

PRODUCT CATALOGUE

HOT WATER
CIRCULATOR

2020



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HOT WATER

CIRCULATION PUMP



APPLICATIONS

The UPS Hot Water Circulator pump is designed for circulation of liquids in heating, air-conditioning systems. Examples of typical applications are hot water service systems, underfloor heating systems, hot water circulator systems, solar hot water circulation systems, etc.

OPERATING CONDITIONS

Max. Flow: 10m³

Max. Head: 12m

LIMITS OF USE

Liquid temperature:	+2°C~+110°C
Maximum ambient temperature:	+40°C
Maximum system pressure:	10 bar
Protection Level:	IP44
Mains connection:	220V/50Hz
Insulation class:	H
Pumped liquid characteristics:	Clean liquids, free from solids and mineral oils, non-toxic, chemically neutral, close to the characteristics of water.
Installation:	The motor shaft must be kept in horizontal direction.
pH:	6.5 to 8.5

Unions are included with the purchase of this product.

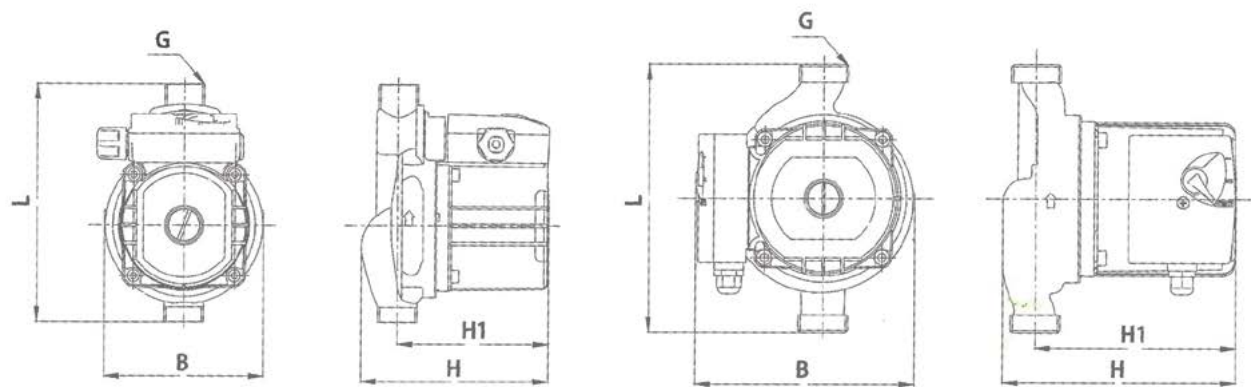


TECHNICAL DATA

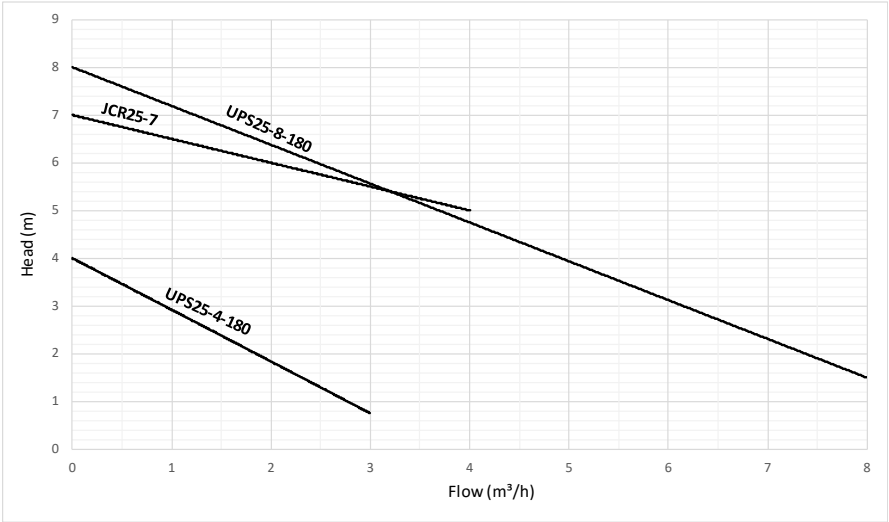
Model	Dim. (mm)					Unions	N.W. (kg)
	H	H1	L	G	B		
UPS25-4-180	130	105	180	G1 ½"	130	G1 ½" to G1"	3
JCR25-7	130	105	180	G1"	125	G1 ½" to G1"	2.8
UPS25-8-180	160	130	180	G1 ½"	150	G1 ½" to G1"	5

