Booster set name

Technical Data

3GPE MATRIX 5-2T/0,45 ESPT (UK)

Customer	Date 07.10.2026	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	3	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	Ask our technical department.	Solids	Weight %	0
8	Ambient temperature °C	20	Installation height	m	100

Booster Set

9	Booster set name	3GPE MATRIX 5-2T/0,45 ESPT (UK)	Frequency		Hz	50
10	Design	Booster Set				
11	Manufacturer	EBARA	Impeller Dia.	Max.	mm	97
12	Speed rpm	2850		Designed	mm	97
13	No. of Stage	2		Min.	mm	97
14	Connection Suction side	UNI ISO 228 PN16	Flow	Operating	m³/h	
15	Connection Discharge side	UNI ISO 228 PN16		Max-	m³/h	7.8
16	Max Working Pressure kPa	1000		Min-	m³/h	1.8
17	Shut-off head kPa	225.30	Head	Operating	m	
18	Total weight kg	See the table of "Dimensions".		- (Qmax.)	m	8.8
19	Shaft power kW			- (Qmin.)	m	21.5
20			Max. Shaft Power at max. impeller		kW	0.43
21	Required NPSH m		Efficiency		%	

Materials

22	Frame	Galvanized steel	External pump casing	AISI 304
23	Manifold	AISI 304	Shaft	AISI 304
24	Check valve	Brass / NBR	Shaft seal	Ceramic/Carbon/EPDM
25	Ball valve	Brass / PTFE	O-ring	EPDM
26	Impeller	AISI 304		
27	Casing	AISI 304		

Motor

28	Manufacturer	EPE Standard	Insulation class		F
29	Type	TEFC_MATRIX 5-2T/0.45_400_Three Phase	Phases		3~
30	Specific design	- / 50 Hz / Pole pairs 1	Frame size		
31	Rated power kW	0.45	Weight; motor	kg	
32	Number of poles	2	Electric voltage	V	400
33	Speed rpm	2850	Electric current	A	1.39
34	Degree of protection	IP 55			
35					

Remarks

Item intended for the UK market only.

