



# Model DLFU, DLKFU, DDLFU Submersible Wastewater Sewage Pump





### Ahead > Beyond

### Model DLFU, DLKFU

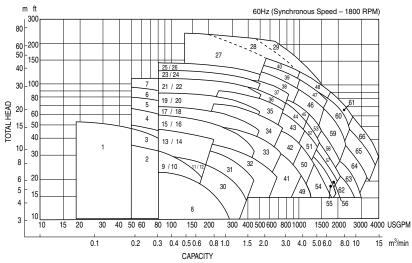


### K-Series, Model DLKFU Features:

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

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

### **SELECTION CHART**



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

### **Specifications:**

		DLFU	DLKFU
	Discharge	2 to 12 inch	
Design	Power	2 to 60 HP	2 to 30 HP
	Capacity	20 to 4732 GPM	20 TO 3363 GPM
	Total Head	7 to 254 FT	7 to 158 FT
	Max.Liquid temp.	104°F/ 40°C	
Speed		1800 RPM	
Materials	Casing	Cast Iron	
	Impeller	Cast Iron (2 to 60HP) Ductile Iron (150-300, 40 to 60HP)	Cast Iron
	Shaft	403 Stainless Steel, 2 to 5HP 420 Stainless Steel, 7½ to 60HP	403 Stainless Steel
	Motor Frame	Cast Iron	Cast Iron
	Fastener	304 Stainless Steel	304 Stainless Steel

DL	FU	

2 80DLMFU61.5 2HP 3 80DLMFU61.5 2HP 3 80DLMFU62.2 3HP 4 80DLMFU63.7 5HP 5 80DLMFU65.5 7½HP 6 80DLCMFU61.5 10HP 7 80DLFU61.5 2HP 9 80DLFU61.5 2HP 10 100DLMFU61.5 2HP 11 80DLFU62.2 3HP 12 100DLMFU62.2 5HP 13 80DLFU65.5 7½HP 14 100DLMFU63.7 5HP 15 80DLFU65.5 7½HP 16 100DLMFU65.5 7½HP 17 80DLFU67.5 10HP 18 100DLMFU67.5 10HP 18 100DLMFU67.5 10HP 19 80DLFU611 15HP 20 100DLMFU611 15HP	23 80DLFU618 25HP 24 100DLMFU618 25HP 25 80DLFU622 30HP 26 100DLMFU622 30HP 27 100DLFU630 40HP 28 100DLFU637 50HP 29 100DLFU645 60HP 30 100DLFU63.7 5HP 31 100DLFU65.5 7½HP 33 100DLFU65.5 7½HP 33 100DLFU65.5 10HP 34 100DLFU615 20HP 36 100DLFU618 25HP 37 100DLFU618 25HP 37 100DLFU622 30HP 38 150DLFU632 50HP 40 150DLFU637 50HP 40 150DLFU637 50HP 41 150DLFU67.5 10HP 42 150DLFU67.5 10HP	45 150DLFU622 30HP 46 200DLFU630 40HP 47 200DLFU637 50HP 48 200DLFU645 60HP 50 200DLFU615 20HP 51 200DLFU615 20HP 52 200DLFU618 25HP 53 200DLFU612 30HP 54 250DLFU615 20HP 55 250DLFU615 20HP 56 250DLFU615 20HP 59 250DLFU632 30HP 59 250DLFU632 30HP 60 250DLFU637 50HP 61 250DLFU645 60HP 62 300DLFU645 60HP 63 300DLFU622 30HP
20 100DLMFU611 15HP 21 80DLFU615 20HP		



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### Ahead Beyond

SUBMERSIBLE PUMPS

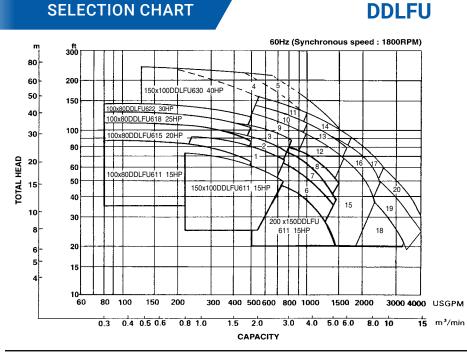
## **Model DDLFU**



### **Specifications:**

Design	Discharge	3 to 12 inch	
	Power	7 <sup>1</sup> / <sub>2</sub> to 60 HP	
	Capacity	80 to 4732 GPM	
	Total Head	8 to 254 FT	
	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	

**SELECTION CHART** 



1234567890112345678 11111111111111111	150x100DDLFU615 150x100DDLFU622 150x100DDLFU622 150x100DDLFU637 150x100DDLFU645 200x150DDLFU615 200x150DDLFU618 200x150DDLFU630 200x150DDLFU630 200x200DDLFU637 200x200DDLFU637 250x250DDLFU637 250x250DDLFU645 300x300DDLFU645	20Hp 25HP 50HP 60HP 20HP 20HP 50HP 50HP 50HP 50HP 50HP 50HP 50HP 5
17	250x250DDLFU645	60HP
18	300x300DDLFU630	40HP
19	300x300DDLFU637	50HP
20	300x300DDLFU645	60HP

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SUBMERSIBLE PUMPS

# Model DLFU, DLKFU, DDLFU

- 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.
- 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 and E-liminator groove disrupts the accumulation of fibrous debris.
- Replaceable wear components maintains working clearances while reducing casing and volute costs.

