Technical Data

Booster set name 3GPE EVMSG15 4N5/4 ESPT 304M

Customer	Date 2022-04-20	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

Requested data

1	Pump type	Booster Set	Fluid		Water
2	Number of pumps / Reserve	/ 0	Liquid temperature	°C	20
3	Flow m³/h		Kin. viscosity	cSt	1.005
4	Head m		Vapour pressure	kPa	2.34
5	Geodetic head m		PH value		
6	Inlet pressure kPa	0	Density	kg/m³	998.3
7	Available system NPSH		Solids	Weight %	0
8	Ambient temperature °C	20	Aufstellungshohe	m	100

Booster Set

9	Booster set name	3GPE EVMSG15 4N5/4 ESPT 304M	Frequency		Hz	50
10	Design	Booster Set				
11	Manufacturer	EBARA	Impeller Dia.	Max.	mm	107
12	Speed rpm	2900		Designed	mm	107
13	No. of Stage	4		Min.	mm	107
14	Connection Suction side	DN100 PN16	Flow	Operating	m³/h	
15	Connection Discharge side	DN100 PN16		Max-	m³/h	24
16	Max. Working Pressure kPa	1600		Min-	m³/h	7.8
17	Shut-off head kPa	591.62	Head	Operating	m	
18	Total weight kg	See the table of "Dimensions".		- (Qmax.)	m	34.8
19	Shaft power kW			- (Qmin.)	m	56.0
20			Max. Shaft Power at max. impeller		kW	3.58
21	Required NPSH m		Efficiency		%	

Materials

22	Frame	Galvanized steel	Bottom casing	Cast iron
23	Manifold	AISI 304	Casing cover	AISI 304
24	Check valve	Brass / NBR	Shaft	AISI 304
25	Ball valve	Brass / PTFE	Shaft sleeve bearing	Tungsten Carbide
26	Impeller	AISI 304	O-ring	EPDM
27	Intermediate casing	AISI 304	Base	Cast iron

Motor

28	Manufacturer	ETM	Insulation class		F
29	Type	TEFC_EVMS15 4/4.0_400_Three Phase	Phases		3~
30	Specific design	IE3 / 50 Hz / Pole pairs 1	Frame size		112
31	Rated power kW	4	Weight; motor	kg	28.5
32	Number of poles	2	Electric voltage	V	400
33	Speed rpm	2920	Electric current	A	8.7
34	Degree of protection	IP 55			
35					

Remarks

EBARA

Performance curve

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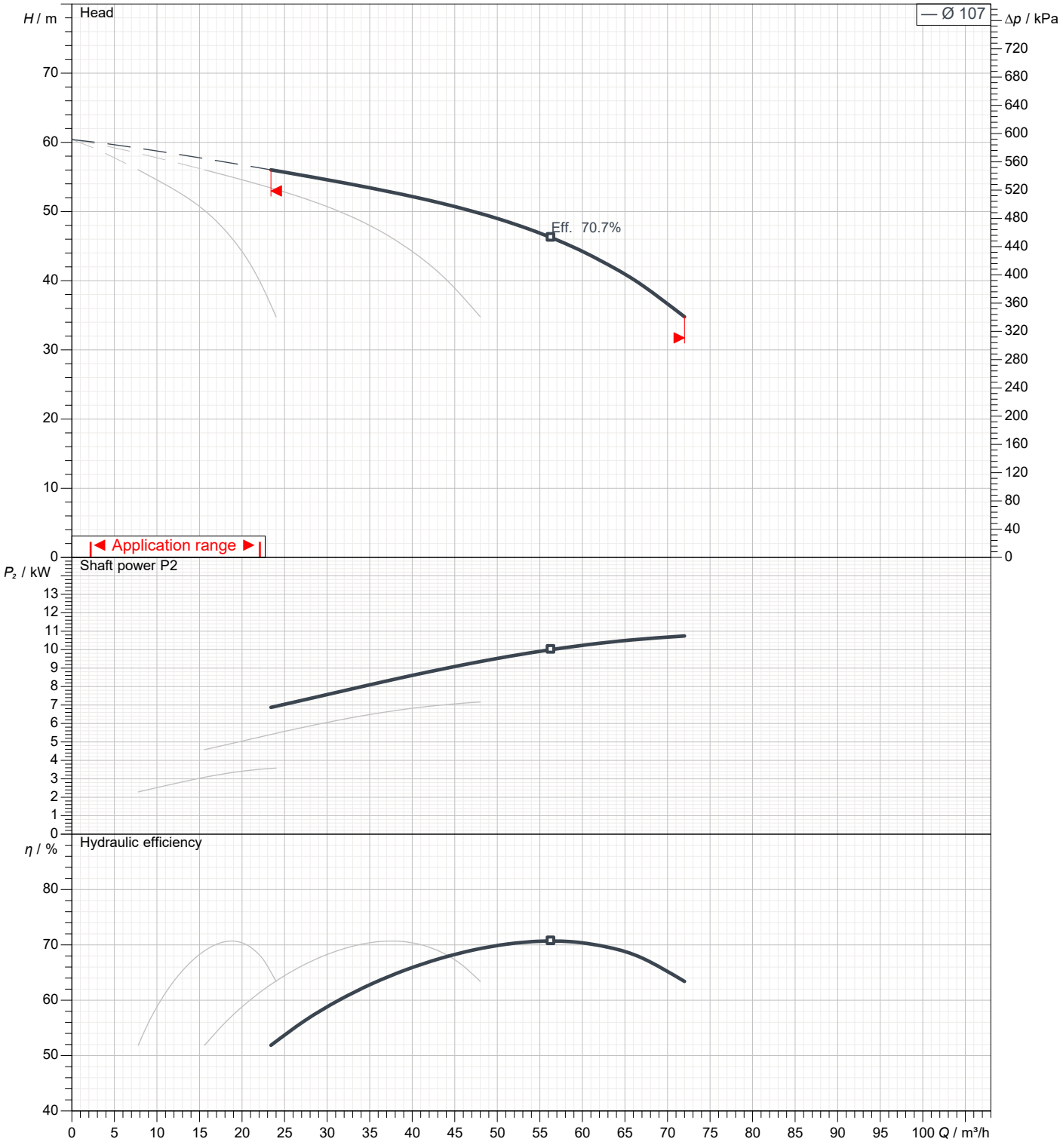
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Booster set

