

**Pumps:** RDM 32-16D 2B22 M181 3/A**Item:****LIQUIDO**

Liquid	WATE WITH SALT (12%)		Liquid Temperature	40	
Liquid	CLEAN, NO SOLIDS		Density	1,06	kg/dm
Liquid	-		Kinematic Viscosity	1,0	mm2/

**DESIGN PARAMETER**

Working Capacity	12,5	m3/h	Working Absorbed Power	1,51	kW
Working Head	21,3	m	Nominal Working Speed	2.930	1/min
Required Capacity	12,5	m3/h	Service	-	
Required Head	20,0	m	Suction Conditions	-	
Min. Capacity	0,6	m3/h	Geodetic Suction Head	-	
Max. Capacity	16,2	m3/h	Gauge Suction Pressure	0,00	bar
Max. Head	26,4	m	Minimum ambient temperature	-20	°C
NPSH available	0,00	m	Altitude of Installation	<1000 m ASL	
NPSHr (Required from the pump)	1,17	m			
Efficiency at Working Point	51,0				

**PUMP DETAILS**

Pump Standard	ISO 2858/ISO 5199		Pump Flanges Norm	EN 1092 PN16	
Pump Designation	RD		Rated Impeller Trim	D	
Pump Size	32-16		Impeller Type	Closed	
Pump Group	1		Rated Impeller Diameter	140	mm
Installation area	Safe Area		Maximum Impeller Diameter	169	mm
GAS Atex Marking			Minimum Impeller Diameter	120	mm
DUST Atex Marking			Solids Free Passage [mm]	N.A.	
Design Pressure	16	bar	Casing Drain Hole	1/4 G	
Hydrostatic Test Pressure	24	bar	Casing Venting Hole	1/4 G	
Suction Port Diameter [DN]	50		Painting Cycle	STD-RAL5010-Poliacr.cat.	
Discharge Port Diameter [DN]	32		Pump RAL	5010	

**PUMPS EXECUTION**

Pump Configuration	Horizontal		Pump Execution	Close Coupled	
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**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		Lantern Bracket Material	EN1561 - GJL200	
Close Coupled Shaft Material	316L		Gasket Main Material	SIL C-4400	
Wear Plate Material	Not Present				

**MECHANICAL SEALS**

Seal Execution	M (Standard) (Single Seal)		API PLAN	Not Present	
Mechanical Seal Nominal Diamet	33	mm	Plan Pipes material	N.A.	
Seals Supply	Included		Flushing Pressure	Ext. Flushing not required	
Mech. Seal Type (Pump Side)	UN L4K		Flushing Tank Supply	Tank Not Included	
Mech. Seal Pump Side Brand	Uniten		Flushing Tank	Not Present	
MFR Internal Mech. Seals Code	181				
Mechanical Seal Pump Side	SIC/SIC/VITON				
Mech. Seal Pump Side Pin	Not Present				
Mech. Seal Type (Flush. Side)	-				
Mech. Seal Motor Side Brand	-				
Mechanical Seal Motor side	-				
Mech. Seal Motor Side Pin	Not Available				

**EXTRA**

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

**MOTOR**

Electric Motor Brand	WEG		Motor Class Tolerances	YES - Precision Class	
El. Motor Serie	W22		Additional Fan Cooling	-	
Electric Motor Poles	2		Motor Roof	-	
Motor Power	2,20	kW	PT100 Probes	-	
Motor Size	90L		Auxiliary Electric Box	-	
El. Motor Flange Diameter	200		Ambient Temp. < -20°C	-	
Electric Motor Supply	Included		Working Temp. >40°C	-	
El Motor Standard/Customized	Standard		Motor Casing Material	Cast Iron	
Motor Category	IEC (not ATEX)		Downsized Motor	-	
Std. Electric Motor Brand	WEG		Derated Engine Power	-	kW
Nominal Motor Frequency	50	HZ	Additional Label	-	
Operating motor voltage	230/400		Insulated Ball Bearing for VFD	-	
Motor Efficiency Class	IE3		Motor Extras	-	
Motor Shape	B5		Extras	-	
Motor Protection	IP55		Extras	-	
Insulation Class	F		Extras	-	
PTC	Included		Extras	-	
Number of PTC Required	-				
Max Frequency (Inverter Use)	60				
Min. Frequency (Inverter Use)	30				

