

Technical Data

Booster set name
2GP CDA 5.50

Customer	Date	09.06.2024	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	2	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	2GP CDA 5.50	Frequency Hz	50
10	Design	Booster Set		
11	Manufacturer	EBARA	Impeller Dia.	Max. mm 179
12	Speed rpm	2850		Designed mm 179
13	No. of Stage	2		Min. mm 179
14	Connection Suction side	G 2 1/2 PN10	Flow	Operating m³/h
15	Connection Discharge side	G 2 PN10		Max- m³/h 12.6
16	Max Working Pressure kPa	1000		Min- m³/h 3
17	Shut-off head kPa	783.43	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 54.0
19	Shaft power kW			- (Qmin.) m 76.5
20			Max. Shaft Power at max. impeller kW	
21	Required NPSH m		Efficiency %	

Materials

22	Frame	Galvanized steel	Casing cover	Cast iron built-in the motor bracket
23	Manifold	AISI 304	O-ring	EPDM
24	Check valve	Brass / NBR	Shaft	AISI 304
25	Ball valve	Brass / PTFE	Shaft seal	Ceramic/Carbon/NBR
26	Impeller	Brass		
27	Casing	Cast iron		

Motor

28	Manufacturer	EPE Standard	Insulation class	F
29	Type	TEFC_CDA 5.50 T_400_Three Phase	Phases	3~
30	Specific design	IE3 / 50 Hz / Pole pairs 1	Frame size	
31	Rated power kW	4	Weight; motor kg	
32	Number of poles	2	Electric voltage V	400
33	Speed rpm	2850	Electric current A	8.7
34	Degree of protection	IP 44		
35				

Remarks

Performance curve

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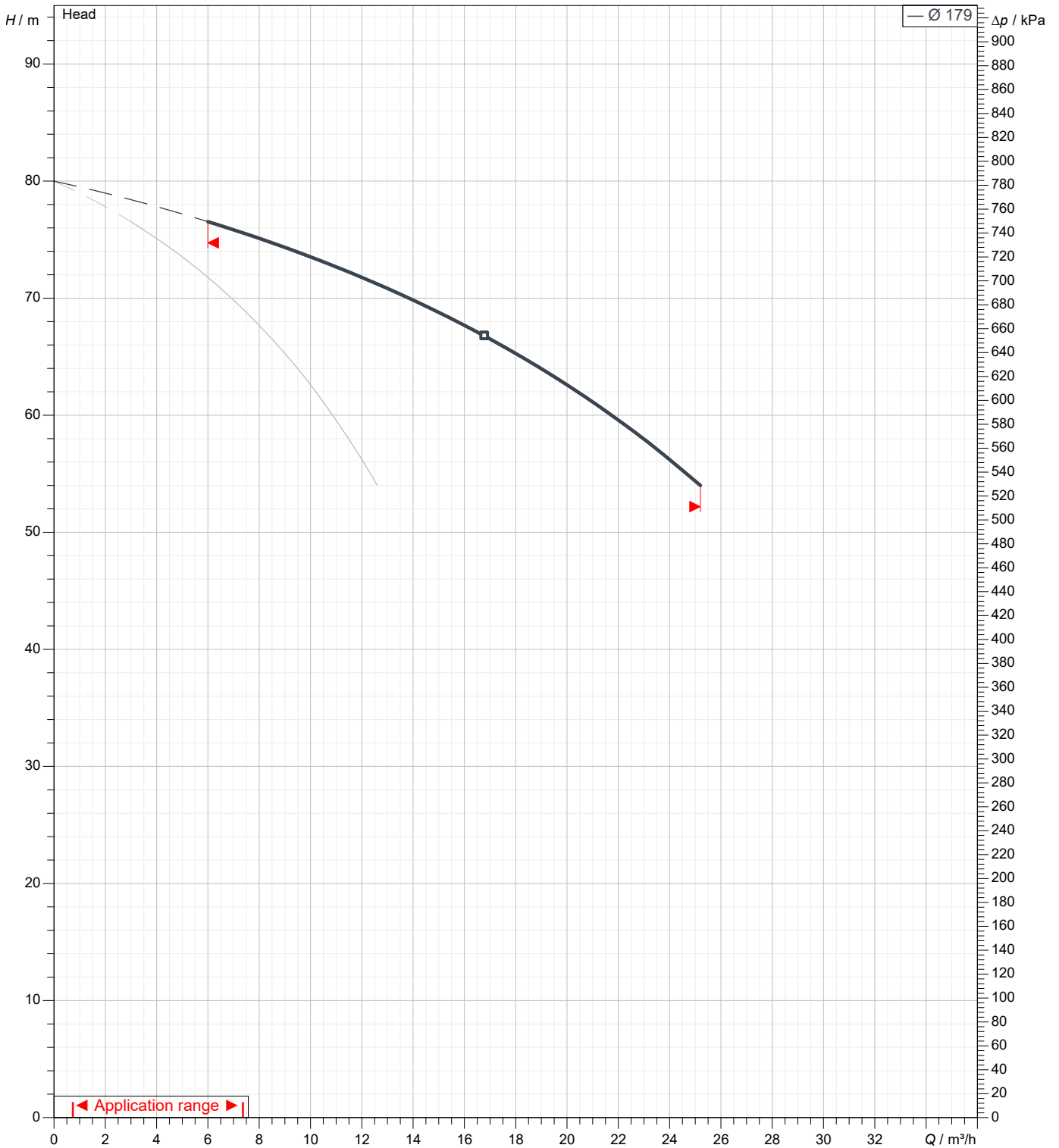
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Booster set

