



TECHNICAL DATA

- Operating range:** from 0.5 to 3,6 m³/h with head up to 6 metres.
- Pumped liquid temperature range:** from -10°C to +110°C.
- Pumped liquid:** clean, free from solids and mineral oils, non viscous, chemically neutral, close to the characteristics of water (max 30% glycol).
- Maximum operating pressure:** 10 bar (1000 kPa).
- Minimum suction pressure:** the values are given in the relative tables.
- Installation:** with HORIZONTAL MOTOR SHAFT on discharge or return pipe, with suction port as close as possible to expansion vessel, above maximum boiler level and as far as possible from bends, elbows, and circuit branches to avoid water turbulence with consequent noise.
- Protection level:** corresponding to IP 44
- Insulation class:** F
- Cable grommet:** PG 11
- Special executions on requests:** alternative voltages and/or frequencies.
- Optional accessories:** 1 3/4" F - 1" F - 1 1/4" F - 1 1/4" M unions
DN20-DN25-DN32 oval counter-flanges
DN32/PN6 round counter-flanges

APPLICATIONS

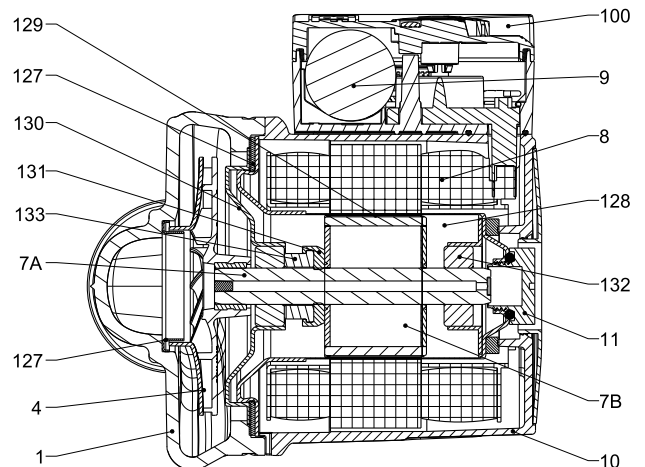
Pump for hot water circulation in domestic central heating and air conditioning systems of the closed circuit pressurized type or open circuit type.

CONSTRUCTION FEATURES

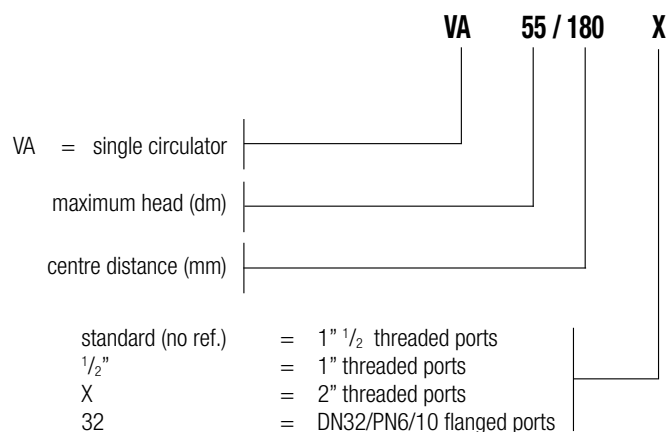
Enbloc body composed of hydraulic section in cast iron and wet rotor motor. Motor casing in die cast aluminium. Impeller in technopolymer. Motor shaft in hardened stainless steel held in graphite bearings lubricated by the pumping medium.
Rotor protective jacket, stator jacket, and closing flange in stainless steel.
Ceramic thrust ring, ethylene-propylene seal rings and brass air breather plug. The two-pole asynchronous wet-rotor motor is resistance protected and does not require any form of overload protection.
Three-speed operation.
Protection rating: IP 44
Insulation class: F
Cable gland: PG 11
Installation: with horizontal motor shaft.
Standard voltage input: single-phase 230 V / 50 Hz
Special versions on request - alternative voltages and/or frequencies

MATERIALS

N.	PARTS	MATERIALS
1	PUMP BODY	CAST IRON WITH CATAPHORESIS TREATMENT
4	IMPELLER	TECHNOPOLYMER
7A	MOTOR SHAFT	ALUMINA
10	MOTOR CASING	DIE CAST ALUMINIUM
11	BREATHER PLUG	BRASS
100	CONTROL BOX	NYLON
127	SEAL RING	EPDM
128	STATOR JACKET	STAINLESS STEEL
129	ROTOR JACKET	STAINLESS STEEL
130	CLOSING FLANGE	STAINLESS STEEL
131	THRUST RING SUPPORT	EPDM
132	BUSHINGS	ALUMINA
133	THRUST RING	GRAPHITE



- Legend:
(example)

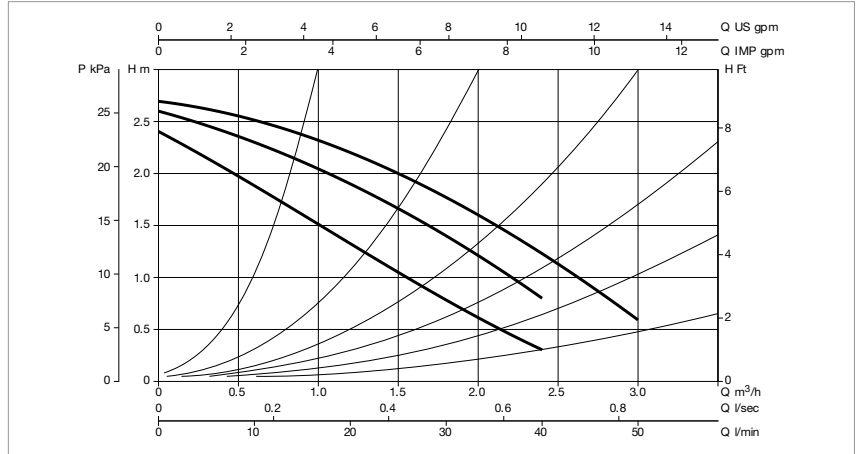
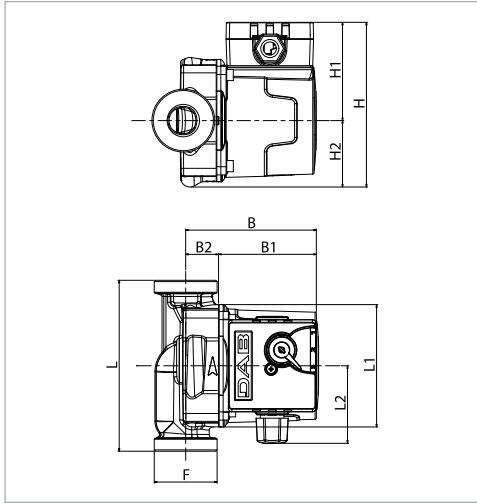


