

GRUNDFOS LARGE UP(S)



## **THE QUIET REVOLUTION**

Grundfos LARGE UP(S) Wet Rotor Circulators

## THE QUIET REVOLUTION

Grundfos Pumps is the only manufacturer of large, wet-rotor circulators in the U.S. commercial market with a proven track record of more than 25 years experience. Our large UP(S) wet rotor circulators are whisper-quiet and maintenance-free. They feature an integrated pump and motor design. Fewer parts means greater ease of installation and durability.

### QUIET OPERATION

Fans are often a source of noise and vibrations that can resonate throughout a building via pipe work. Wet rotor design eliminates the need for a fan to cool the motor: water being pumped surrounds the rotor, cooling and lubricating the shaft and bearings. No noise. Just quiet.

### MAINTENANCE-FREE

The Grundfos large UP(S) wet rotor circulators are virtually maintenance-free and offer many advantages over three-piece, dry rotor pumps.

- No seals – eliminates hot water leakage
- No oil – pumped water is the lubricant
- No couplers – ensures no maintenance required

### INCREASED OPERATING EFFICIENCY

The large UP(S) uses dynamically balanced rotors and laser-welded, stainless steel, curved blade impellers. Stainless steel impellers provide a higher pump efficiency than cast-bronze or cast-iron impellers.

### ENERGY AND COST SAVINGS

The speed switch on the large UPS motor allows you to adjust the pump speed to meet the needs of your system, thereby reducing energy consumption and saving you money.



## PUMP APPLICATIONS

Large UP(S) pumps are available in varying sizes and material construction ideal for commercial buildings and large residences.

- › Cast iron for closed systems (heating and air conditioning)
- › Bronze for open systems (domestic hot water)
- › Heating systems for apartments, colleges, and hospitals
- › Hot water recirculation for apartments and hotels
- › Snow melt, and hot water recirculation for large residential and light commercial
- › Radiant heating for residential and commercial structures

## REPLACEMENT VALUE

Most large UP(S) pumps can replace other manufacturers' three-piece dry runners without piping modifications – and occupy less space. For more information about large UP(S) pumps, contact your Grundfos representative or visit [www.versaflo.com](http://www.versaflo.com).

## BUILT TO LAST

The stainless steel impellers, rotor shaft, bearing plate, and rotor cladding on large UP(S) pumps are corrosion-resistant and built to last.

## USER-FRIENDLY

You can ensure that the electrical connections and rotation of your pump are correct by checking the indicator lights on the terminal box.

## CASE STUDY: LARGE UP(S) IN THE FIELD

CONCEPT MECHANICAL • AVON, COLORADO

*“Our customers want absolute, unerring reliability and performance to match that of a finely-crafted European car,” says Tim Rosen, P.E., one of Concept Mechanical’s owners. “And, they don’t want to see or hear the mechanical equipment, not even in a garage or basement.”*

*To meet these needs, Concept Mechanical has developed a hydronic recipe for demanding clients that always includes Grundfos multi-speed circulators.*

*One recent job involved the installation of an extensive radiant heat system for a snow-melted driveway and several of the UP(S) circulators.*

*“Our customers are willing to pay for good workmanship, but they want absolutely no compromise,” Tim said. “Using the best equipment isn’t necessarily a matter of choice, but of necessity. We use the best products because our reputation, and their peace of mind, are on the line.”*

*For jobs with larger loads, Concept Mechanical selects Grundfos UP(S) pumps because of their three-speed adaptability and remarkably quiet operation.*

*They particularly like the ability to match a multi-speed pump to its need. Grundfos’ new, expanded line of wet rotor large UP(S) pumps have two or three different performance curves and are well suited for later system retrofits or changes.*

**Go to [www.versaflo.com](http://www.versaflo.com) for more case studies, application information, and performance ranges of large UP(S) pumps.**