Model	Speed	Input Power (w)	Voltage	Max Head (m)	Max flow (m ³ /h)	G.W. (kg)
			(V/Hz)			
UPS25-4-180	3	60	220~240V/50Hz	4	3	3.0
	2	45				
	1	30				
JCR25-7	3	135	220~240V/50Hz	7	3.9	2.8
	2	93		6.5	2.64	
	1	67		4.5	1.32	
UPS25-8-180	3	200	220~240V/50Hz	8	7	5.0
	2	185				
	1	145				

DIMENSIONS



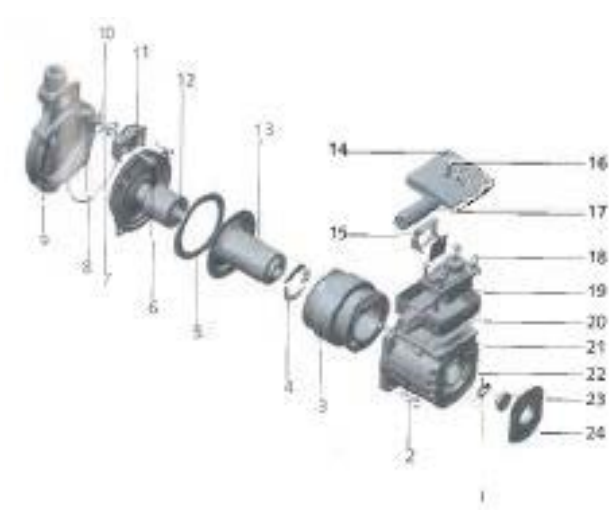
PERFORMANCE CURVE

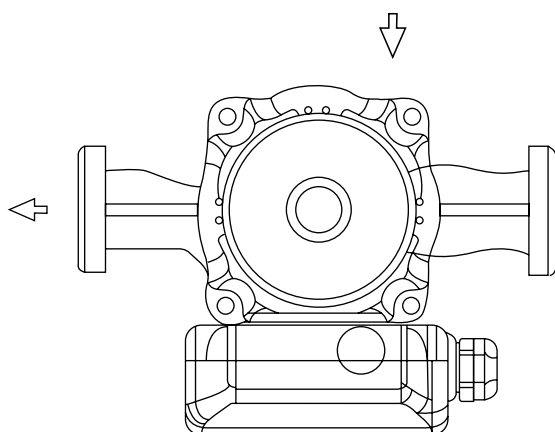
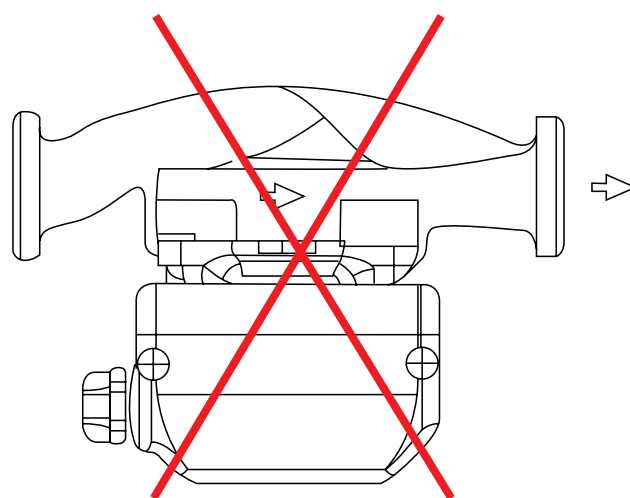
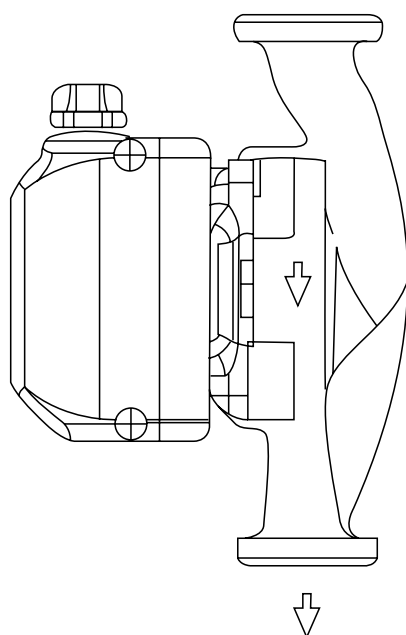
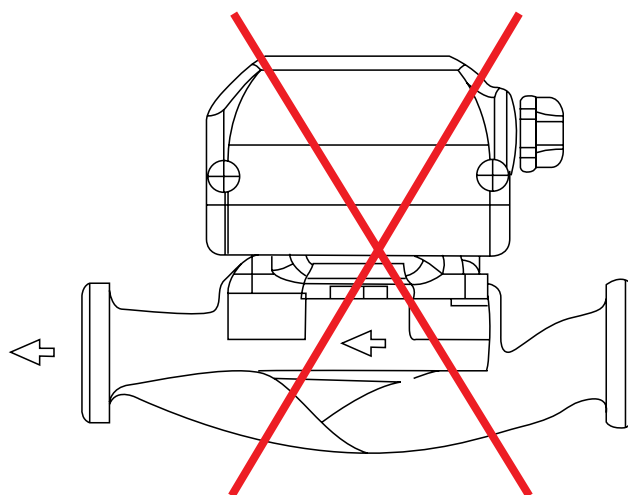
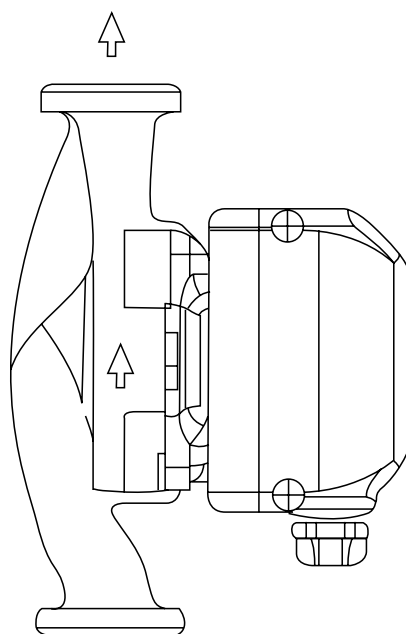


