



water solutions

Data sheet

GRN 550/2/G50H A1FT5

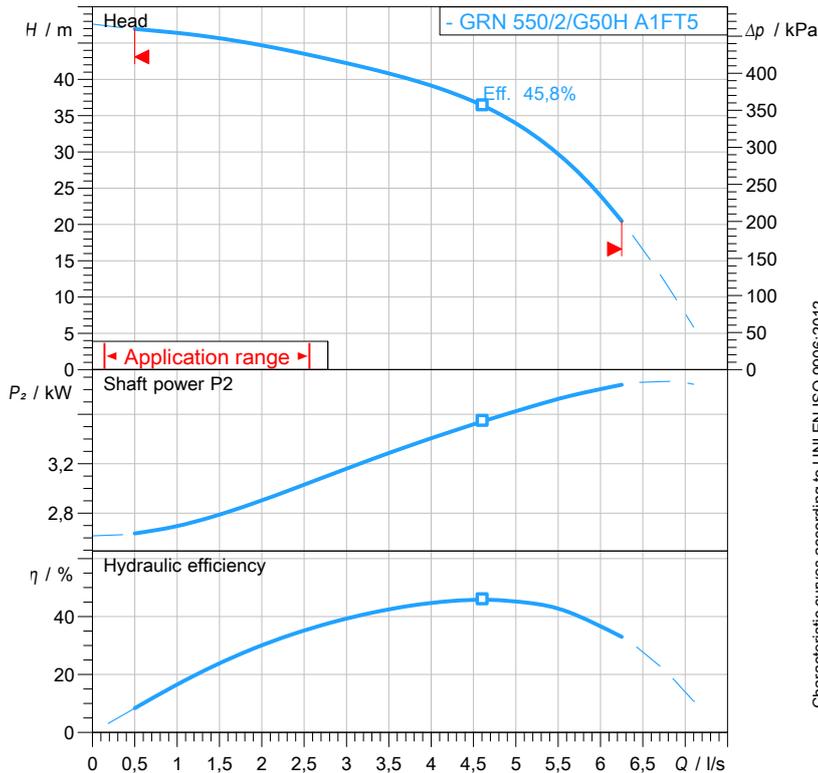


N

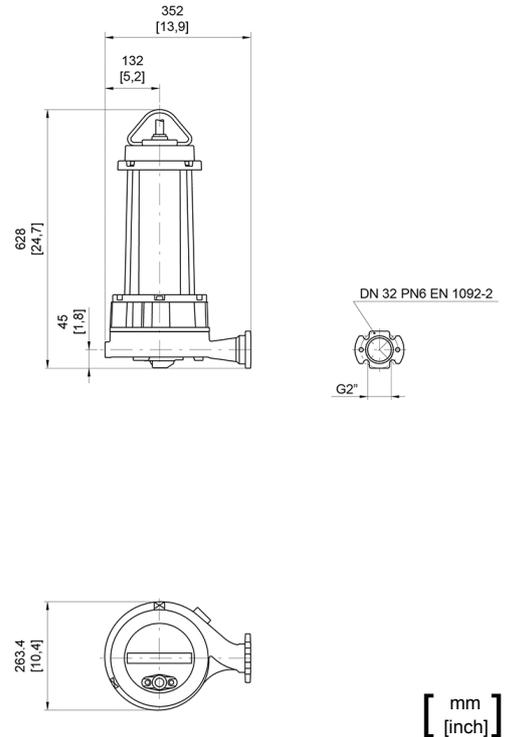
series

Technical specification

3~ 50 Hz



Characteristic curves according to UNI EN ISO 9906:2012
 P2 < 10kW: paragraph 4.4.2
 10kW < P2 < 100kW: Grade 3B
 P2 > 100kW: Grade 2B



Pump

Series	N series
Pump name	GRN 550/2/G50H A1FT5
Configuration	NGTAB51040N00EX
Standard	ATEX 2014/34/EU
ATEX mark	II 2GD Ex db k IIB T5 Ex tb IIIC T100°C IP68

Operating limits (standard pumps)

Max. ambient temperature	40 °C
Max. density treated liquid	1100 kg/m ³
pH treated liquid	6 ÷ 14
Max. start per hour (equally distributed)	30
Wet/dry use	WET
Max. acoustic pressure level	70 dB
Operating mode	S1 - Continuous use

Motor data

Rated voltage	400 V
Frequency	50 Hz
Motor phases	3~
Number of poles	2
Rated power P2	4,10 kW
Incoming power P1	5,00 kW
Rated current	8,7 A
rpm	2880 1/min
cos φ	0,83
Rated torque	13,6 Nm
Start	Direct starting
Degree of protection	IP 68
Insulation class	H

Construction materials

Case	Cast iron EN-GJL 250
Shaft	Stainless steel - AISI 431
Hydraulic	Cast iron - EN-GJL 250
Impeller	Cast iron - EN-GJL 250
Painting/Coating	Bi-epoxy 200 μm
Screws	Stainless steel - Class A2-70
Gaskets	VITON
Cooling jacket (if present)	Carbon steel
Cutter	Chromium steel - X102 CrMo17 KU
Cutting disk	Chromium steel - X102 CrMo17 KU

Construction features

Cooling system	No cooling jacket
Main cable	4G2.5+3x1
Control cable	-
Cable length	10 mt
Mechanical seals	2 in silicon carbide (2SiC)
Additional drilling	-
Weight*	72 kg
Electrical variant	Thermal protection

* cable's weight not included

Hydraulic

Type	GR (Impeller with grinder system)
Free passage	0 mm
Impeller type	Open channel impeller with grinder system
Max. hydraulic efficiency	45,8 %
Suction	
Discharge	DN 32 - G 2" EN 1092-2
Curve tolerance	UNI EN ISO 9906:2012

Rev. 0 - 16-12-2014

All data shown are not binding. Zenit reserves the right to change data and dimensions without notice.

