

**Pumps:** RDB 50-20A 2C15 B000 3**Item:****LIQUIDO**

Liquid	CONDENSATE		Liquid Temperature	75	
Liquid	CLEAN, NO SOLIDS		Density	1,00	kg/dm <sup>3</sup>
Liquid	-		Kinematic Viscosity	1,0	mm <sup>2</sup> /s

**DESIGN PARAMETER**

Working Capacity	45,0	m <sup>3</sup> /h	Working Absorbed Power	10,70	kW
Working Head	55,2	m	Nominal Working Speed	-	1/min
Required Capacity	45,0	m <sup>3</sup> /h	Service	-	
Required Head	55,0	m	Suction Conditions	-	
Max. Capacity	71,9	m <sup>3</sup> /h	Geodetic Suction Head	-	
Min. Capacity	10,8	m <sup>3</sup> /h	Gauge Suction Pressure	0,00	bar
Max. Head	60,9	m	Minimum ambient temperature	-20	°C
NPSH available	0,00	m	Altitude of Installation	<1000 m ASL	
NPSHr (Required from the pump)	1,82	m			
Efficiency at Working Point	63,2				

**PUMP DETAILS**

Pump Standard	ISO 2858/ISO 5199		Flange Face Finish	RF - Flanged with Raised Face	
Pump Designation	RD		Rated Impeller Trim	A	
Pump Size	50-20		Impeller Type	Closed	
Pump Group	1		Rated Impeller Diameter	209	mm
Installation area	Safe Area		Maximum Impeller Diameter	209	mm
Atex Category	Safe Zone		Minimum Impeller Diameter	170	mm
Design Pressure	16	bar	Solids Free Passage [mm]	N.A.	
Hydrostatic Test Pressure	24	bar	Casing Drain Hole	1/4 G	
Suction Port Diameter [DN]	80		Casing Venting Hole	1/4 G	
Discharge Port Diameter [DN]	50		Painting Cycle	STD-RAL5010-Poliacr.cat.	
Pump Flanges Norm	EN 1092 PN16		Pump RAL	5010	

**PUMPS EXECUTION**

Pump Configuration	Horizontal		Coupling Type	MFR Standard	
Pump Execution	On base With STD Flex. Coupl.		Coupling Spacer	Without Spacer	
Bearing Size/Arrangement	STD		Spacer length	0	mm
Bearing Lubrication Type	Oil		Motor Shaft diameter	42	mm
Bearing Housing Oil Capacity	0,25 l		Shaft Diameter Drive side	24	mm
Bearing Temp. Probes	Not Included		Baseplate Code Number	3	
Constant Level Oiler	Not Included		Base-Plate Drain Pan	Not Included	
Transmission Type	Flex Coupling				

**PUMPS MATERIALS**

Pump Casing Material	EN1.4408-A351 CF8M-AISI 316		Wear Ring Material	EN1.4404-A351 CF3M-AISI 316L	
Impeller Material	EN1.4408-A351 CF8M-AISI 316		Gasket Main Material	SIL C-4400	
Shaft Material	EN1.4404-A351 CF3M-AISI 316L		Base-Plate Material	Carbon Steel	
Shaft Sleeve material	EN1.4404-A351 CF3M-AISI 316L		Coupling Material	Cast Iron	
Wear Plate Material	Not Present				

**MECHANICAL SEALS**

Seal Execution	Packing Without Flushing		Cartridge Type	-	
Mechanical Seal Nominal Diamet	33	mm	Cartridge Seal Brand	-	
Seals Supply	N.A.		Cartridge Internal Code	999	
Mech. Seal Type (Pump Side)	-		Cartridge Seal	-	
Mech. Seal Pump Side Brand	-		API PLAN	Not Present	
MFR Internal Mech. Seals Code	000		Plan Pipes material	N.A.	
Mechanical Seal fluid side	-		Flushing Pressure	Ext. Flushing not required	
Mech. Seal Pump Side Pin	Not Available		Flushing Tank	Not Present	
Mech. Seal Type (Flush. Side)	-		Flushing Tank Supply	Tank Not Included	
Mech. Seal Motor Side Brand	-				
Mechanical Seal Motor side	-				
Mech. Seal Motor Side Pin	Not Available				

**EXTRA**

Heating/Cooling Casing Chamber	Not Present		Pump Casing Treatments	Not Present	
Seal Heating Jacket	Not Present		Pump Impeller Treatments	Not Present	
Heat Exchanger	Not Present		Special Pump Treatments	Not Present	
			Special Casing Execution	Not Present	

