**Booster set name**

# Technical Data

2GPE MATRIX 10-5T/2,2 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 | 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 | 2GPE MATRIX 10-5T/2,2 ESPT (UK) | Frequency | | Hz | 50 |
| 10 | Design | Booster Set | | | | |
| 11 | Manufacturer | EBARA | Impeller Dia. | Max. | mm | 101 |
| 12 | Speed rpm | 2850 | | Designed | mm | 101 |
| 13 | No. of Stage | 5 | | Min. | mm | 101 |
| 14 | Connection Suction side | UNI ISO 228 PN16 | Flow | Operating | m³/h | |
| 15 | Connection Discharge side | UNI ISO 228 PN16 | | Max- | m³/h | 15 |
| 16 | Max Working Pressure kPa | 1000 | | Min- | m³/h | 3.6 |
| 17 | Shut-off head kPa | 588.77 | Head | Operating | m | |
| 18 | Total weight kg | See the table of "Dimensions". | | - (Qmax.) | m | 14.3 |
| 19 | Shaft power kW | | | - (Qmin.) | m | 55.5 |
| 20 | | | Max. Shaft Power at max. impeller | | kW | 1.90 |
| 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 10-5T/2.2_400_Three Phase | Phases | | 3~ |
| 30 | Specific design | IE3 / 50 Hz / Pole pairs 1 | Frame size | | |
| 31 | Rated power kW | 2.2 | Weight; motor | kg | |
| 32 | Number of poles | 2 | Electric voltage | V | 400 |
| 33 | Speed rpm | 2850 | Electric current | A | 4.7 |
| 34 | Degree of protection | IP 55 | | | |
| 35 | | | | | |

**Remarks**

Item intended for the UK market only.

EBARA

# Performance curve

**Booster set name**

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**Requested data**

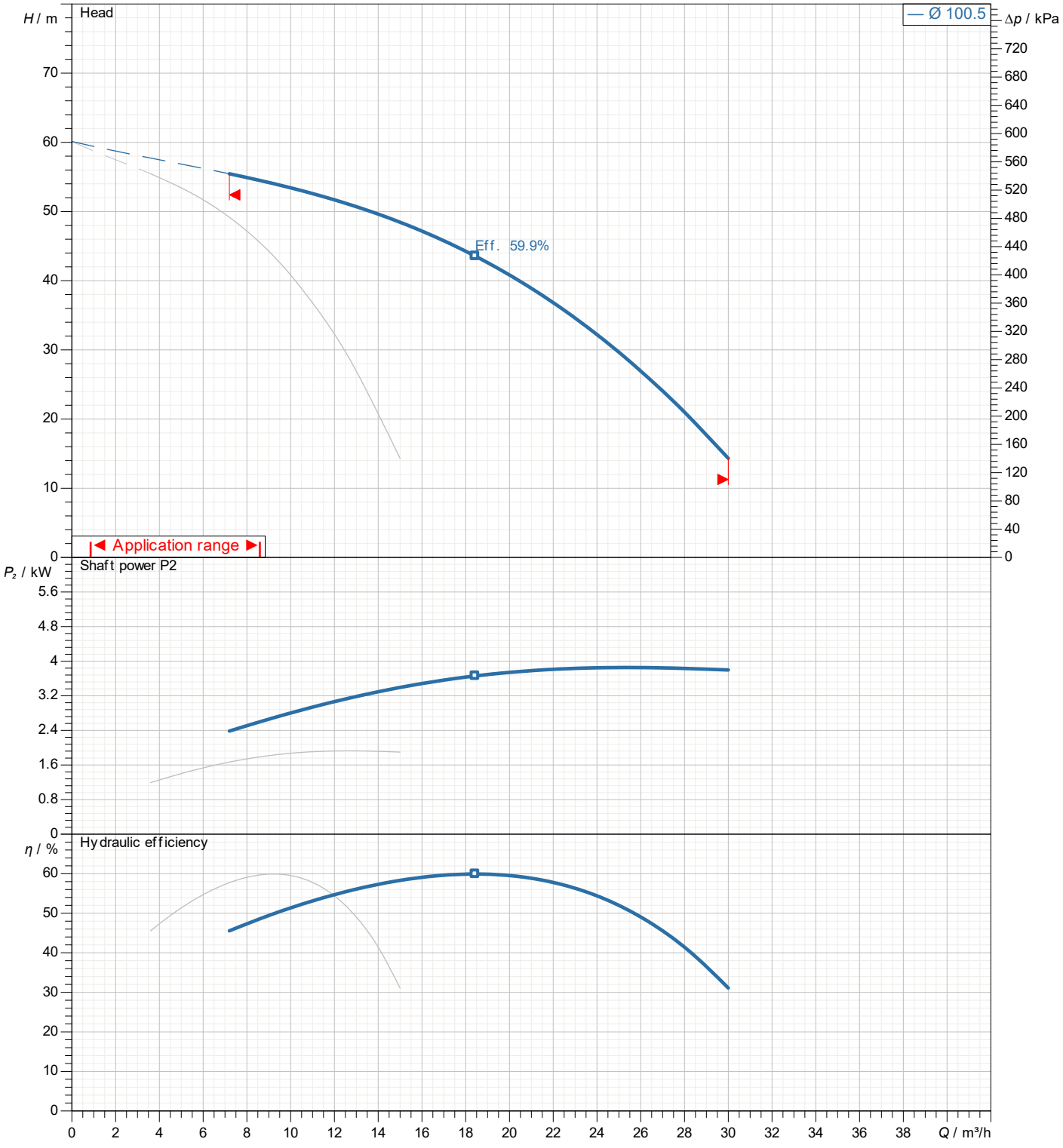
| | | | |
|---|---|---|---|
| 1 | Flow | m³/h | |
| 2 | Head | m | |
| 3 | Geodetic head | m | |

