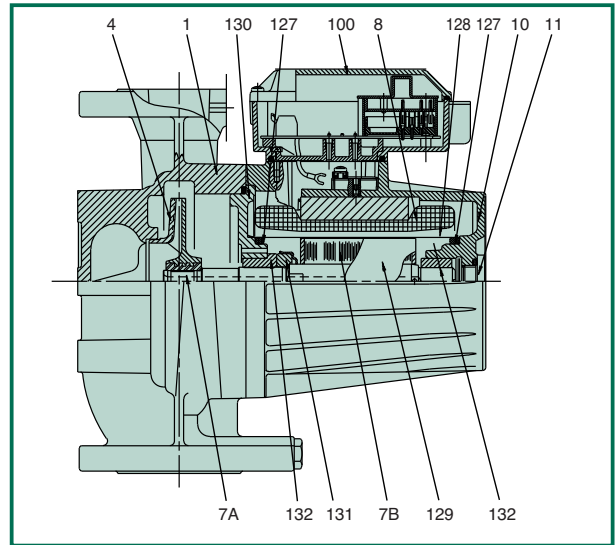




# CIRCULATORS FOR HEATING AND AIR-CONDITIONING SYSTEMS

## TECHNICAL DATA

N.	PARTS	MATERIALS
1	PUMP BODY	CAST IRON 200 UNI ISO 185
4	IMPELLER	TECHNOPOLYMER B
7A	DRIVE SHAFT	STAINLESS STEEL AISI 420 C hard. and temp.
7B	ROTOR	-
8	STATOR	-
10	MOTOR CASING	DIE CAST ALUMINIUM
11	AIR OUTLET CAP	BRASS P Cu Zn 40 Pb2 UNI 5705
100	TERMINAL BOARD BOX	-
127	O-RING	E.P.D.M (EPDM)
128	STATOR SLEEVE	STAINLESS STEEL AISI 321 hard. and temp. - AISI 304
129	ROTOR SLEEVE	STAINLESS STEEL AISI 321 hard. and temp. - AISI 304
130	CLOSING FLANGE	CAST IRON 200 UNI ISO 185
131	THRUST BOX SUPPORT	STAINLESS STEEL AISI 304 L
132	BRUSHINGS	CARBON EC 941



- Operating range:** from 1.5 to 78 m<sup>3</sup>/h with head up to 18 metres.
- Liquid temperature range:** For three-phase versions: from -10°C to +120°C  
For models BPH – DPH 150/340.65 T e BPH – DPH 150/360.80 T;  
BPH – DPH 150-180/280.50 T; BPH – DPH 180/340.65;  
BPH – DPH 180/360.80 T: from -10°C to +110°C  
For model BPH 120/280.50 M: from -10°C to +90°C.  
For single-phase versions: from -10°C to +110°C.
- Characteristics of pumped liquid:** clean, free from solids and mineral oils, non viscous, chemically neutral, close to the characteristics of water (max. glycol 30%).
- Maximum operating pressure:** 10 bar (1000 kPa)
- Standard flanging:** DN 40, DN 50, DN 65, DN 80 in PN 6 / PN 10 (4 slots)
- Minimum head pressure:** values are shown in the relative tables.
- Installation:** with MOTOR AXIS HORIZONTAL on the delivery or return piping, with intake port as near as possible to the expansion tank, higher than the maximum level of the boiler and as far away as possible from bends, elbows and unions, in order to prevent water turbulence and consequent noisiness.
- Special versions on request:** other voltages and/or frequencies.  
Flanging DN 80 in PN 10 / PN 16 (8 holes)
- Accessories:** threaded counter flanges in PN 10  
measuring DN 40 - DN 50 - DN 65 - DN 80.

### POSITION OF TERMINAL BOARD

Single		Twin versions	
DN 40-50-65-80	DN 65-80	DN 65-80	DN 40-50-65-80

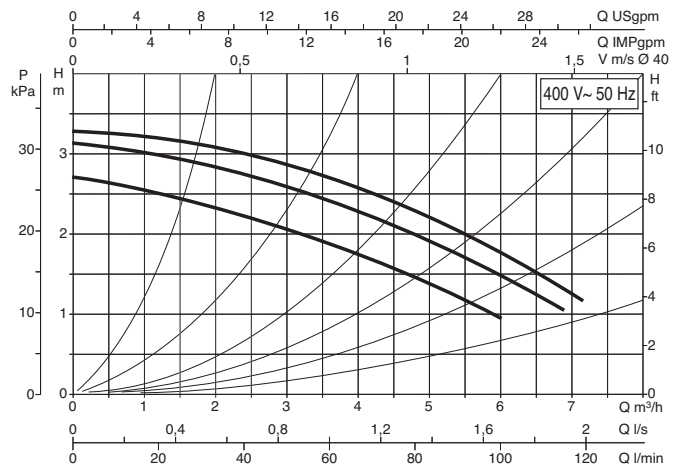
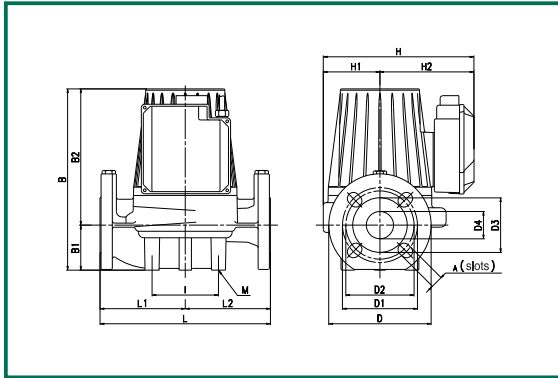
\* For installations in air-conditioning systems only use the circulator in the terminal board positions marked with the asterisk.

Performance curves based on kinematic viscosity values equal to 1 mm<sup>2</sup>/s at a density equal to 1000 kg/m<sup>3</sup>. Curve tolerance in accordance with ISO9906.

# CIRCULATORS FOR HEATING AND AIR-CONDITIONING SYSTEMS

Liquid temperature range: from -10°C to +120°C  
 Maximum operating pressure: 10 bar (1000 kPa)

## BMH 30/250.40 T SINGLE FLANGED - THREE-PHASE (1400 r.p.m.)

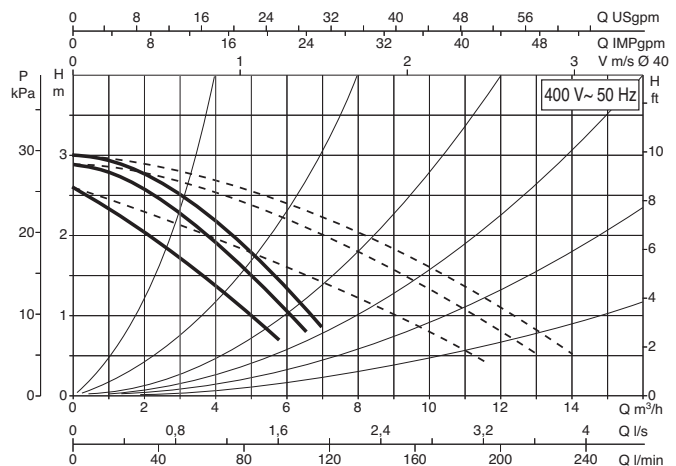
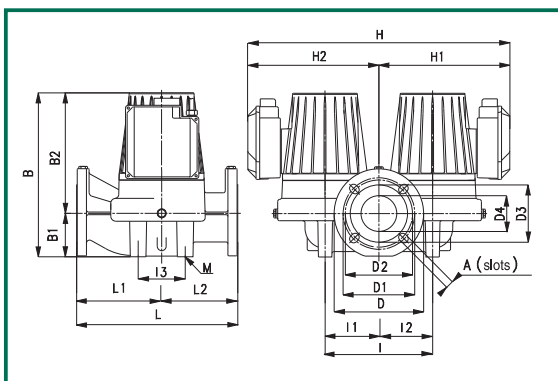


Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT	
																					L	B	H	m <sup>3</sup>	Kg
250	125	125	18	266	66	200	150	110	100	80	40	100	-	-	-	M10	221	83	138	360	295	320	0,033	17,5	

MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE				
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°
BMH 30/250.40 T	3x230 V ~	250	DN 40 - PN 10	2	1340	100	0.48	mt.	0.9	4	-	18
				1	1260	88	0.39					
	3			1440	192	0.78						
	2			1430	155	0.58						
	1			1260	88	0.23						

## DMH 30/250.40 T TWIN FLANGED - THREE-PHASE (1400 r.p.m.)



Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT	
																					L	B	H	m <sup>3</sup>	Kg
250	105	145	18	271	66	205	150	110	100	80	40	200	100	100	100	M12	476	238	238	520	300	295	0,046	32	

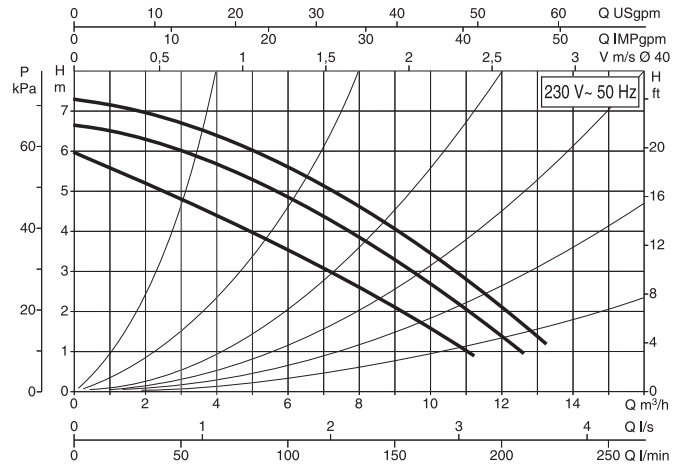
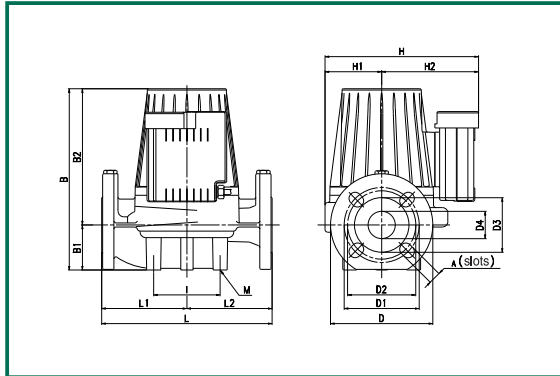
MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE				
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°
DMH 30/250.40 T	3x230 V ~	250	DN 40 - PN 10	2	1340	100	0.48	mt.	0.9	4	-	18
				1	1260	88	0.39					
	3			1440	192	0.78						
	2			1430	155	0.58						
	1			1260	88	0.23						

Performance curves based on kinematic viscosity values equal to 1 mm<sup>2</sup>/s at a density equal to 1000 kg/m<sup>3</sup>. Curve tolerance in accordance with ISO9906.

# CIRCULATORS FOR HEATING AND AIR-CONDITIONING SYSTEMS

Liquid temperature range: from -10°C to +120°C  
 Maximum operating pressure: 10 bar (1000 kPa)

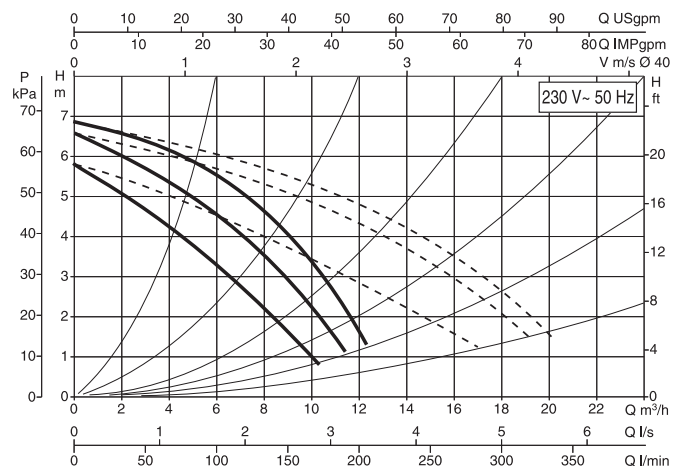
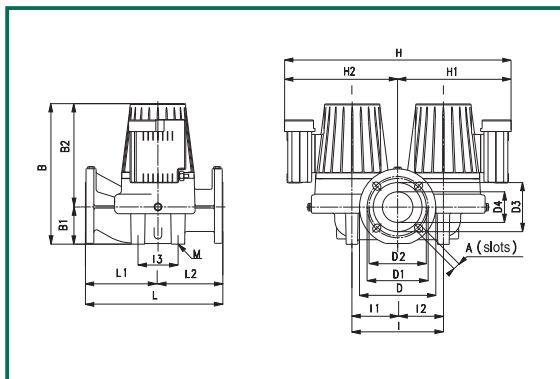
## BPH 60/250.40 M SINGLE FLANGED - SINGLE-PHASE (2800 r.p.m.)



L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																			L	B	H	m <sup>3</sup>	Kg	
250	125	125	18	266	66	200	150	110	100	80	40	100	-	-	-	M10	221	83	138	360	295	320	0,033	17,5

MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA			MINIMUM HEAD PRESSURE						
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°	
BPH 60/250.40 M	1x230 V ~	250	DN 40 - PN 10	-	-	-	-	-	-	-	-	-	-
				3	2830	316	1.43	mt.	1.6	4	14	-	
				2	2750	309	1.53						
				1	2410	292	1.51						

## DPH 60/250.40 M TWIN FLANGED - SINGLE-PHASE (2800 r.p.m.)



L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																			L	B	H	m <sup>3</sup>	Kg	
250	105	145	18	271	66	205	150	110	100	80	40	200	100	100	100	M12	476	238	238	520	300	295	0,046	32

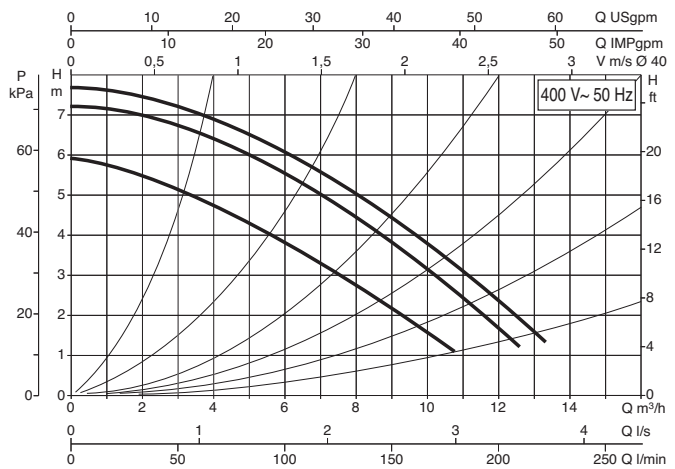
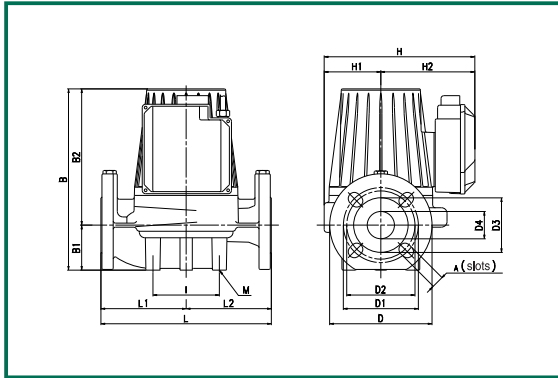
MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA			MINIMUM HEAD PRESSURE						
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°	
DPH 60/250.40 M	1x230 V ~	250	DN 40 - PN 10	-	-	-	-	-	-	-	-	-	-
				3	2830	316	1.43	mt.	1.6	4	14	-	
				2	2750	309	1.53						
				1	2410	292	1.51						

Performance curves based on kinematic viscosity values equal to 1 mm<sup>2</sup>/s at a density equal to 1000 kg/m<sup>3</sup>. Curve tolerance in accordance with ISO9906.

# CIRCULATORS FOR HEATING AND AIR-CONDITIONING SYSTEMS

Liquid temperature range: from -10°C to +120°C  
 Maximum operating pressure: 10 bar (1000 kPa)

## BPH 60/250.40 T SINGLE FLANGED - THREE-PHASE (2800 r.p.m.)

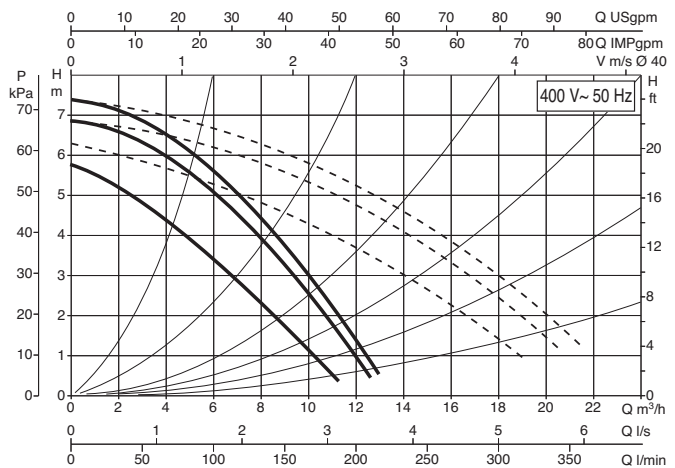
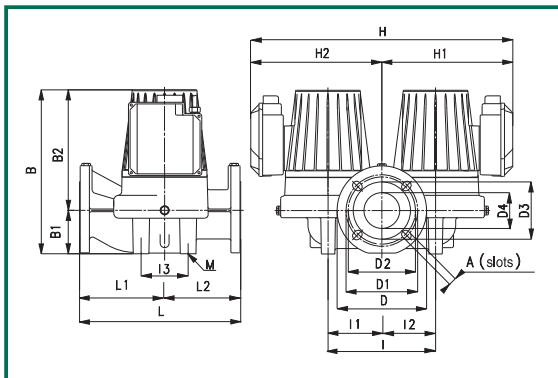


Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
250	125	125	18	266	66	200	150	110	100	80	40	100	-	-	-	M10	221	83	138	360	295	320	0,033	17,5

MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE				
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°
BPH 60/250.40 T	3x230 V ~	250	DN 40 - PN 10	2	2570	253	0.81	mt.	1.6	4	-	19
				1	2420	229	0.72					
	3			2850	348	0.99						
	2			2810	316	0.75						
	1			2430	232	0.42						

## DPH 60/250.40 T TWIN FLANGED - THREE-PHASE (2800 r.p.m.)



Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
250	105	145	18	271	66	205	150	110	100	80	40	200	100	100	100	M12	476	238	238	520	300	295	0,046	32

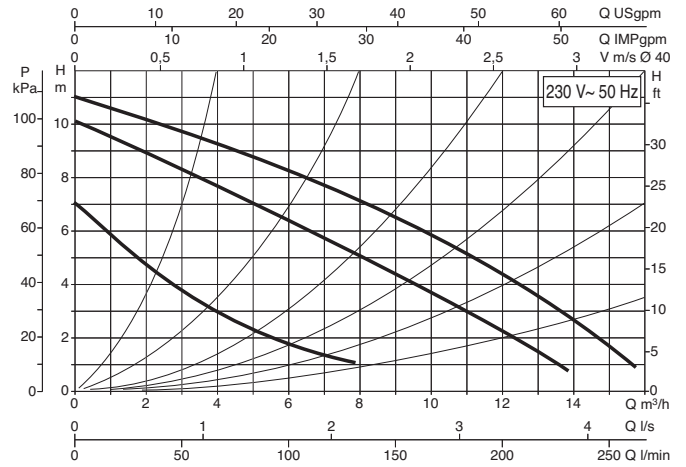
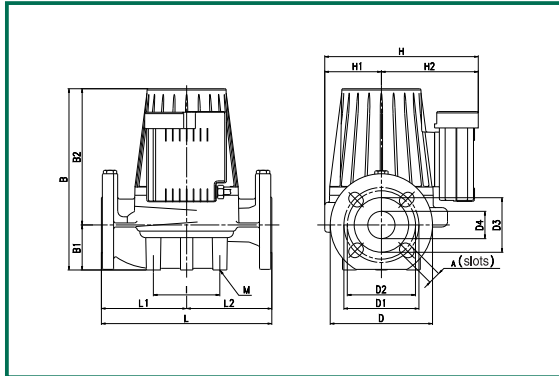
MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE				
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°
DPH 60/250.40 T	3x230 V ~	250	DN 40 - PN 10	2	2570	253	0.81	mt.	1.6	4	-	19
				1	2420	229	0.72					
	3			2850	348	0.99						
	2			2810	316	0.75						
	1			2430	232	0.42						

Performance curves based on kinematic viscosity values equal to 1 mm<sup>2</sup>/s at a density equal to 1000 kg/m<sup>3</sup>. Curve tolerance in accordance with ISO9906.

