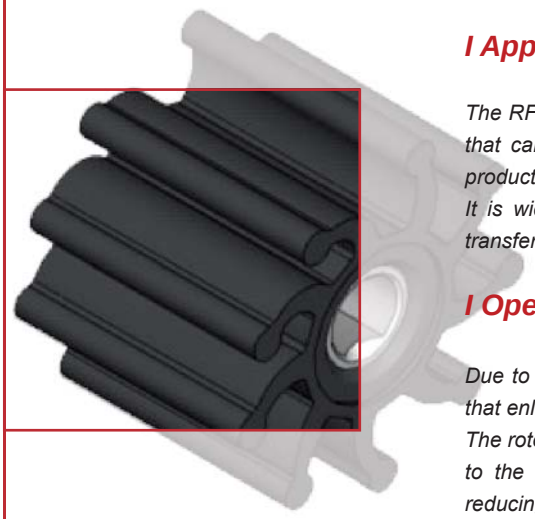
Flexible Impeller Pump

RF for wine



I Application

The RF pump is a flexible impeller pump. Due to their design, they are self-priming pumps that can suction from a maximum height of 5 meters. This type of pumps can transfer products of both low and high viscosity, as well as products containing particles or gases.
It is widely used for transferring wine from one collecting tank to another and aslo for transferring must.

I Operating principle

Due to the eccentric shape of the pump housing, a vacuum is created in the suction side that enlarges the volume between the blades and this causes the product suction.
The rotor is spinning and the product is carried from the suction side to that of delivery. Due to the eccentric shape of the pump housing, in the discharge side the blades bend, reducing the volume between them and causing the discharge of the product.

I Design and features

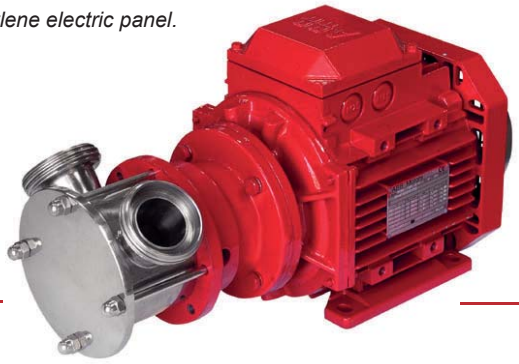
Close-coupled construction.
Investment casting housing.
Impeller driven by a double flat shaft.
DIN 11851 connections.
Motor according to IEC standards: B34, 1500 rpm, 3ph 230/400 V, 50 Hz IP55.
Reversible and self-priming.
Red painted.
Easy maintenance.

I Materials

Parts in contact with pumped media	*AISI 316L*
Lantern and bearing support	*GG 22*
Other parts	*AISI 304*
Impeller	*CR (Neoprene)*
Gaskets	*NBR*
Mechanical seal	*Cer/C/NBR*
Surface finish	*polished, Ra ≤ 0.8 µm*

I Options

Impeller: food grade neoprene.
Mechanical seal: SiC/C and SiC/SiC.
Connections SMS, Clamp, Macon, Garolla, etc.
Motor with other protections.
1000 rpm and 750 rpm motors.
Two-speed motor.
Motor with frequency converter (Control Range).
CE electric panel with 10 m cable.
Stainless steel o polyethylene electric panel.
Stainless steel trolleys.



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I Technical specifications

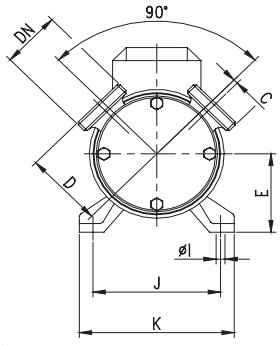
Max.flow	*20 m³/h*	*105 US GPM*
*Max.working presssure**	*2-4 bar*	*29 - 58 PSI*
Max.working temperature	*80 ºC*	*176 ºF*
Max.speed	*1500 rpm*	

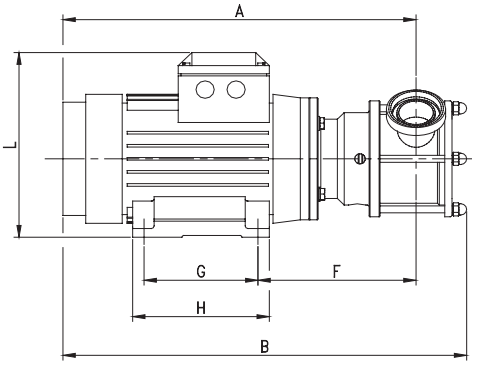
** Depending on the model*

TYPE	DN	Flow (1) [m³/h]	Max.differential pressure (bar)	Speed [rpm]	Weight [kg]	Code
RF-02/20	25	1,4	3	1500	15,5	D1102-014007
RF-05/25		4	2,5		17	D1105-014007
RF-10/40	40	9			24	D1110-014015
RF-20/50	50	20	2		36	D1120-014030

(1) Maximum flow for clean non-voscous liquids, height = 1m.

TYPE	Motor 1500		DN	A	B	C	D	E	F	G	H	ØI	J	K	L
	Size	kW													
RF-02/20	80	0,75	25	314	350	2	70	80	139	100	125	10	125	155	190
RF-05/25			25	323	370				148						
RF-10/40	90	1,5	40	388	445	5	87	90	174	125	150	10	140	170	212
RF-20/50	100	3	50	440	510	6,5	103	100	205	140	175	12	160	200	236





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ISO 9001 BUREAU VERITAS Certification

CE