**Booster set**

| | | | | | |
|---|---|---|---|---|---|
| Operating flow | m³/h | | Frequency | Hz | 50 |
| Operating head | m | | Number of poles | | 2 |
| Impeller Diameter Designed | mm | 101 | Speed | rpm | 2850 |

Test standard: ISO 9906:2012 - Grade3B

Water; 20°C; 998.3kg/m³; 1cSt



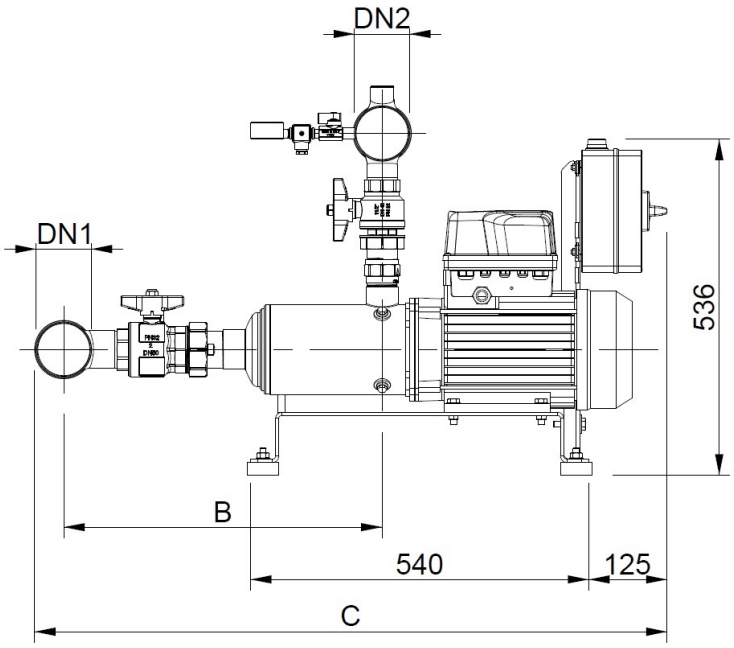

EBARA

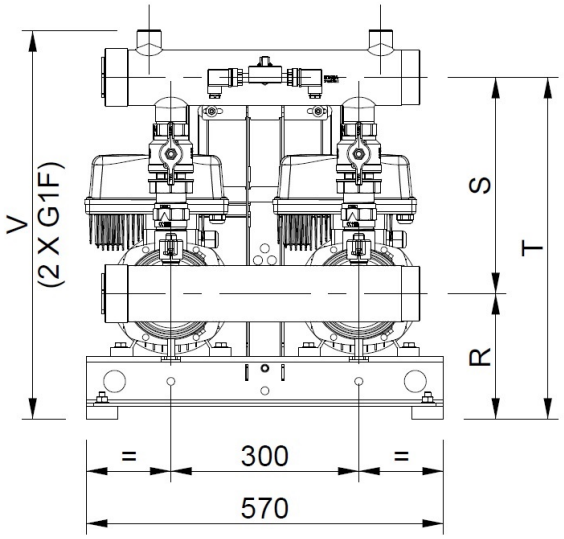
# Dimensions

**Booster set name**

2GPE MATRIX 10-5T/2,2 ESPT (UK)

| | | |
|---|---|---|