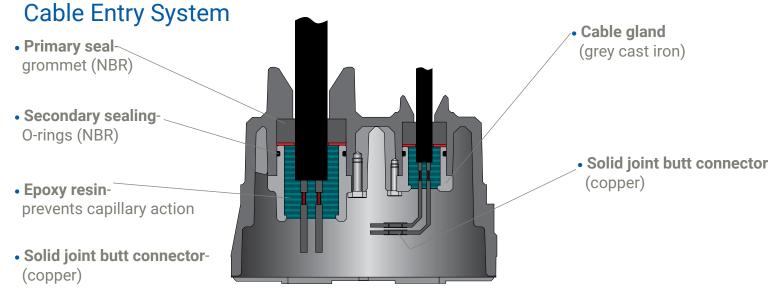






SUBMERSIBLE PUMPS

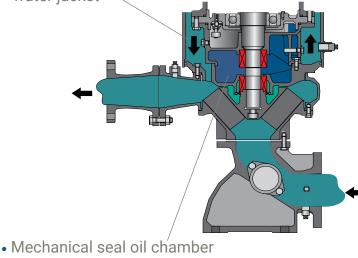
# Model DLFU, DLKFU, DDLFU

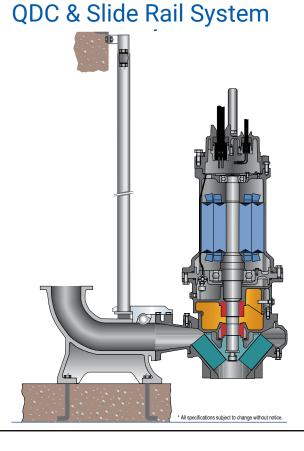


Note: Entry system is the same for both power and control cables.

### **DDLFU Dry Pit Design**

 Motor cooling is provided by internal re circulation of pumpage through the water jacket









### Ahead Beyond

### SUBMERSIBLE PUMPS

# Model DLFU, DLKFU, DDLFU EBARA K-Series

An increased frequency of submersible wastewater pumps clogging due to an abundance of improperly disposed materials entering the waste streams have plagued pump manufacturers and municipal wastewater facilities over the past decade. Efforts by municipalities to restrict occurrences of such materials entering the system are not always successful.

Ebara DLKF series pumps are designed to tackle these challenges. The Ebara K-series submersible sewage pump maintains the same quality and durability of the Ebara DLF line but with enhanced passage capabilities for handling of fibrous waste.



Adjustable wear plate with an E-liminator groove.

Modified vane profiles.

The Ebara K-series design features address the most common reasons for clogging caused by fibrous materials. This design:

- 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.

When applied as designed, Ebara submersible DLF-series pumps continue to offer superior solids handling for up to three-inch spherical solids. In most applications the standard D-series design can sufficiently handle your pumping requirements, but when the situation calls for soemthing more, choose Ebara K-series.

K-series pumps are available for new equipment sales and as a conversion kit for installed Ebara pumps.

# **Field Trials**

have shown that the Ebara K-series pumps have dramatically reduced and in some cases eliminated clogging pumps.

#### South Carolina Municipality:

80DLMF (3 HP), multiple clogging occurences per week pumps converted to 80DLMKF 9/24/09 - **no clogs as of 9/2/2010** 

### South Carolina Municipality:

80DLCMF (10 HP), two clogging occurences per week pumps converted to 80DLCMKF 7/23/09 - **no clogs as of 9/2/2010** 

### South Carolina Municipality:

80DLMF (7 1/2 HP), multiple clogging occurences per week pumps converted to 80DLMKF 11/17/09 - **no clogs as of 9/2/2010** 

### **Ohio Municipality:**

100DLMF (15 HP), daily clogging occurences upgraded to 100DLMKF 10/23/09 - **no clogs as of 9/2/2010** 

#### **Iowa Municipality:**

100DLMF (10 HP), multiple clogging occurences per week upgraded to 100DLMKF 11/12/09 - **no clogs as of 9/2/2010** 

#### **Florida Municipality:**

150DLFU618 (25 HP), 11/5/09 two clogging occurences per week, upgraded to 150DLK-FU618 - **no clogs as of 9/2/2010** 