# CIRCULATORS FOR HEATING AND AIR-CONDITIONING SYSTEMS

Liquid temperature range: from -10°C to +120°C  
 Maximum operating pressure: 10 bar (1000 kPa)

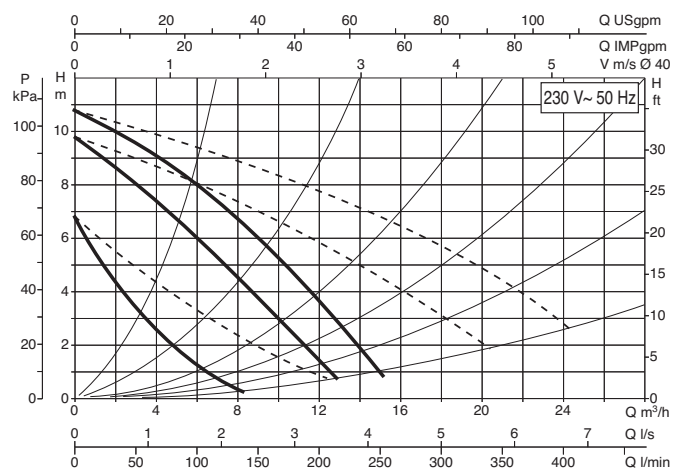
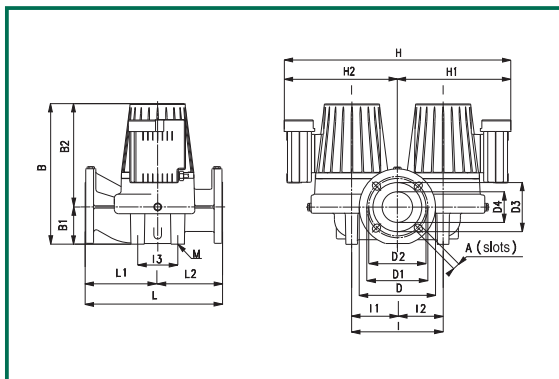
## BPH 120/250.40 M SINGLE FLANGED - SINGLE-PHASE (2800 r.p.m.)



L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
250	125	125	18	266	66	200	150	110	100	80	40	100	-	-	-	M10	221	83	138	360	295	320	0,033	17,5

MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm	FLANGES ON REQUEST	ELECTRICAL DATA				MINIMUM HEAD PRESSURE						
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°		
BPH 120/250.40 M	-	250	DN 40 - PN 10	-	-	-	-	-	-	-	-	-	-	-
	1x230 V ~			3	2650	510	2.24	mt.	6	9	18	-		
				2	2320	498	2.35							
				1	1520	376	1.96							

## DPH 120/250.40 M TWIN FLANGED - SINGLE-PHASE (2800 r.p.m.)



L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
250	105	145	18	271	66	205	150	110	100	80	40	200	100	100	100	M12	476	238	238	520	300	295	0,046	32

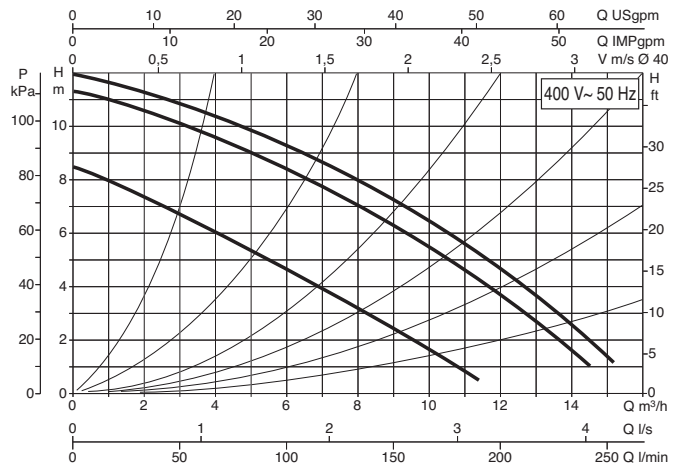
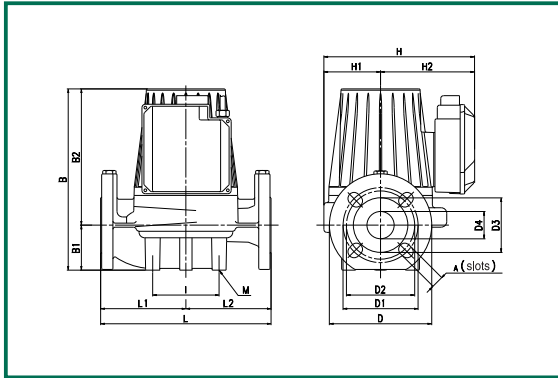
MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm	FLANGES ON REQUEST	ELECTRICAL DATA				MINIMUM HEAD PRESSURE						
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°		
DPH 120/250.40 M	-	250	DN 40 - PN 10	-	-	-	-	-	-	-	-	-	-	-
	1x230 V ~			3	2650	510	2.24	mt.	6	9	18	-		
				2	2320	498	2.35							
				1	1520	376	1.96							

Performance curves based on kinematic viscosity values equal to 1 mm<sup>2</sup>/s at a density equal to 1000 kg/m<sup>3</sup>. Curve tolerance in accordance with ISO9906.

# CIRCULATORS FOR HEATING AND AIR-CONDITIONING SYSTEMS

Liquid temperature range: from -10°C to +120°C  
 Maximum operating pressure: 10 bar (1000 kPa)

## BPH 120/250.40 T SINGLE FLANGED - THREE-PHASE (2800 r.p.m.)

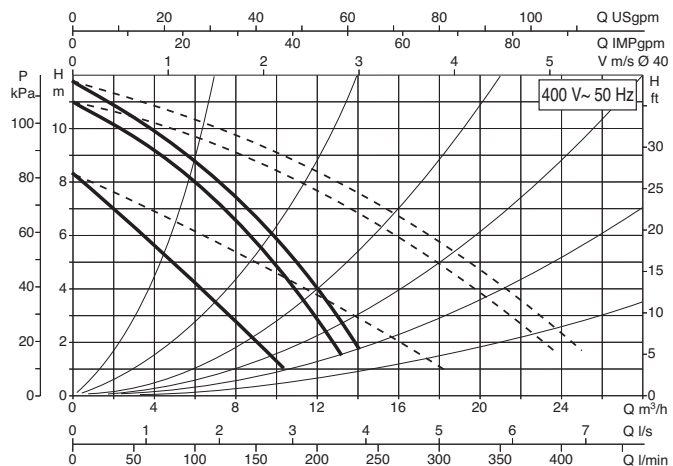
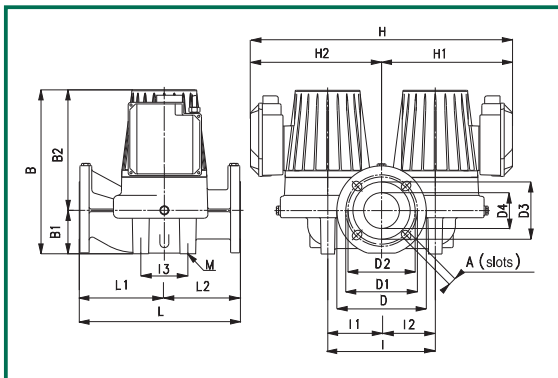


Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
250	125	125	18	266	66	200	150	110	100	80	40	100	-	-	-	M10	221	83	138	360	295	320	0,033	17,5

MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE								
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°				
BPH 120/250.40 T	3x230 V ~	250	DN 40 - PN 10	2	2300	395	1.2	t°	75°	90°	110°	120°				
				1	2070	340	1.07									
	3			2780	536	1.16	mt.						6	9	-	23
	2			2710	499	0.98										
	1			2080	339	0.62										

## DPH 120/250.40 T TWIN FLANGED - THREE-PHASE (2800 r.p.m.)



Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
250	105	145	18	271	66	205	150	110	100	80	40	200	100	100	100	M12	476	238	238	520	300	295	0,046	32

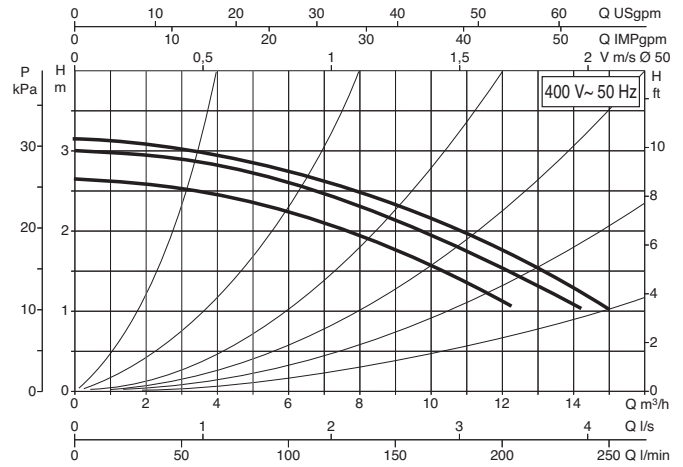
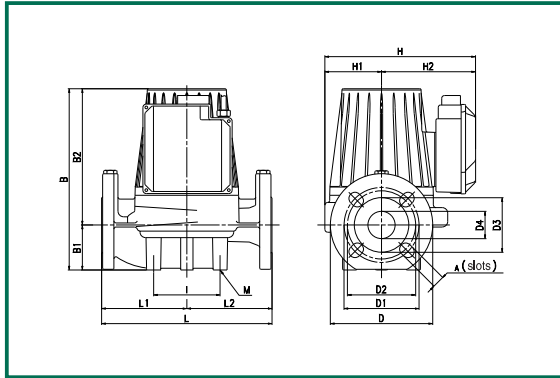
MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE								
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°				
DPH 120/250.40 T	3x230 V ~	250	DN 40 - PN 10	2	2300	395	1.2	t°	75°	90°	110°	120°				
				1	2070	340	1.07									
	3			2780	536	1.16	mt.						6	9	-	23
	2			2710	499	0.98										
	1			2080	339	0.62										

Performance curves based on kinematic viscosity values equal to 1 mm<sup>2</sup>/s at a density equal to 1000 kg/m<sup>3</sup>. Curve tolerance in accordance with ISO9906.

# CIRCULATORS FOR HEATING AND AIR-CONDITIONING SYSTEMS

Liquid temperature range: from -10°C to +120°C  
 Maximum operating pressure: 10 bar (1000 kPa)

## BMH 30/280.50 T SINGLE FLANGED - THREE-PHASE (1400 r.p.m.)

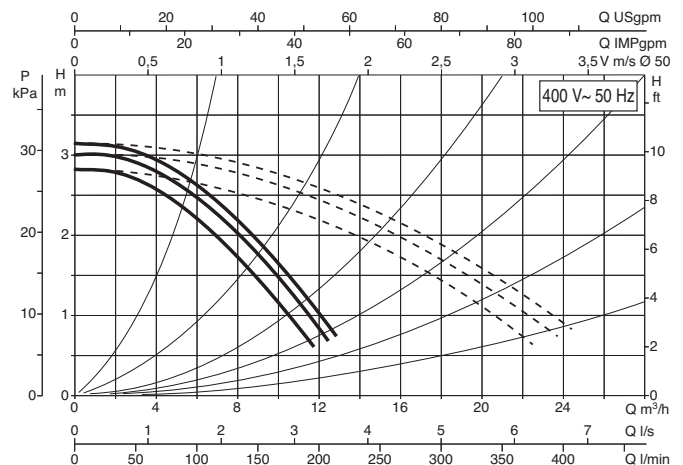
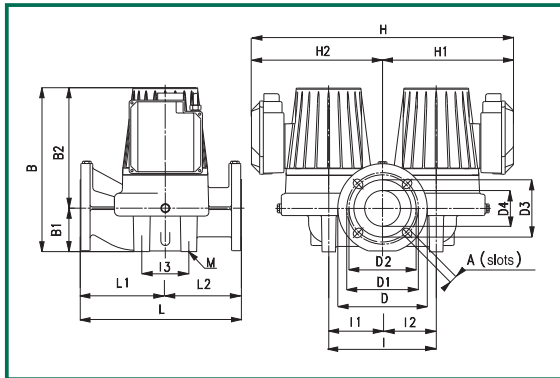


Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
280	140	140	18	312	73	239	165	125	110	90	50	100	-	-	-	M10	254	96	158	360	295	320	0,033	24

MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE				
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°
BMH 30/280.50 T	3x230 V ~	280	DN 50 - PN 10	2	1390	148	0.7	mt.	0.9	4	-	18
				1	1340	134	0.55					
	3	1460	255	1.12								
	2	1450	216	0.83								
	1	1350	131	0.32								

## DMH 30/280.50 T TWIN FLANGED - THREE-PHASE (1400 r.p.m.)



Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
280	130	150	18	305	73	232	165	125	110	90	50	240	120	120	120	M14	552	276	276	590	335	430	0,084	51,5

MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE				
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°
DMH 30/280.50 T	3x230 V ~	280	DN 50 - PN 10	2	1390	148	0.7	mt.	0.9	4	-	18
				1	1340	134	0.55					
	3	1460	255	1.12								
	2	1450	216	0.83								
	1	1350	131	0.32								

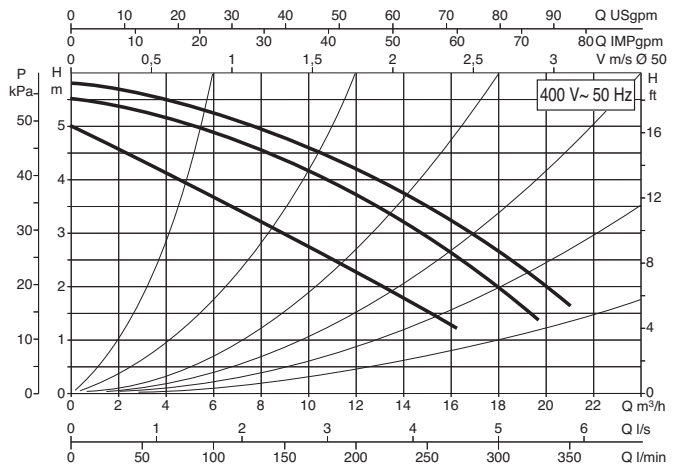
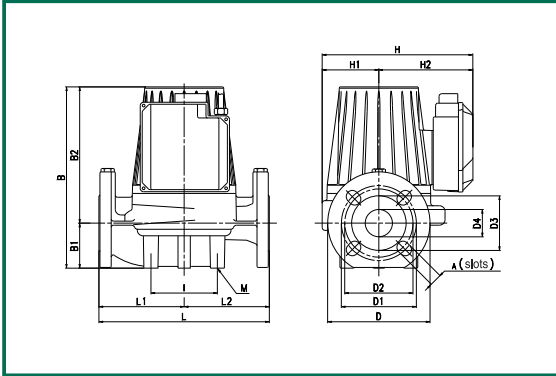


Performance curves based on kinematic viscosity values equal to 1 mm<sup>2</sup>/s at a density equal to 1000 kg/m<sup>3</sup>. Curve tolerance in accordance with ISO9906.