SELECTION TABLE - VA SINGLE WITH UNIONS

MODEL	Q=m ³ /h	0	0,6	1,2	1,8	2,4	3	4,2
	Q=l/min	0	10	20	30	40	50	70
VA 25/130	H (m)	2,71	2,45	2,15	1,75	1,2	0,6	
VA 25/180		2,71	2,45	2,15	1,75	1,2	0,6	
VA 25/180X		2,71	2,45	2,15	1,75	1,2	0,6	
VA 35/130		4,3	3,9	3,4	2,8	2,15	1,4	
VA 35/130-1/2"		4,3	3,9	3,4	2,8	2,15	1,4	
VA 35/180		4,3	3,9	3,4	2,8	2,15	1,4	
VA 35/180 X		4,3	3,9	3,4	2,8	2,15	1,4	
VA 55/130		5,4	4,7	4,5	3,3	2,6	1,75	0,85
VA 55/130-1/2"		5,4	4,7	4,5	3,3	2,6	1,75	0,85
VA 55/180		5,4	4,7	4,5	3,3	2,6	1,75	0,85
VA 55/180 X		5,4	4,7	4,5	3,3	2,6	1,75	0,85
VA 65/130		6,3	5,8	5,3	4,3	3,4	2,4	
VA 65/130-1/2"		6,3	5,8	5,3	4,3	3,4	2,4	
VA 65/180		6,3	5,8	5,3	4,3	3,4	2,4	
VA 65/180 X		6,3	5,8	5,3	4,3	3,4	2,4	

VA 25/130 - HEATING AND AIR CONDITIONING SYSTEMS

Pumped liquid temperature range: from -10 °C to +110 °C - Maximum operating pressure: 10 bar (1000 kPa)



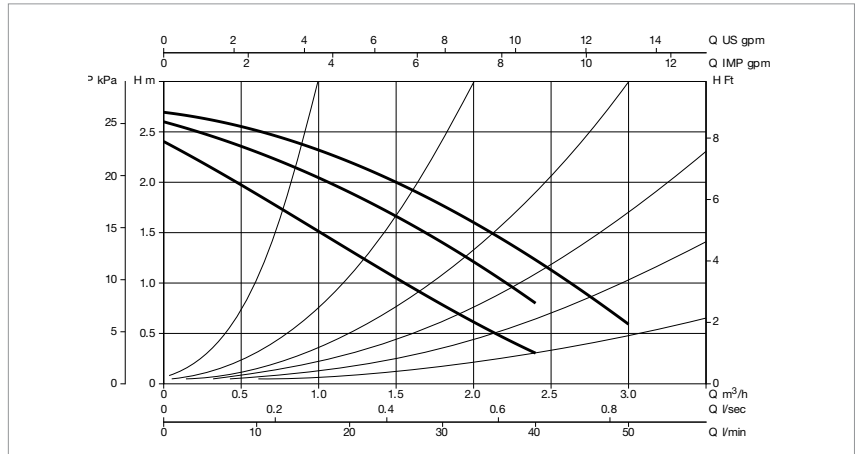
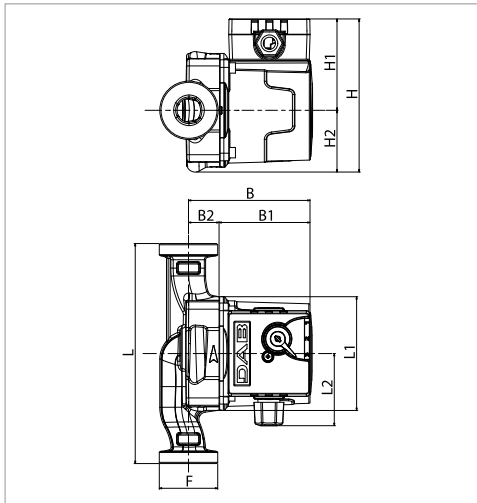
The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

MODEL	CENTRE DISTANCE mm	POWER INPUT 50 Hz	UNIONS ON REQUEST		ELECTRICAL DATA						MINIMUM SUCTION PRESSURE	
			STANDARDISED	SPECIAL	SPEED	REV. 1/min	P1 MAX W	In A	CAPACITOR		t°	90 °
								µF	Vc			
VA 25/130	130	1x230 V ~	1" F	¾" F - 1¼" M	3	2655	43	0,19	1,5	450	m.c.a.	1,5
					2	2380	38	0,17				
					1	1680	31	0,15				

MODEL	L	L1	L2	B	B1	B2	H	H1	H2	F	PACKING DIMENSIONS			VOLUME m³	WEIGHT kg
											L	B	H		
VA 25/130	130	93	59	100	74	26	125,5	75	50,5	1" 1/2	135	135	150	0,0027	2,5

VA 25/180 - HEATING AND AIR CONDITIONING SYSTEMS

Pumped liquid temperature range: from -10 °C to +110 °C - Maximum operating pressure: 10 bar (1000 kPa)



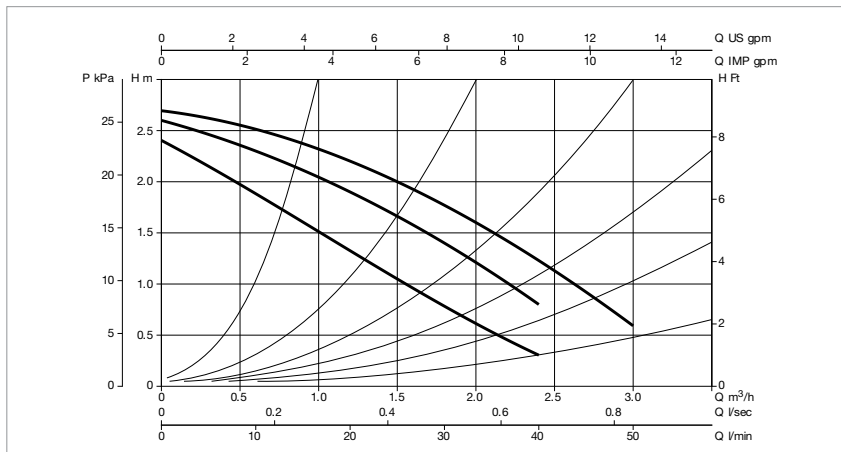
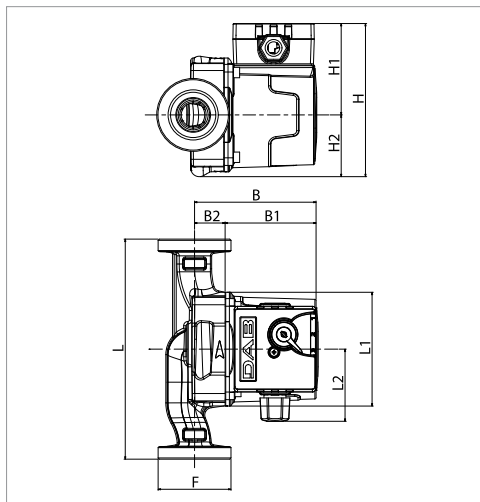
The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