Operating flow	m³/h		Frequency	Hz	50
Operating head	m		Number of poles		2
ImpellerDiameter Designed	mm	179	Speed	rpm	2850

Test standard: ISO 9906:2012 - Grade3B

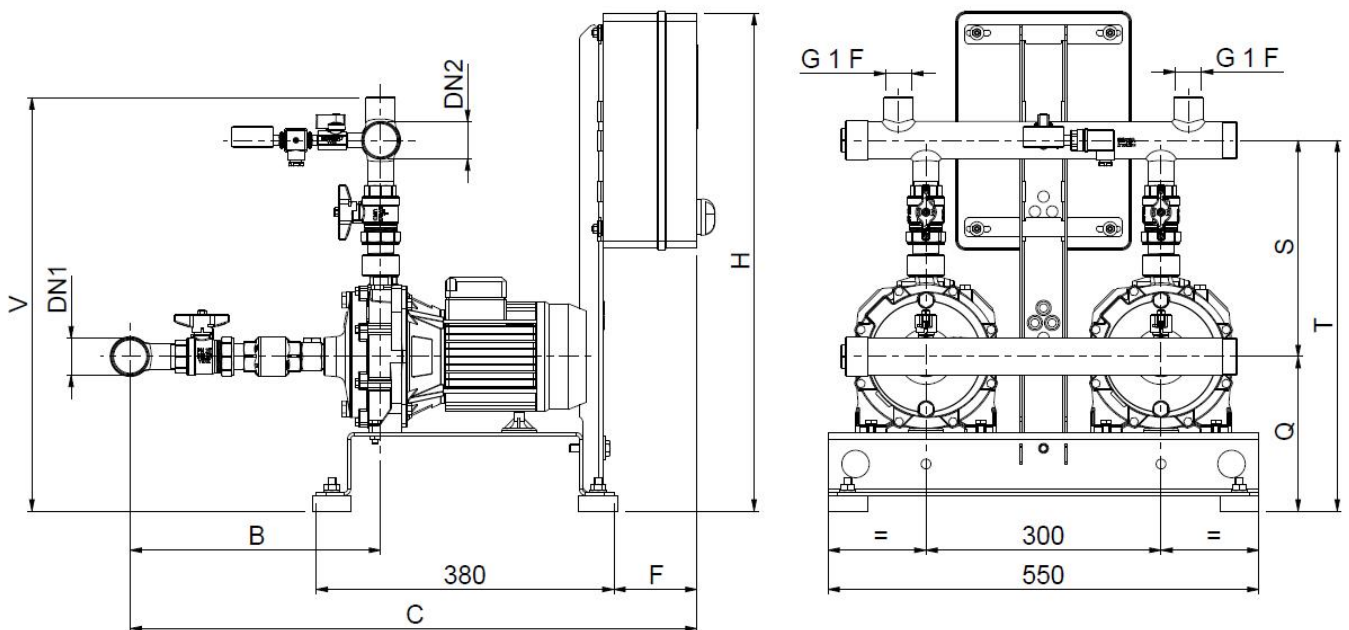
Water; 20°C; 998.3kg/m³; 1cSt



Dimensions

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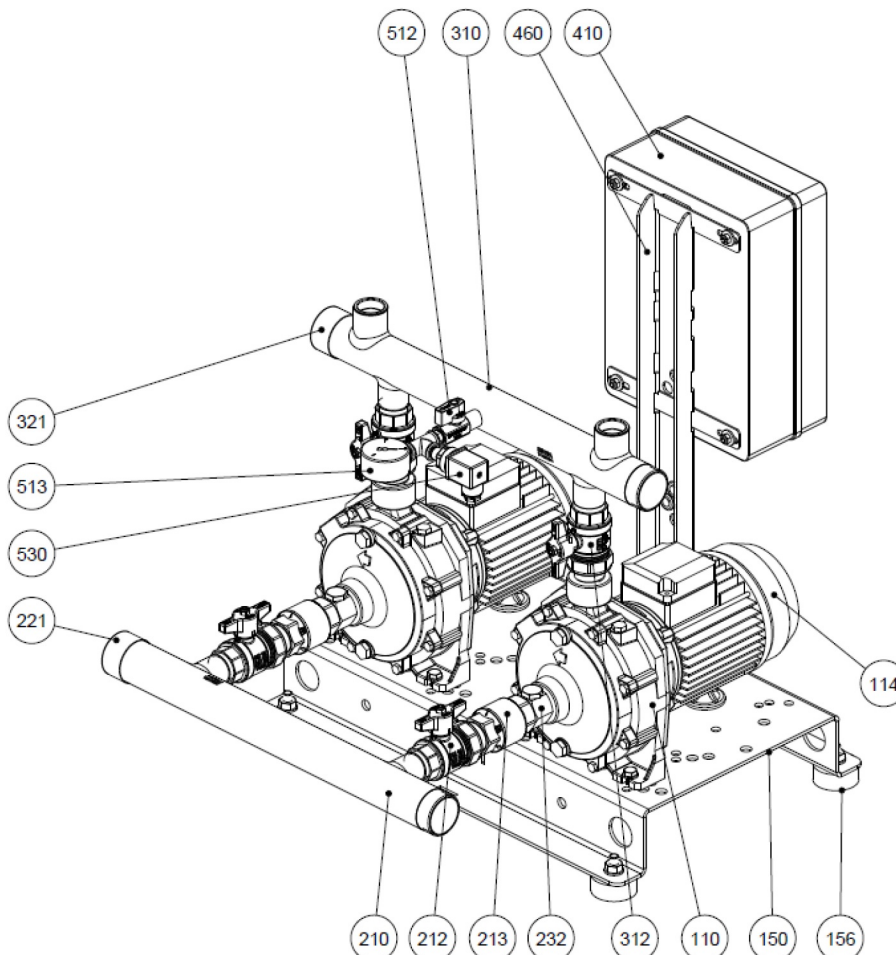