Industry standard 2- or 4-bolt flanges with gauge taps

Stainless steel neck ring to reduce recirculation and increase efficiency

Durable tungsten carbide motor bearings lubricated by media

Stainless steel shaft

Dynamically balanced rotor encapsulated in stainless steel

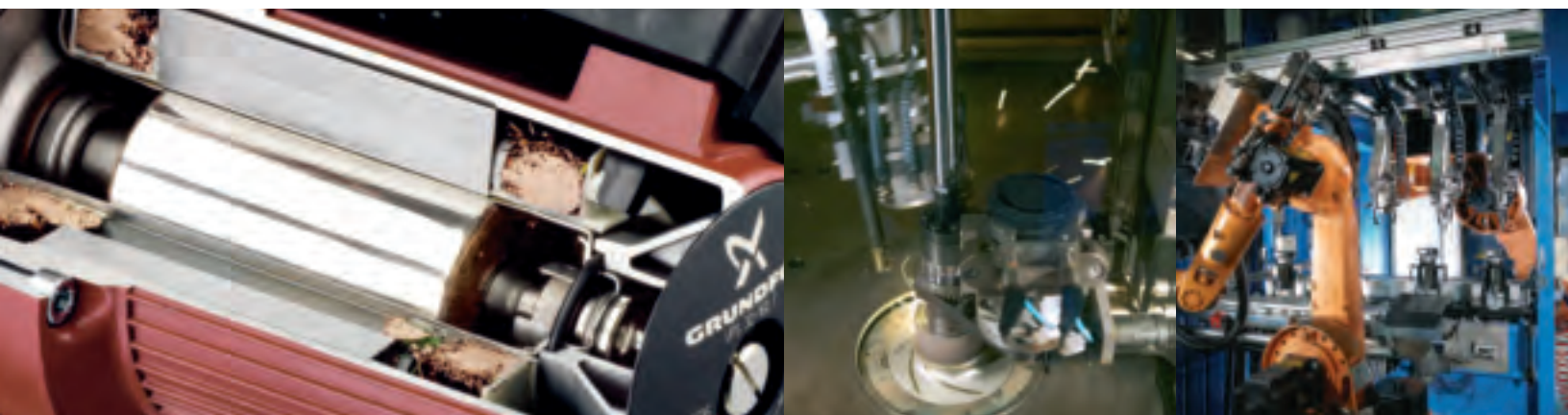
Stainless steel impeller and bearing plate for corrosion resistance and maximum efficiency

Cast-iron or bronze pump housing

Stator with built-in thermal overload switch

**Drop-In Replacement**

Port-to-port length matches competitors' three-piece models



## THE QUIET REVOLUTION IN PUMP SOLUTIONS



### Terminal Box

- › Multiple-speed switch for optimum performance and energy savings
- › Fiber optic indicator lights for visual inspection of operation (On/Off), rotation, and troubleshooting

### Add-On Modules (More for Less!)

Increase the versatility of your pump and reduce the need for, and cost of, buying additional pumps

- › Protection Module – enables direct connection to the mains switch (standard on single-phase motors)
- › Relay Module – features direct connection to mains switch, signals output for external operating or fault indications, and operates two pumps in parallel (duty, standby, and 24-hour alternating operation)

- › Operates at less than 40 db
- › Suitable for variable frequency drive applications (3-phase only)
- › Built-in dimensions to match installed base – no need for piping modifications
- › No risk of touching electrically hot windings or rotating parts

- › Both pump AND motor designed and manufactured by one company – Grundfos
- › Saves energy – pump can be set to required speed rather than running at maximum
- › Pump runs quietly and with no noise – what a revolution!