MODEL	CENTRE DISTANCE mm	POWER INPUT 50 Hz	UNIONS ON REQUEST		ELECTRICAL DATA						MINIMUM SUCTION PRESSURE	
			STANDARDISED	SPECIAL	SPEED	REV. 1/min	P1 MAX W	In A	CAPACITOR		t°	90 °
								µF	Vc			
VA 25/180	180	1x230 V ~	1" F	¾" F - 1¼" M	3	2655	43	0,19	1,5	450	m.c.a.	1,5
					2	2380	38	0,17				
					1	1680	31	0,15				

MODEL	L	L1	L2	B	B1	B2	H	H1	H2	F	PACKING DIMENSIONS			VOLUME m³	WEIGHT kg
											L	B	H		
VA 25/180	180	93	59	100	74	26	125,5	75	50,5	1" 1/2	130	190	150	0,0037	2,6

VA 25/180X - HEATING AND AIR CONDITIONING SYSTEMS

Pumped liquid temperature range: from -10 °C to +110 °C - Maximum operating pressure: 10 bar (1000 kPa)



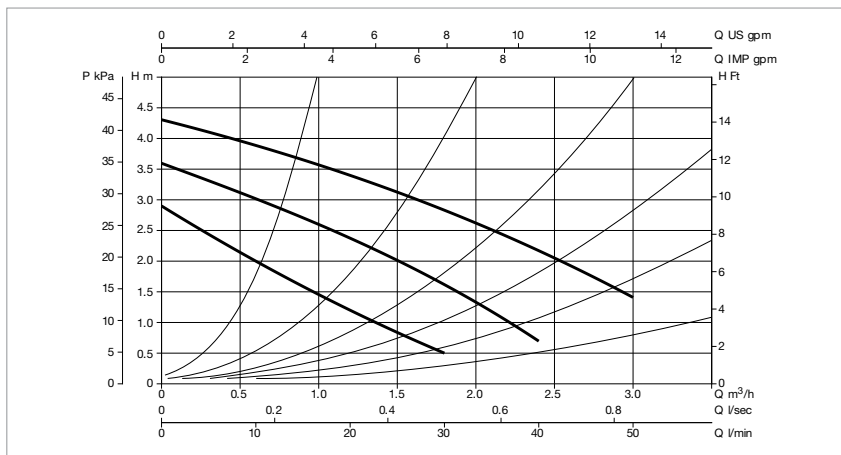
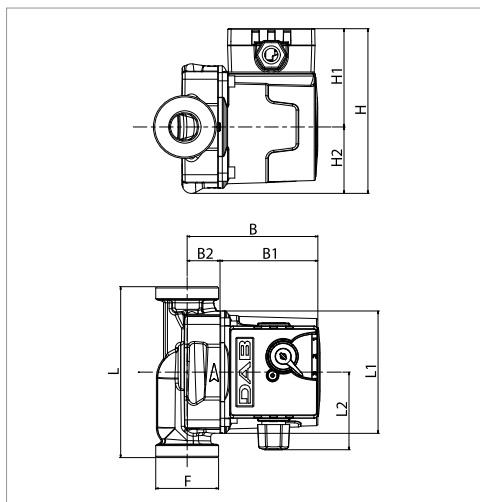
The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

MODEL	CENTRE DISTANCE mm	POWER INPUT 50 Hz	UNIONS ON REQUEST		ELECTRICAL DATA						MINIMUM SUCTION PRESSURE	
			STANDARDISED	SPEED	REV. 1/min	P1 MAX W	In A	CAPACITOR		t°	90 °	
VA 25/180X	180	1x230 V ~	1" 1/4" F	3	2655	43	0,19	1,5	450	m.c.a.	1,5	
				2	2380	38	0,17					
				1	1680	31	0,15					

MODEL	L	L1	L2	B	B1	B2	H	H1	H2	F	PACKING DIMENSIONS			VOLUME m ³	WEIGHT kg
											L	B	H		
VA 25/180X	180	93	59	100	74	26	125,5	75	50,5	2"	130	190	150	0,0037	2,6

VA 35/130 - HEATING AND AIR CONDITIONING SYSTEMS

Pumped liquid temperature range: from -10 °C to +110 °C - Maximum operating pressure: 10 bar (1000 kPa)



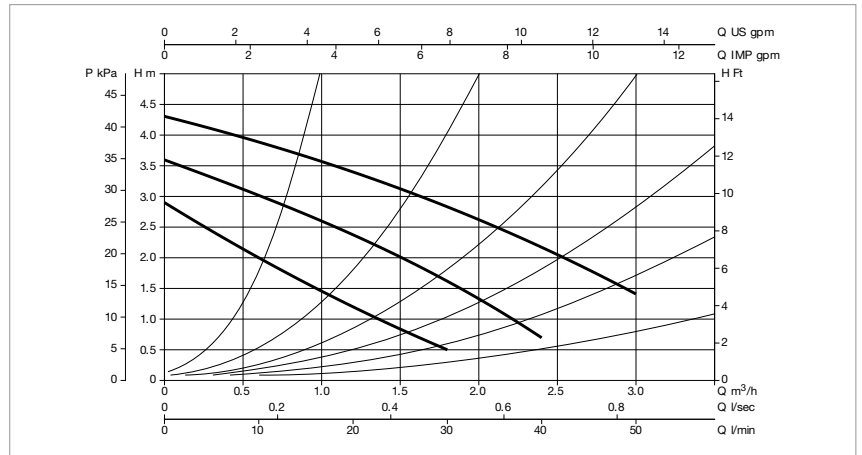
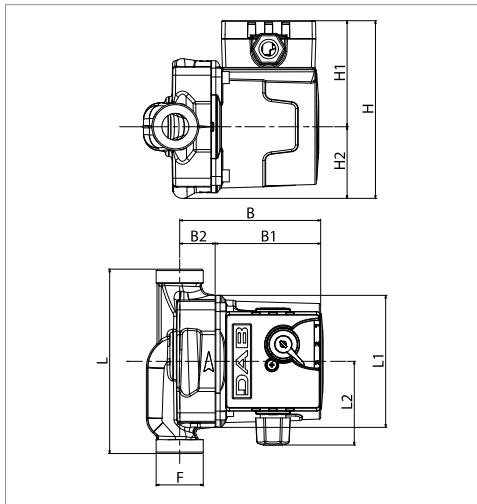
The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