# CIRCULATORS FOR HEATING AND AIR-CONDITIONING SYSTEMS

Liquid temperature range: from -10°C to +120°C  
 Maximum operating pressure: 10 bar (1000 kPa)

## BMH 60/280.50 T SINGLE FLANGED - THREE-PHASE (1400 r.p.m.)

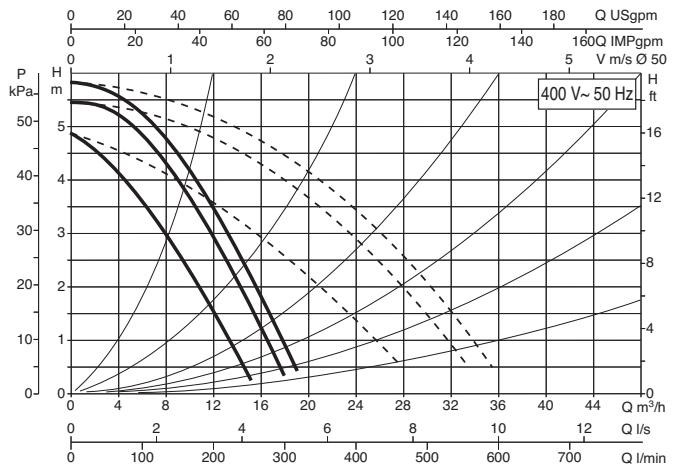
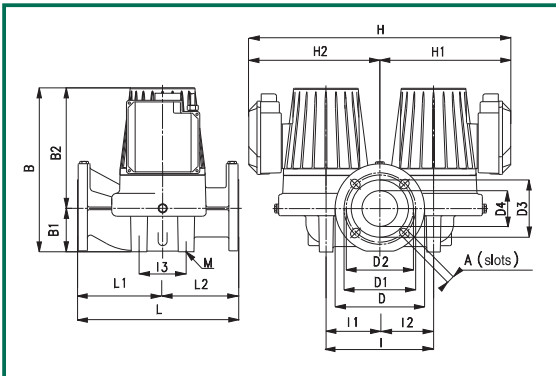


Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
280	140	140	18	312	73	239	165	125	110	90	50	100	-	-	-	M10	254	96	158	360	295	320	0,033	24

MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE						
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°		
BMH 60/280.50 T	3x230 V ~	280	DN 50 - PN 10	2	1210	272	0.94	t°	75°	90°	110°	120°		
				1	1120	240	0.8							
	3	1400	410	1.2	mt.	4	7.5						-	21
	2	1360	367	0.95										
	1	1130	235	0.46										

## DMH 60/280.50 T TWIN FLANGED - THREE-PHASE (1400 r.p.m.)



Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
280	130	150	18	308	73	235	165	125	110	90	50	240	120	120	120	M14	556	278	278	590	335	430	0,084	44,5

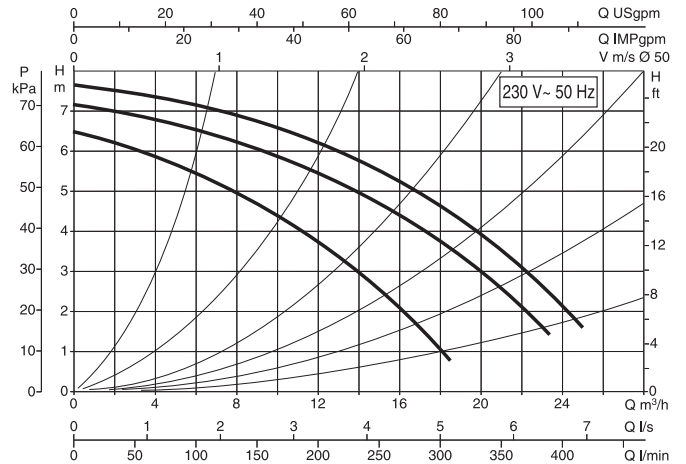
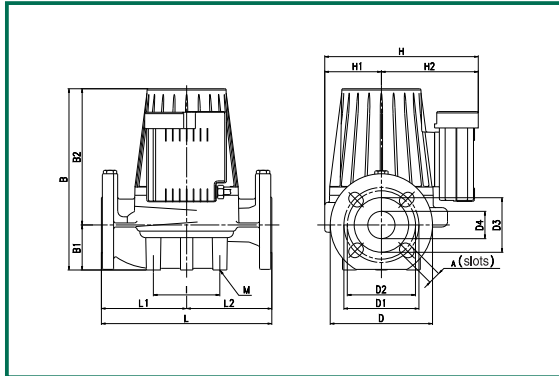
MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE						
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°		
DMH 60/280.50 T	3x230 V ~	280	DN 50 - PN 10	2	1210	272	0.94	t°	75°	90°	110°	120°		
				1	1120	240	0.8							
	3	1400	410	1.2	mt.	4	7.5						-	21
	2	1360	367	0.95										
	1	1130	235	0.46										

Performance curves based on kinematic viscosity values equal to 1 mm<sup>2</sup>/s at a density equal to 1000 kg/m<sup>3</sup>. Curve tolerance in accordance with ISO9906.

# CIRCULATORS FOR HEATING AND AIR-CONDITIONING SYSTEMS

Liquid temperature range: from -10°C to +120°C  
 Maximum operating pressure: 10 bar (1000 kPa)

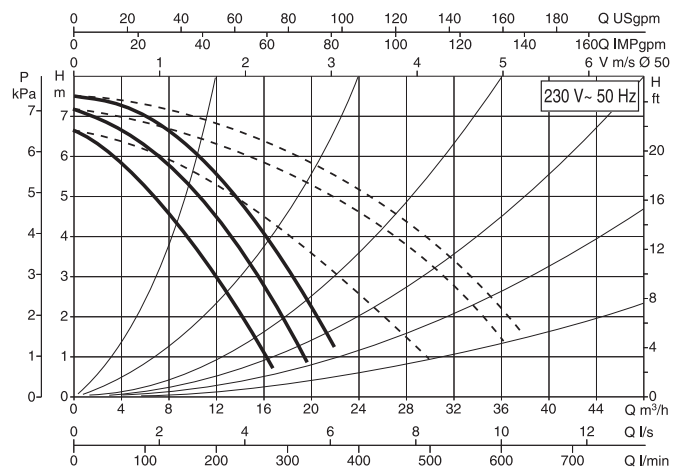
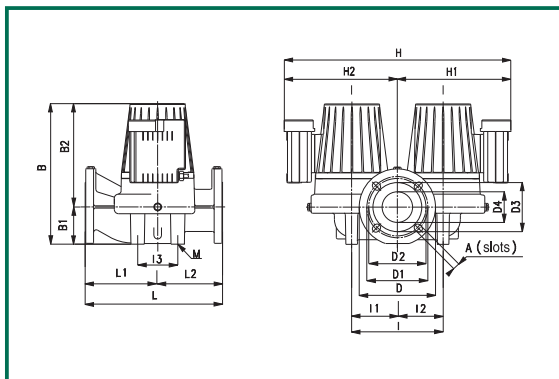
## BPH 60/280.50 M SINGLE FLANGED - SINGLE-PHASE (2800 r.p.m.)



L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
280	140	140	18	312	73	239	165	125	110	90	50	100	-	-	-	M10	254	156	158	360	295	320	0,033	24

MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE					
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°	
BPH 60/280.50 M	1x230 V ~	280	DN 50 - PN 10	-	-	-	-	-	-	-	-	-	-
				3	2840	595	2.79	mt.	1.6	6	14	-	
				2	2730	540	2.45						
				1	2200	506	2.58						

## DPH 60/280.50 M TWIN FLANGED - SINGLE-PHASE (2800 r.p.m.)



L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
280	130	150	18	308	73	235	165	125	110	90	50	240	120	120	120	M14	554	278	278	590	335	430	0,084	44,5

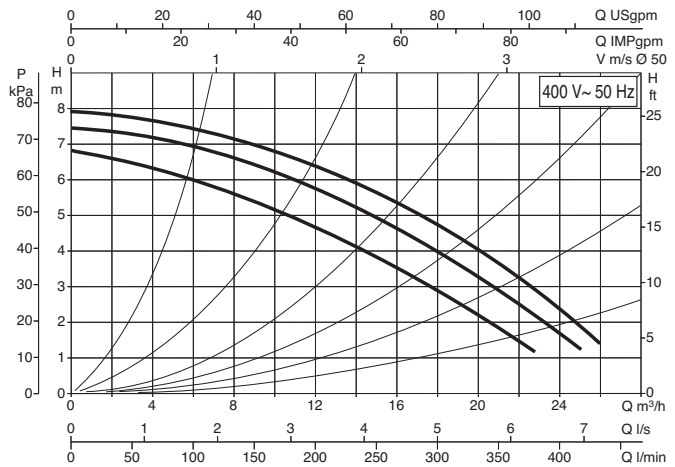
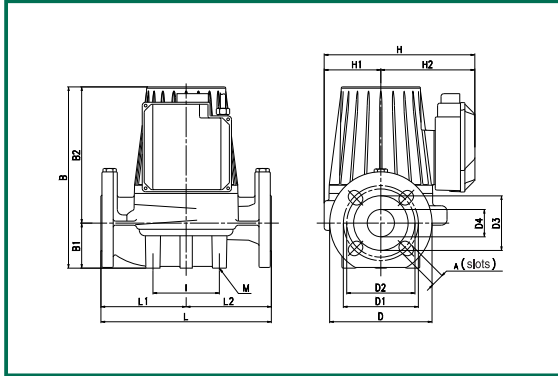
MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE					
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°	
DPH 60/280.50 M	1x230 V ~	280	DN 50 - PN 10	-	-	-	-	-	-	-	-	-	-
				3	2840	595	2.79	mt.	1.6	6	14	-	
				2	2730	540	2.45						
				1	2200	506	2.58						

Performance curves based on kinematic viscosity values equal to 1 mm<sup>2</sup>/s at a density equal to 1000 kg/m<sup>3</sup>. Curve tolerance in accordance with ISO9906.

# CIRCULATORS FOR HEATING AND AIR-CONDITIONING SYSTEMS

Liquid temperature range: from -10°C to +120°C  
 Maximum operating pressure: 10 bar (1000 kPa)

## BPH 60/280.50 T SINGLE FLANGED - THREE-PHASE (2800 r.p.m.)

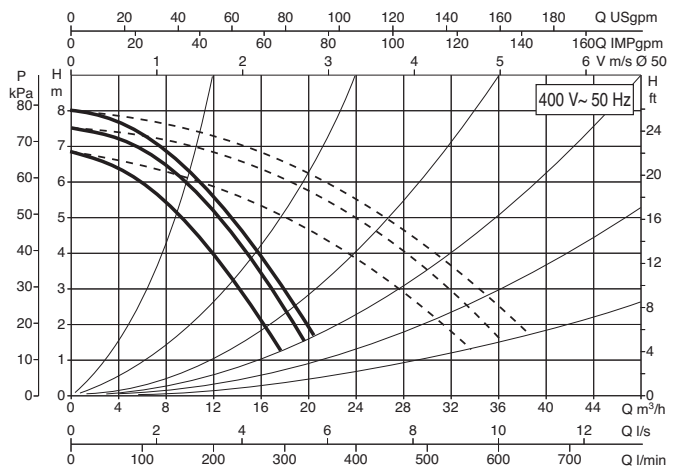
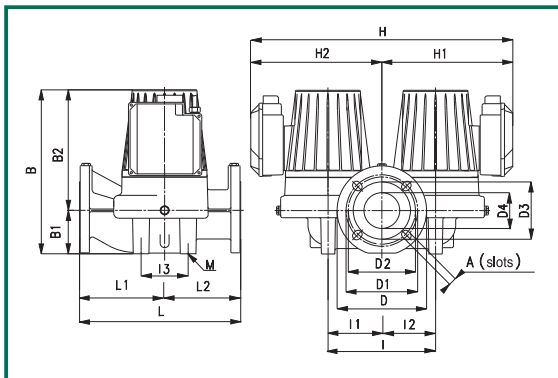


Hydraulic characteristics at 230V are shown from pages 67

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
280	140	140	18	312	73	239	165	125	110	90	50	100	-	-	-	M10	254	156	158	360	295	320	0,033	24

MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE				
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°
BPH 60/280.50 T	3x230 V ~	280	DN 50 - PN 10	2	2670	464	1.35	mt.	1.6	6	-	19
				1	2570	432	1.23					
	3			2890	589	1.31						
	2			2860	546	1.1						
	1			2570	423	0.71						

## DPH 60/280.50 T TWIN FLANGED - THREE-PHASE (2800 r.p.m.)



Hydraulic characteristics at 230V are shown from pages 67

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
280	130	150	18	308	73	235	165	125	110	90	50	240	120	120	120	M14	554	278	278	590	335	430	0,084	44,5

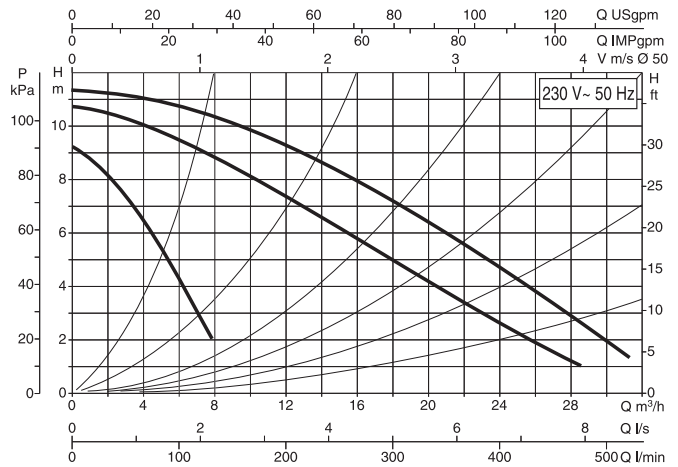
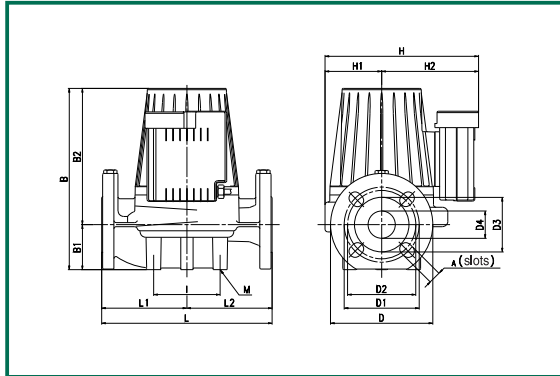
MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE				
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°
DPH 60/280.50 T	3x230 V ~	280	DN 50 - PN 10	2	2670	464	1.35	mt.	1.6	6	-	19
				1	2570	432	1.23					
	3			2890	589	1.31						
	2			2860	546	1.1						
	1			2570	423	0.71						

Performance curves based on kinematic viscosity values equal to 1 mm<sup>2</sup>/s at a density equal to 1000 kg/m<sup>3</sup>. Curve tolerance in accordance with ISO9906.

# CIRCULATORS FOR HEATING AND AIR-CONDITIONING SYSTEMS

Liquid temperature range: from -10°C to +120°C  
 Maximum operating pressure: 10 bar (1000 kPa)

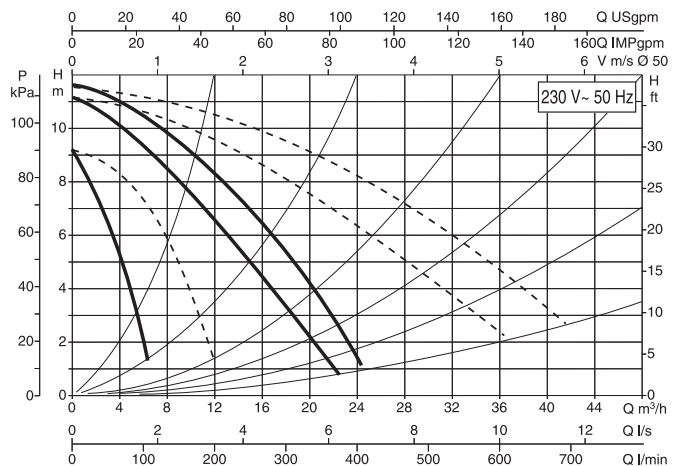
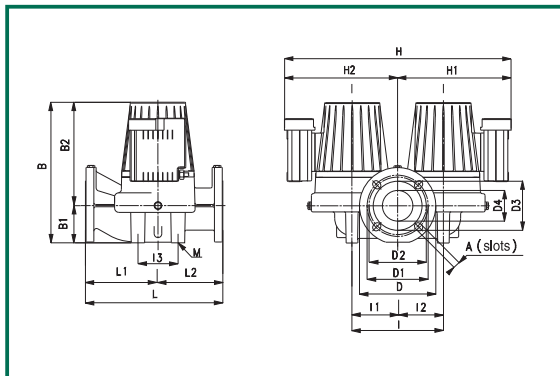
## BPH 120/280.50 M SINGLE FLANGED - SINGLE-PHASE (2800 r.p.m.)



L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
280	140	140	18	312	73	239	165	125	110	90	50	100	-	-	-	M10	254	96	158	360	295	320	0,033	24

MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE															
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°											
BPH 120/280.50 M	-	280	DN 50 - PN 10	-	-	-	-	t°	75°	90°	110°	120°											
	1x230 V ~			3	2690	870	3,97	mt.	2	5	-	20											
				2	2360	800	3,69																
				1	1340	590	3,12																

## DPH 120/280.50 M TWIN FLANGED - SINGLE-PHASE (2800 r.p.m.)



L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
280	130	150	18	308	73	235	165	125	110	90	50	240	120	120	120	M14	556	278	278	590	335	430	0,084	44,5

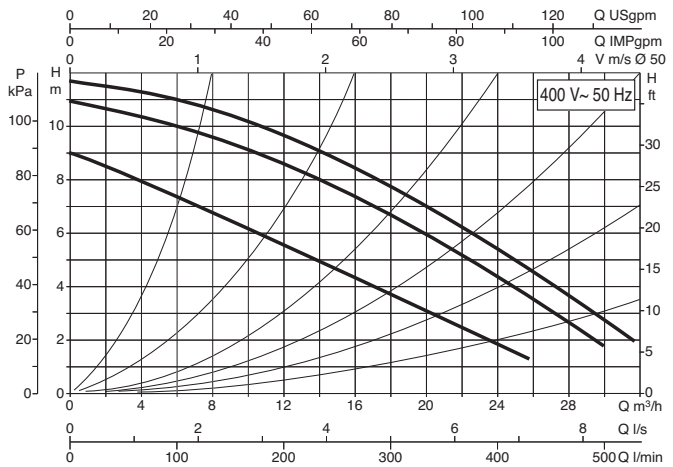
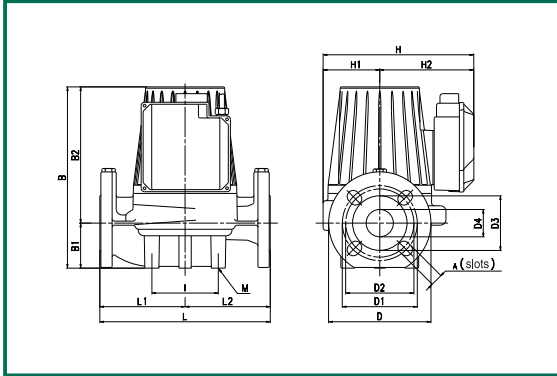
MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE															
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°											
DPH 120/280.50 M	-	280	DN 50 - PN 10	-	-	-	-	t°	75°	90°	110°	120°											
	1x230 V ~			3	2690	870	3,97	mt.	2	5	-	20											
				2	2360	800	3,69																
				1	1340	590	3,12																

Performance curves based on kinematic viscosity values equal to 1 mm<sup>2</sup>/s at a density equal to 1000 kg/m<sup>3</sup>. Curve tolerance in accordance with ISO9906.