Manufacturer	Model	Port to Port Length	Flange Size	Grundfos Model	Port to Port Length	Flange Size
<b>B&amp;G</b>	2-1/2"	10"	2-1/2"	UP53-45F <sup>1</sup>	9-7/8"	2"-2.5-3"
	LD3	10"	3"	UP53-45F <sup>1</sup>	9-7/8"	2"-2.5-3"
	HD3	10"	3"	UP53-46F <sup>1</sup>	9-7/8"	2"-2.5-3"
	PD-35	12"	3"	UPS53-55/57F <sup>1</sup>	11-7/8"	2"-2.5-3"
	PD-37	12"	3"	UPS53-55/57F <sup>1</sup>	11-7/8"	2"-2.5-3"
	PD-38	14-1/2"	3"	UPS75-69F <sup>1</sup>	14"	2"-2.5-3"
	PD-40	14-1/2"	3"	UPS50-160/2 <sup>1,2</sup>	14"	2"
	601	11"	1"	UPS32-80/2 <sup>1</sup>	11"	3/4" to 1-1/2"
	602	11"	1"	UPS32-80/2 <sup>1</sup>	11"	3/4" to 1-1/2"
	603	11"	1"	UPS50-80/2 <sup>1,2</sup>	11-1/2"	2"
	604	11"	1-1/4"	UPS32-80/2 <sup>1</sup>	11"	3/4" to 1-1/2"
	609	11-1/2"	1-1/2"	UPS40-160/2 <sup>1</sup>	11-1/2"	1-1/2"
	610	11-1/2"	2"	UPS50-80/4 <sup>1</sup>	11-1/2"	2"
	621	13-1/2"	2"	UPS40-80/4	13-1/2"	1-1/2"
	614	13-1/2"	1-1/2"	UPS40-240/2	13-1/2"	1-1/2"
	615	13-1/2"	2"	UPS50-160/2	14"	2"
	616	13-1/2"	2"	UPS50-160/2	14"	2"
	622	13-1/2"	1-1/2"	UPS32-160/2	13-1/2"	1-1/2"
	623	13-1/2"	1-1/2"	UPS40-240/2	13-1/2"	1-1/2"
	617	13-1/2"	1-1/2"	UPS40-240/2	13-1/2"	1-1/2"
	624	14"	2"	UPS50-160/2	14"	2"
	625	14"	2"	UPS50-240/2	14"	2"
	60-11	11"	1-1/4"	UPS32-80/2 <sup>1</sup>	11"	3/4" to 1-1/2"
	60-13	11-1/2"	1-1/2"	UPS40-160/2 <sup>1</sup>	11-1/2"	1-1/2"
	60-14	11-1/2"	2"	UPS50-80/2 <sup>1</sup>	11-1/2"	2"
	60-15	13-1/2"	1-1/2"	UPS32-160/2	13-1/2"	3/4" to 1-1/2"
	60-16	13-1/2"	1-1/2"	UPS32-160/2	13-1/2"	3/4" to 1-1/2"
60-17	13-1/2"	1-1/2"	UPS40-240/2	13-1/2"	1-1/2"	
60-19	14"	2"	UPS50-160/2	14"	2"	
60-20	14"	2"	UPS50-160/2	14"	2"	
60-21	14"	2"	UPS50-240/2	14"	2"	
<b>TACO</b>	120	11"	2"	UPS32-40/4 <sup>1,2</sup>	11"	3/4" to 1-1/2"
	131	13-5/8"	3"	UP53-45F <sup>1,2</sup>	10"	2"
	133	13-5/8"	3"	UPS53-55/57 <sup>1,2</sup>	11-7/8"	3"
	1600	10-1/4"	1-1/2"	UPS32-80/2 <sup>1</sup>	11"	1-1/2"
	1610	10-1/4"	1-1/2"	UPS32-80/2 <sup>1</sup>	11"	1-1/2"
	1612	13-1/2"	1-1/2"	UPS32-160/2 <sup>1</sup>	13-1/2"	1-1/2"
	1614	13-1/2"	1-1/2"	UPS32-160/2 <sup>1</sup>	13-1/2"	1-1/2"
	1616	14-1/2"	2"	UPS40-240/2 <sup>1,2</sup>	13-1/2"	1-1/2"
	1630	13-1/2"	2"	UPS50-80/4 <sup>1,2</sup>	11-1/2"	2"
	1632	13-1/2"	2"	UPS50-160/2 <sup>1</sup>	14"	2"
	1634	13-1/2"	2"	UPS50-160/2 <sup>1</sup>	14"	2"
	1636	16-1/2"	2"	UPS50-240/2 <sup>1,2</sup>	14"	2"
	1638	16-1/2"	2"	UPS50-240/2 <sup>1,2</sup>	14"	2"