MODEL	CENTRE DISTANCE mm	POWER INPUT 50 Hz	UNIONS ON REQUEST		ELECTRICAL DATA						MINIMUM SUCTION PRESSURE	
			STANDARDISED	SPECIAL	SPEED	REV. 1/min	P1 MAX W	In A	CAPACITOR		t°	90 °
VA 35/130	130	1x230 V ~	1" F	3/4" F - 1 1/4" M	3	2465	56	0,25	1,7	450	m.c.a.	1,5
					2	1930	50	0,22				
					1	1150	35	0,16				

MODEL	L	L1	L2	B	B1	B2	H	H1	H2	F	PACKING DIMENSIONS			VOLUME m ³	WEIGHT kg
											L	B	H		
VA 35/130	130	93	59	100	74	26	125,5	75	50,5	1" 1/2	135	135	150	0,0027	2,5

VA 35/130 - 1/2" - HEATING AND AIR CONDITIONING SYSTEMS

Pumped liquid temperature range: from -10 °C to +110 °C - Maximum operating pressure: 10 bar (1000 kPa)



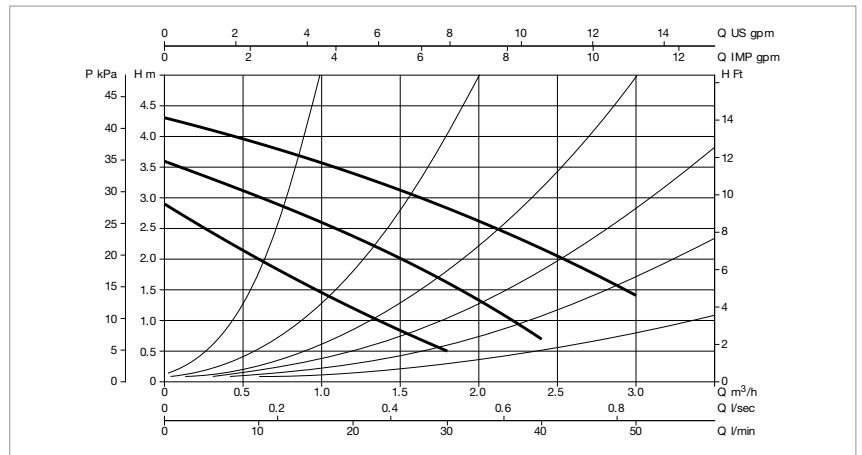
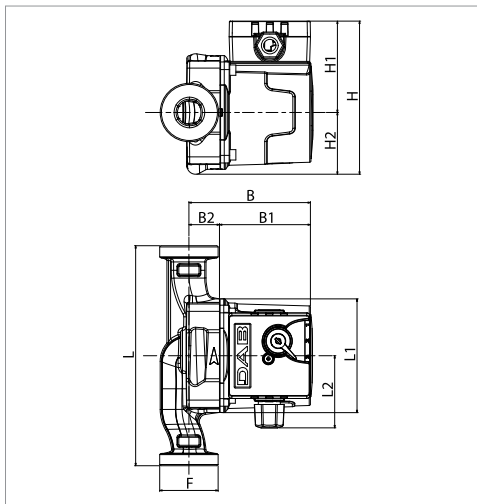
The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

MODEL	CENTRE DISTANCE mm	POWER INPUT 50 Hz	UNIONS ON REQUEST		ELECTRICAL DATA						MINIMUM SUCTION PRESSURE	
			STANDARDISED	SPECIAL	SPEED	REV. 1/min	P1 MAX W	In A	CAPACITOR		t°	90 °
									μF	Vc		
VA 35/130 - 1/2"	130	1x230 V ~	-	-	3	2465	56	0,25	1,7	450	m.c.a.	1,5
					2	1930	50	0,22				
					1	1150	35	0,16				

MODEL	L	L1	L2	B	B1	B2	H	H1	H2	F	PACKING DIMENSIONS			VOLUME m ³	WEIGHT kg
											L	B	H		
VA 35/130 - 1/2"	130	93	59	100	74	26	125,5	75	50,5	1/2"	135	135	150	0,0027	2,5

VA 35/180 - HEATING AND AIR CONDITIONING SYSTEMS

Pumped liquid temperature range: from -10 °C to +110 °C - Maximum operating pressure: 10 bar (1000 kPa)



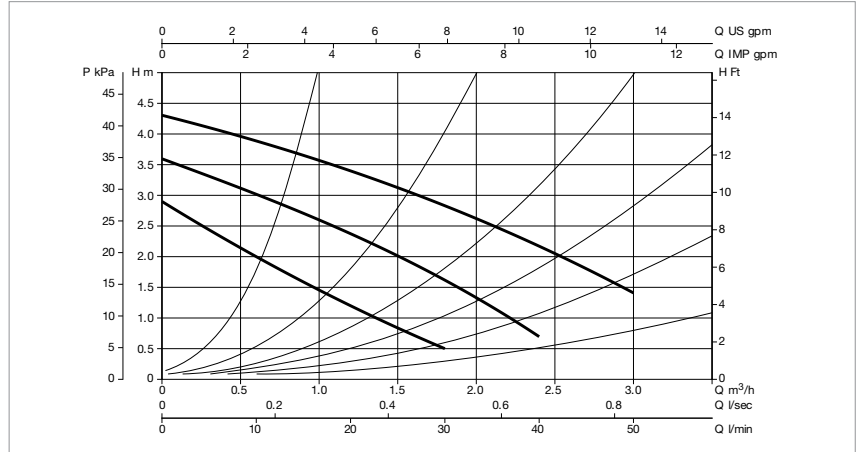
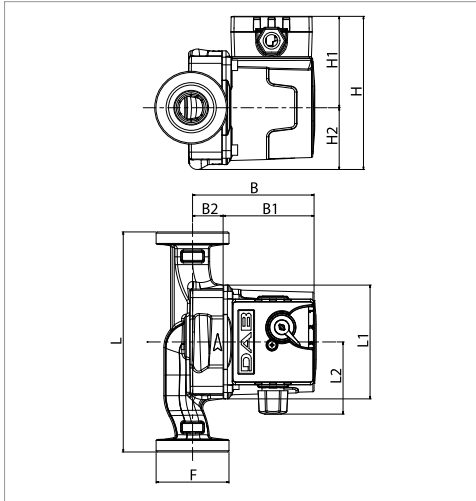
The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

MODEL	CENTRE DISTANCE mm	POWER INPUT 50 Hz	UNIONS ON REQUEST		ELECTRICAL DATA						MINIMUM SUCTION PRESSURE	
			STANDARDISED	SPECIAL	SPEED	REV. 1/min	P1 MAX W	In A	CAPACITOR		t°	90 °
									μF	Vc		
VA 35/180	180	1x230 V ~	1" F	3/4" F - 1 1/4" M	3	2465	56	0,25	1,7	450	m.c.a.	1,5
					2	1930	50	0,22				
					1	1150	35	0,16				