No.	Component	Material
1	Nameplate	PA6
2	Air Clock	Brass
3	O-ring	EPDM
4	Hex Socket Screws	Steel
5	Stator Housing	Aluminium
6	Stator	/
7	Sealing Ring II	EPDM
8	Rotor Can	Stainless Steel
9	Sealing Ring I	EPDM

No.	Component	Material
10	Impeller	PES+GF
	Shaft	Ceramic
	Thrust Bearing	Graphite
	Radial Bearing	Ceramic
11	Pump Bidy	Cas iron
12	Terminal Box Cover	ABS
13	Capacitor	/
14	Circuit Board	/
15	Self-tapping Screw	Stainless Steel
16	Capacitor Bracket	ABS
17	Screws	Steel
18	Terminal Box Base	PA66G30
19	Terminal Box Sealing Gasket	EPDM

DIAGRAM





HOT WATER

CIRCULATION PUMP



TECHNICAL DATA

Single phase	
Continuous heavy duty rated	
Max. liquid temperature:	110°C
Noise:	<45dB
Insulation:	Class F
Protection class:	IP44

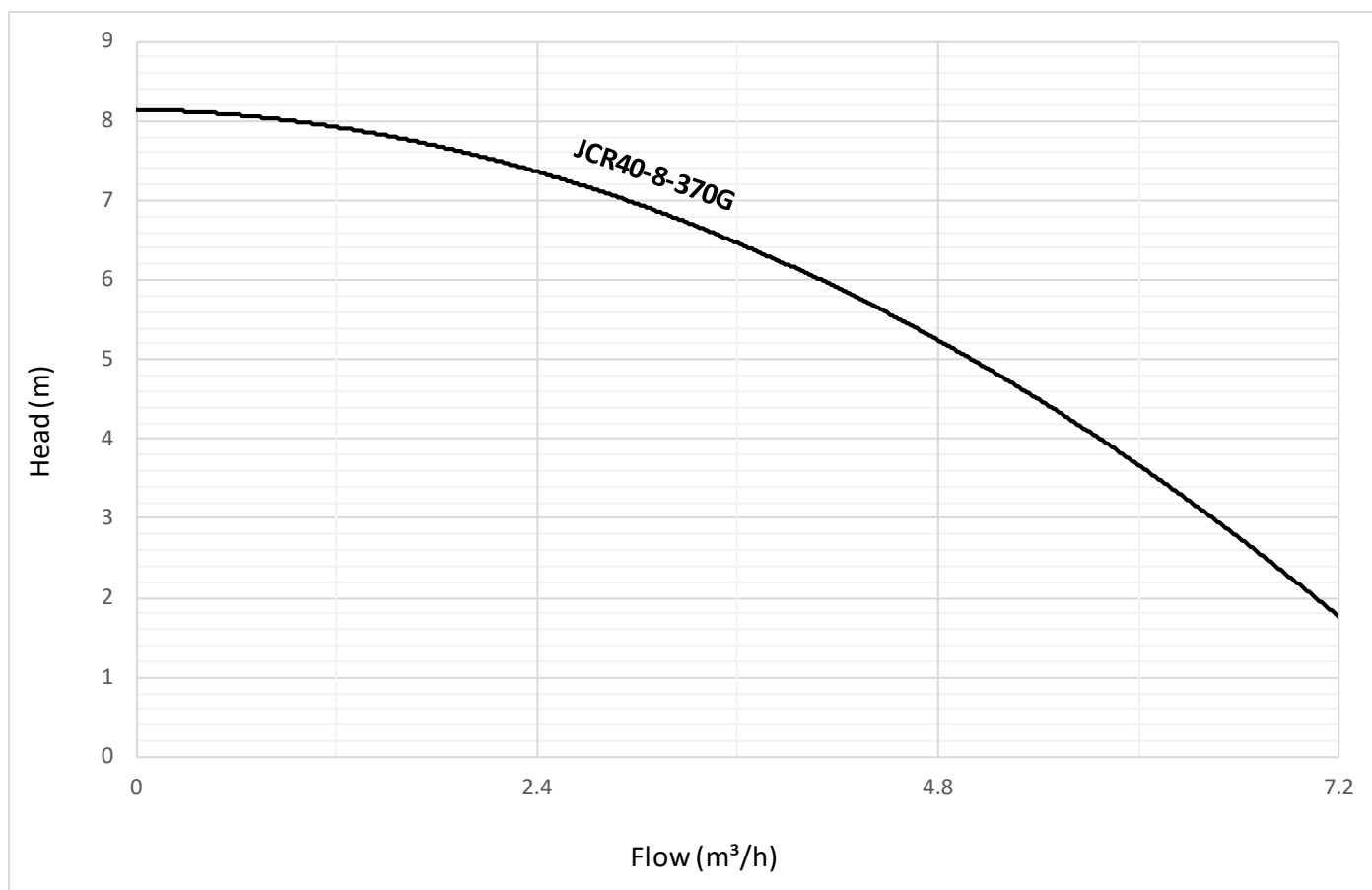
CONSTRUCT

Pump body:	Cast Iron
Impeller:	PA66/Stainless Steel
Pump shell:	Aluminium
Motor wire:	100% Copper
Shaft:	Ceramic
Bearing:	Ceramic
Rotor:	Copper wire

