KD-SFE-420

supercritical CO₂ extraction equipment

The principle of supercritical carbon dioxide extraction is that supercritical carbon dioxide can dissolve some special natural products.

PROCESS INTRODUCTION

a. More than 30 years manufacture experience; b. ASME and CE requirement for high standard requirement; c. Professional design, manufacture, and assemble team to guarantee good quality; d. Special customization service.

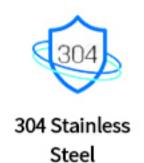
SC CO₂+0il

Raw Materials















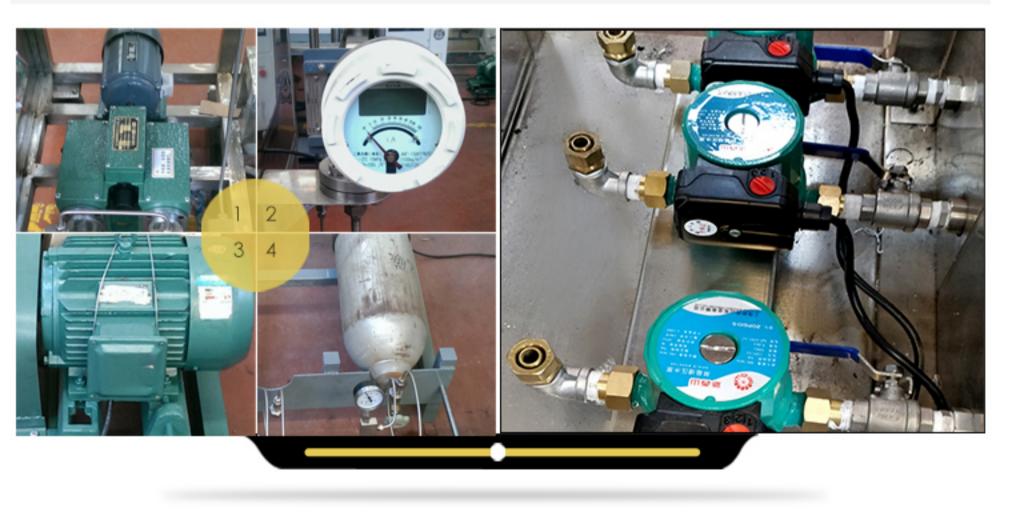
- Gases in fluid condition (above the critical pressure and the critical temperature) dissolve larger quantities of substances than the partial pressure of the
- CO2 is an APOLAR solvent, which results in a high solubility for non polar and low polar substances up to a molecular weight of 250g/molSolubility de-
- Highly polar substances are insolubleThe raw material is exposed to the fluid
- Separation is achieved by change of parameters (pressure and temperature)



Provide you with experiment solution

Feature

- 1.CO2 is inexpensive, not combustible, not explosive, germicidal, free of bacteria, selective and mobile.
- 2. Heat sensitive materials are gently treated.
- 3. Products and residues are solvent-free.



- 4. The solvating power can be changed (conditions, or the use of modifiers)
- 5.An excellent flavour profile can be achieved for oils
- 6. Pure extracts are produced with few process steps
- 7. Fragrances and aromas remain unchanged
- 8. Selective extraction and fractionated separation is possible
- 9.CO2 is recycled within the plant, is physiologically harmless and does not cause environmental problems like some conventional solvents





ZZKD-10L

ZZKD-25L

PRODUCT DISPLAY





KD-SFT-10L



KD-SFT-50L





KD-SFT-25L



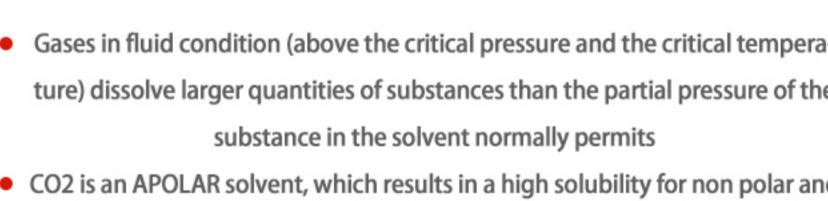
Gaseous CO 2

Chiller

Extract Extrator Comperssed Heater Pump Liquid CO 2 Gauges

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Separator



- creases with increasing polarity
- and soluble substances are transferred into it



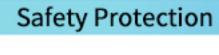
Details

asy-to-use and convenient to operation Perfect security



Control Method

Convenient and reliable operation control method, can choose instrument semi-automatic, PLC automatic control of two modes.





Automatic pressure relief of overpressure, when the pressure temperature exceeds the protection pressure, the alarm light will give an alarm to ensure the safe operation of the equipment

Product Material



 All stainless steel containers, pipe valves, sanitary grade SS304 or SS316; Special requirements of the non-standard customized design and production to meet your special needs