Operating Flow	m³/h		Frequency	Hz	50
Operating Head	m		Number of poles		2
ImpellerDiameter Designed	mm	107	Speed	rpm	2900

Test standard: ISO 9906:2012 - Grade3B

Water; 20°C; 998.3kg/m³; 1cSt



EBARA

Dimensions

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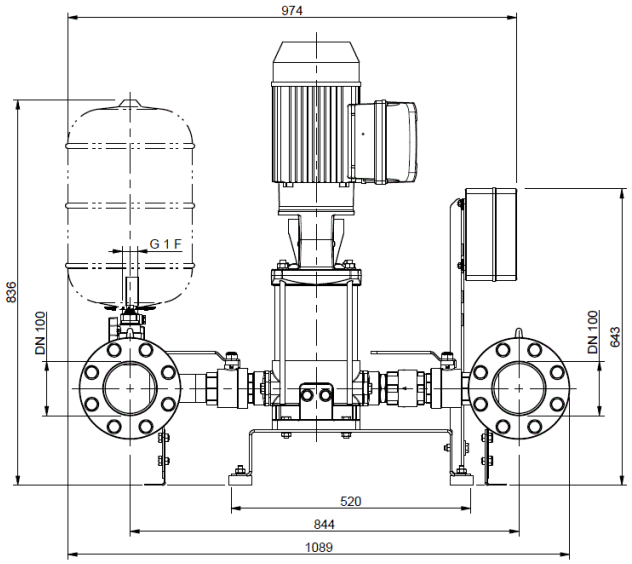

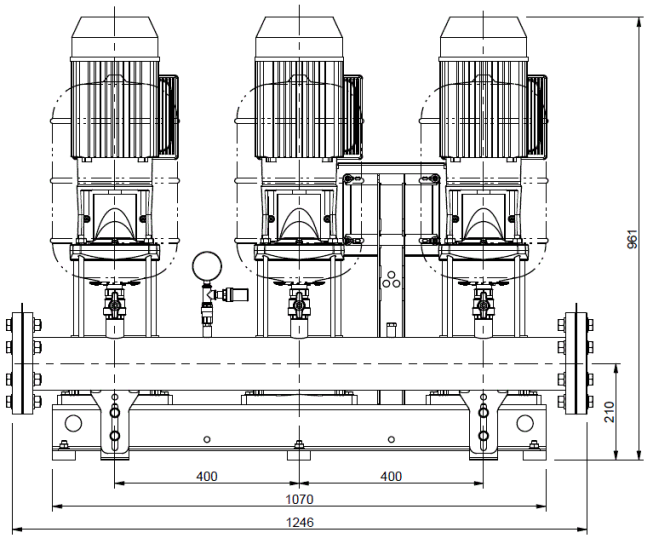

Dimensions in	mm							
1								
2								
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EBARA