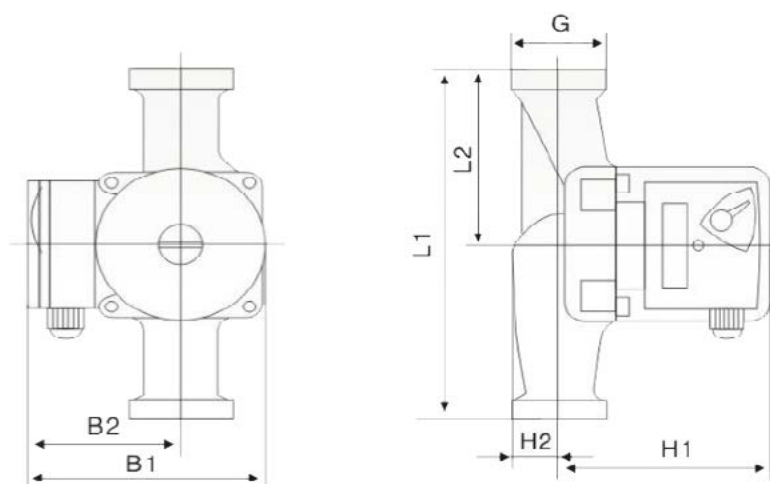
Unions are included with the purchase of this product.

PERFORMANCE DATA

MODEL	INPUT POWER	VOLTAGE	INLET & OUTLET SIZE	SPEED	MAX. FLOW	MAX. HEAD
	(W)	(V/Hz)	(mm)	(r/min)	(L/min)	(m)
JCR40-8- 370G	370	220 /50Hz	40	2860	145	8



DIMENSIONS



MODEL	G	L1	L2	H1	H2	B1	B2
	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
JCR40-8-370G	1 1/2"	180	65	108	29	125	80

HOT WATER CIRCULATOR

ACCESSORY



APPLICATION

The dry-cut connects directly to the UPS range of circulator pumps to prevent dry-running in hot water systems. A spring loaded one-way valve detects flow in the system and will switch on/off as system flow is required or recovers from an intermediate dry run, as overheating at the source causes steam pockets to build up in the pipelines. Dry run for hot water circulation pumps are mostly fatal, as the pumped liquid is used to lubricate the bushes that carry the rotor shaft.