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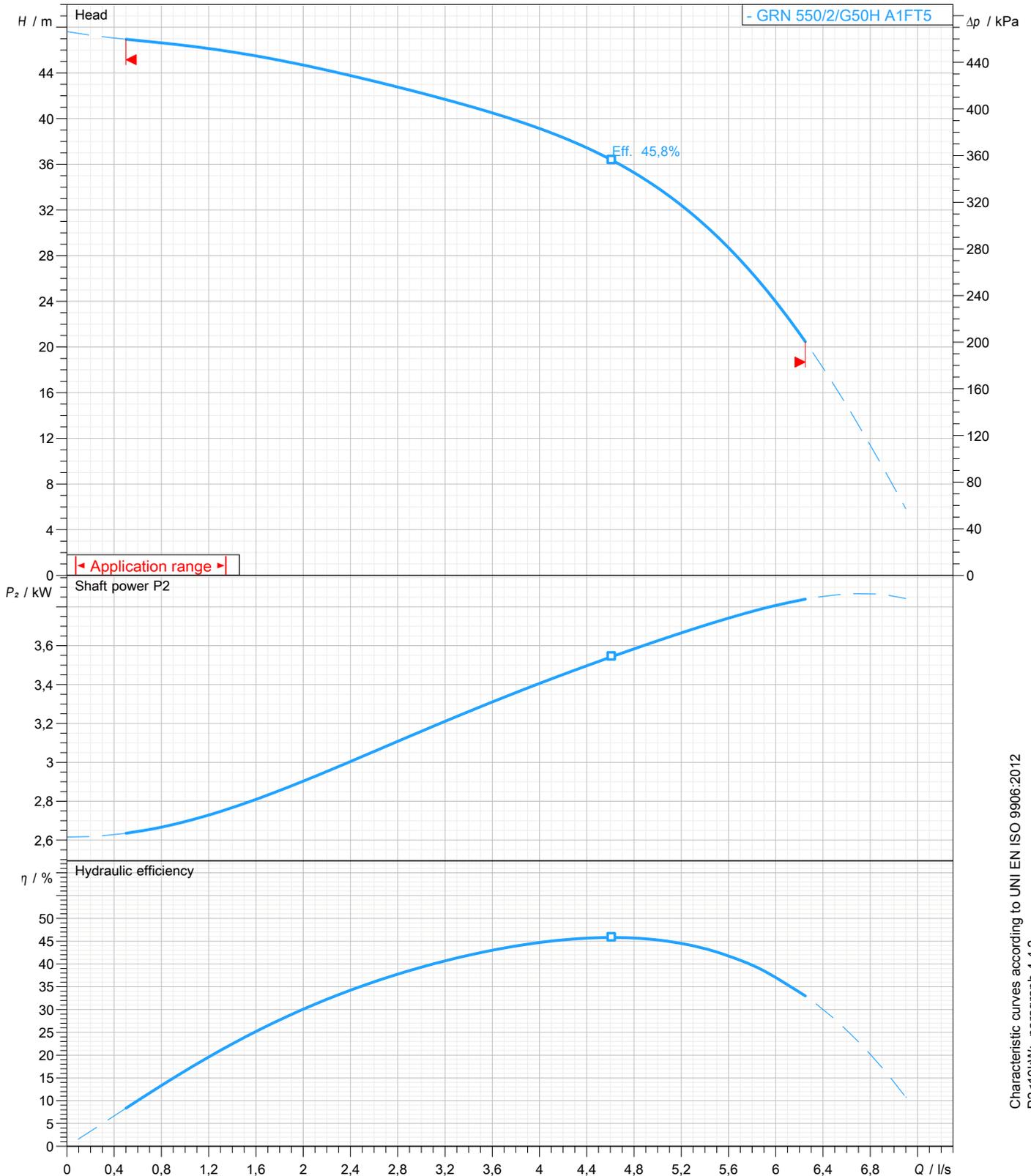


N series

Pump performance curves

3~ 50 Hz

Hydraulic type GR (Impeller with grinder system)		Impeller type Open channel impeller with grinder system		Free passage		Discharge DN 32 - G 2"		Suction		
DUTY POINT										
Flow		Head		Shaft power P2		Hydraulic efficiency		Density 998,3 kg/m ³		Viscosity 1,005 mm ² /s



Characteristic curves according to UNI EN ISO 9906:2012
P2<10kW: paragraph 4.4.2
10kW<P2<100kW: Grade 3B
P2>100kW: Grade 2B