# CIRCULATORS FOR HEATING AND AIR-CONDITIONING SYSTEMS

Liquid temperature range: from -10°C to +120°C  
 Maximum operating pressure: 10 bar (1000 kPa)

## BPH 120/280.50 T SINGLE FLANGED - THREE-PHASE (2800 r.p.m.)

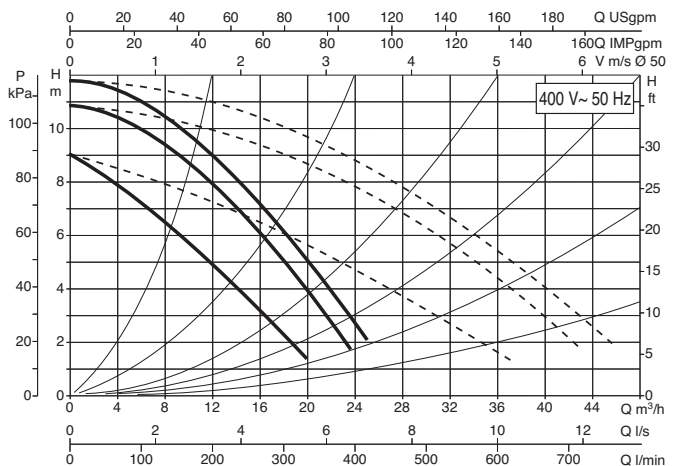
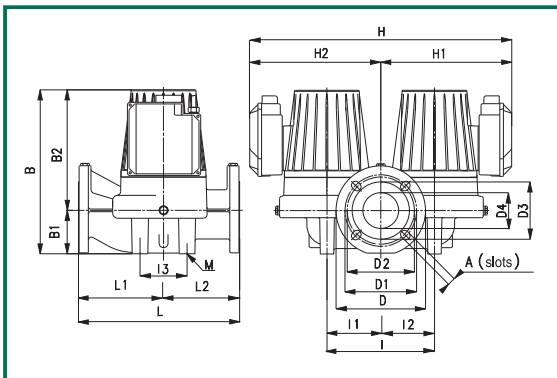


Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
280	140	140	18	312	73	239	165	125	110	90	50	100	-	-	-	M10	254	96	158	360	295	320	0,033	26

MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE				
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°
BPH 120/280.50 T	3x230 V ~	280	DN 50 - PN 10	2	2430	683	1.95	mt.	2	5	-	20
				1	2240	605	1.75					
	3			2810	898	1.67						
	2			2740	840	1.47						
	1			2260	603	1						

## DPH 120/280.50 T TWIN FLANGED - THREE-PHASE (2800 r.p.m.)



Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
280	130	150	18	308	73	235	165	125	110	90	50	240	120	120	120	M14	556	278	278	590	335	430	0,084	49

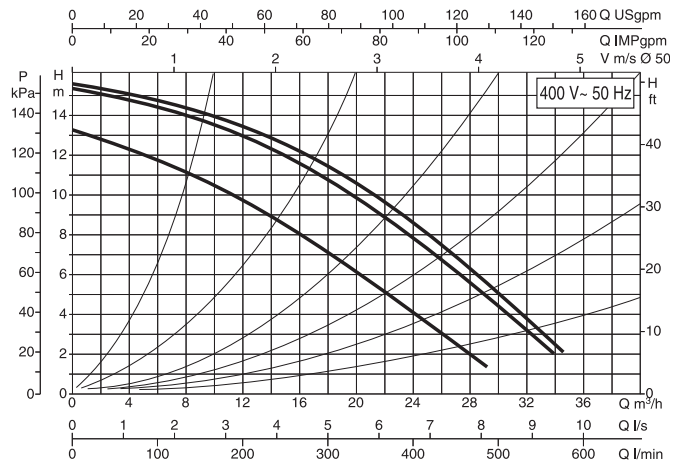
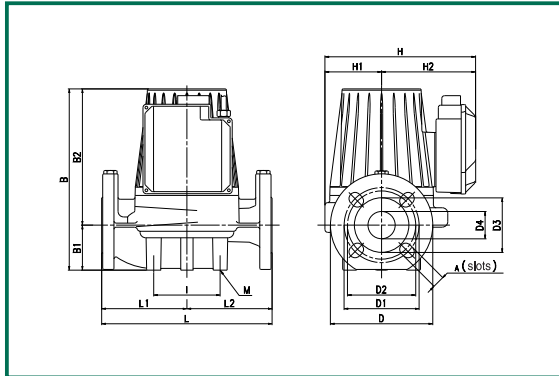
MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE				
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°
DPH 120/280.50 T	3x230 V ~	280	DN 50 - PN 10	2	2430	683	1.95	mt.	2	5	-	20
				1	2240	605	1.75					
	3			2810	898	1.67						
	2			2740	840	1.47						
	1			2260	603	1						

Performance curves based on kinematic viscosity values equal to 1 mm<sup>2</sup>/s at a density equal to 1000 kg/m<sup>3</sup>. Curve tolerance in accordance with ISO9906.

# CIRCULATORS FOR HEATING AND AIR-CONDITIONING SYSTEMS

Liquid temperature range: from -10°C to +120°C  
 Maximum operating pressure: 10 bar (1000 kPa)

## BPH 150/280.50 T SINGLE FLANGED - THREE-PHASE (2800 r.p.m.)

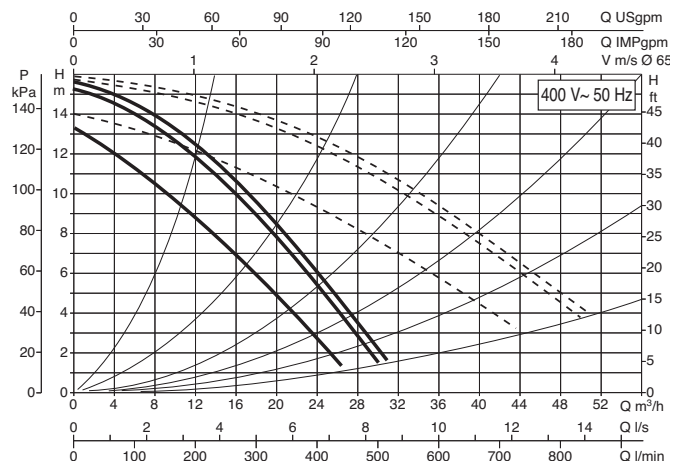
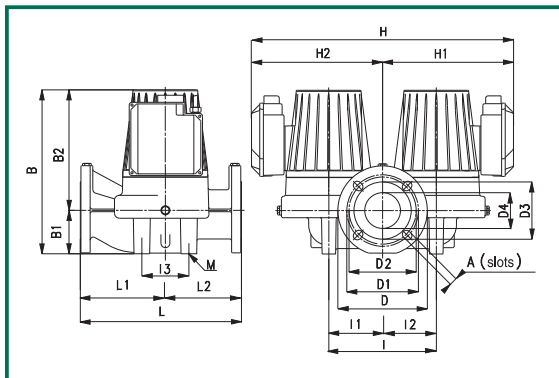


Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
280	140	140	18	362	73	289	165	125	110	90	50	100	-	-	-	M10	254	96	158	360	295	320	0,033	26

MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE				
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°
BPH 150/280.50 T	3x230 V ~	280	DN 50 - PN 10	2	2553	1130	3.22	mt.	2	5	-	20
				1	2420	1032	3					
	3x400 V ~			3	2850	1470	2.9					
				2	2802	1360	2.5					
				1	2425	1030	1.7					

## DPH 150/280.50 T TWIN FLANGED - THREE-PHASE (2800 r.p.m.)



Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
280	130	150	18	358	73	285	165	125	110	90	50	240	120	120	120	M14	556	278	278	590	335	430	0,084	49

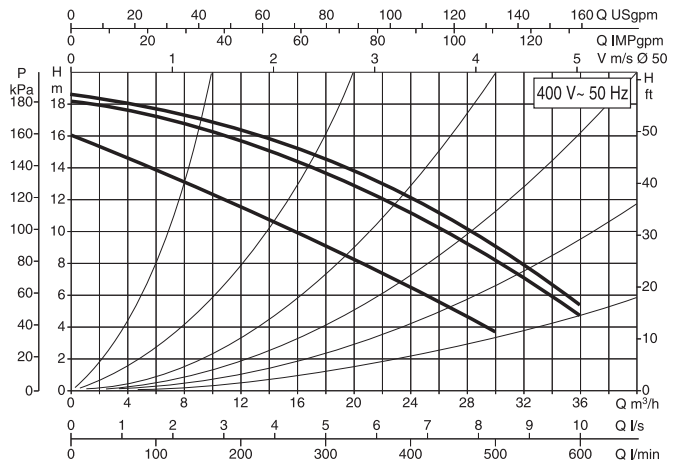
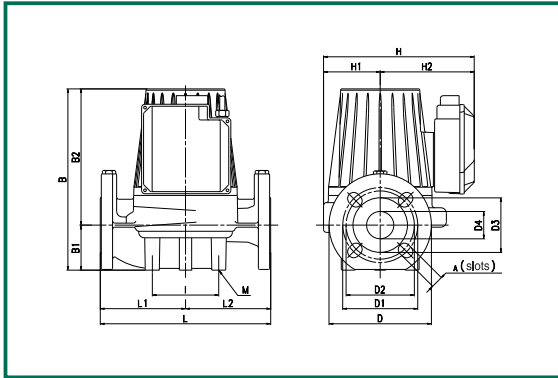
MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE				
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°
DPH 150/280.50 T	3x230 V ~	280	DN 50 - PN 10	2	2553	1130	3.22	mt.	2	5	-	20
				1	2420	1032	3					
	3x400 V ~			3	2850	1470	2.9					
				2	2802	1360	2.5					
				1	2425	1030	1.7					

Performance curves based on kinematic viscosity values equal to 1 mm<sup>2</sup>/s at a density equal to 1000 kg/m<sup>3</sup>. Curve tolerance in accordance with ISO9906.

# CIRCULATORS FOR HEATING AND AIR-CONDITIONING SYSTEMS

Liquid temperature range: from -10°C to +120°C  
 Maximum operating pressure: 10 bar (1000 kPa)

## BPH 180/280.50 T SINGLE FLANGED - THREE-PHASE (2800 r.p.m.)

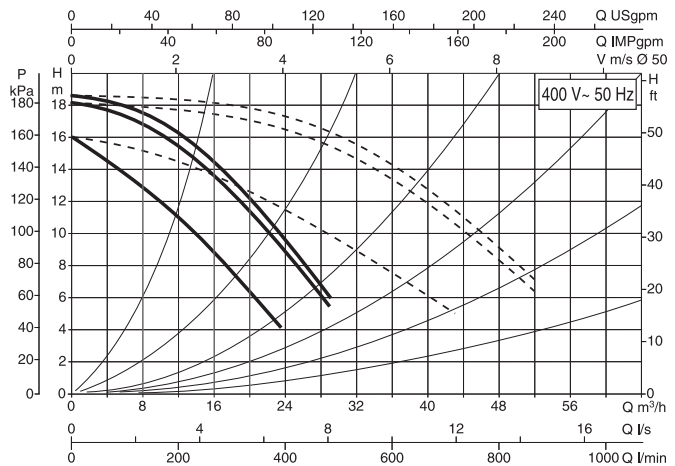
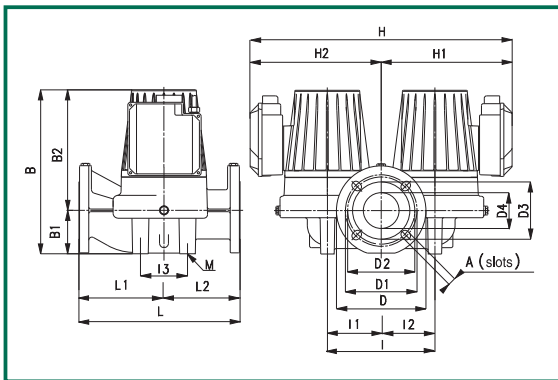


Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
280	140	140	18	362	73	289	165	125	110	90	50	100	-	-	-	M10	254	96	158	360	295	320	0,033	26

MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE								
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°				
BPH 180/280.50 T	3x230 V ~	280	DN 50 - PN 10	2	2520	1230	3,5	t°	75°	90°	110°	120°				
				1	2340	1120	3,2									
	3			2830	1630	3	mt.						2	5	-	20
	2			2780	1540	2,70										
3x400 V ~	1	2360	1130	1,85												

## DPH 180/280.50 T TWIN FLANGED - THREE-PHASE (2800 r.p.m.)



Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
280	130	150	18	358	73	285	165	125	110	90	50	240	120	120	120	M14	556	278	278	590	335	430	0,084	49

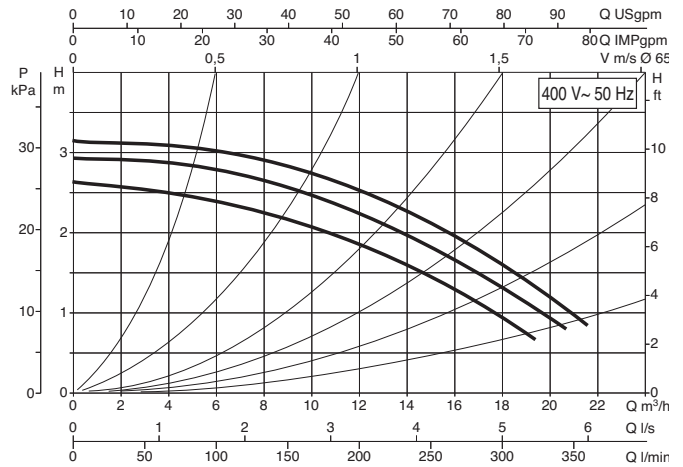
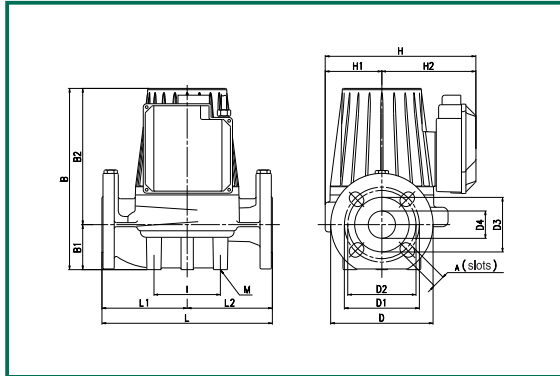
MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE								
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°				
DPH 180/280.50 T	3x230 V ~	280	DN 50 - PN 10	2	2520	1230	3,5	t°	75°	90°	110°	120°				
				1	2340	1120	3,2									
	3			2830	1630	3	mt.						2	5	-	20
	2			2780	1540	2,70										
3x400 V ~	1	2360	1130	1,85												

Performance curves based on kinematic viscosity values equal to 1 mm<sup>2</sup>/s at a density equal to 1000 kg/m<sup>3</sup>. Curve tolerance in accordance with ISO9906.

# CIRCULATORS FOR HEATING AND AIR-CONDITIONING SYSTEMS

Liquid temperature range: from -10°C to +120°C  
 Maximum operating pressure: 10 bar (1000 kPa)

## BMH 30/340.65 T SINGLE FLANGED - THREE-PHASE (1400 r.p.m.)

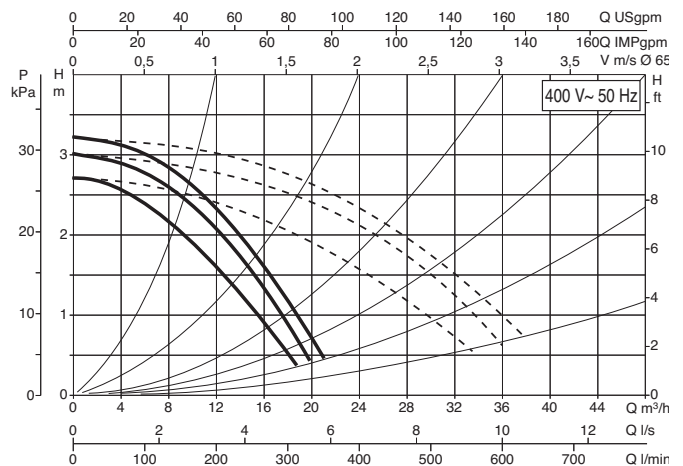
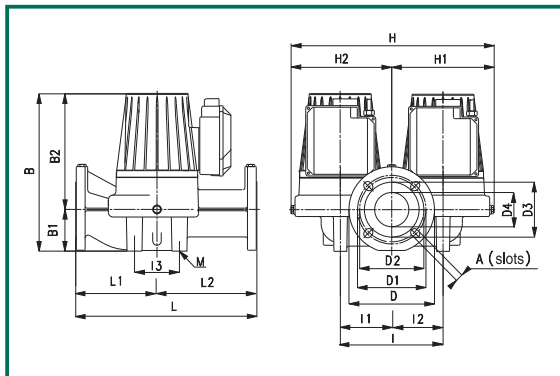


Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
340	170	170	18	334	82	252	185	145	130	110	65	100	-	-	-	M12	259	100	159	435	295	400	0,051	27,5

MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE						
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°		
BMH 30/340.65 T	3x230 V ~	340	DN 65 - PN 10	2	1360	170	0.73	t°	75°	90°	110°	120°		
				1	1310	154	0.60							
	3	1450	270	1.12	mt.	4	7.5						---	21
	2	1430	233	0.84										
	1	1310	150	0.35										

## DMH 30/340.65 T TWIN FLANGED - THREE-PHASE (1400 r.p.m.)



Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
340	138,5	201,5	18	328	82	246	185	145	130	110	65	240	120	120	140	M14	476	238	238	590	420	505	0,125	57

MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE						
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°		
DMH 30/340.65 T	3x230 V ~	340	DN 65 - PN 10	2	1360	170	0.73	t°	75°	90°	110°	120°		
				1	1310	154	0.60							
	3	1450	270	1.12	mt.	4	7.5						---	21
	2	1430	233	0.84										
	1	1310	150	0.35										

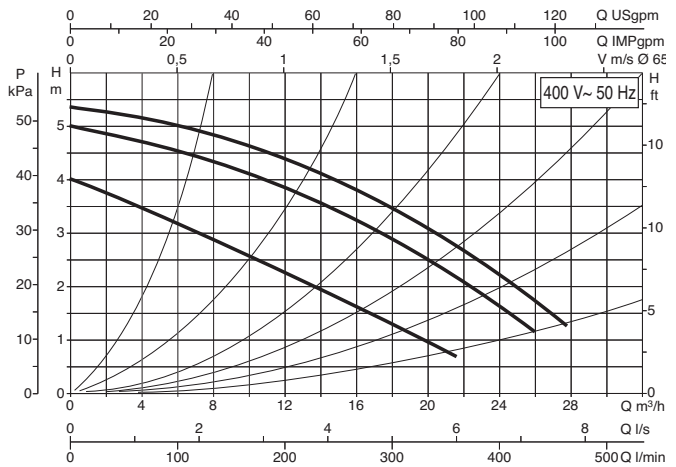
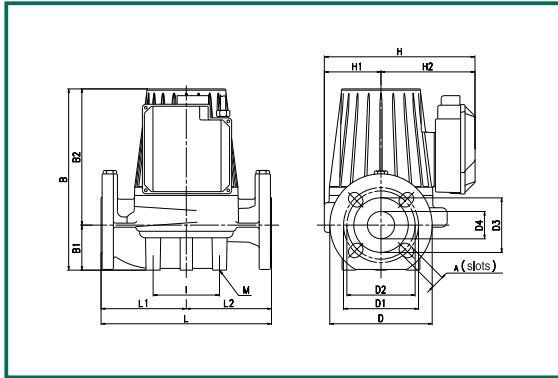


Performance curves based on kinematic viscosity values equal to 1 mm<sup>2</sup>/s at a density equal to 1000 kg/m<sup>3</sup>. Curve tolerance in accordance with ISO9906.

