

DW/UP/UPS GLANDLESS IN-LINE CIRCULATORS

For hot water service circulation in domestic, commercial and industrial applications.



GRUNDFOS



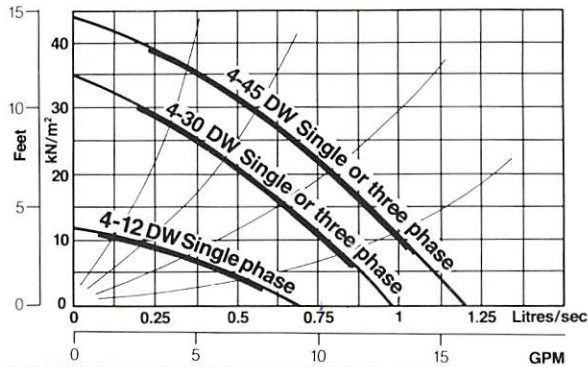
TECHNICAL DATA DW/UP/UPS

The nine models in this range have been designed to circulate water in HWS systems for domestic, commercial, industrial and public buildings. They are not recommended for chilled water or pressure boosting applications. Glandless construction with integral motor includes ceramic pump bearings for long life and quiet operation.

SUPER 4DW

Five models which incorporate a stainless steel pump housing for contamination-free hot water have performances designed to cater for HWS systems requiring flows up to 1 litre/sec.

PERFORMANCE CURVES - SUPER 4DW



MAXIMUM OPERATING CONDITIONS - DW

Maximum Operating Temperatures

System Water Temperatures:	°C	110	105	100	90	80
Ambient Temperature:	°C	50	55	60	70	80

Water Temperature Range: (Practical Limit For HWS) +15°C to 60°C

Maximum Working Pressures: 10 bar

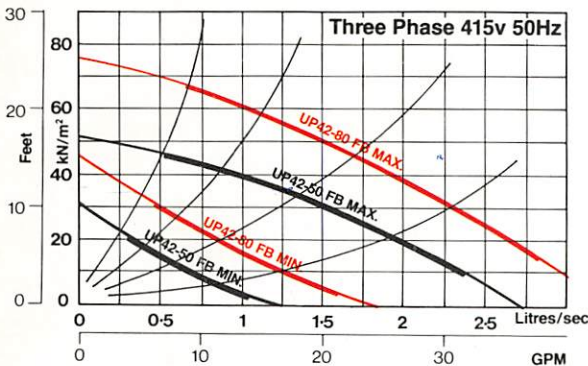
Maximum Ambient Temperature: 80°C

The minimum inlet pressure at 90°C water temperature should be 1.5 metres to avoid cavitation and to ensure quiet running.

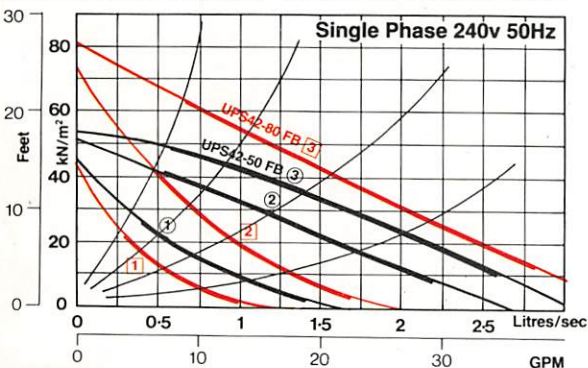
UP/UPS 42-50FB and 42-80FB

The four models in this range are designed for larger HWS systems, requiring flows up to 2.5 litres/sec. Pump construction incorporates a bronze housing in conjunction with a stainless steel impeller. To obtain variable performances, single phase models have three speed motors, whilst three phase versions incorporate hydraulic regulation.

