Thank you for purchasing the 4-way reversing valve type STF-****Z.

To ensure that you will operate the product correctly, read all instructions carefully before use. Keep these instructions handy for future reference.

SAFETY PRECAUTIONS

**WARNING**
- Do not energize coil unless it is attached to the valve body. If not fixed, the coil may burn out. Do not allow multiple connections on the coil body.
- Do not use with voltage which does not match that on the coil label. This could result in a coil burnout (fires or fire), or malfunction.
- Do not carry a coil assembly or complete valve by the coil leads. This could damage coil and result in valve failure.
- Do not subject coil to a shock or heavy load. This could deform the tube and result in an inoperative valve, a coil burnout (fires or fire), or fluid leakage.
- Do not wrap up coil with thermal insulation. This could result in a coil burnout.
- Keep inflammable things away from coil. They could catch fire by coil heat.

**SPECIFICATION**
- Body Test Pressure: 4.95MPa (49.5 bar)
- Airtight Test Pressure: 3.3MPa (33 bar)
- Max. Operating Pressure Diff.: 2.49MPa (2.49 bar)
- Min. Operating Pressure Diff.: 0.294MPa (2.94 bar)
- Applicable Fluids: Fluorocarbon refrigerants (Contact us if other fluids are used.)
- Fluid Temperature: -20 ~ +120℃
- Ambient Temperature: -20 ~ +55℃
- Ambient Humidity: Less than 95%RH

**CONSTRUCTION AND FEATURES**
- The valve is a 4-way reversing valve for heat-pump air conditioners, composed of three components: a pilot valve, a valve body and a solenoid coil assembly.
- Internal parts are resistant to fluorocarbon refrigerants.

**VALVE SELECTION**
- Selection of proper valves is important for good control. See the above specifications concerning general specifications of the valve.
- Verify compatibility of specifications to the system by referring to our catalog. If the valve is not compatible, such as its use with liquid flow, pressure rise on high pressure side or incapability of valve changeover could occur.

**INSTALLATION INSTRUCTIONS**
- To ensure that the valve is properly installed and operating, follow these instructions carefully.
- Do not install in locations where the valve is exposed to rain or gets water dropping from the condenser coil.
- Do not press, pull or wrench the valve body. This could result in an inoperative valve.
- Do not carry a coil assembly or complete valve by the coil leads. This could damage coil and result in valve failure.
- Do not allow multiple connections on the coil body.
- Do not subject coil to a shock or heavy load. This could deform the tube and result in an inoperative valve, a coil burnout (fires or fire), or fluid leakage.
- Do not wrap up coil with thermal insulation. This could result in a coil burnout.

**MAINTENANCE AND INSPECTIONS**
- Contact SAGINOMIYA SEISAKUSHO, INC. (“SAGINOMIYA”) if maintenance and inspections are required.
- Be sure to shut off the power supply during maintenance and inspections.

**OPERATION CHECK**
- After proper installation, make a trial operation and confirm that the whole system fully operates.

**LIMIT ON APPLICATION**
- The product is not designed and manufactured for such equipment or system of that is intended to be used under such circumstances as involve human life. For application requiring especially high reliability, please contact SAGINOMIYA first.

**LIMITED WARRANTY**
- If this product is in any trouble attributable to SAGINOMIYA, SAGINOMIYA will repair or replace the product without charge.
- This warranty does not cover damage resulting from any of the following:
  1. Improper handling or application by the user
  2. Modification or repair by other than SAGINOMIYA
  3. Any act or event beyond the control of SAGINOMIYA including, but not limited to, war, riot, fire, storm or other acts of God.

The warranty described herein is for the product itself and does not include warranty for any consequential damage brought about by a defect or failure of the product.