# CIRCULATORS FOR HEATING AND AIR-CONDITIONING SYSTEMS

Liquid temperature range: from -10°C to +120°C  
 Maximum operating pressure: 10 bar (1000 kPa)

## BMH 60/340.65 T SINGLE FLANGED - THREE-PHASE (1400 r.p.m.)

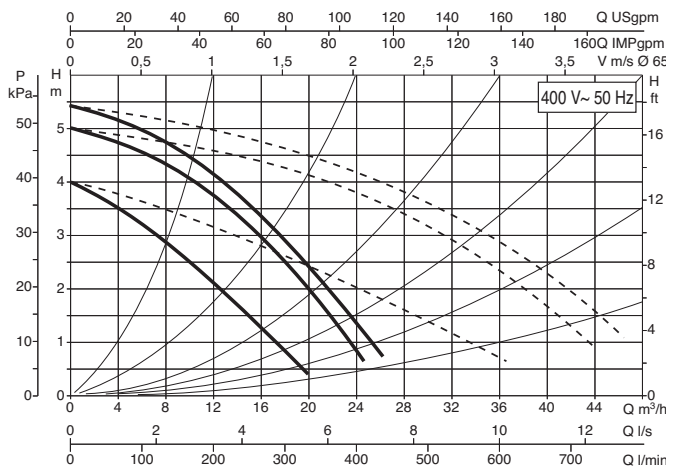
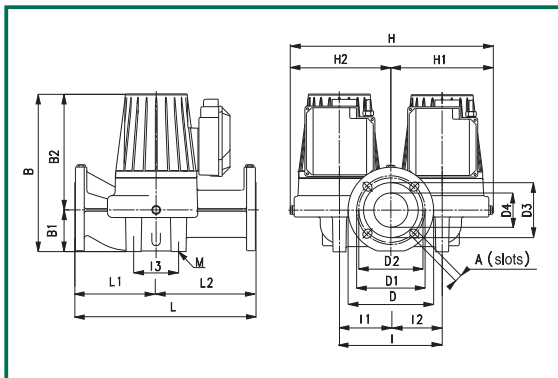


Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
340	170	170	18	334	82	252	185	145	130	110	65	100	-	-	-	M12	259	100	159	435	295	400	0,051	27,5

MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE								
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°				
BMH 60/340.65 T	3x230 V ~	340	DN 65 - PN 10	2	1170	295	1	t°	75°	90°	110°	120°				
				1	1070	257	0.85									
	3			1380	445	1.2	mt.						4	7.5	-	21
	2			1350	403	0.97										
	1			1090	255	0.49										

## DMH 60/340.65 T TWIN FLANGED - THREE-PHASE (1400 r.p.m.)



Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
340	138,5	201,5	18	331	82	249	185	145	130	110	65	240	120	120	140	M14	476	238	238	590	420	505	0,125	50

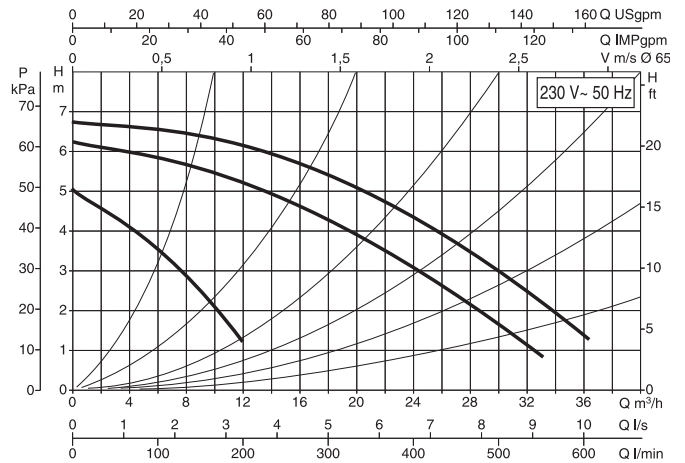
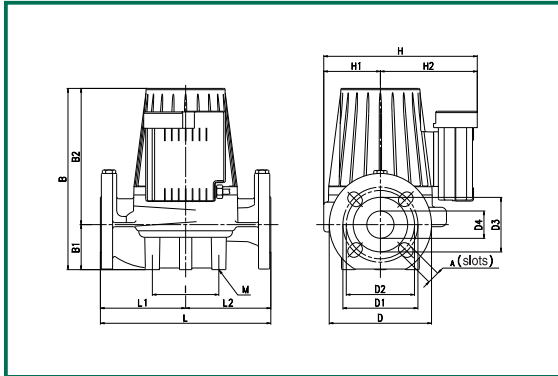
MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE								
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°				
DMH 60/340.65 T	3x230 V ~	340	DN 65 - PN 10	2	1170	295	1	t°	75°	90°	110°	120°				
				1	1070	257	0.85									
	3			1380	445	1.2	mt.						4	7.5	-	21
	2			1350	403	0.97										
	1			1090	255	0.49										

Performance curves based on kinematic viscosity values equal to 1 mm<sup>2</sup>/s at a density equal to 1000 kg/m<sup>3</sup>. Curve tolerance in accordance with ISO9906.

# CIRCULATORS FOR HEATING AND AIR-CONDITIONING SYSTEMS

Liquid temperature range: from -10°C to +120°C  
 Maximum operating pressure: 10 bar (1000 kPa)

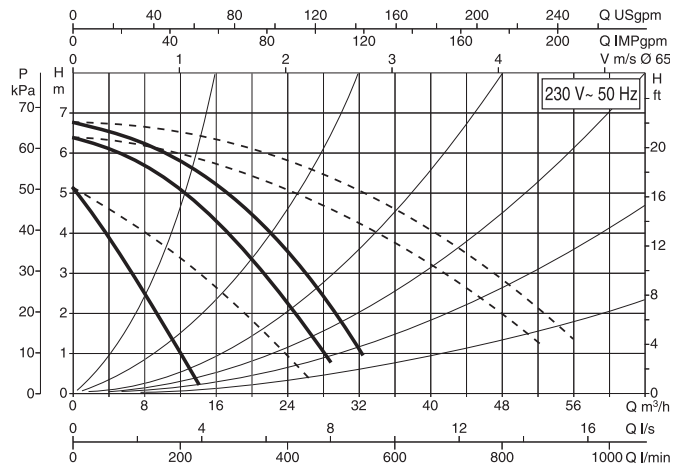
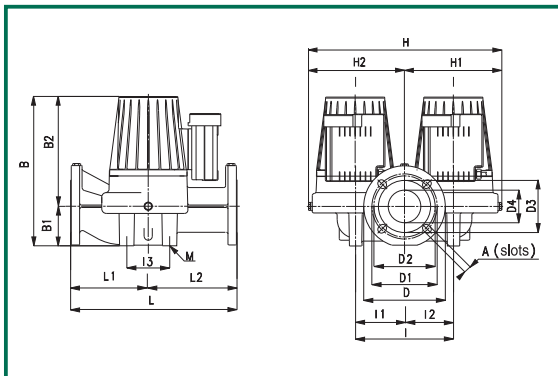
## BPH 60/340.65 M SINGLE FLANGED - SINGLE-PHASE (2800 r.p.m.)



L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
340	170	170	18	334	82	252	185	145	130	110	65	100	-	-	-	M12	259	100	159	435	295	400	0,051	27,5

MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE															
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°											
BPH 60/340.65 M	-	340	DN 65 - PN 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1x230 V ~			3	2780	735	3.37	mt.	1	4	13	-											
				2	2580	685	3.13																
				1	1460	564	3.12																

## DPH 60/340.65 M TWIN FLANGED - SINGLE-PHASE (2800 r.p.m.)



L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
340	138,5	201,5	18	331	82	249	185	145	130	110	65	240	120	120	140	M14	476	238	238	590	420	505	0,125	50

MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE															
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°											
DPH 60/340.65 M	-	340	DN 65 - PN 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1x230 V ~			3	2780	735	3.37	mt.	1	4	13	-											
				2	2580	685	3.13																
				1	1460	564	3.12																

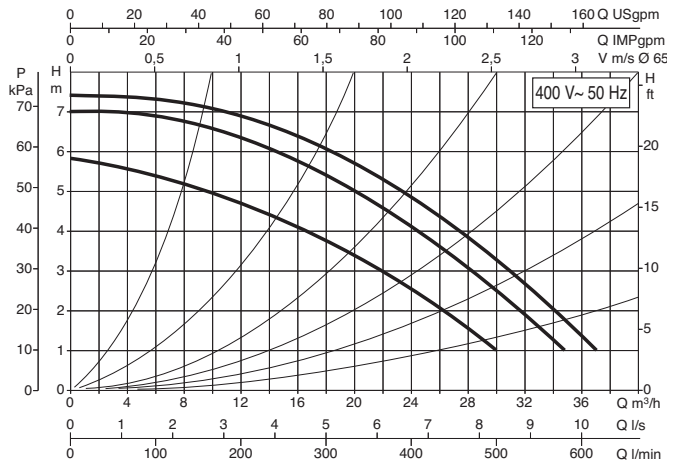
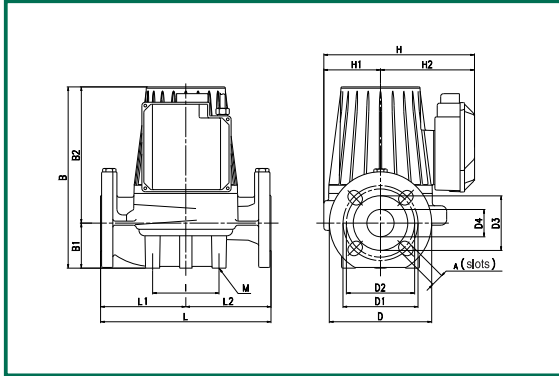
Performance curves based on kinematic viscosity values equal to 1 mm<sup>2</sup>/s at a density equal to 1000 kg/m<sup>3</sup>. Curve tolerance in accordance with ISO9906.

# CIRCULATORS FOR HEATING AND AIR-CONDITIONING SYSTEMS

Liquid temperature range: from -10°C to +120°C  
 Maximum operating pressure: 10 bar (1000 kPa)

## BPH 60/340.65 T

SINGLE FLANGED - THREE-PHASE (2800 r.p.m.)



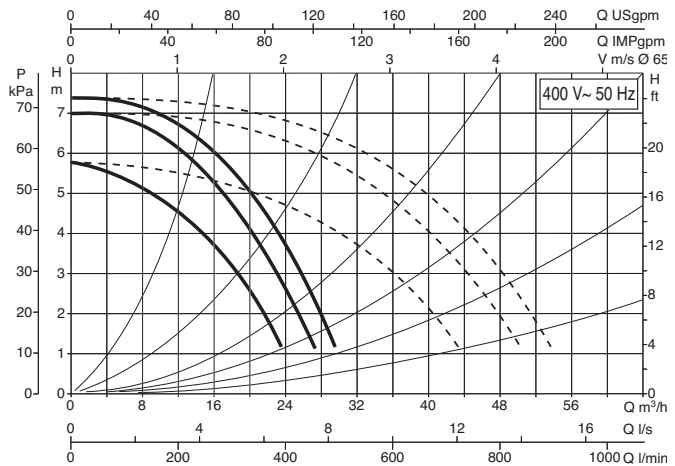
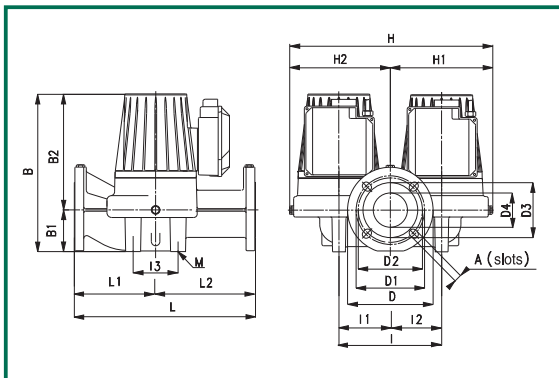
Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
340	170	170	18	334	82	252	185	145	130	110	65	100	-	-	-	M12	259	100	159	435	295	400	0,051	30,5

MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE				
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°
BPH 60/340.65 T	3x230 V ~	340	DN 65 - PN 10	2	2550	582	1.67	mt.	1	4	-	18
				1	2380	532	1.53					
	3			2850	756	1.5						
	2			2800	705	1.3						
	1			2400	535	0.9						

## DPH 60/340.65 T

TWIN FLANGED - THREE-PHASE (2800 r.p.m.)



Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
340	138,5	201,5	18	331	82	249	185	145	130	110	65	240	120	120	140	M14	476	238	238	590	420	505	0,125	54,5

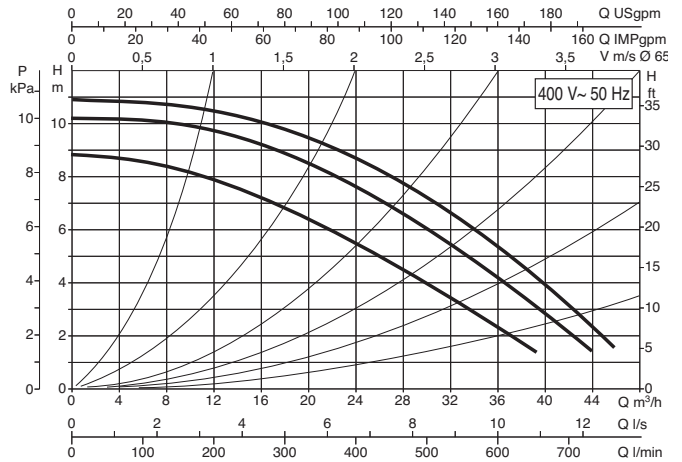
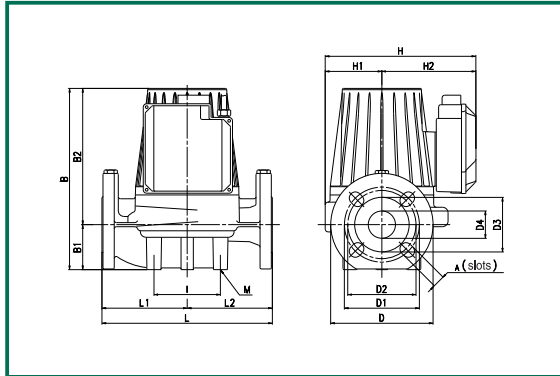
MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE				
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°
DPH 60/340.65 T	3x230 V ~	340	DN 65 - PN 10	2	2550	582	1.67	mt.	1	4	-	18
				1	2380	532	1.53					
	3			2850	756	1.5						
	2			2800	705	1.3						
	1			2400	535	0.9						

Performance curves based on kinematic viscosity values equal to 1 mm<sup>2</sup>/s at a density equal to 1000 kg/m<sup>3</sup>. Curve tolerance in accordance with ISO9906.

# CIRCULATORS FOR HEATING AND AIR-CONDITIONING SYSTEMS

Liquid temperature range: from -10°C to +120°C  
 Maximum operating pressure: 10 bar (1000 kPa)

## BPH 120/340.65 T SINGLE FLANGED - THREE-PHASE (2800 r.p.m.)

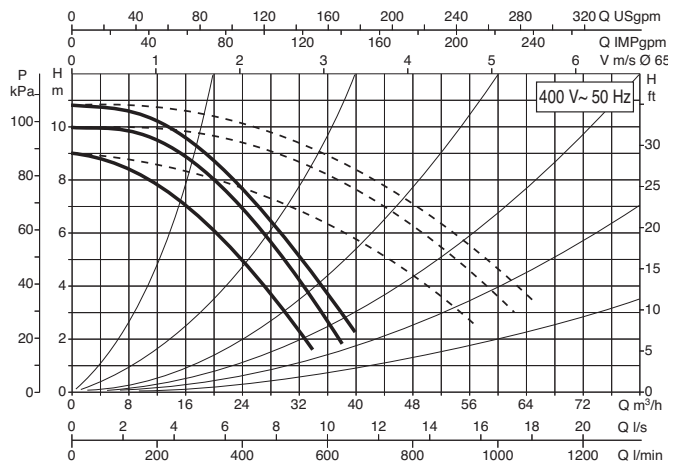
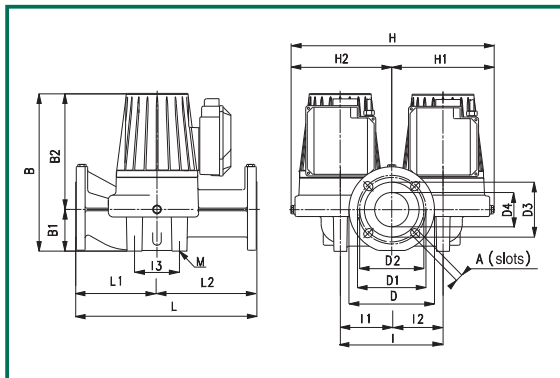


Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																			L	B	H	m <sup>3</sup>	Kg	
340	170	170	18	384	82	302	185	145	130	110	65	100	-	-	-	M12	259	100	159	435	295	400	0,051	32,5

MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE				
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°
BPH 120/340.65 T	3x230 V ~	340	DN 65 - PN 10	2	2630	1001	2.85	mt.	6	9	-	22
				1	2500	940	2.66					
	3			2880	1275	2.64						
	2			2830	1200	2.25						
	1			2520	934	1.52						

## DPH 120/340.65 T TWIN FLANGED - THREE-PHASE (2800 r.p.m.)



Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																			L	B	H	m <sup>3</sup>	Kg	
340	138,5	201,5	18	381	82	299	185	145	130	110	65	240	120	120	140	M14	476	238	238	590	420	505	0,125	59

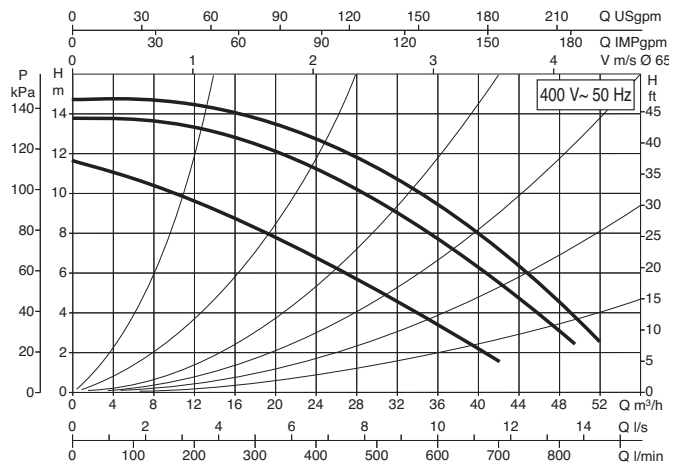
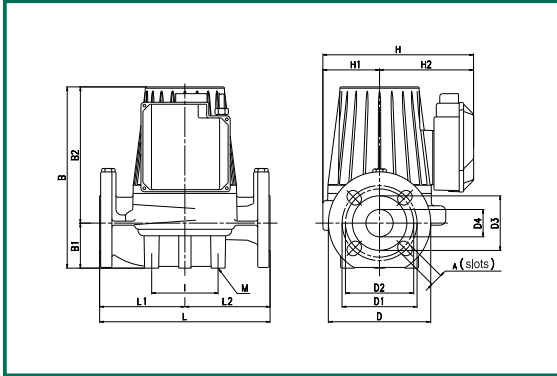
MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm	FLANGES ON REQUEST	ELECTRICAL DATA				MINIMUM HEAD PRESSURE				
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°
DPH 120/340.65 T	3x230 V ~	340	DN 65 - PN 10	2	2630	-1001	2.85	mt.	6	9	-	22
				1	2500	940	2.66					
	3			2880	1275	2.64						
	2			2830	1200	2.25						
	1			2520	934	1.52						

Performance curves based on kinematic viscosity values equal to 1 mm<sup>2</sup>/s at a density equal to 1000 kg/m<sup>3</sup>. Curve tolerance in accordance with ISO9906.