EBARA

Performance curve

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Requested data

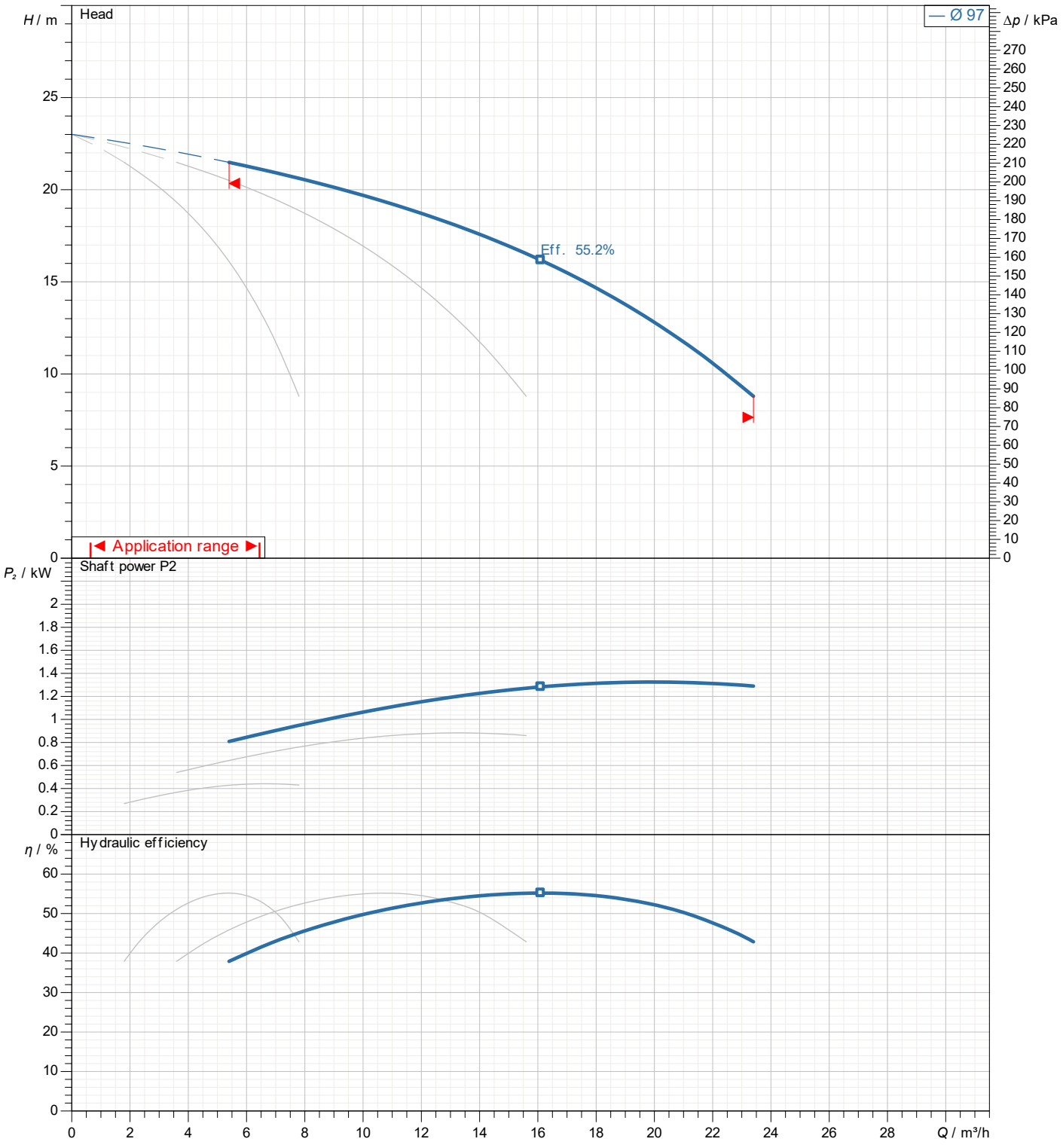
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Booster set

Operating flow	m³/h		Frequency	Hz	50
Operating head	m		Number of poles		2
Impeller Diameter Designed	mm	97	Speed	rpm	2850

Test standard: ISO 9906:2012 - Grade3B

Water; 20°C; 998.3kg/m³; 1cSt



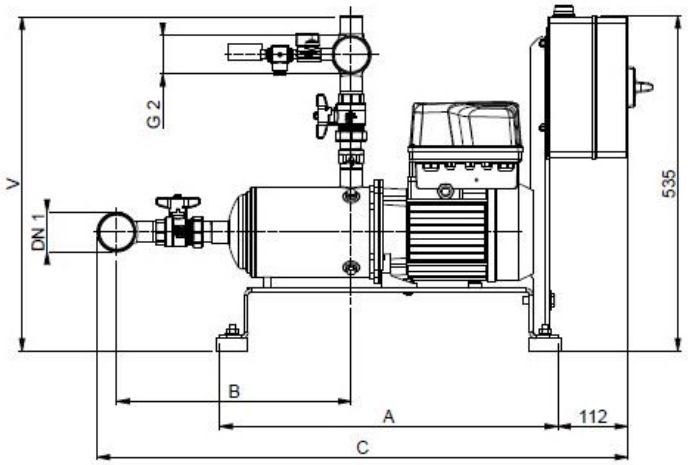
EBARA

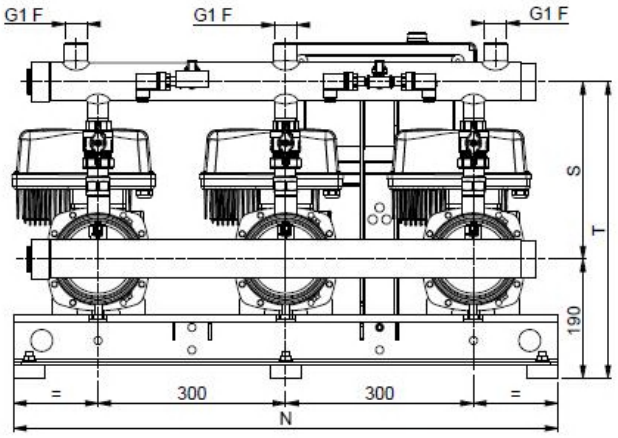
Dimensions

Booster set name

3GPE MATRIX 5-2T/0,45 ESPT (UK)

