


<i>Date of revision:</i> 06/04/2022 <i>Revision:</i> 1	Assembly instructions	
<i>Lists:</i> L4500401	Diesel sprinkler pumps English	<i>Page:</i> 1

- 1) Place the unit on the foundation provided for this purpose and align it. The foundation must be suitable for absorbing static and dynamic forces of the running unit. The base frame must be seated completely flush on the foundation. If a gap remains between the base frame and the foundation after alignment, fill the gap with shrinkage-free mortar. Dowel the base frame down on the foundation using the specified number of bolts. After fastening, check whether the coupling is still properly aligned. If necessary, align according to the manufacturer's specifications.
- 2) The suction and pressure line must be connected to the pump completely free of tension. Install fixed points directly after the suction and pressure connections.
- 3) The cooling water return from the heat exchanger must be installed after at least 2" and fed directly and **visibly** into the storage container above without using additional fittings. If it is not possible to install the cooling water return visibly, a fitting needs to be assembled in order to render the cooling water flow visible. When using a pump fill-up tank, make sure that the water level in the cooling water return is not below the water level in the fill-up tank.
- 4) The exhaust gas line must be installed while observing the minimum dimensions specified by us and is to be laid outdoors in the shortest way possible. The outlet to the outside must be carried out in a way that no water or snow can enter. Affix a coarse-meshed protective grid to prevent the nesting of birds. By means of the compensator supplied by us, the connection of the exhaust gas line to the engine is flexible. **The compensator must not be distorted by the exhaust gas line. For this purpose, a fixed point for the exhaust gas line must be installed directly after the compensator.** Consider the thermal expansion when installing the exhaust gas line. In addition, prevent any condensate from reaching the engine. The exhaust silencer can be assembled in any position desired and should be installed behind the motor at a distance of 2–5 m. If mounted in vertical position above the motor, a condensate drain must be provided. If the length of the exhaust gas line deviates from the specifications in the offer, please observe the dimensions and make adjustments if necessary. It must be ensured that the exhaust gas line is leakproof. An inspection can be requested from the KAGEMA Service.
- 5) Ensure sufficient ventilation. Data on radiant heat and combustion air volume can be found in the product data sheet.
- 6) The starting batteries must only be connected upon start-up and after the installation has been inspected.
- 7) The power supply of the control box requires three-phase alternating current, 400 V, 50 Hz, fused with at least 25 Amp. The power consumption is at least 3.3 kW. Voltage must only be switched on after the starter batteries have been connected and the wiring has been checked.
- 8) Close the pressure switches for automatic start-up by use of the supplied resistors to be accommodated in the pressure switch.
- 9) If an assembled room air cooling unit was supplied, a free air flow must be ensured.
- 10) If using units with steel profile frames, it is recommended to construct the entire machine room or at least the area around the unit on site as an oil-tight tank with the appropriate capacity. The quantity of substances hazardous to water can be found in the product data sheet. For units with WHG frames, a tank provided by the customer is not required.
- 11) Start-up is carried out by KAGEMA or a partner authorised by KAGEMA.