# CIRCULATORS FOR HEATING AND AIR-CONDITIONING SYSTEMS

Liquid temperature range: from -10°C to +120°C  
 Maximum operating pressure: 10 bar (1000 kPa)

## BPH 150/340.65 T SINGLE FLANGED - THREE-PHASE (2800 r.p.m.)

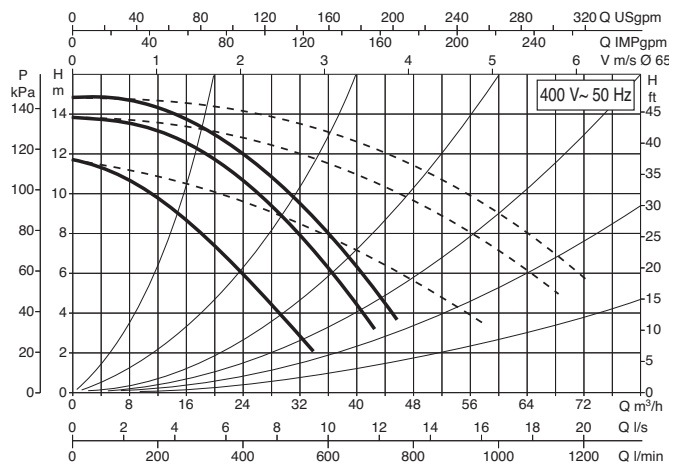
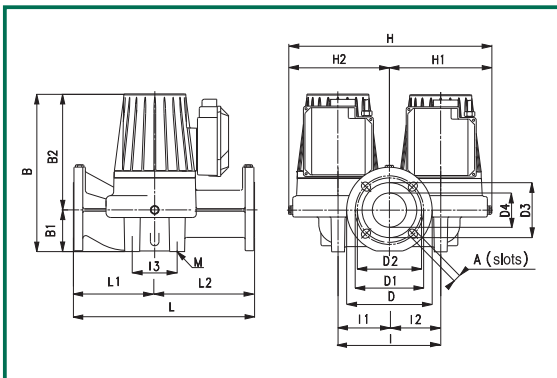


Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
340	170	170	18	384	82	302	185	145	130	110	65	100	-	-	-	M12	259	100	159	435	295	400	0,051	32,5

MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE				
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°
BPH 150/340.65 T	3x230 V ~	340	DN 65 - PN 10	2	2410	1345	3.8	mt.	7	11	18	-
				1	2250	1188	3.36					
	3			2800	1796	3.25						
	2			2730	1690	2.93						
	1			2250	1210	2						

## DPH 150/340.65 T TWIN FLANGED - THREE-PHASE (2800 r.p.m.)



Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
340	138,5	201,5	18	381	82	299	185	145	130	110	65	240	120	120	140	M14	476	238	238	590	420	505	0,125	59

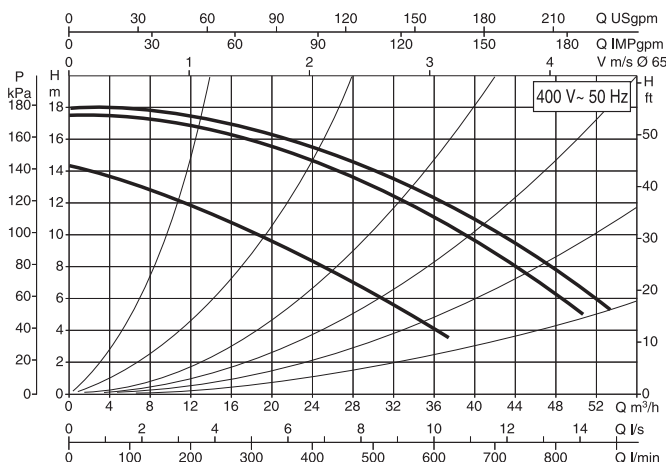
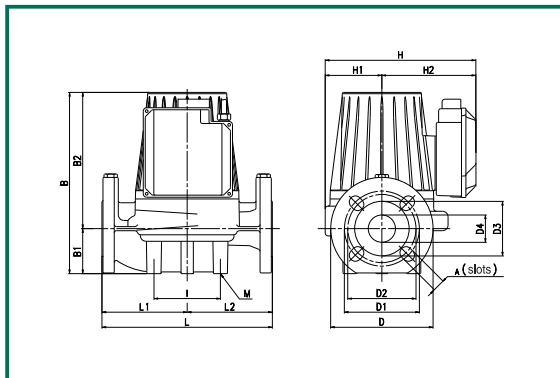
MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE				
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°
DPH 150/340.65 T	3x230 V ~	340	DN 65 - PN 10	2	2410	1345	3.8	mt.	7	11	18	-
				1	2250	1188	3.36					
	3			2800	1796	3.25						
	2			2730	1690	2.93						
	1			2250	1210	2						

Performance curves based on kinematic viscosity values equal to 1 mm<sup>2</sup>/s at a density equal to 1000 kg/m<sup>3</sup>. Curve tolerance in accordance with ISO9906.

# CIRCULATORS FOR HEATING AND AIR-CONDITIONING SYSTEMS

Liquid temperature range: from -10°C to +120°C  
 Maximum operating pressure: 10 bar (1000 kPa)

## BPH 180/340.65 T SINGLE FLANGED - THREE-PHASE (2800 r.p.m.)

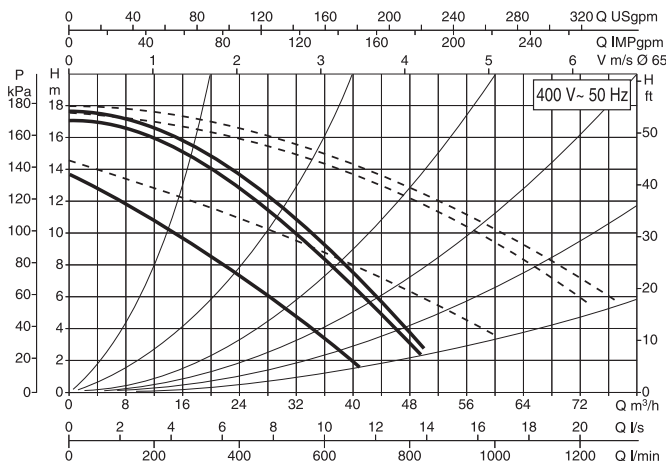
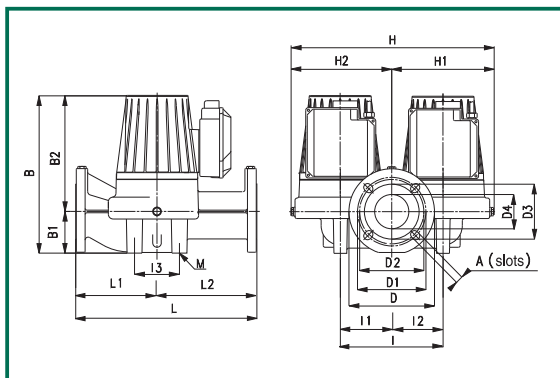


Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
340	170	170	18	384	82	302	185	145	130	110	65	100	-	-	-	M12	259	100	159	435	295	400	0,051	32,5

MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE				
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°
BPH 180/340.65 T	3x230 V ~	340	DN 65 - PN 10	2	2380	1670	4,7	mt.	7	11	18	-
				1	2170	1490	4,25					
	3			2780	2310	4						
	2			2700	2210	3,5						
	1			2200	1490	2,4						

## DPH 180/340.65 T TWIN FLANGED - THREE-PHASE (2800 r.p.m.)



Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
340	138,5	201,5	18	381	82	299	185	145	130	110	65	240	120	120	140	M14	476	238	238	590	420	505	0,125	59

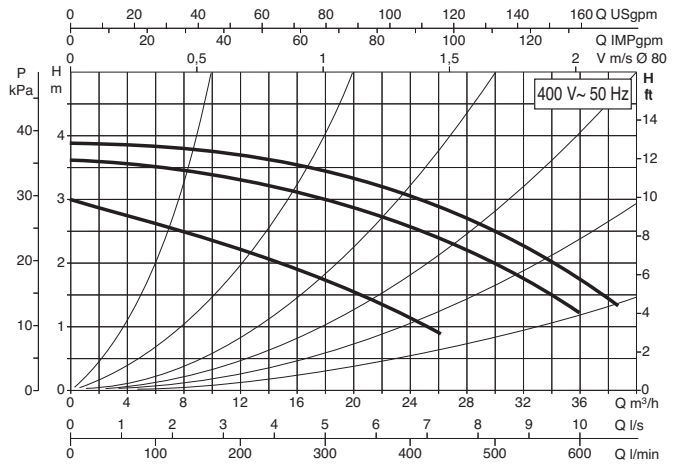
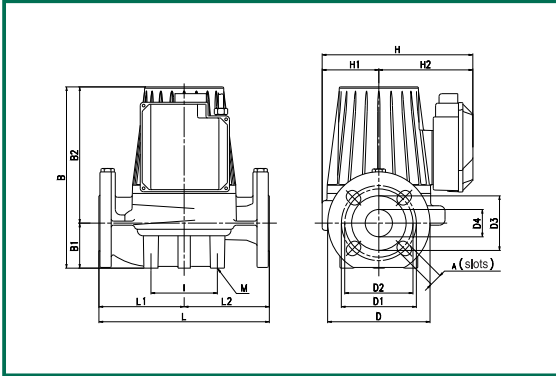
MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE				
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°
DPH 180/340.65 T	3x230 V ~	340	DN 65 - PN 10	2	2380	1670	4,7	mt.	7	11	18	-
				1	2170	1490	4,25					
	3			2780	2310	4						
	2			2700	2210	3,5						
	1			2200	1490	2,4						

Performance curves based on kinematic viscosity values equal to 1 mm<sup>2</sup>/s at a density equal to 1000 kg/m<sup>3</sup>. Curve tolerance in accordance with ISO9906.

# CIRCULATORS FOR HEATING AND AIR-CONDITIONING SYSTEMS

Liquid temperature range: from -10°C to +120°C  
 Maximum operating pressure: 10 bar (1000 kPa)

## BMH 30/360.80 T SINGLE FLANGED - THREE-PHASE (1400 r.p.m.)

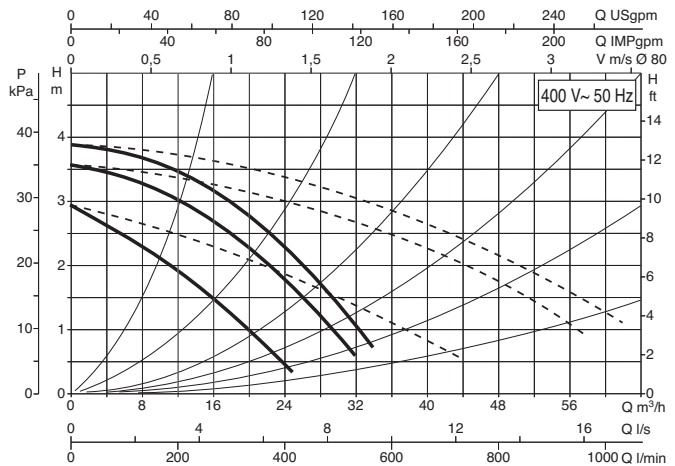
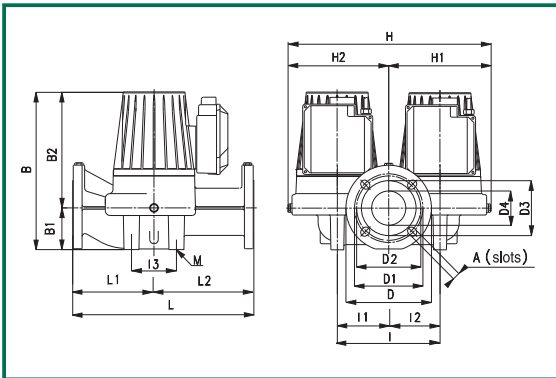


Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
360	170	190	18	354	97	254	200	160	150	130	80	115	-	-	-	M12	297	100	159	435	295	400	0,051	31

MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE				
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°
BMH 30/360.80 T	3x230 V ~	360	DN 80 - PN 10	2	1110	313	1.05	mt.	4	7.5	-	21
				1	1010	268	0.88					
	3			1370	484	1.23						
	2			1330	437	1						
	1			1030	266	0.51						

## DMH 30/360.80 T TWIN FLANGED - THREE-PHASE (1400 r.p.m.)



Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
360	160	200	18	345	97	248	200	160	150	130	80	240	120	120	150	M14	480	240	240	590	420	505	0,125	54,5

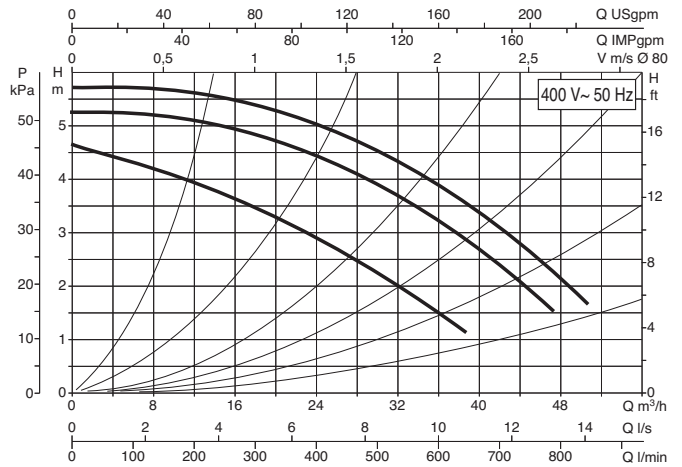
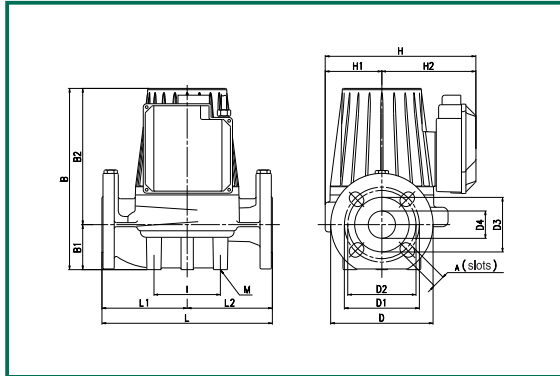
MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE				
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°
DMH 30/360.80 T	3x230 V ~	360	DN 80 - PN 10	2	1110	313	1.05	mt.	4	7.5	-	21
				1	1010	268	0.88					
	3			1370	484	1.23						
	2			1330	437	1						
	1			1030	266	0.51						

Performance curves based on kinematic viscosity values equal to 1 mm<sup>2</sup>/s at a density equal to 1000 kg/m<sup>3</sup>. Curve tolerance in accordance with ISO9906.

# CIRCULATORS FOR HEATING AND AIR-CONDITIONING SYSTEMS

Liquid temperature range: from -10°C to +120°C  
 Maximum operating pressure: 10 bar (1000 kPa)

## BMH 60/360.80 T SINGLE FLANGED - THREE-PHASE (1400 r.p.m.)

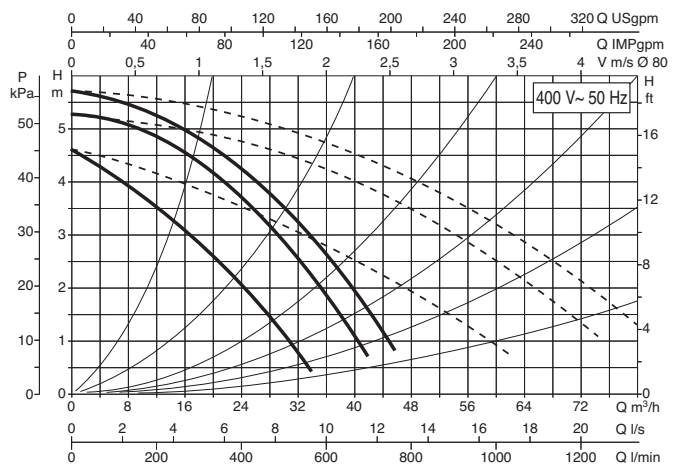
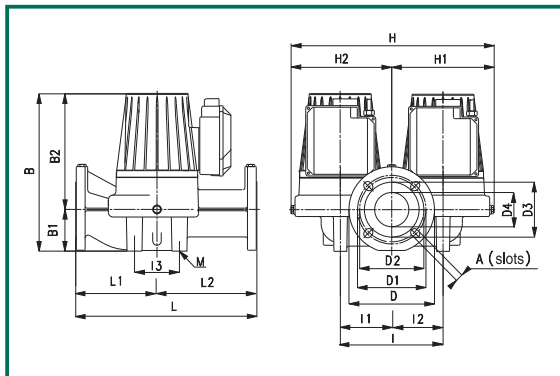


Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
360	170	190	18	404	97	307	200	160	150	130	80	115	-	-	-	M12	259	100	159	435	295	400	0,051	40

MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE				
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°
BMH 60/360.80 T	3x230 V ~	360	DN 80 - PN 10	2	1180	535	1.82	mt.	2	5	-	20
				1	1100	465	1.55					
	3			1390	763	2.04						
	2			1350	663	1.65						
	1			1100	465	0.89						

## DMH 60/360.80 T TWIN FLANGED - THREE-PHASE (1400 r.p.m.)



Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
360	160	200	18	390	97	298	200	160	150	130	80	240	120	120	150	M14	480	240	240	590	420	505	0,125	72

MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE				
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°
DMH 60/360.80 T	3x230 V ~	360	DN 80 - PN 10	2	1180	535	1.82	mt.	2	5	-	20
				1	1100	465	1.55					
	3			1390	763	2.04						
	2			1350	675	1.65						
	1			1100	465	0.89						

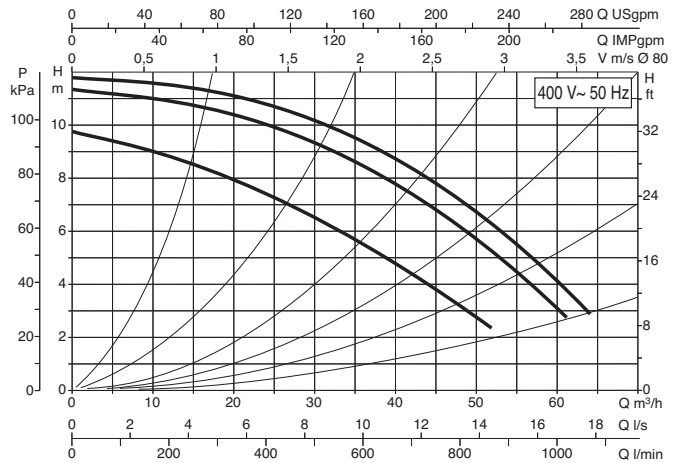
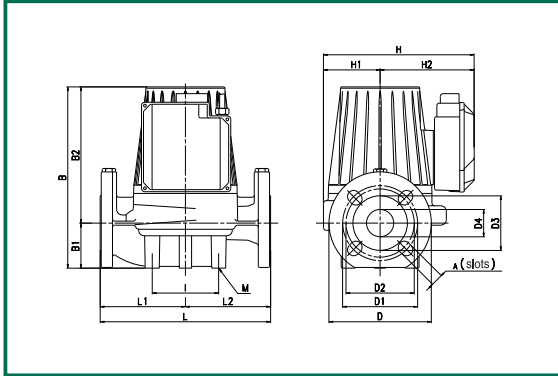


Performance curves based on kinematic viscosity values equal to 1 mm<sup>2</sup>/s at a density equal to 1000 kg/m<sup>3</sup>. Curve tolerance in accordance with ISO9906.