MODEL	L	L1	L2	B	B1	B2	H	H1	H2	F	PACKING DIMENSIONS			VOLUME m ³	WEIGHT kg
											L	B	H		
VA 35/180	180	93	59	100	74	26	125,5	75	50,5	1" 1/2	130	190	150	0,0037	2,6

VA 35/180X - HEATING AND AIR CONDITIONING SYSTEMS

Pumped liquid temperature range: from -10 °C to +110 °C - Maximum operating pressure: 10 bar (1000 kPa)



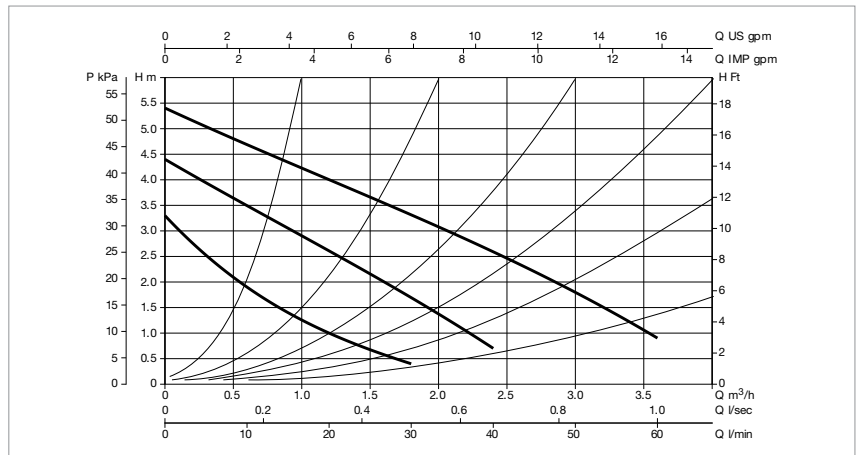
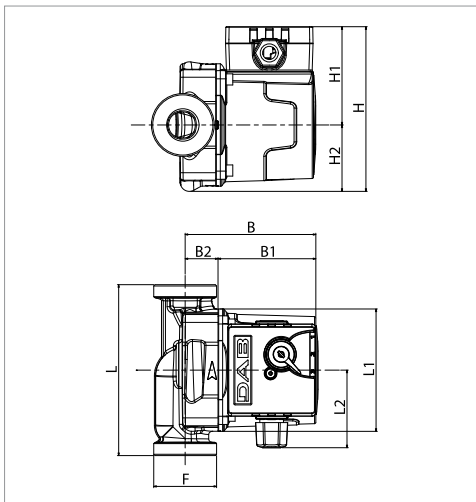
The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

MODEL	CENTRE DISTANCE mm	POWER INPUT 50 Hz	UNIONS ON REQUEST		ELECTRICAL DATA						MINIMUM SUCTION PRESSURE		
			STANDARDISED	SPECIAL	SPEED	REV. 1/min	P1 MAX W	In A	CAPACITOR		t°	90 °	
										µF	Vc		
VA 35/180X	180	1x230 V ~	-	-	3	2465	56	0,25	1,7	450	m.c.a.	1,5	
					2	1930	50	0,22					
					1	1150	35	0,16					

MODEL	L	L1	L2	B	B1	B2	H	H1	H2	F	PACKING DIMENSIONS			VOLUME m ³	WEIGHT kg
											L	B	H		
VA 35/180X	180	93	59	100	74	26	125,5	75	50,5	2"	130	190	150	0,0037	2,6

VA 55/130 - HEATING AND AIR CONDITIONING SYSTEMS

Pumped liquid temperature range: from -10 °C to +110 °C - Maximum operating pressure: 10 bar (1000 kPa)



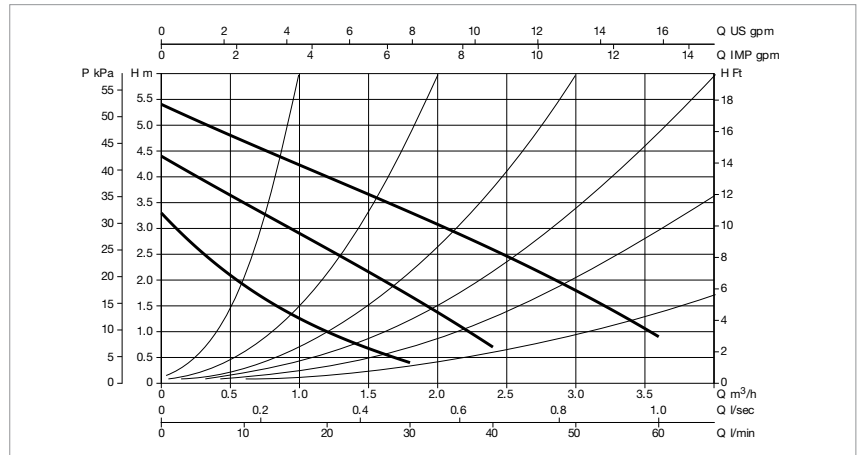
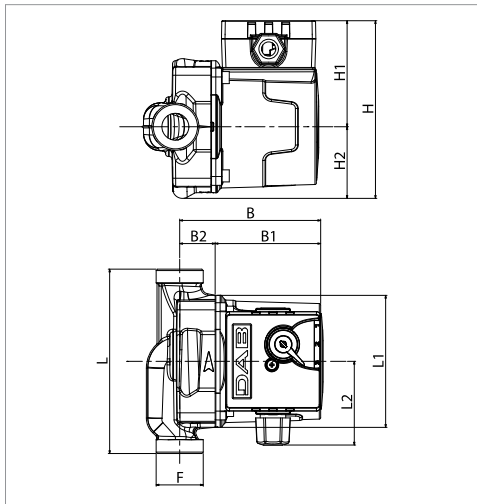
The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

MODEL	CENTRE DISTANCE mm	POWER INPUT 50 Hz	UNIONS ON REQUEST		ELECTRICAL DATA						MINIMUM SUCTION PRESSURE		
			STANDARDISED	SPECIAL	SPEED	REV. 1/min	P1 MAX W	In A	CAPACITOR		t°	90 °	
										µF	Vc		
VA 55/130	130	1x230 V ~	1" F	¾" F - 1¼" M	3	2400	70	0,3	1,7	450	m.c.a.	1,5	
					2	1600	58	0,26					
					1	930	36	0,17					

