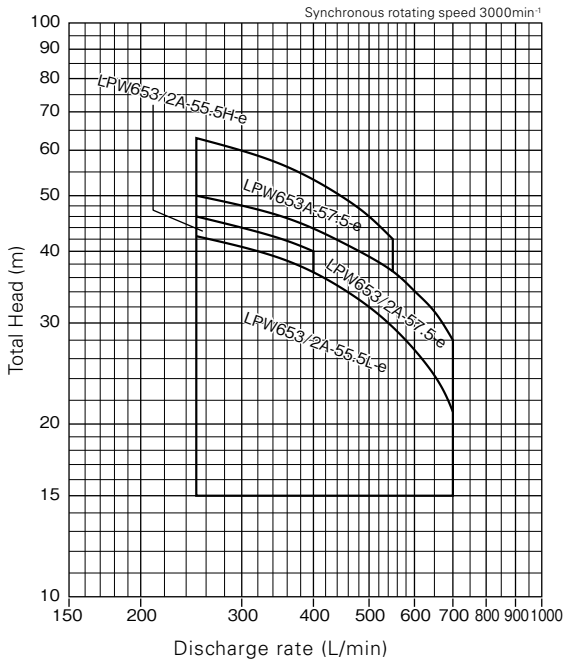
Note) The pump's rated current (current value listed on the pump nameplate) is the recommended current setting for protection device.

Selection chart

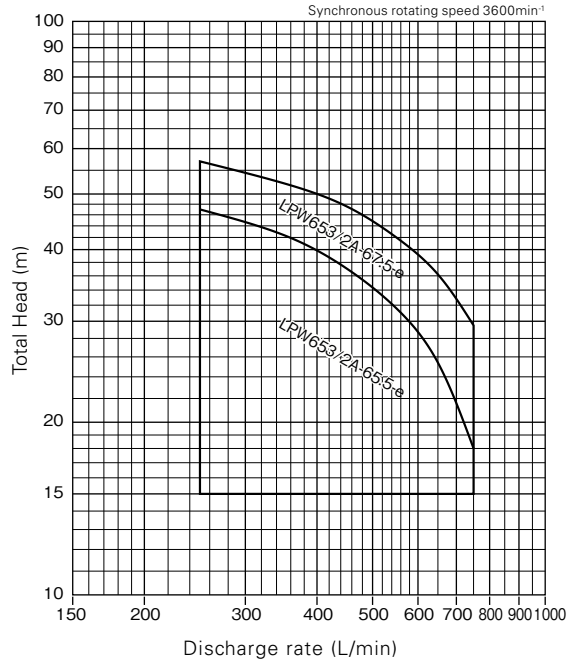
● LPW65

● For low viscosity liquid (Values at kinematic viscosity 1mm²/s, specific gravity 1)