**MOTOR**

Electric Motor Brand	FELM		Motor Class Tolerances	NO - Standard Class	
El. Motor Serie	F3		Additional Fan Cooling	-	
Electric Motor Poles	2		Motor Roof	-	
Motor Power	15,00	kW	PT100 Probes	-	
Motor Size	160M		Auxiliary Electric Box	-	
El. Motor Flange Diameter	350		Motor Heaters	-	
Electric Motor Supply	Included		Heaters Voltage [V]	-	
El Motor Standard/Customized	Standard		Ambient Temp. < -20°C	-	
Motor Category	IEC (not ATEX)		Working Temp. >40°C	-	
Std. Electric Motor Brand	FELM		Motor Casing Material	Cast Iron	
Nominal Motor Frequency	50	HZ	Downsized Motor	-	
Operating motor voltage	400/690		Derated Engine Power	-	kW
Motor Efficiency Class	IE3		Additional Label	-	
Motor Shape	B3		Insulated Ball Bearing for VFD	-	
Motor Protection	IP55		Motor Extras	-	
Insulation Class	F		Extras	-	
PTC	Included		Extras	-	
Number of PTC Required	-		Extras	-	
Max Frequency (Inverter Use)	60		Extras	-	
Min. Frequency (Inverter Use)	30				

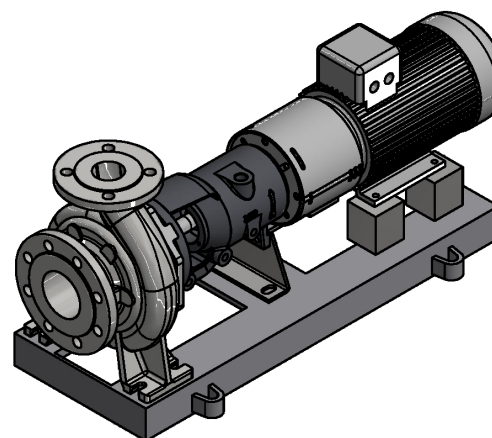
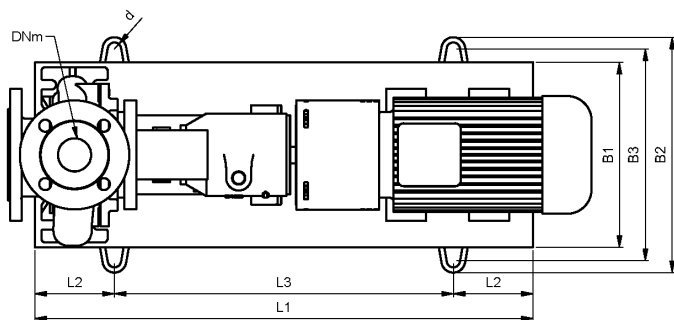
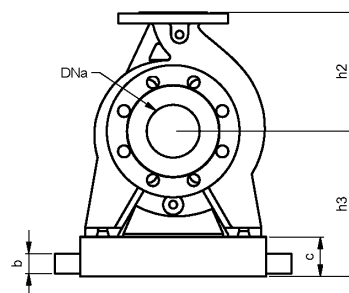
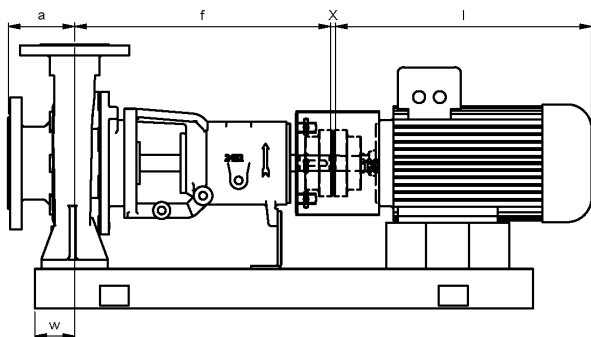
**TEST AND CERTIFICATES**

Food Certificate	No Certification Issue		NPSH Test	N	
ATEX Declaration of Conformity	N		Noise Test	No Certificate Issue	
Impeller Balancing Certificate	No Certificate Issue (P-1006)		Painting Check	No Certificate Issue	
CE Declaration of Conformity	S		Certificate of Quality	N	
Drawing Acc.To Customer Spec.	N		End Supply Certification Book	No	
Certificate of Warranty	N		Performance Test (Q-H-P)	No Certificate Issue	
Hydrostatic Test	No Certificate Issue (P-1005)		Visual a Dimensional Check	No Certificate Issue (P-1012)	
Inspection and Test Plan	No		Vibration Test	No Certificate Issue	
Material Certificate	-		Working Conformity Certificate	N	
Mechanical Running Test	N				

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**NOTE:**



Serie	Size	Mot. Size	a	f	h3	h2	L1	L2	L3	B2	B3	w	d	b	c1	c2	l1	l2	T(a)	Weight
RD	50-20	160M	100,00	385,00	280,00	200,00	1.200,0	205,00	790,00	450,00	410,00	60,00	19,00	30,00	0,00	0,00	136,00	152,00	1.100,0	231,66

Ref.Speed (rpm) 2.940

ITEM: RD\_50-20\_Rpm2940\_Ø209 180523\_1404

Curve n.: T-1221	Max Diameter (mm): 209	Min Diameter (mm): 170	Sel. Diameter (mm): 209	Material: S.STEEL/SPEC.ALLOYS			
Flow (m3/h): 45	Head (m): 55,17	Power (kW): 10,7	Efficiency (%): 63,2	NPSH (m): 1,82	NS: 18	SSS: 189	GD2:0
Density (kg/dm3): 1	Viscosity (cSt): 1,00	Fluid: Non Specificato			Impeller Type: CLOSED		