MODEL	L	L1	L2	B	B1	B2	H	H1	H2	F	PACKING DIMENSIONS			VOLUME m ³	WEIGHT kg
											L	B	H		
VA 55/130	130	93	59	100	74	26	125,5	75	50,5	1 1/2"	135	135	150	0,0027	2,5

VA 55/130 - 1/2" - HEATING AND AIR CONDITIONING SYSTEMS

Pumped liquid temperature range: from -10 °C to +110 °C - Maximum operating pressure: 10 bar (1000 kPa)



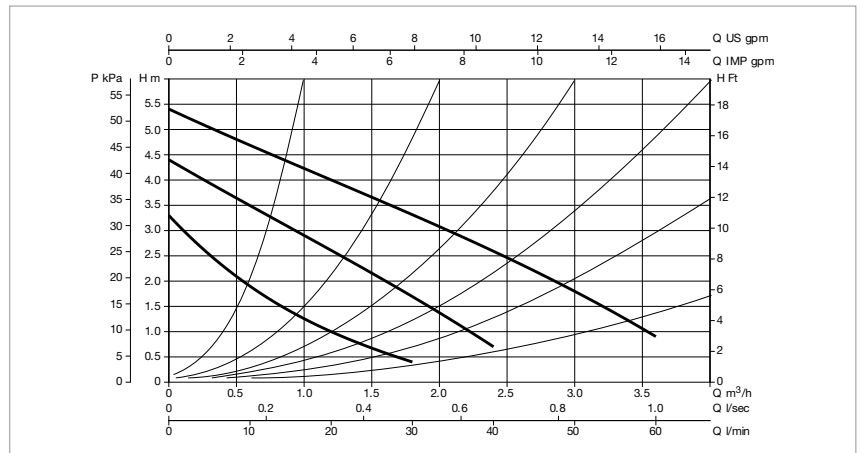
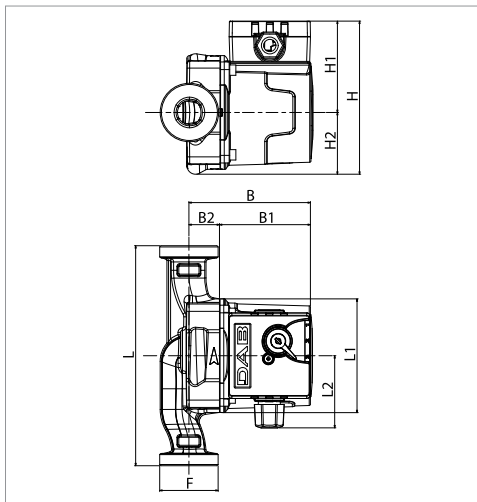
The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

MODEL	CENTRE DISTANCE mm	POWER INPUT 50 Hz	UNIONS ON REQUEST		ELECTRICAL DATA						MINIMUM SUCTION PRESSURE	
			STANDARDISED	SPECIAL	SPEED	REV. 1/min	P1 MAX W	In A	CAPACITOR µF Vc		t°	90 °
VA 55/130 - 1/2"	130	1x230 V ~	-	-	3	2400	70	0,3	1,7	450	m.c.a.	1,5
					2	1600	58	0,26				
					1	930	36	0,17				

MODEL	L	L1	L2	B	B1	B2	H	H1	H2	F	PACKING DIMENSIONS			VOLUME m ³	WEIGHT kg
											L	B	H		
VA 55/130 - 1/2"	130	93	59	100	74	26	125,5	75	50,5	1/2"	135	135	150	0,0027	2,5

VA 55/180 - HEATING AND AIR CONDITIONING SYSTEMS

Pumped liquid temperature range: from -10 °C to +110 °C - Maximum operating pressure: 10 bar (1000 kPa)



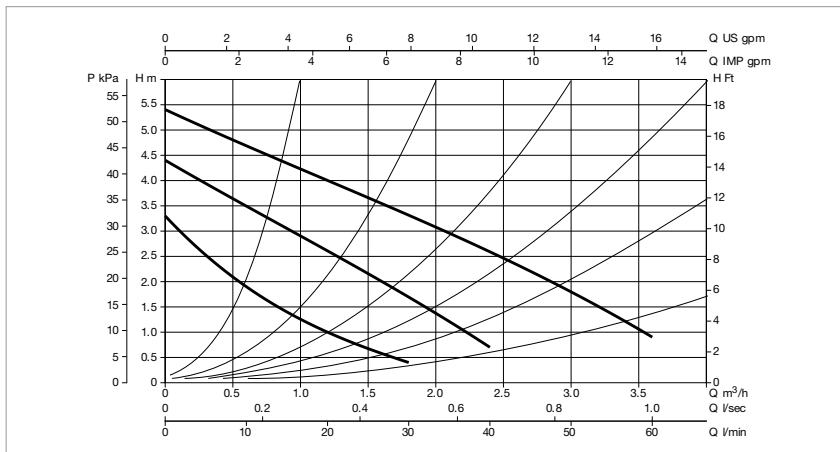
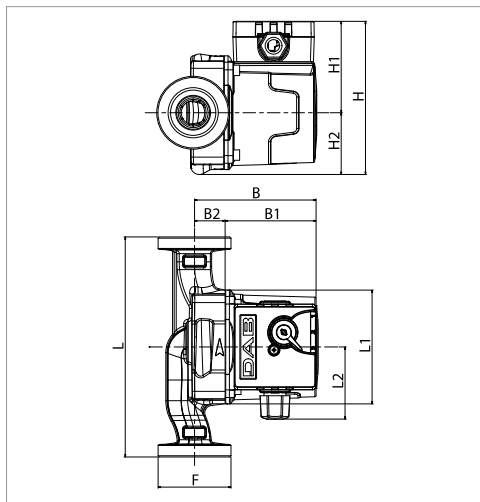
The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

MODEL	CENTRE DISTANCE mm	POWER INPUT 50 Hz	UNIONS ON REQUEST		ELECTRICAL DATA						MINIMUM SUCTION PRESSURE	
			STANDARDISED	SPECIAL	SPEED	REV. 1/min	P1 MAX W	In A	CAPACITOR µF Vc		t°	90 °
VA 55/180	180	1x230 V ~	1" F	3/4" F - 1 1/4" M	3	2400	70	0,3	1,7	450	m.c.a.	1,5
					2	1600	58	0,26				
					1	930	36	0,17				

MODEL	L	L1	L2	B	B1	B2	H	H1	H2	F	PACKING DIMENSIONS			VOLUME m ³	WEIGHT kg
											L	B	H		
VA 55/180	180	93	59	100	74	26	125,5	75	50,5	1" 1/2	130	190	150	0,0037	2,6

VA 55/180X - HEATING AND AIR CONDITIONING SYSTEMS

Pumped liquid temperature range: from -10 °C to +110 °C - Maximum operating pressure: 10 bar (1000 kPa)



