

|                                                                                  |                                                     |              |                        |
|----------------------------------------------------------------------------------|-----------------------------------------------------|--------------|------------------------|
|  | <b>Product Information</b><br><b>LPP150-17-15/4</b> | Manufacturer | LEO                    |
|                                                                                  |                                                     | Address      | China,Zhejiang,Wenling |
|                                                                                  |                                                     | Contact      | 0576-89988888          |
|                                                                                  |                                                     | Date         | 2024/04/23             |
| <b>Project Name</b>                                                              |                                                     | Client Name  | Heatinvest             |
|                                                                                  |                                                     | Client Addr. |                        |
| <b>Item NO</b>                                                                   |                                                     | Contacts     |                        |
|                                                                                  |                                                     | Contact      |                        |

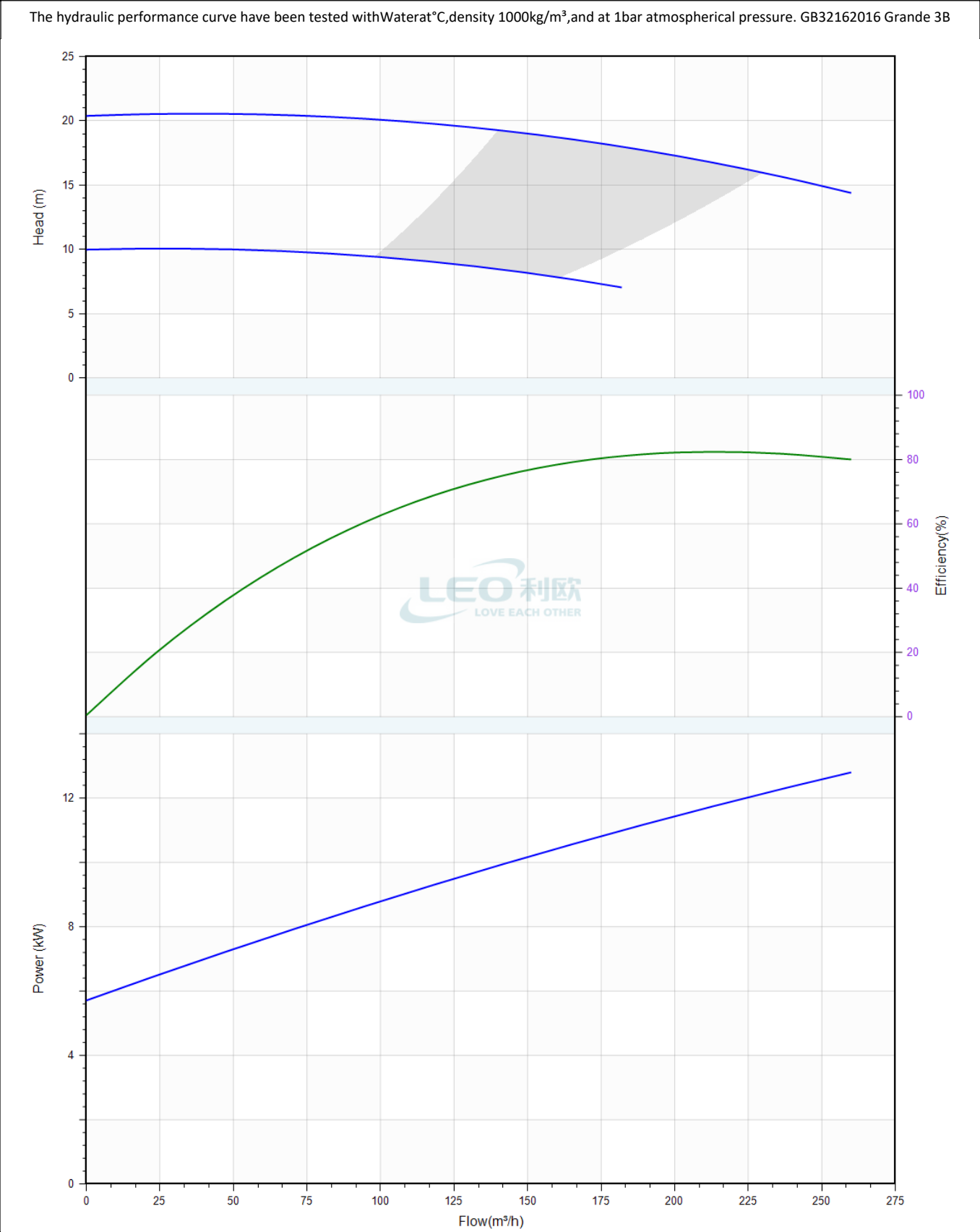
|                                                                                   |                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Part NO.                                                                          | LPP150-17-15/4                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Product Picture                                                                   |                                                                                                    | Note                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |
|  |                                                                                                    | <p>This series products are vertical in-line centrifugal pump. Standard configuration Mechanical seal standard motor. In daily maintenance the motor and impeller can be removed from the pump body for the maintenance and repair no need to remove pump body from the pipeline. Optimization design of impeller by CFD fluid simulation and analysis technology less axial force longer bearing life. Appearance designed by Italy professional shape design team the most advanced modular design concept. The surface of the whole machine adopts electrophoretic coating process, have better anti-corrosion effect.</p> |  |  |
| <b>Nameplate parameters</b>                                                       |                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| flow                                                                              | 200 m³/h                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| head                                                                              | 17 m                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| speed                                                                             | 1480 rpm                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| number of stages                                                                  | 1                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| <b>Technical</b>                                                                  |                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Curve tolerance                                                                   | ISO9906 AnnexA                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Maximum lift (m)                                                                  | 20                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Minimum usage flow (m³/ h)                                                        | 20                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Maximum use flow (m³/ h)                                                          | 260                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| <b>Material</b>                                                                   |                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Impeller                                                                          | HT200                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Pump inlet                                                                        | HT200                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Pump shaft                                                                        | AISI304                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Mechanical seal                                                                   | SiC/C                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| O-ring                                                                            | NBR                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| <b>Working conditions</b>                                                         |                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Max. ambient temperature (°C)                                                     | 40                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Max. liquid temperature (°C)                                                      | 90                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Pumped medium                                                                     | Thin, clean, non corrosive, non flammable and explosive liquid without solid particles and fibers. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Working pressure                                                                  | 16bar                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| <b>Installation</b>                                                               |                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Inlet & Outlet Diameter                                                           | DN150                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Connection standard                                                               | DIN                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| <b>Motor</b>                                                                      |                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Motor phase                                                                       | Three phase                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Protection class                                                                  | IP55                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Motor poles                                                                       | 4                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Insulation class                                                                  | F                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Motor power (KW)                                                                  | 15KW                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Frequency                                                                         | 50                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Rated voltage (V)                                                                 | 380                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Rated current (A)                                                                 | 28.7732522778337                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Efficiency class                                                                  | IE3                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Power factor                                                                      | 0.86                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |

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|                                                                                  |                                                         | Address      | China,Zhejiang,Wenling |
|                                                                                  |                                                         | Contact      | 0576-89988888          |
|                                                                                  |                                                         | Date         | 2024/04/23             |
| <b>Project Name</b>                                                              |                                                         | Client Name  | Heatinvest             |
|                                                                                  |                                                         | Client Addr. |                        |
| <b>Item NO</b>                                                                   |                                                         | Contacts     |                        |
|                                                                                  |                                                         | Contact      |                        |

|                         |              |
|-------------------------|--------------|
| Drive end bearing       | 7309         |
| Non-drive end bearing   | 6309         |
| Efficiency (%)          | 92.1         |
| <b>Weight/Packaging</b> |              |
| Gross weight (kg)       | 356          |
| Package size            | 1200*870*650 |

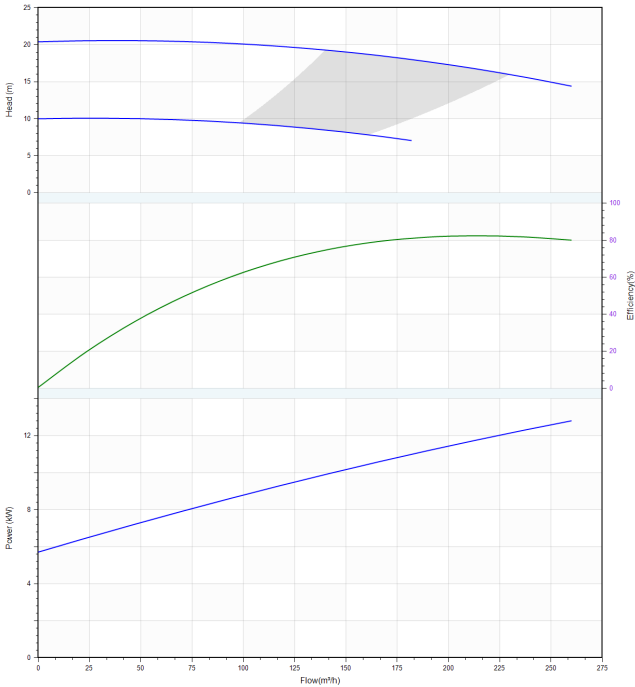


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|  | <b>Performance Curve</b><br><br><b>LPP150-17-15/4</b> | Manufacturer | LEO                    |
|                                                                                  |                                                       | Address      | China,Zhejiang,Wenling |
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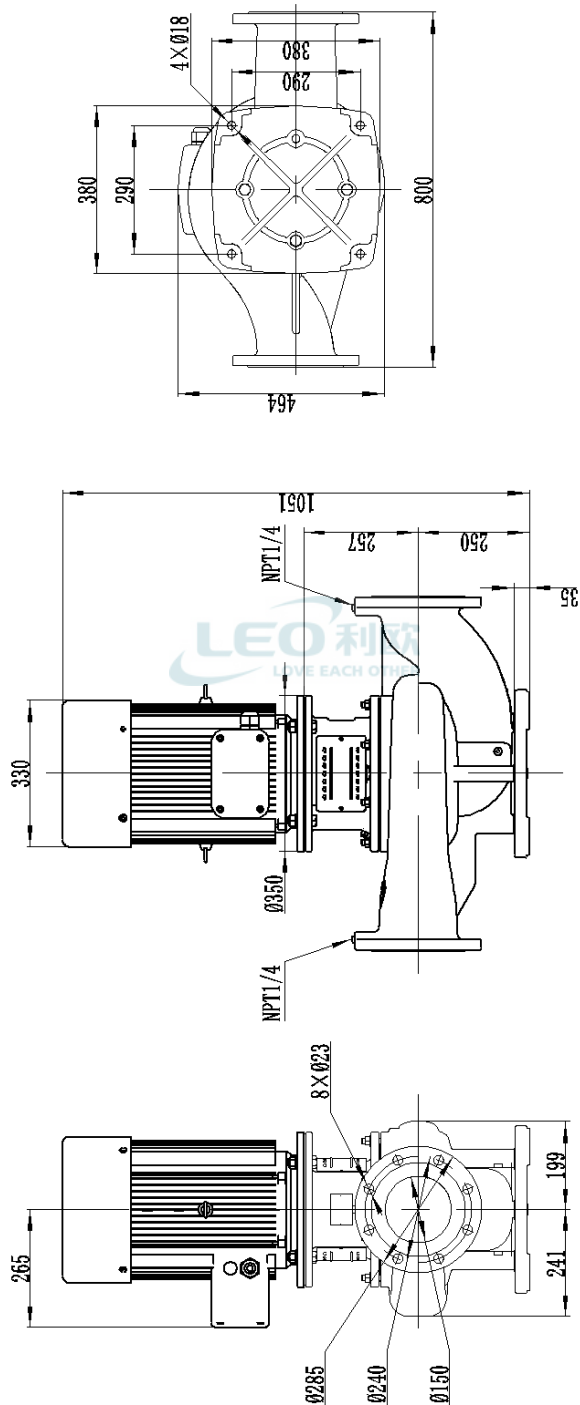


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|  | <b>Pump Technical Parameters</b><br><b>LPP150-17-15/4</b> | Manufacturer | LEO                    |
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|                                                                                  |                                                           | Client Addr. |                        |
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|                                                                                  |                                                           | Contact      |                        |

| Rated parameters           |                |
|----------------------------|----------------|
| Pump model                 | LPP150-17-15/4 |
| Part NO.                   | LPP150-17-15/4 |
| Rated flow                 | 200 m³/h       |
| Rated head                 | 17 m           |
| Rated efficiency (%)       | 82.6           |
| Power (kW)                 | 11.2           |
| Speed (rpm)                | 1480           |
| Max impeller diameter (mm) | 252            |
|                            |                |
| Medium                     |                |
| Pumped medium              | Water          |
| Working temperature (°C)   | 20             |
| Medium density (kg/m³)     | 1000           |
| Viscosity (mm²/s)          | 1              |
|                            |                |