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Dimensions in	mm							
1	A	380						
2	B	275						
3	C	725						
4	DN1	G2 1/2						
5	N	850						
6	S	280						
7	T	470						
8	V	530						
9	Weight kg	63						
10								
11								
12								
13								
14								
15								

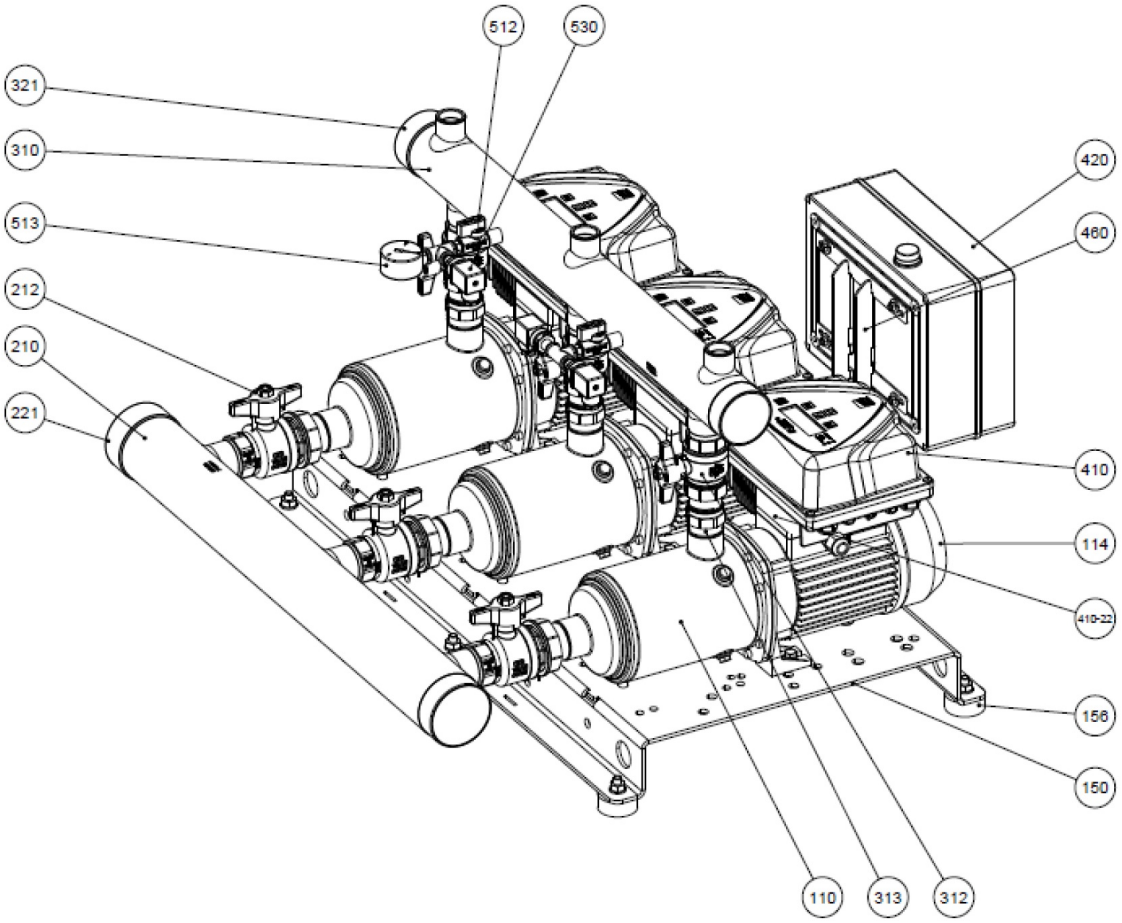
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(1/2)
Construction