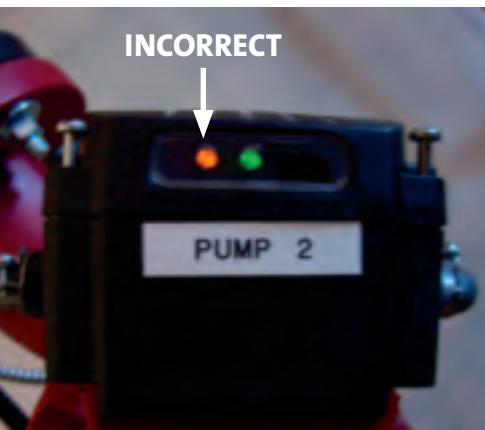
# PUMP CROSS REFERENCE GUIDE

Manufacturer	Model	Port to Port Length	Flange Size	Grundfos Model	Port to Port Length	Flange Size
<b>ARMSTRONG</b>	ARMflo E21	8-1/2"	1-1/2"	UP43-110F	8-1/2"	1-1/2"
	ARMflo E23	8-1/2"	1-1/2"	UP43-110F	8-1/2"	1-1/2"
	S 45	10"	2-1/2" - 3"	UP53-45F <sup>1</sup>	9-7/8"	2" - 2-1/2" - 3"
	S 46	10"	2-1/2" - 3"	UP53-46F <sup>1</sup>	9-7/8"	2" - 2-1/2" - 3"
	S 55	12"	3"	UPS53-55/57F <sup>1</sup>	11-7/8"	2" - 2-1/2" - 3"
	S 57	12"	3"	UPS53-55/57F <sup>1</sup>	11-7/8"	2" - 2-1/2" - 3"
	S 69	14-1/4"	3"	UPS75-69F <sup>1</sup>	14"	2" - 2-1/2" - 3"
	H51	11-1/2"	1"	UPS32-80/2 <sup>1,2</sup>	11"	2" - 2-1/2" - 3"
	H52	11-1/2"	1"	UPS32-80/2 <sup>1,2</sup>	11"	3/4" to 1-1/2"
	H53	11-1/2"	1-1/2"	UPS40-160/2 <sup>1</sup>	11-1/2"	1-1/2"
	H54	11-1/2"	2"	UPS50-80/2 <sup>1</sup>	11-1/2"	2-1/2"
	H63	13-1/2"	1-1/2"	UPS32-160/2 <sup>1</sup>	13-1/2"	1-1/2"
	H64	13-1/2"	1-1/2"	UPS32-160/2 <sup>1</sup>	13-1/2"	1-1/2"
	H65	13-1/2"	1-1/2"	UPS40-240/2 <sup>1</sup>	13-1/2"	1-1/2"
	H66	14"	2"	UPS50-160/2 <sup>1</sup>	14"	2"
	H67	14"	2"	UPS50-160/2 <sup>1</sup>	14"	2"
	H68	14"	2"	UPS50-240/2 <sup>1</sup>	14"	2"
	1050 1B (1/4 HP)	11-1/2"	1"	UPS32-80/2 <sup>1,2</sup>	11"	3/4" to 1-1/2"
	1050 1-1/4B (1/4 HP)	11-1/2"	1-1/4"	UPS32-80/2 <sup>1,2</sup>	11"	3/4" to 1-1/2"
	1050 1-1/2B (1/4 HP)	11-1/2"	1-1/2"	UPS32-80/2 <sup>1,2</sup>	11"	3/4" to 1-1/2"
	1050 2B (1/3 HP)	11-1/2"	2"	UPS50-80/4 <sup>1</sup>	11-1/2"	2"
	1050 2B (1/2 HP)	11-1/2"	2"	UPS50-80/4 <sup>1</sup>	11-1/2"	2"
	1050 2B (3/4 HP)	11-1/2"	2"	UPS50-80/4 <sup>1</sup>	11-1/2"	2"
	1060 1-1/2D (1/2 HP)	13-1/2"	1-1/2"	UPS32-160/2 <sup>1</sup>	13-1/2"	1-1/2"
	1060 1-1/2D (3/4 HP)	13-1/2"	1-1/2"	UPS32-160/2 <sup>1</sup>	13-1/2"	1-1/2"
	1060 1-1/2D (1-1/2 HP)	13-1/2"	1-1/2"	UPS40-240/2 <sup>1</sup>	13-1/2"	1-1/2"
	1060 2D (3/4 HP)	14"	2"	UPS50-160/2 <sup>1</sup>	14"	2"
	1060 2D (1 HP)	14"	2"	UPS50-160/2 <sup>1</sup>	14"	2"
	1060 2D (1-1/2 HP)	14"	2"	UPS50-160/2 <sup>1</sup>	14"	2"
	1060 2D (2 HP)	14"	2"	UPS50-240/2 <sup>1</sup>	14"	2"