# CIRCULATORS FOR HEATING AND AIR-CONDITIONING SYSTEMS

Liquid temperature range: from -10°C to +120°C  
 Maximum operating pressure: 10 bar (1000 kPa)

## BPH 120/360.80 T SINGLE FLANGED - THREE-PHASE (2800 r.p.m.)

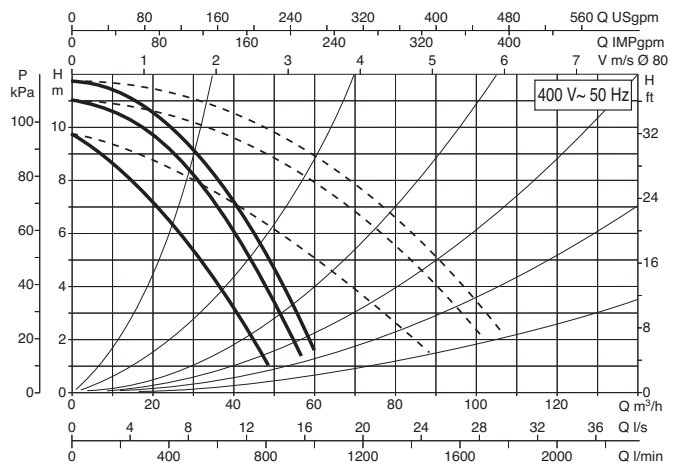
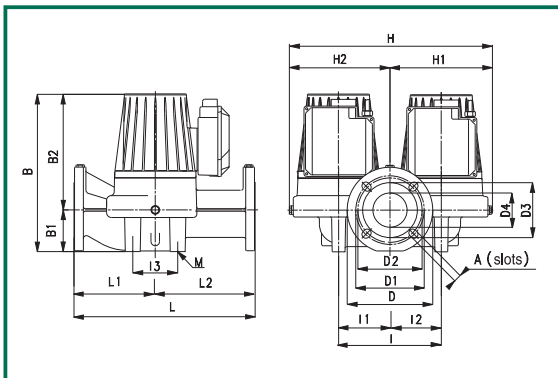


Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
360	170	190	18	404	97	307	200	160	150	130	80	115	-	-	-	M12	259	100	159	435	295	400	0,051	40

MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE				
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°
BPH 120/360.80 T	3x230 V ~	360	DN 80 - PN 10	2	2500	1410	3.95	mt.	6	10	-	22
				1	2340	1292	3.6					
	3			2830	1820	3.3						
	2			2780	1710	2.93						
	1			2350	1302	2.13						

## DPH 120/360.80 T TWIN FLANGED - THREE-PHASE (2800 r.p.m.)



Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
360	160	200	18	390	97	298	200	160	150	130	80	240	120	120	150	M14	480	240	240	590	420	505	0,125	72

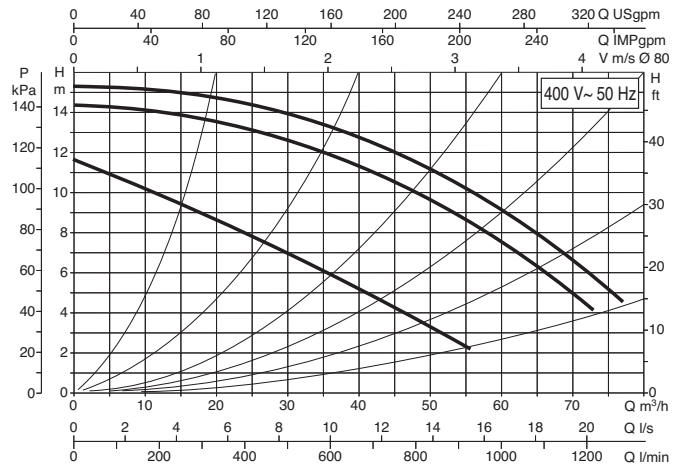
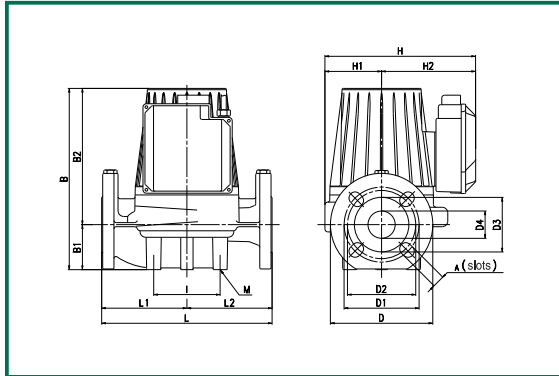
MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE				
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°
DPH 120/360.80 T	3x230 V ~	360	DN 80 - PN 10	2	2500	1410	3.95	mt.	6	10	-	22
				1	2340	1292	3.6					
	3			2830	1820	3.3						
	2			2780	1710	2.93						
	1			2350	1302	2.13						

Performance curves based on kinematic viscosity values equal to 1 mm<sup>2</sup>/s at a density equal to 1000 kg/m<sup>3</sup>. Curve tolerance in accordance with ISO9906.

# CIRCULATORS FOR HEATING AND AIR-CONDITIONING SYSTEMS

Liquid temperature range: from -10°C to +120°C  
 Maximum operating pressure: 10 bar (1000 kPa)

## BPH 150/360.80 T SINGLE FLANGED - THREE-PHASE (2800 r.p.m.)

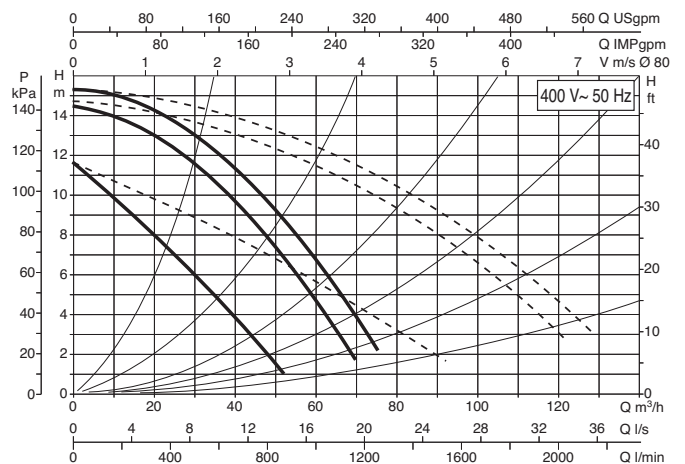
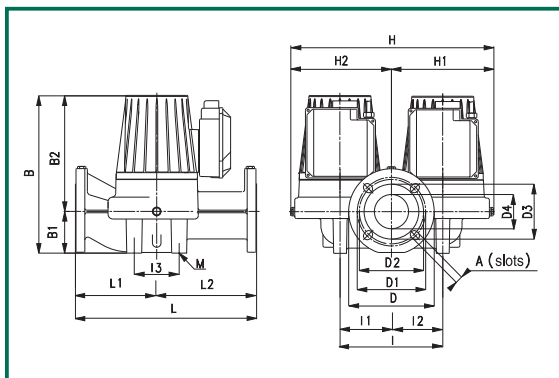


Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
360	170	190	18	404	97	307	200	160	150	130	80	115	-	-	-	M12	259	100	159	435	295	400	0,051	40

MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE				
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°
BPH 150/360.80 T	3x230 V ~	360	DN 80 - PN 10	2	2140	1984	5.62	mt.	7	11	18	-
				1	1900	1695	4.82					
	3			2710	2870	4.64						
	2			2610	2686	4.32						
	1			1940	1710	2.85						

## DPH 150/360.80 T TWIN FLANGED - THREE-PHASE (2800 r.p.m.)



Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
360	160	200	18	390	97	298	200	160	150	130	80	240	120	120	150	M14	480	240	240	590	420	505	0,125	72

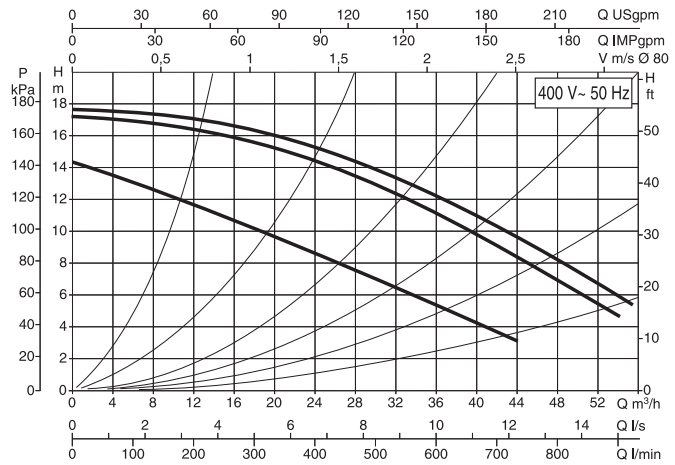
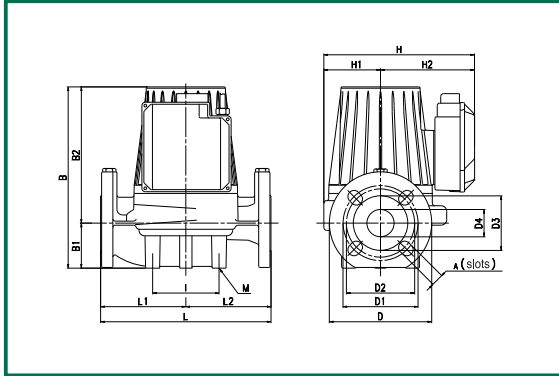
MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE				
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°
DPH 150/360.80 T	3x230 V ~	360	DN 80 - PN 10	2	2140	1984	5.62	mt.	7	11	18	-
				1	1900	1695	4.82					
	3			2710	2870	4.64						
	2			2610	2686	4.32						
	1			1940	1710	2.85						

Performance curves based on kinematic viscosity values equal to 1 mm<sup>2</sup>/s at a density equal to 1000 kg/m<sup>3</sup>. Curve tolerance in accordance with ISO9906.

# CIRCULATORS FOR HEATING AND AIR-CONDITIONING SYSTEMS

Liquid temperature range: from -10°C to +120°C  
 Maximum operating pressure: 10 bar (1000 kPa)

## BPH 180/360.80 T SINGLE FLANGED - THREE-PHASE (2800 r.p.m.)

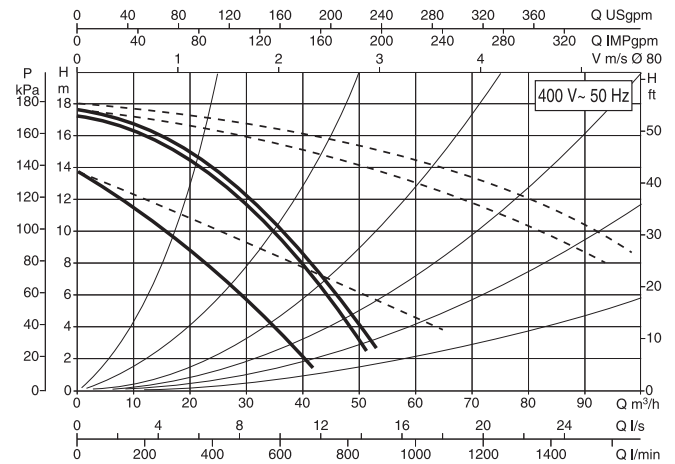
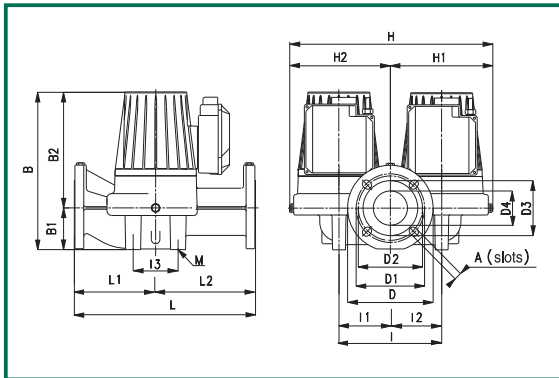


Hydraulic characteristics at 230V are shown from pages 67.

L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
360	170	190	18	404	97	307	200	160	150	130	80	115	-	-	-	M12	259	100	159	435	295	400	0,051	40

MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE				
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°
BPH 180/360.80 T	3x230 V ~	360	DN 80 - PN 10	2	2380	1670	4,7	mt.	7	11	18	-
				1	2170	1490	4,25					
	3x400 V ~			3	2780	2310	4					
				2	2700	2210	3,5					
				1	2200	1490	2,4					

## DPH 180/360.80 T TWIN FLANGED - THREE-PHASE (2800 r.p.m.)



Hydraulic characteristics at 230V are shown from pages 67.

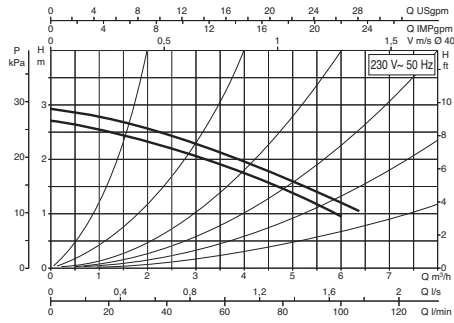
L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	I	I1	I2	I3	M	H	H1	H2	PACKING DIMENSIONS			VOLUME	WEIGHT
																				L	B	H	m <sup>3</sup>	Kg
360	160	200	18	390	97	298	200	160	150	130	80	240	120	120	150	M14	480	240	240	590	420	505	0,125	72

MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm		ELECTRICAL DATA				MINIMUM HEAD PRESSURE				
				SPEED	N r.p.m.	P1 MAX W	In A	t°	75°	90°	110°	120°
DPH 180/360.80 T	3x230 V ~	360	DN 80 - PN 10	2	2380	1670	4,7	mt.	7	11	18	-
				1	2170	1490	4,25					
	3x400 V ~			3	2780	2310	4					
				2	2700	2210	3,5					
				1	2200	1490	2,4					