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| Dimensions in mm | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | B | 375 | | | | | | |
| 2 | C | 830 | | | | | | |
| 3 | DN1 | G2 1/2 | | | | | | |
| 4 | DN2 | G2 1/2 | | | | | | |
| 5 | R | 190 | | | | | | |
| 6 | S | 310 | | | | | | |
| 7 | T | 500 | | | | | | |
| 8 | V | 570 | | | | | | |
| 9 | Weight kg | 75 | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |

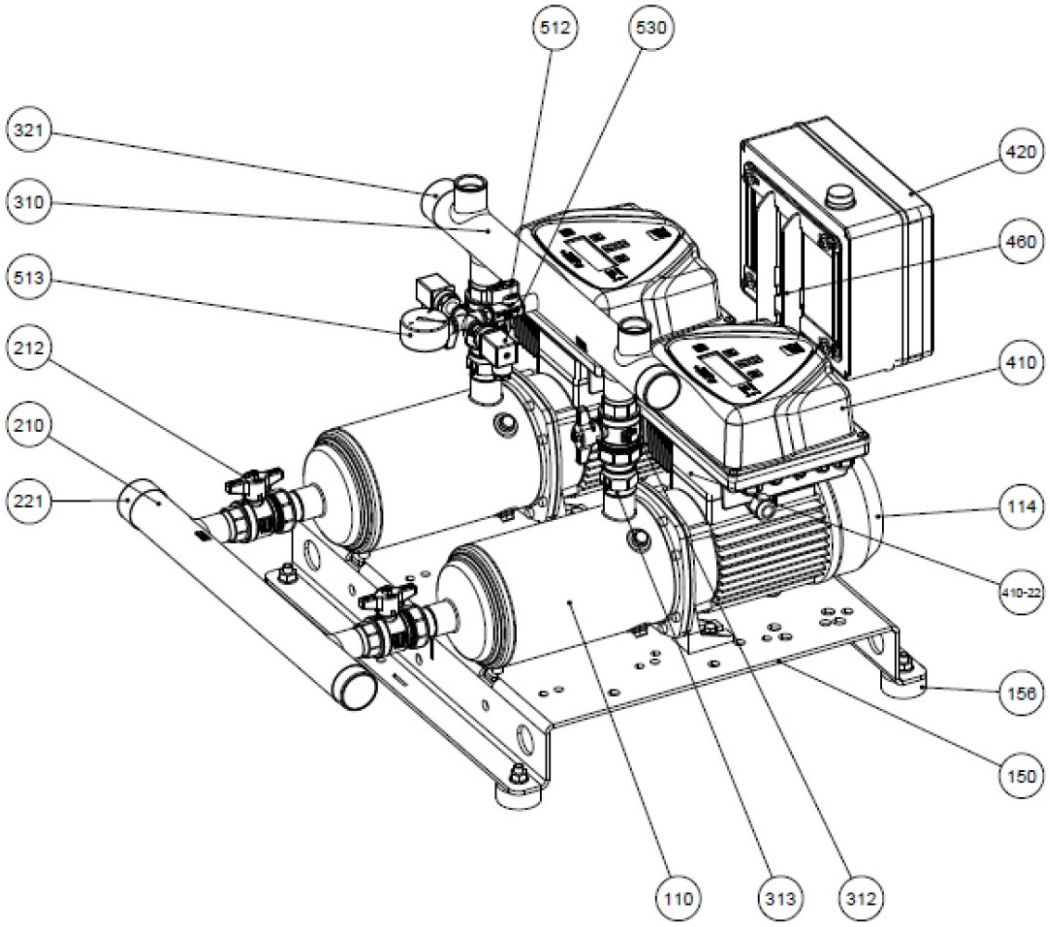
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# (1/2)
# Construction