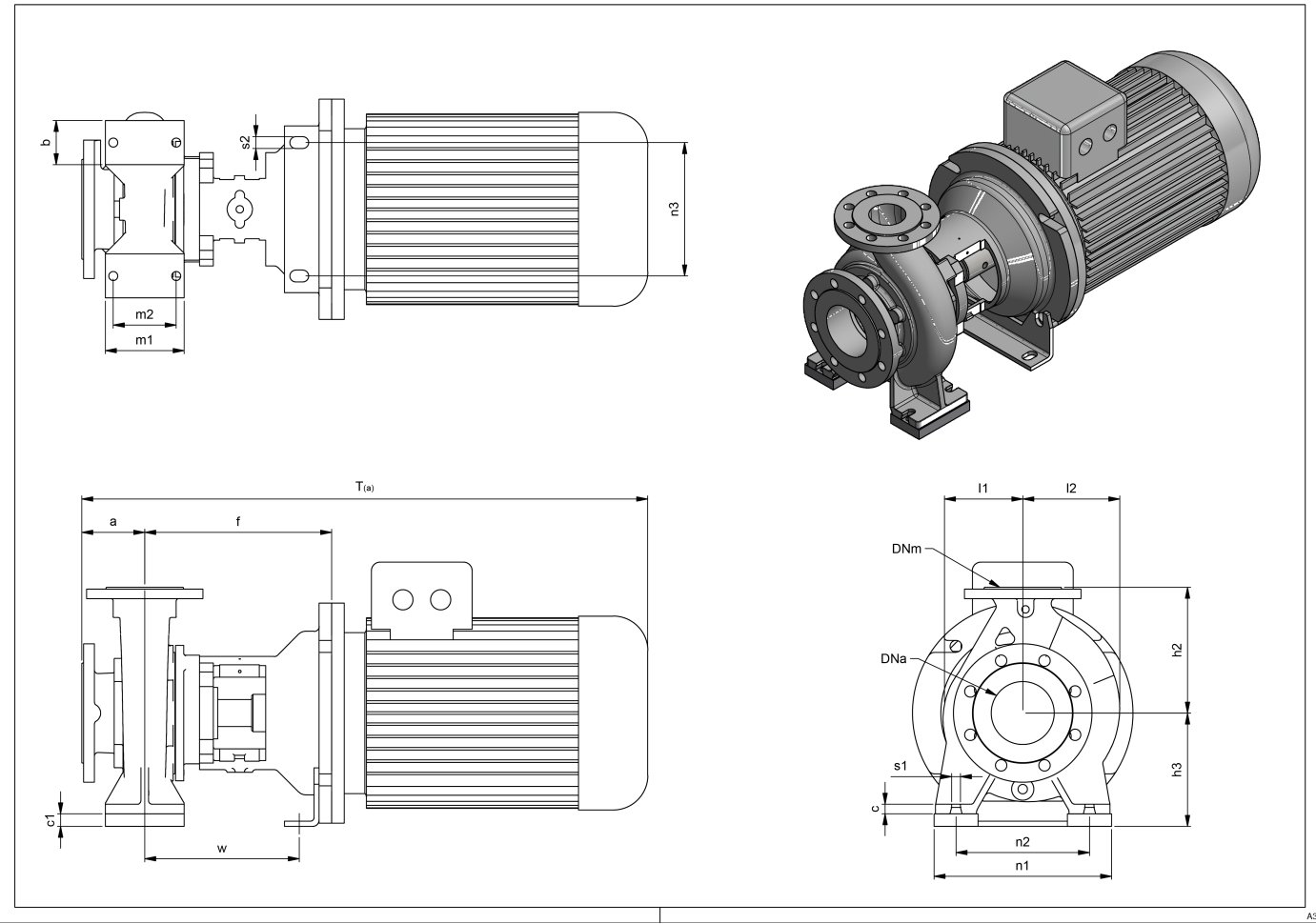
**TEST AND CERTIFICATES**

Food Certificate	No Certification Issue		NPSH Test	No Certification Issue	
ATEX Declaration of Conformity	No		Noise Test	No Certificate Issue	
Impeller Balancing Certificate	No Certificate Issue (P-1006)		Painting Check	No Certificate Issue	
CE Declaration of Conformity	Yes		Certificate of Quality	No	
Drawing Acc.To Customer Spec.	No		End Supply Certification Book	No	
Certificate of Warranty	No		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	No Certification Issue	
Mechanical Running Test	No Certification Issue		Preferential Origin	Not Included	

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NOTE:



Serie	Taglia	Mot. Size	a	f	h1	h2	b	m1	m2	n1	n2	n3	w	s1	s2	c	c1	l1	l2	T(a)	Weight
RD	32-16	90L	80,00	192,00	132,00	160,00	50,00	100,00	70,00	240,00	190,00	110,00	149,00	14,00	15,00	14,00	0,00	103,00	115,00	613,00	46,00

Ref.Speed (rpm) 2.930

ITEM: R

Curve n.: T-2161	Max Diameter (mm): 169	Min Diameter (mm): 120	Sel. Diameter (mm): 140	Material: S.STEEL/SPEC.ALLOYS			
Flow (m3/h): 12,50000	Head (m): 21,350000	Power (kW): 1,5100000	Efficiency (%): 51,0200	NPSH (m): 1,170000	NS: 14	SSS: 130	GD2:0
Density (kg/dm3): 1,05600	Viscosity (cSt): 1,0000000	Fluid: Non Specificato			Impeller Type: CLOSED		