<sup>1</sup>Bronze version to be used in open systems.

<sup>2</sup>Replacement model requires piping and/or flange modification.

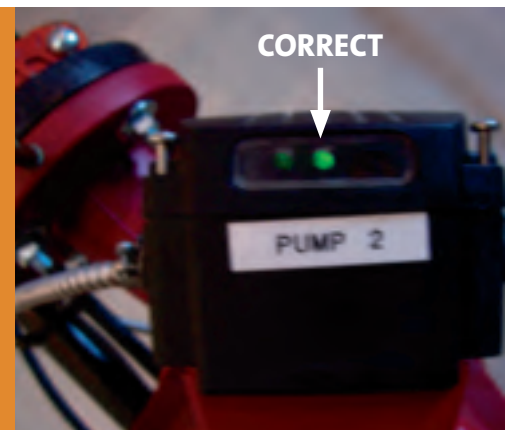
**INCORRECT**



**Are you sure your pump's electrical connections are correct?**

With Grundfos' large UPS, the red indicator light on the terminal box tells you the pump is rotating incorrectly.

**CORRECT**



## **GLOBAL IMPACT**

Grundfos Pumps is a global enterprise with more than 14,000 employees and more than 60 sister companies worldwide. As one of the world's leading pump manufacturers, Grundfos produces more than 10 million pump units annually and specializes in pioneering innovative pumping solutions. Grundfos has a track record of more than 25 years in the U.S. commercial market for wet rotor circulators.

## **MANUFACTURING STANDARDS**

As one of the world's leading suppliers of pump technology, Grundfos has a major influence on the levels of manufacturing standards and operating efficiency that can be achieved with pumps.

Grundfos' manufacturing facilities throughout the world are certified to ISO 9000 standard or higher. Grundfos pumps are exhaustively checked and tested prior to dispatch, and all manufacturing data is fully accessible.

These standards are what allows us to provide customers with efficient, reliable solutions throughout the entire spectrum of heating and air-conditioning systems and in the transfer of fluids used in industrial processes.

## **RELIABILITY AND EFFICIENCY**

Grundfos solutions meet – and often surpass – virtually all customer requirements for reliability and efficiency, from pumps and pump configurations in all size ranges to the control systems and software.

Our pumps are backed by exceptional customer service and support essential for achieving peak reliability and efficiency. It's our guarantee.

L-UPS-SL-01 07/11 (US)  
Subject to alterations

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