(1/2)
Construction

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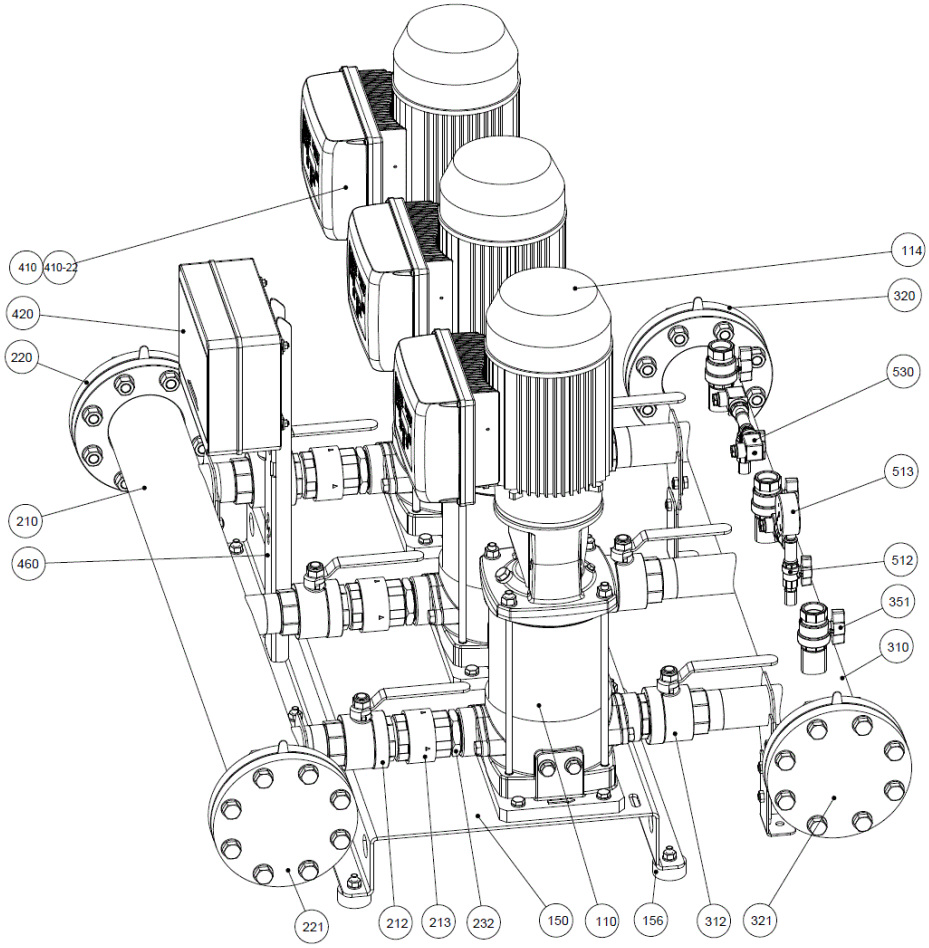

N°	PART NAME	MATERIAL	Quantity
110	Principal pump	-	3
114	Electric motor	-	3
150	Basement	Galvanized steel	1
156	Basement foot	SBR	6
210	Suction manifold	Galvanized steel	1
212	Butterfly valve (Lug)	Cast iron EN GJL 250 (JL 1040)	3
213	Check valve (Clapet)	Cast iron EN 1561 EN-GJL-250	3
220	Counterflange	Galvanized steel	1
221	Blind counterflange	Galvanized steel	1
232	Spacer flange	Galvanized steel	3
310	Discharge manifold	Galvanized steel	1
312	Butterfly valve (Lug)	Cast iron EN GJL 250 (JL 1040)	3
320	Counterflange	Galvanized steel	1
321	Blind counterflange	Galvanized steel	1
351	Ball valve	CW617N / CW614N	3
410	E-SPD	-	3
410-22	E-SPD adaptor	-	3
420	Protection panel	-	1
460	Protection panel frame	Galvanized steel	1
512	Ball valve	CW617N / CW614N	1
513	Pressure gauge	Copper alloy / plastic	1
530	Pressure transmitter	-	3

(2/2)
Construction

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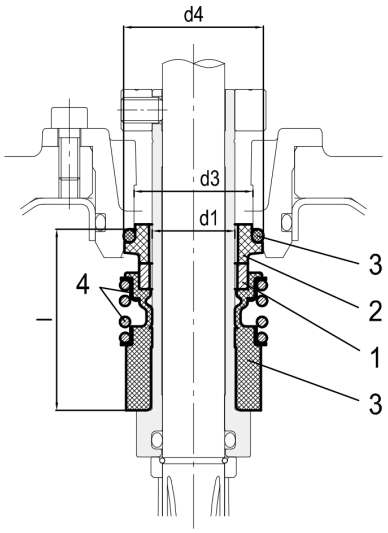

● : Standard

Pump model	Max operating temperature	Shaft seal type		Shaft seal material								Type key
Max operating pressure		Cartridge		1		2		3		4	5	
		Unbalanced	Balanced	Rotating Part	Code	Stationary Part	Code	Elastomers	Code	Compression spring	Collar Code	
up to 16 bar	- 30℃ to + 120℃	●		SiC	(Q1)	Carbon	(B)	EPDM	(E)	AISI 316	(G)	Q1BEG

Max operating pressure	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	l [mm]
16 bar	16	-	23	27	35