|                                                                                  |                                                          |              |                        |
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|  | <b>Installation picture</b><br><br><b>LPP150-17-15/4</b> | Manufacturer | LEO                    |
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|                                                                                  |                                                          | Contact      |                        |



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|----------------------------------------------------------------------------------|-------------------------------------------------------|--------------|------------------------|
|  | <b>Structure picture</b><br><br><b>LPP150-17-15/4</b> | Manufacturer | LEO                    |
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| Item NO                                                                          |                                                       | Contacts     |                        |
|                                                                                  |                                                       | Contact      |                        |

LPP



| 29  | Hex nut                    |          |
|-----|----------------------------|----------|
| 28  | Washer                     |          |
| 27  | Motor                      |          |
| 26  | Hex head bolt              |          |
| 25  | Clamp ring                 | 45       |
| 24  | Pump shaft                 | 304/45   |
| 23  | Key                        | 304      |
| 22  | Release valve              | 304      |
| 21  | Hex nut                    | HPb59-1  |
| 20  | Washer                     |          |
| 19  | Hex head bolt              |          |
| 18  | Motor frame                | HT200    |
| 17  | Rivet                      |          |
| 16  | Nameplate                  |          |
| 15  | Guard plate                | 304      |
| 14  | Screw                      |          |
| 13  | Mechanical seal            | SiC/C    |
| 12  | Impeller                   | HT200    |
| 11  | Washer                     | 304      |
| 10  | Spring washer              | 304      |
| 9   | Hex nut                    | 304      |
| 8   | O-ring                     | NBR      |
| 7   | Double-head stud A type    |          |
| 6   | Hexagonal socket head plug |          |
| 5   | Pump body                  | HT200    |
| 4   | Hexagonal socket head plug |          |
| 3   | Baseplate                  | HT200    |
| 2   | Spring washer              |          |
| 1   | Hex head bolt              |          |
| No. | Part                       | Material |

|                                                                                  |                                                  |              |                        |
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|  | <b>Physical picture</b><br><b>LPP150-17-15/4</b> | Manufacturer | LEO                    |
|                                                                                  |                                                  | Address      | China,Zhejiang,Wenling |
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|                                                                                  |                                                  | Date         | 2024/04/23             |
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