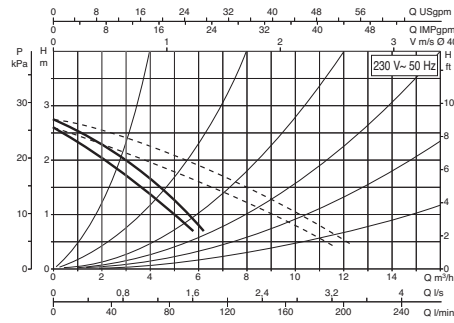
# CIRCULATORS FOR HEATING AND AIR-CONDITIONING SYSTEMS

HYDRAULIC CHARACTERISTICS 230 V ~ 50Hz - THREE-PHASE

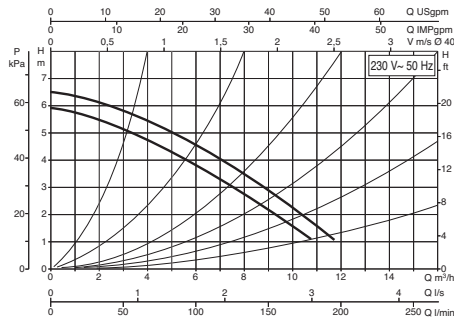
**BMH 30/250.40 T**



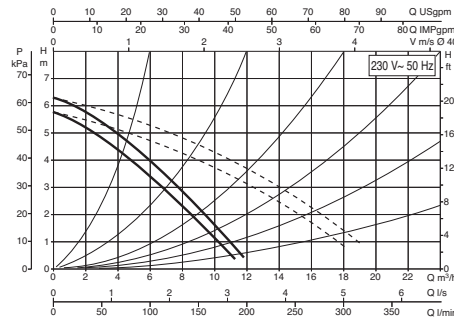
**DMH 30/250.40 T**



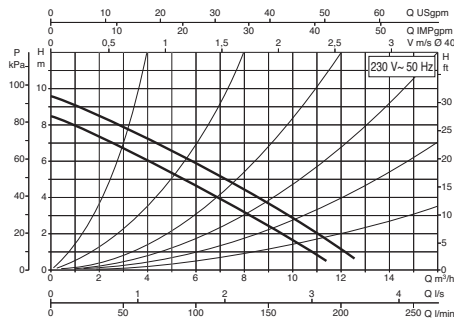
**BPH 60/250.40 T**



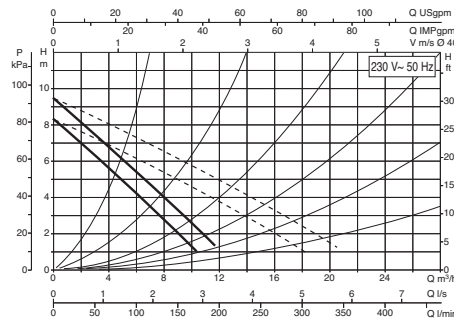
**DPH 60/250.40 T**



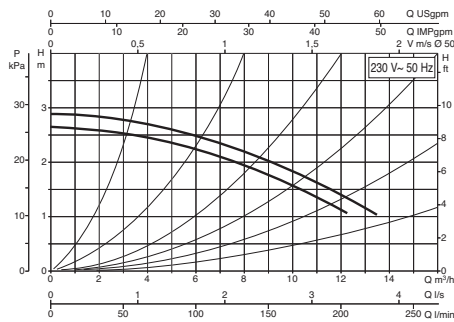
**BPH 120/250.40 T**



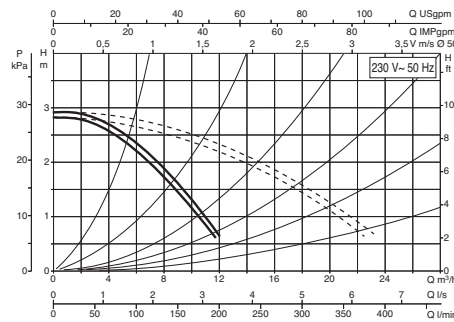
**DPH 120/250.40 T**



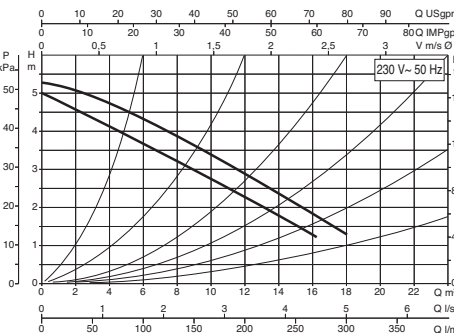
**BMH 30/280.50 T**



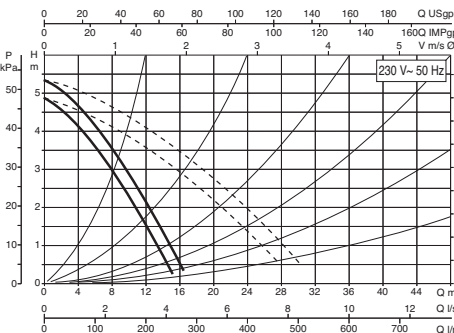
**DMH 30/280.50 T**



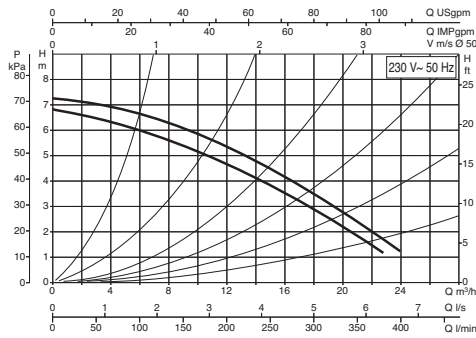
**BMH 60/280.50 T**



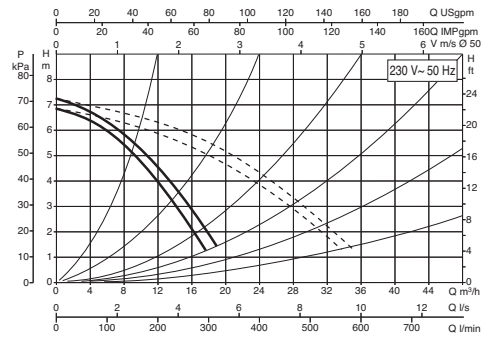
**DMH 60/280.50 T**



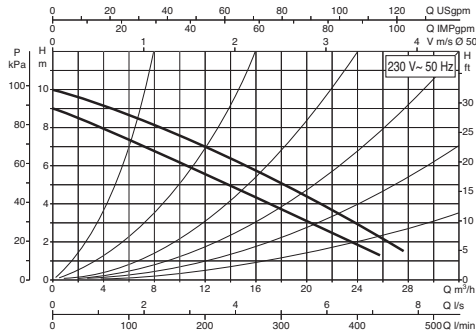
### BPH 60/280.50 T



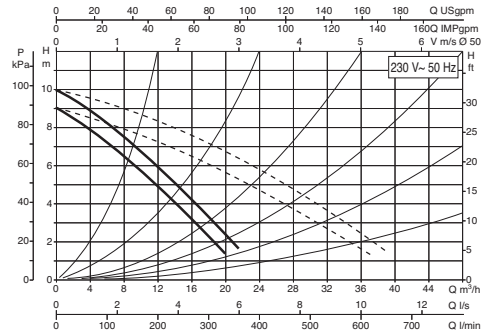
### DPH 60/280.50 T



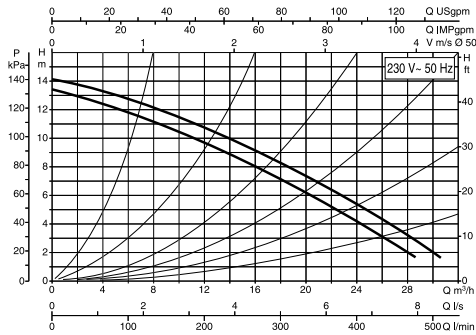
### BPH 120/280.50 T



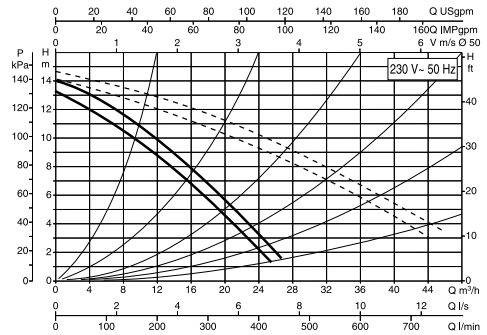
### DPH 120/280.50 T



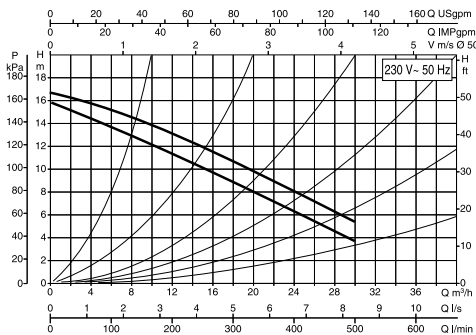
### BPH 150/280.50 T



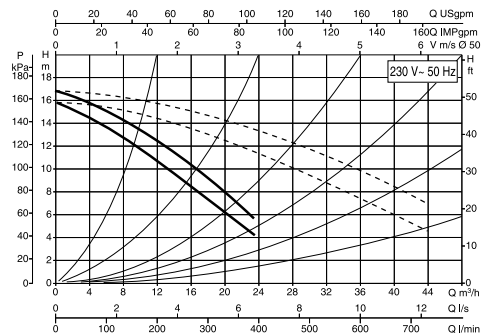
### DPH 150/280.50 T



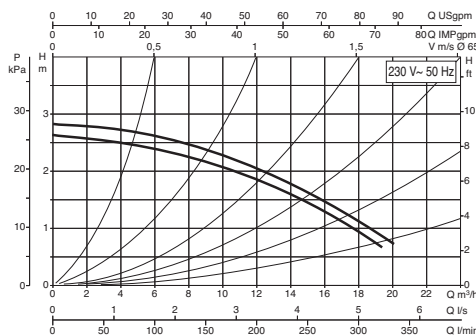
### BPH 180/280.50 T



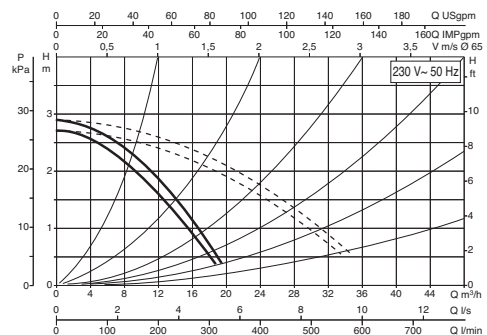
### DPH 180/280.50 T



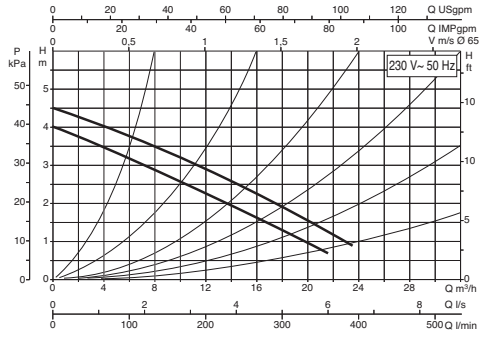
### BMH 30/340.65 T



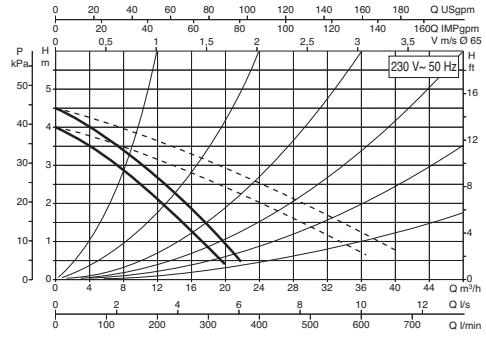
### DMH 30/340.65 T



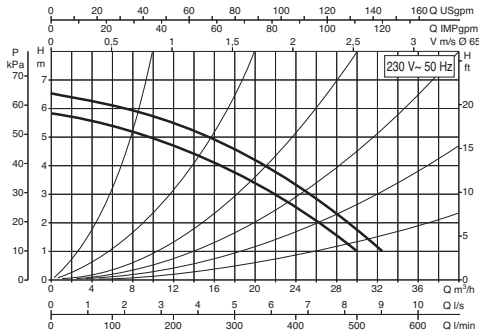
### BMH 60/340.65 T



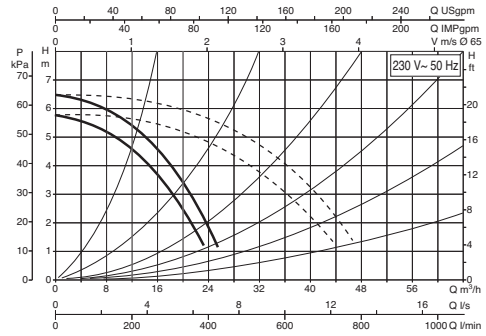
### DMH 60/340.65 T



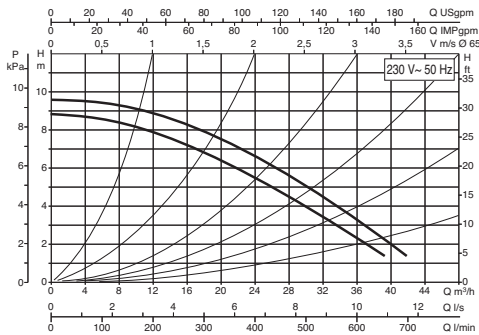
### BPH 60/340.65 T



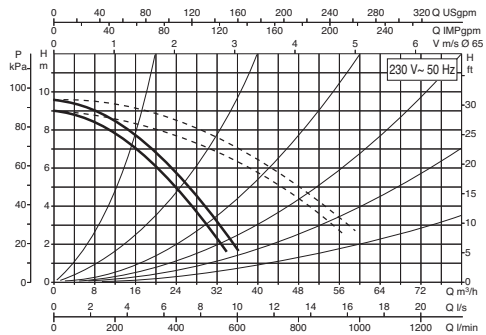
### DPH 60/340.65 T



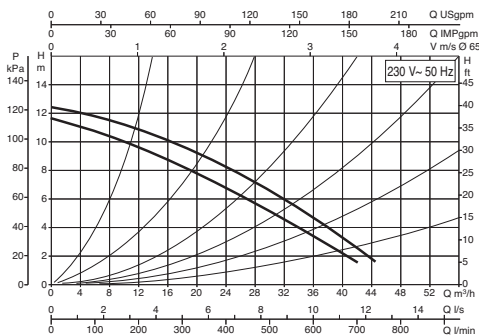
### BPH 120/340.65 T



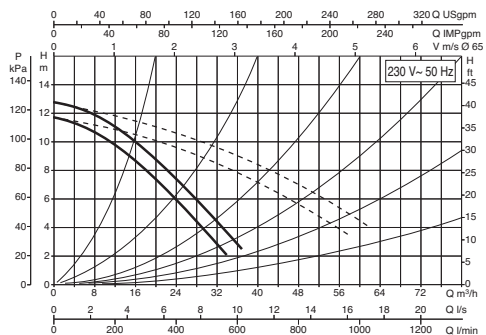
### DPH 120/340.65 T



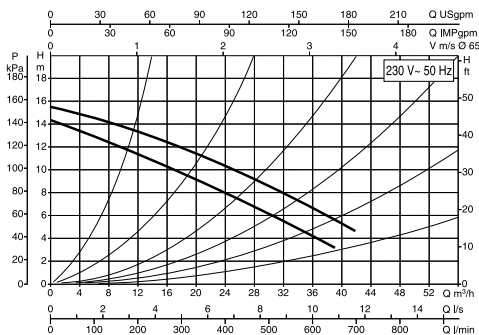
### BPH 150/340.65 T



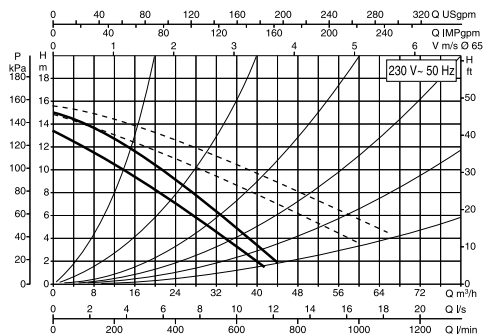
### DPH 150/340.65 T



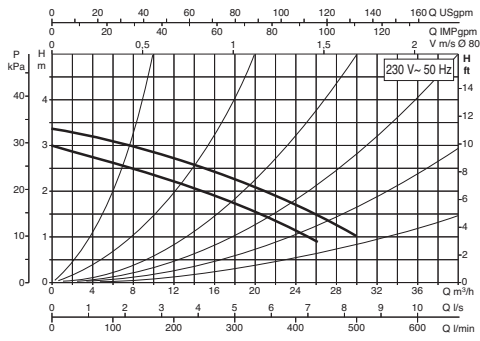
### BPH 180/340.65 T



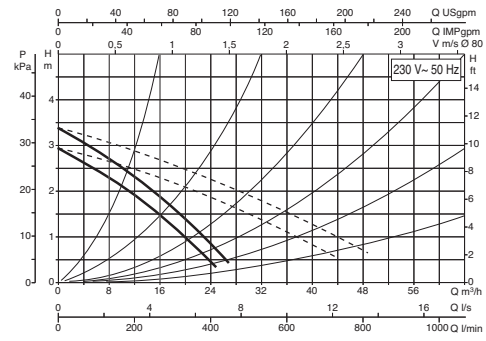
### DPH 180/340.65 T



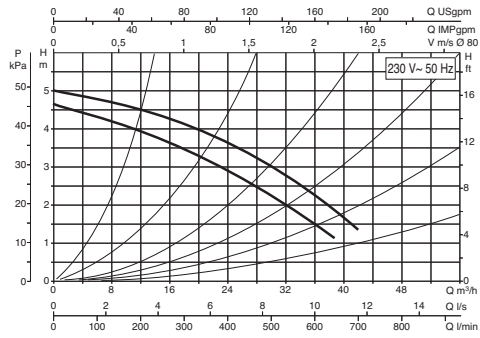
### BMH 30/360.80 T



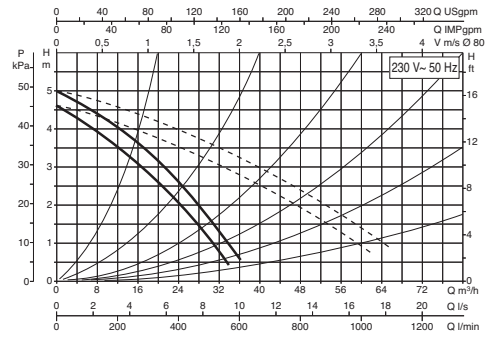
### DMH 30/360.80 T



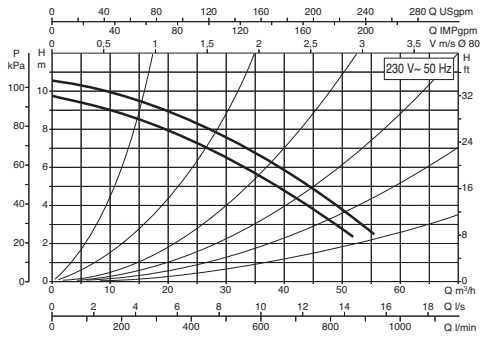
### BMH 60/360.80 T



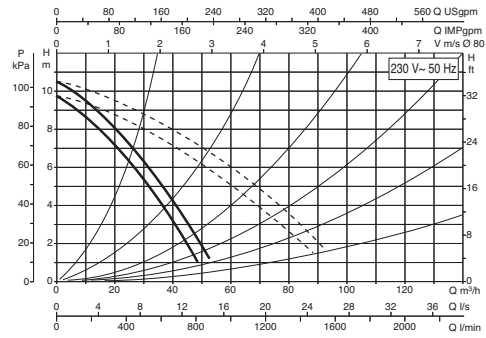
### DMH 60/360.80 T



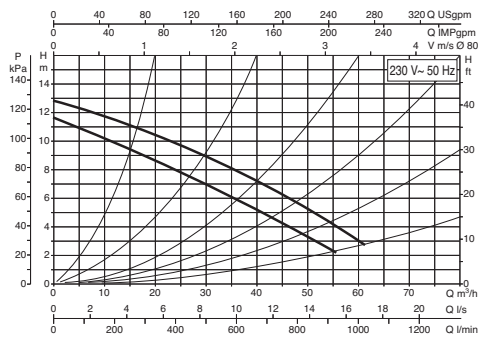
### BPH 120/360.80 T



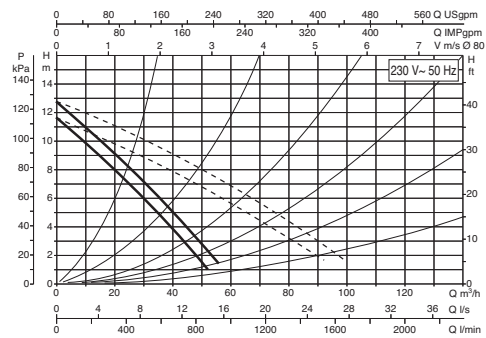
### DPH 120/360.80 T



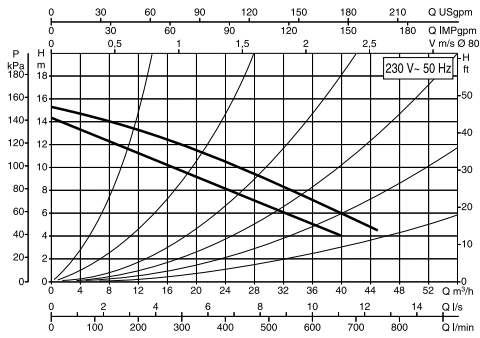
### BPH 150/360.80 T



### DPH 150/360.80 T



### BPH 180/360.80 T



### DPH 180/360.80 T

