

Submersible Wastewater, Sewage Pump

Model DLFU Model DVFU Model DDLFU

water

wastewater

flood control



EBARA Fluid Handling

an EBARA International Corporation company

Model DLFU, DLKFU, DDLFI



K-Series, Model DLKFU – Features

Model DLKFU series pumps are designed to tackle clogging challenges with enhanced passage capabilities for handling of fibrous waste. The design features address the most common reasons for clogging caused by fibrous materials:

- Reduces material caught on the vane tips
- Increases inlet pressure which keeps debris moving instead of recirculating
- E-liminator groove disrupts the accumulation of fibrous debris.

25HP

30HP

40HP

50HP

60HP

25HP

30HP

40HP

50HP

60HP

DLFU selection chart

50DLFU61.5 2HP 34 100DI ELI611 15HE 1 80DLMFU61.5 2HP 35 100DLFU615 20HP 2 3 80DLMFU62.2 3HP 36 100DLFU618 25HP 80DLMFU63.7 5HP 100DLFU622 30HP 4 37 5 80DLMFU65.5 71/2HP 38 150DLFU630 40HP 6 80DLCMFU67.5 10HP 39 150DLFU637 50HP 80DI CMEU611 15HP 40 150DI EU645 60HP 7 8 100DLFU61.5 2HP 41 150DLFU67.5 10HP 9 80DLFU61.5 2HP 42 150DLFU611 15HP 100DLMFU61.5 2HP 10 43 150DLFU615 20HP 80DLFU62.2 3HP 44 150DLFU618 25HP 11 12 100DLMFU62.2 3HP 45 150DLFU622 30HP 80DLFU63.7 5HP 46 200DLFU630 40HP 13 100DLMFU63.7 5HP 200DLFU637 50HP 14 47 80DI EU65 5 7%HP 48 200DLFU645 60HP 15 100DLMFU65.5 71/2HP 49 200DLFU67.5 10HP 16 17 80DLFU67.5 10HP 50 200DLFU611 15HP 100DLMFU67.5 10HP 51 200DLFU615 20HP 18 19 80DLFU611 15HP 52 200DLFU618 25HP 20 100DLMFU611 15HP 53 200DLFU622 30HP 21 80DI EU615 20HP 54 250DLFU611 15HP 55 250DLBFU615 20HP 22 100DLMFU615 20HP 56 250DLCFU615 20HP 23 80DLFU618 25HP 24 100DLMFU618 25HP 57 250DLFU618 25 80DLFU622 30HP 58 250DLFU622 59 250DI EU630 26 100DLMFU622 30HP 27 100DLFU630 40HP 60 250DLFU637 28 100DLFU637 50HP 61 250DLFU645 29 100DI EU645_60HP 62 300DI EU618 63 300DLFU622 30 100DLFU62.2 3HP 31 100DLFU63.7 5HP 64 300DLFU630 32 100DLFU65.5 71/2HP 65 300DI EU637 100DLFU67.5 10HP 33 66 300DLFU645

Stanuaru Specifications			
Design	Discharge	2, 3, 4, 6, 8, 10, 12 inch	
	Horsepower	2 to 60	
	Capacity	13 to 4000 GPM	
	Total head	7 to 243 feet	
	Max.Liquid temp.	104°F/40°C	
Speed		1800 RPM	
Materials	Casing	Cast Iron	
	Impeller	Cast Iron (2 to 60HP)	
		Ductile Iron (150-300DLFU, 40 to 60HP)	
	Shaft	403 Stainless Steel, 2 to 5HP	
		420 Stainless Steel, 71/2 to 60HP	
	Motor Frame	Cast Iron	
	Fastener	304 Stainless Steel	
Construction	Mechanical Seal	Double Mechanical Seal	
	Material – Upper	Carbon/Ceramic	
		Optional: Tungsten Carbide/Tungsten/Carbide	
	Material – Lower	Silicon Carbide/Silicon Carbide, 2 to 60HP	
		Optional: Tungsten Carbide/Tungsten/Carbide	
		Tungsten Carbide/Tungsten Carbide, 150-300DLFU, 50 & 60 HP	
I	mpeller Type	Semi-open, 2 to 30HP	
		Enclosed, 40 to 60HP	
Bearing		Prelubricated Ball Bearing	
Motor		2-5hp= Class F Insulation, 7.5-60hp= Class H Insulation	
		Optional: FM Explosion Proof Class 1, Division 1,	
		Group C, D	
Three Phase		208/230V, 460V	
Service Factor		1.15	
	Motor Protection	Built-in Thermal Detector - Klixon	
		Mechanical Seal Leakage - Float Switch	
Submersible	Cable	2 to 5HP - 33 ft. standard cable length	
		71/2 to 60HP - 40 ft. standard cable length	
		Optional ft. (customer specified)	
Accessories		Optional QDC System	

Standard Specifications

m ft 60Hz (Synchronous Speed - 1800 RPM) 300 80 200 60 28 27 50 150 40 25/26 23/24 100 30 21 / 22 6 80 19 / 20 HEAD 5 ΔF 20 17 / 18 35 60 4 15 / 16 TOTAL 50 15 34 59 40 3 13 / 14 42 10 33 65 30 2 8 50 9 / 10 3. 20 6 41 30 5 62 40 15 4 56 55 8 10 3 200 3000 4000 USGPM 10 15 20 30 40 50 60 80 100 150 300 400 500 600 800 1000 1500 2000 0.1 0.2 0.3 0.4 0.5 0.6 0.8 1.0 1.5 2.0 3.0 4.0 5.06.0 8.0 10 15 m³/min

Please note: Overlap in coverage is designated by the two numbers; for example "9 / 10". Refer to the legend left for the specific model numbers.

