

Product & Technical Configuration



Overview

Used for reactions in chemical, pharmaceutical and food processes. Carbon steel, stainless steel, zirconium and nickel-based alloys can be selected for the fluids and operating conditions.

Technical Configuration

Item	Configuration
Brand	IKUSE
Processes	Vulcanization, nitration, hydrogenation, alkylation, polymerization and condensation
Material options	Carbon steel, low-alloy steel, stainless steel, zirconium, nickel-based alloys and clad plate
Nickel-based options	Hastelloy, Monel and heat-resistant Ni-Cr alloys
Configuration basis	Reaction process, fluids, temperature, pressure and heat transfer duty

Product & Technical Configuration



Overview

Continuous-flow reactors for fine-chemical research and production. Mixing, heat transfer and residence-time control are configured to suit the reaction process.

Technical Configuration

Item	Configuration
Brand	IKUSE
Operation	Continuous flow
Features	Rapid mixing and heat transfer; narrow residence-time distribution
Applications	Industrial research and fine-chemical production
Selection data	Reaction conditions, fluids, materials, flow rate and residence time

Product & Technical Configuration



Overview

Storage vessels for liquids or gases. Select construction and materials for the fluid, pressure, temperature and corrosion conditions in petroleum, chemical, edible-oil and food processes.

Technical Configuration

Item	Configuration
Brand	IKUSE
Stored fluids	Liquids or gases
Material options	Carbon steel, stainless steel, duplex stainless steel, titanium alloys and Hastelloy
Applications	Petroleum, chemical, grain and oil, food, firefighting, transport and metallurgy
Selection criteria	Fluid, capacity, pressure, temperature and corrosion protection



Overview

A cylindrical heat exchanger with bolted end flanges for disassembly and inspection under the maintenance plan. Connections, heat transfer area, materials and installation are selected for the fluids, thermal duty and available space.

Technical Configuration

Item	Configuration
Brand	IKUSE
Construction	Removable bolted end flanges
Arrangement shown	Vertical body with axial and side flanged connections
Configuration	Materials, heat transfer area, connections and installation
Selection basis	Fluid properties, duty, temperature, pressure and service clearance

Provide allowable pressure drop, fouling information and cleaning requirements. Reserve maintenance clearance according to the approved equipment drawing.



Overview

For condensation duties requiring titanium material selection. Wetted materials, heat transfer area and cooling conditions are determined from fluid composition, concentration, temperature and condensation duty. Connection arrangements are selected for site conditions.

Technical Configuration

Item	Configuration
Brand	IKUSE
Product type	Titanium condenser
Process duty	Condensation and cooling
Arrangement shown	Vertical body with flanged connections
Selection basis	Fluid composition, corrosion conditions, duty and coolant

Wetted material grade, seals, design temperature and pressure, connections and dimensions are determined for the operating conditions and technical agreement.



Overview

For condensation duties requiring nickel-base Hastelloy materials. Alloy grade and wetted components are selected for the fluid corrosion conditions. Condensing area, flow arrangement, connections and installation depend on duty and site requirements.

Technical Configuration

Item	Configuration
Brand	IKUSE
Material family	Nickel-base Hastelloy; grade selected for the fluid
Process duty	Condensation and cooling
Arrangement shown	Horizontal body with saddle supports
Selection basis	Corrosion conditions, duty, temperature, pressure and allowable pressure drop

Provide full fluid composition, concentration and impurities. Select wetted materials, seals and thermal configuration together with the cooling-side conditions.



Overview

A skid-mounted assembly built around a coil-wound heat exchanger with piping, valves and measuring instruments. The configuration is selected for the hot- and cold-side fluids, thermal duty, allowable pressure drop and site connections.

Technical Configuration

Item	Configuration
Brand	IKUSE
Core equipment	Coil-wound heat exchanger
Package arrangement	Skid-mounted assembly
Package components	Piping, valves and measuring instruments
Selection inputs	Fluids, flow rates, temperature, pressure, duty and site connections

Piping, valves, instrumentation and controls are specified for the project. Check dimensions, connection orientation and maintenance access before installation.