PERFORMANCE CURVES - UP 42-50FB and 42-80FB



PERFORMANCE CURVES - UPS 42-50FB and 42-80FB



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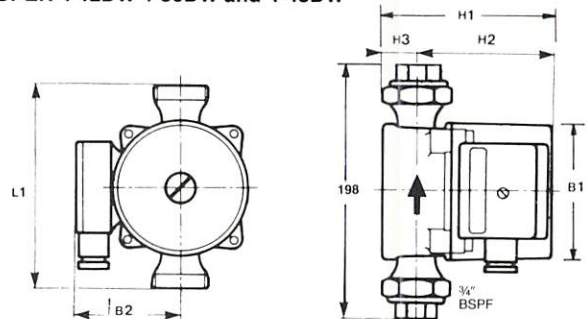
ELECTRICAL DATA

Pump Model	Input Power (W)	Motor Speed (RPM)	Electrical Supply (50Hz)	Full Load Current (A)	Locked Rotor Current (A)	Capacitor μ F
Super 4-12DW	60	1400	1 x 240v	0.28	0.36	2.5
Super 4-30DW	85	2550	1 x 240v	0.40	0.59	2.5
Super 4-30DW	105	2700	3 x 415v	0.23	0.45	-
Super 4-45DW	115	2700	1 x 240v	0.48	0.97	3.0
Super 4-45DW	120	2750	3 x 415v	0.27	0.56	-

DIMENSIONS AND WEIGHTS

Pump Type	L1	B1	B2	H1	H2	H3	Gross Weight kg
Super 4-12DW	150	99	82	128	102	26	3.2
Super 4-30DW	150	99	82	128	102	26	3.2
Super 4-45DW	150	99	82	149	123	26	4.85

SUPER 4-12DW 4-30DW and 4-45DW



MAXIMUM OPERATING CONDITIONS - UP/UPS

Maximum Operating Temperatures

System Water Temperatures:	°C	110	105	100	90	80
Ambient Temperature:	°C	50	55	60	70	80

Water Temperature Range: (Practical Limit For HWS) +15°C to 60°C

Maximum Working Pressures: 6 bar

Maximum Ambient Temperature: 80°C

The minimum inlet pressure at 90°C water temperature should be 2.5 metres to avoid cavitation and to ensure quiet running.

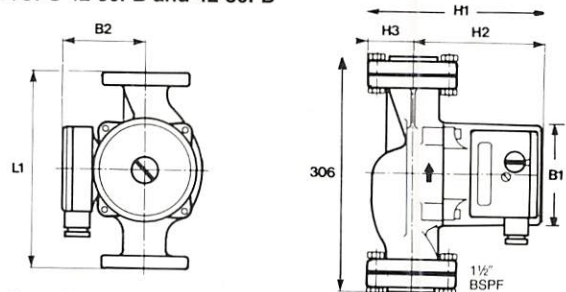
ELECTRICAL DATA

Pump Model	Input Power (W)			Motor Speed (RPM)			Full Load Current (A)			Locked Rotor Current (A)			Capacitor μ F
	Speed 1	Speed 2	Speed 3	Speed 1	Speed 2	Speed 3	Speed 1	Speed 2	Speed 3	Speed 1	Speed 2	Speed 3	
UPS 42-50FB-1Ph	80	125	140	1050	1650	2400	0.39	0.57	0.62	0.43	0.67	0.93	3.0
UP 42-50FB-3Ph	-	-	160	-	-	2700	-	-	0.29	-	-	0.86	-
UPS 42-80FB-1Ph	145	215	250	1100	1700	2450	0.62	0.91	1.0	0.70	1.10	1.51	5.0
UP 42-80FB-3Ph	-	-	280	-	-	2650	-	-	0.50	-	-	1.31	-

DIMENSIONS AND WEIGHTS

Pump Type	L1	B1	B2	H1	H2	H3	Gross Weight kg
UP/UPS 42-50FB	250	130	82	184	129	55	7.8
UP/UPS 42-80FB	250	130	82	186	131	55	7.8

UP/UPS 42-50FB and 42-80FB



It is the continuing policy of Grundfos to develop and improve our products, and we reserve the right to amend prices and specification without prior notice.

DW/UP/UPS 2.88

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