50Hz



60Hz



Specification table

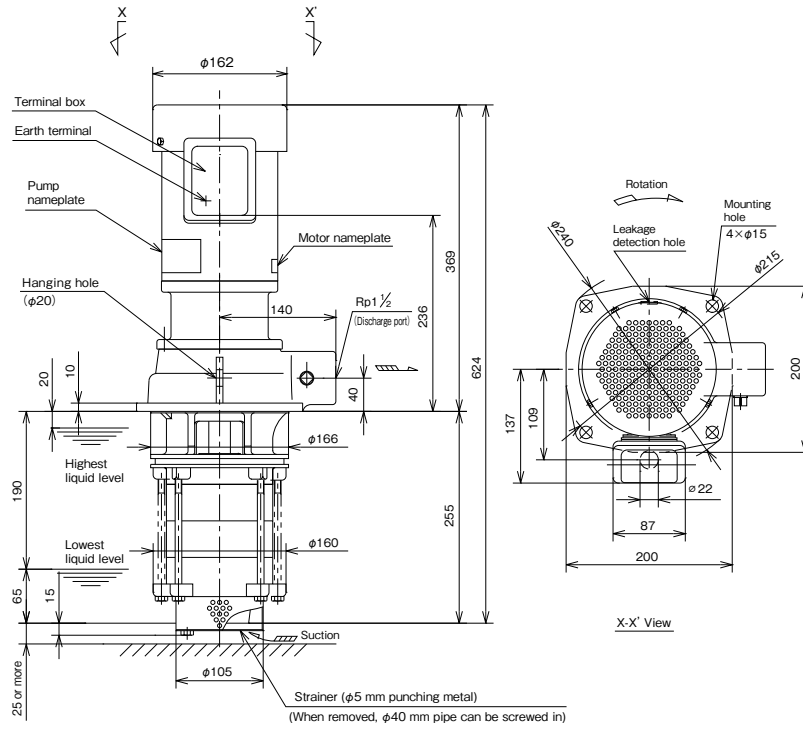
● LPW65

Bore diameter (mm)	Frequency (Hz)	Output (kW)	Type	Rated voltage (V)	Rated current (A)	Starting current (A)	Discharge rate (L/min)	Total head (m)
65	50	5.5	LPW653/2A-55.5L-e	200	20.3	204	250~700	42.5~21
		5.5	LPW653/2A-55.5H-e		20.3	204	250~400	46~40
		7.5	LPW653/2A-57.5-e		27.2	288	250~700	50~28
		7.5	LPW653A-57.5-e		27.2	288	250~550	63~42
	60	5.5	LPW653/2A-65.5-e	200/230	19.8/17.8	178/206	250~750	47~18
		7.5	LPW653/2A-67.5-e		26.5/23.7	254/295	250~750	57~29.5

Note) The pump's rated current (current value listed on the pump nameplate) is the recommended current setting for protection device.

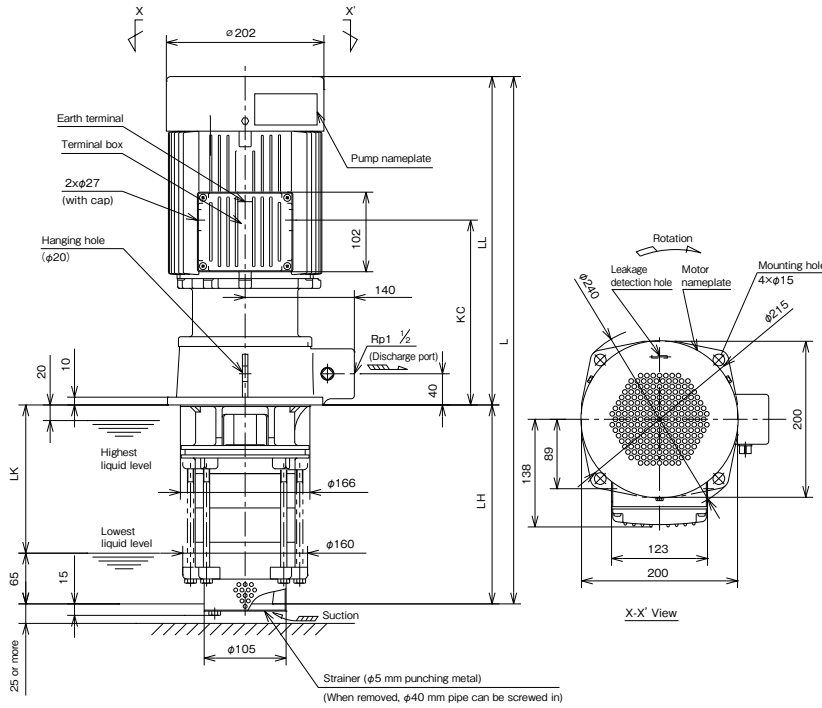
Assembly drawing

●LPW40-7W 0.75kW



Approx.mass 35Kg

●LPW40-7W 1.5kW or more



Dimensions

●LPW40-7W 1.5kW or more

(Unit : mm)

Bore diameter	Used liquid	Frequency (Hz)	Type	KC	L	LH	LK	LL	Approx. mass(kg)
40	For low viscosity	60	LPW402C-1.5-7W	237	676	255	190	421	45
			LPW403C-2.2-7W	237	676	255	190	421	52
			LPW404C-3.0-7W	240	743	299	234	444	59
	For high viscosity		LPW401D-1.5-7W	237	676	255	190	421	44
			LPW402D-2.2-7W	237	676	255	190	421	51