Dimensions in		mm						
1	B	415						
2	C	850						
3	DN1	G 2 1/2						
4	DN2	G 2						
5	F	105						
6	H	915						
7	Q	235						
8	S	340						
9	T	675						
10	V	630						
11	Weight kg	142						
12								
13								
14								
15								

(1/2) Construction

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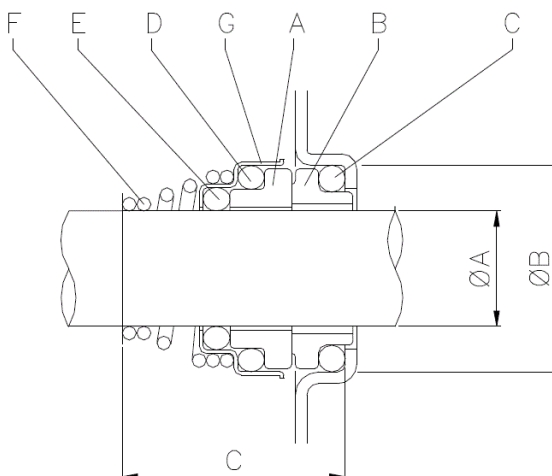
N°	PART NAME	MATERIAL	Quantity
110	Principal pump	-	2
114	Electric motor	-	2
150	Baseplate	Galvanized steel	1
156	Baseplate foot	SBR	4
210	Suction manifold	AISI 304	1
212	Union ball valve	Brass / P.T.F.E.	2
213	Check valve	Brass / NBR	2
221	Threaded female cap	AISI 304	1
232	Nipple for air feeders	Yellow brass	2
310	Discharge manifold	AISI 304	1
312	Union ball valve	Brass / P.T.F.E.	2
321	Threaded female cap	AISI 304	1
410	Control panel	-	1
460	Control panel frame	Galvanized steel	1
512	Ball valve	Brass / P.T.F.E.	1
513	Pressure gauge	Copper alloy / plastic	1
530	Pressure transmitter	-	1

(2/2) Construction

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MECHANICAL SEAL



Single Phase	Three Phase	ØA	ØB	C
CDA 0.75 M	CDA 0.75 T	15	26	29
CDA 1.00 M	CDA 1.00 T	15	26	29
CDA 1.50 M	CDA 1.50 T	18	30.9	32
CDA 2.00 M	CDA 2.00 T	18	30.9	32
-	CDA 3.00 T	18	30.9	32
-	CDA 4.00 T	20	30.9	33
-	CDA 5.50 T	20	30.9	33

REF	PART NAME	MATERIAL
A	Rotary seal ring	Ceramic
B	Stationary seal ring	Carbon graphite
C	O Ring	NBR
D	O Ring	NBR
E	O Ring	NBR
F	Self driving spring	AISI 316
G	Frame	AISI 304

BEARINGS

Type pumps		Ball Bearing			
			(*)		(*)
Single phase	Three Phase	Pump side	Pump side	Fan side	Fan side
CDA 0.75 M	CDA 0.75 T	6202 2RSH	-	6202 2RSH	-
CDA 1.00 M	CDA 1.00 T	6202 2RSH	6202-ZZ C3	6202 2RSH	6202-ZZ C3
CDA 1.50 M	CDA 1.50 T	6204 2RSH	6204-ZZ C3	6203 2RSH	6203-ZZ C3
CDA 2.00 M	CDA 2.00 T	6204 2RSH	6204-ZZ C3	6203 2RSH	6203-ZZ C3
-	CDA 3.00 T	6204 2RSH	6204-ZZ C3	6203 2RSH	6203-ZZ C3
-	CDA 4.00 T	6306 2RS1	6306-ZZ C3	6205 2RSH	6205-ZZ C3

(*) Only for IE3 Motors