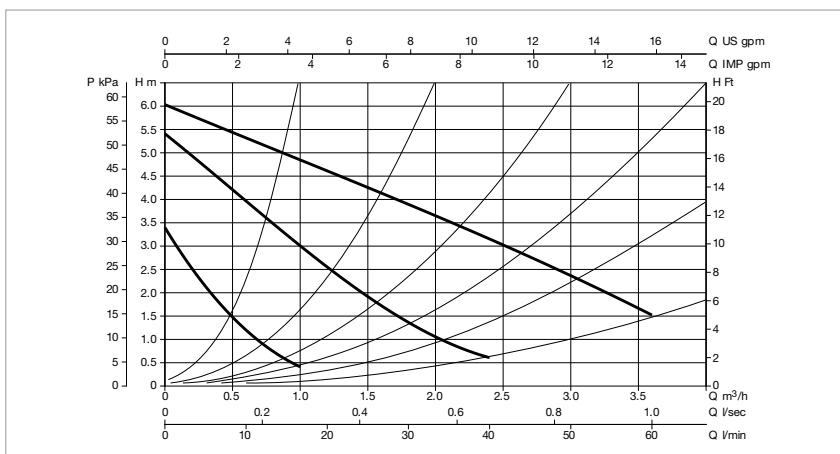
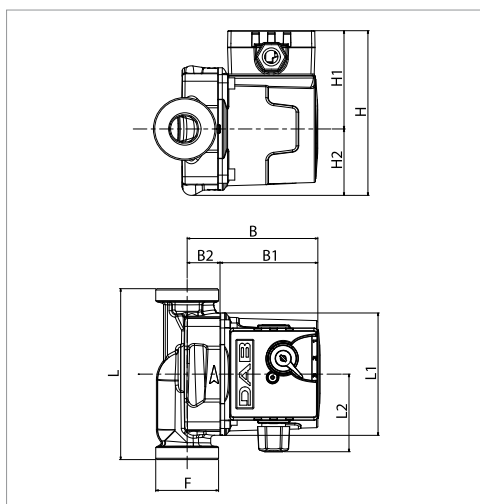
The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

MODEL	CENTRE DISTANCE mm	POWER INPUT 50 Hz	UNIONS ON REQUEST		ELECTRICAL DATA					MINIMUM SUCTION PRESSURE	
			STANDARDISED	SPEED	REV. 1/min	P1 MAX W	In A	CAPACITOR		†°	90 °
VA 55/180X	180	1x230V ~	1" ¼" F	3	2400	70	0,3	1,7	450	m.c.a.	1,5
				2	1600	58	0,26				
				1	930	36	0,17				

MODEL	L	L1	L2	B	B1	B2	H	H1	H2	F	PACKING DIMENSIONS			VOLUME m ³	WEIGHT kg
											L	B	H		
VA 55/180X	180	93	59	100	74	26	125,5	75	50,5	2"	130	190	150	0,0037	2,6

VA 65/130 - HEATING AND AIR CONDITIONING SYSTEMS

Pumped liquid temperature range: from -10 °C to +110 °C - Maximum operating pressure: 10 bar (1000 kPa)



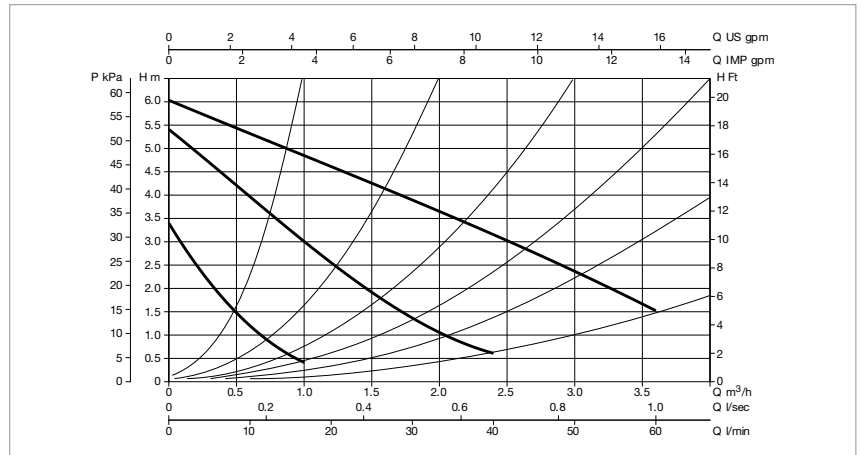
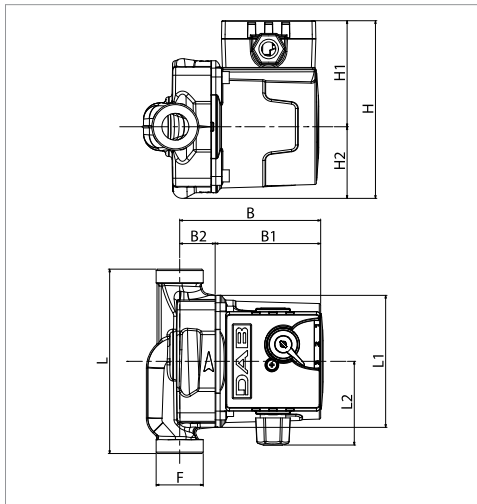
The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

MODEL	CENTRE DISTANCE mm	POWER INPUT 50 Hz	UNIONS ON REQUEST		ELECTRICAL DATA					MINIMUM SUCTION PRESSURE		
			STANDARDISED	SPECIAL	SPEED	REV. 1/min	P1 MAX W	In A	CAPACITOR		†°	90 °
VA 65/130	130	1x230V ~	1" F	¾" F - 1¼" M	3	2310	78	0,34	2	450	m.c.a.	2,5
					2	1532	59	0,26				
					1	880	37	0,17				

MODEL	L	L1	L2	B	B1	B2	H	H1	H2	F	PACKING DIMENSIONS			VOLUME m ³	WEIGHT kg
											L	B	H		
VA 65/130	130	93	59	100	74	26	125,5	75	50,5	1" 1/2	135	135	150	0,0027	2,5

VA 65/130 - 1/2" - HEATING AND AIR CONDITIONING SYSTEMS

Pumped liquid temperature range: from -10 °C to +110 °C - Maximum operating pressure: 10 bar (1000 kPa)