**Booster set name**

2GPE MATRIX 10-5T/2,2 ESPT (UK)

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| Contact | Item no. | Issued by |
| Phone | Project | Phone |
| E-mail | Project ID | E-mail |




| 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 |
| 221 | Threaded female cap | AISI 304 | 1 |
| 310 | Discharge manifold | AISI 304 | 1 |
| 312 | Union ball valve | Brass / P.T.F.E. | 2 |
| 313 | Check valve | Brass / NBR | 2 |
| 321 | Threaded female cap | AISI 304 | 1 |
| 410 | E-SPD+ | - | 2 |
| 410-22 | E-SPD+ adaptor | - | 2 |
| 420 | Protection panel | - | 1 |
| 460 | Protection panel frame | Galvanized steel | 1 |
| 512 | Ball valve | Brass / P.T.F.E. | 1 |
| 513 | Pressure gauge | Copper alloy / plastic | 1 |
| 530 | Pressure transmitter | - | 2 |

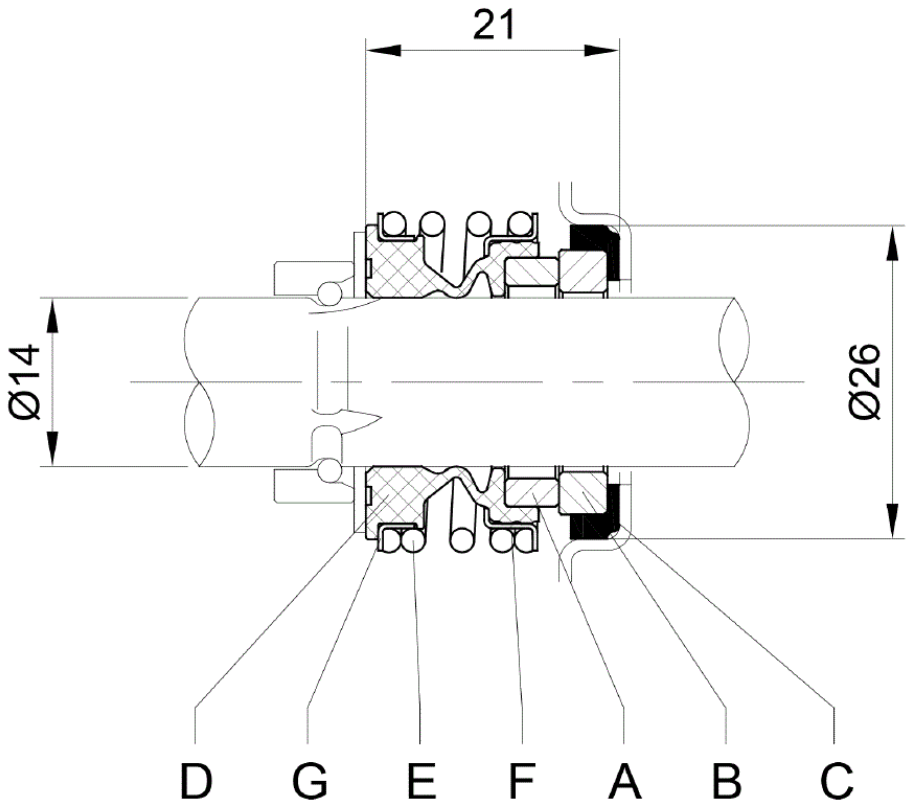
# (2/2)
# Construction

**Booster set name**

2GPE MATRIX 10-5T/2,2 ESPT (UK)

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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