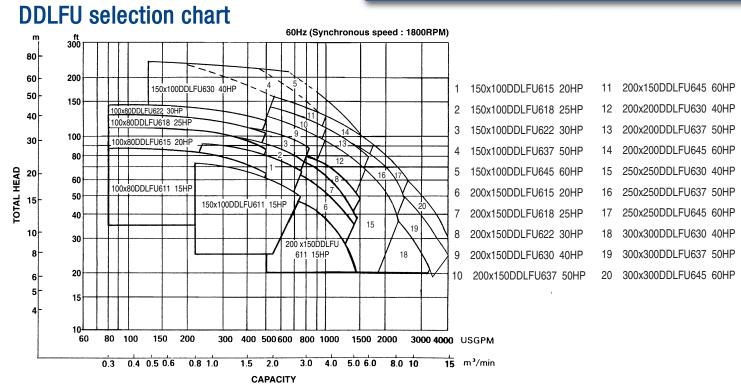
CAPACITY

Model DDLFU



Standard Specifications

Design	Discharge	4"×3", 6"×4", 8"×6", 8"×8", 10"×10", 12"×12"
	Horsepower	15 to 60HP
	Capacity	80 to 4000 GPM
	Total head	20 to 243 feet
	Max.Liquid temp.	104°F/40°C
Speed		1800 RPM
Materials	Casing	Cast Iron
	Impeller	Cast Iron
	Shaft	420 Stainless Steel
	Motor Frame	Cast Iron
	Fastener	304 Stainless Steel
Construction	Mechanical Seal	
	Double Mechanical Seal -	Tandem Arrangement
	Material – Upper	Carbon/Ceramic
		Optional: Tungsten Carbide/Tungsten/Carbide
	Material – Lower	Silicon Carbide/Silicon Carbide
		Optional: Tungsten Carbide/Tungsten/Carbide
		Tungsten Carbide/Tungsten Carbide
		(200×150DDLFU and greater, 50 & 60 HP only)
	Impeller Type	Semi-open for 15 to 30HP
		Enclosed for 40 to 60HP
	Bearing	Prelubricated Ball Bearing
	Motor	2-5hp=Class F Insulation, 7.5-60hp=Class H Insulation
		Optional: FM Explosion Proof Class 1, Division 1,
		Group C, D
	Three Phase	208/230V, 460V
	Service Factor	1.15
	Motor Protection	Built-in Thermal Detector - Klixon
		Mechanical Seal Leakage - Float Switch
Submersible Cable		40 ft. standard cable length, Optional 66 ft.
		Optional ft. (customer specified)

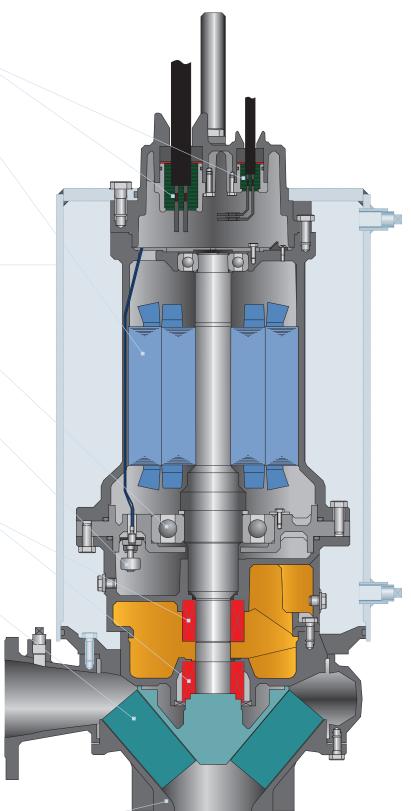


Model DLFU. DLKFU. DDLFU Features

- Watertight cable entry system prevents capillary action and protects against moisture; reduces maintenance costs
- Heavy duty, high efficiency, air filled motor dissipates heat easily; thermal protection in each phase of windings protects; operates cooler with higher efficiencies; longer service life with lower operating costs
- Self cooling jacket (Model DDLFU) eliminates the need for external pumping devices or special heat transfer fluids; offers simplicity and high reliability by effectively dissipating heat in dry pit applications only
- Single and double row thrust bearings carries thrust loads with L-10 life of 60,000 hours; ensures long, dependable operation and lowers maintenance costs
- Mechanically actuated float switch provides early warning of mechanical seal failure; avoids costly motor repairs
- Double mechanical seals silicon carbide lower seals, carbon/ceramic upper – hard faced upper and lower seals operate in an oil bath; providing longer service life and lower maintenance costs
- High efficiency impellers pass large solids with high outputs and reduces power consumption; impellers are optimized for hydraulic coverage; lowers operating costs

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 Replaceable wear components maintains working clearances while reducing casing and volute costs



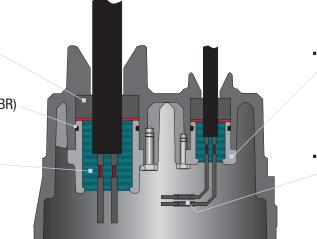
Model DLFU. DLKFU. DDLFU

Cable Entry System

- Primary seal grommet (NBR)
- Secondary sealing 0-rings (NBR)

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- Epoxy resin prevents capillary action
- Solid joint butt connector (copper)



- Cable gland (grey cast iron)
- Solid joint butt connector
 (copper)

Note: Entry system is the same for both power and control cables.