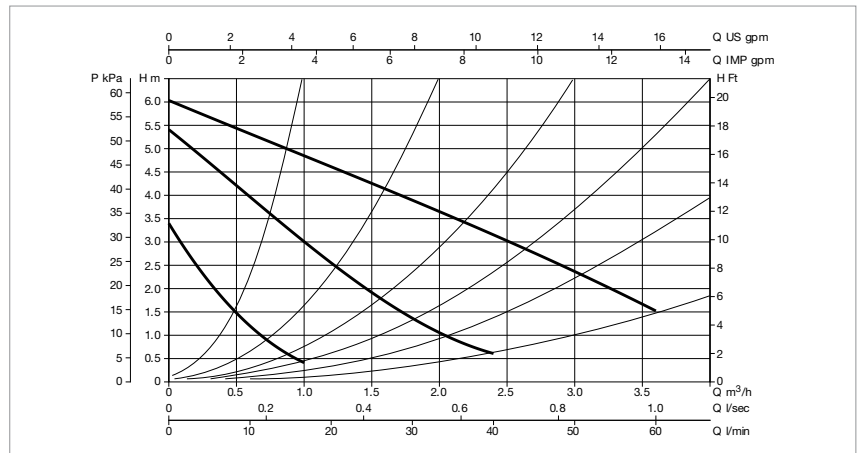
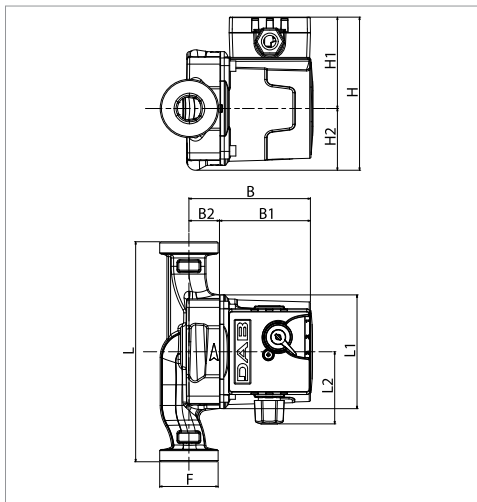
The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

MODEL	CENTRE DISTANCE mm	POWER INPUT 50 Hz	UNIONS ON REQUEST		ELECTRICAL DATA						MINIMUM SUCTION PRESSURE	
			STANDARDISED	SPECIAL	SPEED	REV. 1/min	P1 MAX W	In A	CAPACITOR μF Vc		t°	90 °
VA 65/130 - 1/2"	130	1x230 V ~	-	-	3	2310	78	0,34	2	450	m.c.a.	2,5
					2	1532	59	0,26				
					1	880	37	0,17				

MODEL	L	L1	L2	B	B1	B2	H	H1	H2	F	PACKING DIMENSIONS			VOLUME m ³	WEIGHT kg
											L	B	H		
VA 65/130 - 1/2"	130	93	59	100	74	26	125,5	75	50,5	1/2"	135	135	150	0,0027	2,5

VA 65/180 - HEATING AND AIR CONDITIONING SYSTEMS

Pumped liquid temperature range: from -10 °C to +110 °C - Maximum operating pressure: 10 bar (1000 kPa)



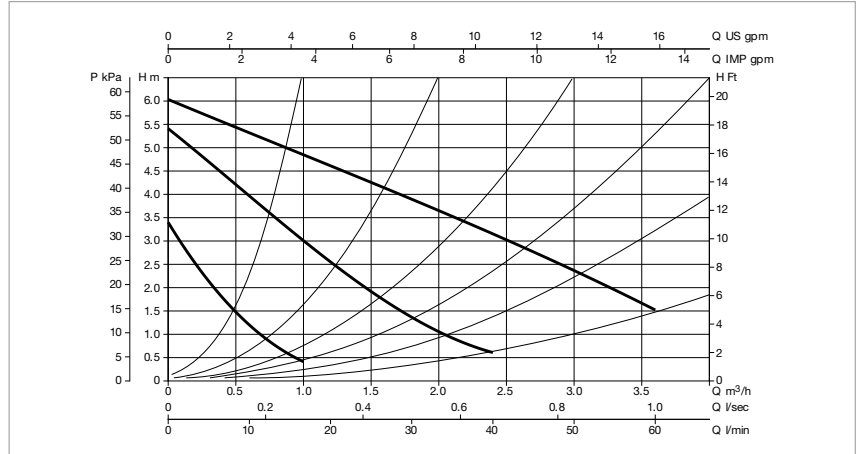
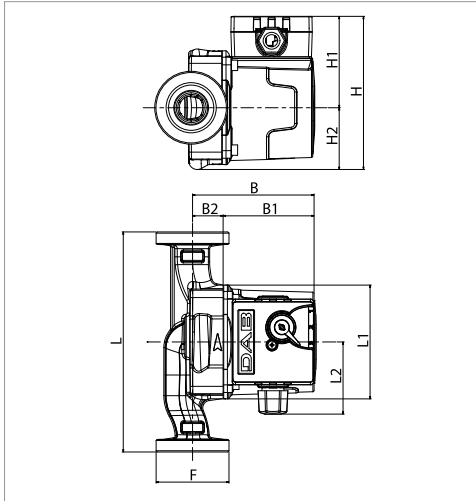
The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

MODEL	CENTRE DISTANCE mm	POWER INPUT 50 Hz	UNIONS ON REQUEST		ELECTRICAL DATA						MINIMUM SUCTION PRESSURE	
			STANDARDISED	SPECIAL	SPEED	REV. 1/min	P1 MAX W	In A	CAPACITOR μF Vc		t°	90 °
VA 65/180	180	1x230 V ~	1" F	3/4" F - 1 1/4" M	3	2310	78	0,34	2	450	m.c.a.	2,5
					2	1532	59	0,26				
					1	880	37	0,17				

MODEL	L	L1	L2	B	B1	B2	H	H1	H2	F	PACKING DIMENSIONS			VOLUME m ³	WEIGHT kg
											L	B	H		
VA 65/180	180	93	59	100	74	26	125,5	75	50,5	1 1/2"	130	190	150	0,0037	2,6

VA 65/180X - HEATING AND AIR CONDITIONING SYSTEMS

Pumped liquid temperature range: from -10 °C to +110 °C - Maximum operating pressure: 10 bar (1000 kPa)



The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

MODEL	CENTRE DISTANCE mm	POWER INPUT 50 Hz	UNIONS ON REQUEST	ELECTRICAL DATA						MINIMUM SUCTION PRESSURE		
			STANDARDISED	SPEED	REV. 1/min	P1 MAX W	In A	CAPACITOR		t°	90 °	
									μF	Vc		
VA 65/180X	180	1x230 V ~	1" 1/4" F	3	2310	78	0,34	2	450	m.c.a.	2,5	
				2	1532	59	0,26					
				1	880	37	0,17					

MODEL	L	L1	L2	B	B1	B2	H	H1	H2	F	PACKING DIMENSIONS			VOLUME m ³	WEIGHT kg
											L	B	H		
VA 65/180X	180	93	59	100	74	26	125,5	75	50,5	2"	130	190	150	0,0037	2,6