Booster set name

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N°	PART NAME	MATERIAL	Quantity
110	Principal pump	-	3
114	Electric motor	-	3
150	Baseplate	Galvanized steel	1
156	Baseplate foot	SBR	6
210	Suction manifold	AISI 304	1
212	Union ball valve	Brass / P.T.F.E.	3
221	Threaded female cap	AISI 304	1
310	Discharge manifold	AISI 304	1
312	Union ball valve	Brass / P.T.F.E.	3
313	Check valve	Brass / NBR	3
321	Threaded female cap	AISI 304	1
410	E-SPD+	-	3
410-22	E-SPD+ adaptor	-	3
420	Protection panel	-	1
460	Protection panel frame	Galvanized steel	1
512	Ball valve	Brass / P.T.F.E.	2
513	Pressure gauge	Copper alloy / plastic	1
530	Pressure transmitter	-	3

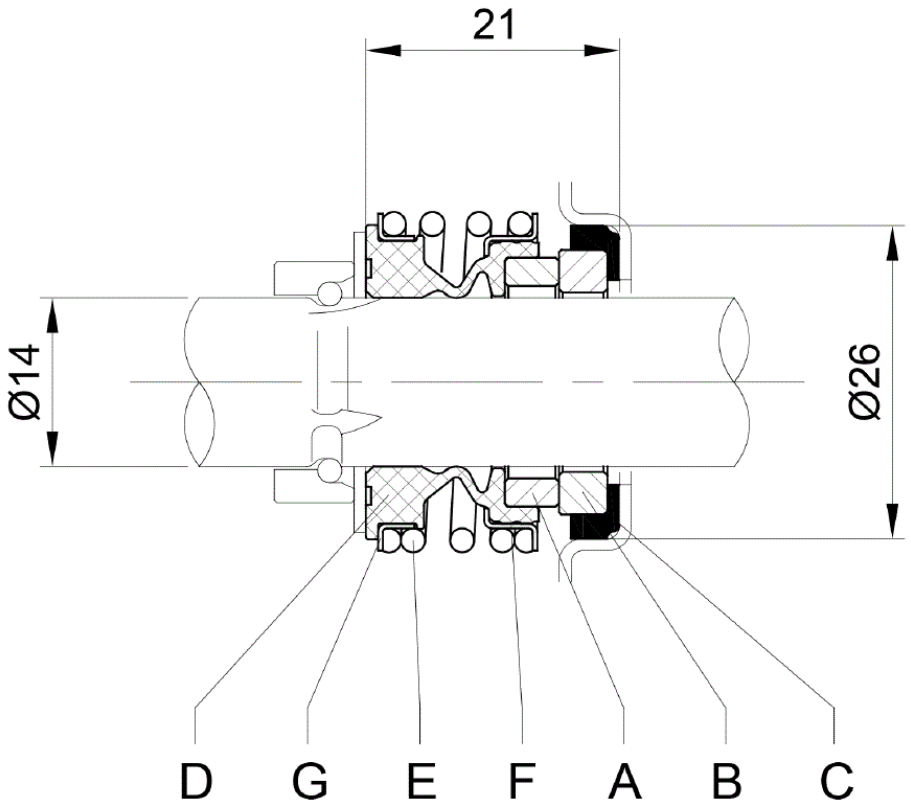
(2/2)
Construction

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MECHANICAL SEAL



	Material						
	A Rotary seal ring	B Stationary seal ring	C Gasket	D Bellows	E Spring	F Frame	G Retainer ring
STANDARD*	Carbon	Ceramic	EPDM	EPDM	EN 1.4402 (AISI 316)	EN 1.4402 (AISI 316)	EN 1.4402 (AISI 316)

*Approval for drinking water application
WRAS Approval product

WRAS APPROVED PRODUCT

EBARA