



Alfa Laval Compabloc

High-performance fully welded plate heat exchanger for process duties

Introduction

The Alfa Laval Compabloc is a fully welded compact heat exchanger designed for a wide range of process and utility duties. The Compabloc range provides the most efficient, cost-effective, compact and cleanable heat exchanger solution available today. The Compabloc is the market leader in terms of life-cycle cost and energy savings.

The heart of the Compabloc is a stack of corrugated heat transfer plates in 316L stainless steel, or other high-grade material. The plates are laser welded (models CP30 and above) and form a compact core. This core is then enclosed and supported by four corner girders, top and bottom heads and four side panels. These components are bolted together and can be quickly taken apart for inspection, service and cleaning.

Applications

Thanks to the Compabloc's unique design concept the possibilities for process optimization and flexibility are limitless. The Compabloc can be configured in single or multi-pass arrangements in either co-current or counter-current operation, for liquid-to-liquid or two-phase duties.

For condensation and reboiling positions, the large cross flow area and short flow path fit low-pressure duties and allow very low pressure drops. For heat recovery duties, a multi-pass configuration allows temperature cross and close temperature approaches (down to 3 °C (5.4 °F)).

The design concept allows a different number of passes on the two circuits thereby enabling large differences in flow rates between the hot side and the cold side. The baffling can easily be re-arranged to suit a new duty should the flow rates or temperatures change.

The Compabloc can be mounted vertically, for normal liquid-to-liquid duties, condensation with sub-cooling and gas cooling duties, or horizontally, for most condensation, reboiling or liquid-to-liquid duties where height is restricted.

Benefits

- reduced size, weight and number of heat exchangers thanks to high thermal performance and compact design
- increased energy savings due to crossing temperatures and close temperature approach in a single unit



- safe handling of aggressive media and high-pressure/high temperature duties
- minimized fouling thanks to high wall shear stress
- easy opening of the unit and access to the heat transfer area for facilitating inspection, mechanical cleaning, maintenance and repair
- very cost competitive design with high alloy material
- reduced risk of crevice corrosion due to unique plate-to-plate joints

Working principle

The two media in the Compabloc heat exchanger flow in alternately welded channels between the corrugated plates. These corrugated plates promote high turbulence which provides high heat transfer efficiency and help minimize fouling. The media flows in a cross-flow arrangement within each pass while the overall flow arrangement is counter-current for a multi-pass unit (if required the unit can also be designed with overall co-current operation). Each pass is separated from the adjacent passes by a pressed baffle which forces the fluid to turn between the plate pack and the panel.

Alfa Laval Heat Exchanger Installation Manual

Jianjun Gao



Alfa Laval Heat Exchanger Installation Manual:

Plate Heat Exchanger Alfa Laval Separation AB., **Heat Exchangers** Kuppan Thulukkanam, 2024-02-29 Heat Exchangers Classification Selection and Thermal Design Third Edition discusses heat exchangers and their various applications such as refrigeration air conditioning automobiles gas turbines process industries refineries and thermal power plants With a focus on thermal design methods including rating and sizing the book covers thermohydraulic fundamentals and thermal effectiveness charts for various flow configurations and shell and tube heat exchangers It provides construction details geometrical features and correlations and thermo hydraulic details for tube fin plate fin air cooled shell and tube microchannel and plate heat exchangers and thermal design methods like rating and sizing The book explores additive manufacturing of heat exchangers printed circuit heat exchangers and heat transfer augmentation methods The book also describes recuperators and regenerators of gas turbine cycles waste heat recovery devices and phase change phenomena including boiling condensation and steam generation The book serves as a useful reference for researchers graduate students and engineers in the field of heat exchanger design including heat exchanger manufacturers Handbook [of] Heat Exchanger Fouling Hans Müller-Steinhagen, 2000 This handbook presents the most important technologies concerning the reduction of fouling in heat exchangers and the appropriate technologies of removal and cleaning The general and scientific fundamentals of heat transfer are also explained Plate Heat Exchanger Alfa Laval Separation AB., **Food Industries Manual** M. D. Ranken, 2012-12-06 It is a pleasure to be involved in yet another edition the enforcement system and its officers and the of the Food Industries Manual and to know that the appearance of many more consultants advisors and training specialists all claiming to assist manu book remains in sufficiently high demand for a new edition to be necessary The work of revision and facturers in the discharge of what are described as updating has been rewarding to us and we hope that new and onerous duties In reaction to all this food the result will be found at least equally helpful to manufacturers are learning so to order their opera those who use it tions that their reliability and their commitment to In the five years since the last edition the growth quality and good workmanship can be routinely of the chilled foods sector in both quantity and demonstrated The touchstone of this has become quality with much more refrigeration available accreditation of the manufacturer s systems by an and in use with close control of refrigeration tem independent authority for instance that they peratures storage times storage temperatures conform with the International Standard for tra Sport conditions and display conditions and Quality Systems ISO 9000 or its British Standard with better information on labels and elsewhere equivalent BS 5750 These and related matters are about shelf life and the handling of products has dealt with in another new Chapter on Food Issues Food Industries Manual Christopher G.J. Baker, M.D. Ranken, R.C. Kill, 2012-12-06 It is a measure of the rapidity of the changes The work has been revised and updated and taking place in the food industry that yet another following the logic of the flow sheets there is some edition of the Food Industries Manual is required simplification and

rearrangement among the chap after a relatively short interval As before it is a ters Food Packaging now merits a separate pleasure to be involved in the work and we hope chapter and some previous sections dealing mainly that the results will continue to be of value to with storage have been expanded into a new readers wanting to know what how and why the chapter covering Food Factory Design and Opera food industry does the things which it does tions For this edition we have made a major depar There is one completely new chapter entitled ture from the style of earlier editions by comple Alcoholic Beverages divided into Wines Beers tely revising the layout of many of the chapters and Spirits There is a strain of thought which Previously the chapters were arranged as a series does not yet consider the production of those of notes on specific topics set out in alphabetical drinks to be a legitimate part of the food industry order in the manner of an encyclopaedia

Heat Exchanger Equipment Field Manual Maurice Stewart,Oran T. Lewis,2012-07-23 From upstream to downstream heat exchangers are utilized in every stage of the petroleum value stream An integral piece of equipment heat exchangers are among the most confusing and problematic pieces of equipment in petroleum processing operations This is especially true for engineers just entering the field or seasoned engineers that must keep up with the latest methods for in shop and in service inspection repair alteration and re rating of equipment The objective of this book is to provide engineers with sufficient information to make better logical choices in designing and operating the system Heat Exchanger Equipment Field Manual provides an indispensable means for the determination of possible failures and for the recognition of the optimization potential of the respective heat exchanger Step by step procedure on how to design perform in shop and in field inspections and repairs perform alterations and re rate equipment Select the correct heat transfer equipment for a particular application Apply heat transfer principles to design select and specify heat transfer equipment Evaluate the performance of heat transfer equipment and recommend solutions to problems Control schemes for typical heat transfer equipment application

Process Safety for Engineers CCPS (Center for Chemical Process Safety),2022-05-03 Process Safety for Engineers Familiarizes an engineer new to process safety with the concept of process safety management In this significantly revised second edition of Process Safety for Engineers An Introduction CCPS delivers a comprehensive book showing how Process Safety concepts are used to reduce operational risks Students new engineers and others new to process safety will benefit from this book In this updated edition each chapter begins with a detailed incident case study provides steps that help address issues and contains problem sets which can be assigned to students The second edition covers Process Safety including an overview of CCPS Risk Based Process Safety Hazards specifically fire and explosion reactive chemical and toxicity Design considerations for hazard control including Hazard Identification and Risk Analysis Management of operational risk including management of change In addition the book presents how Process Safety performance is monitored and sustained The associated online resources are linked to the latest online CCPS resources and lectures

Corrosion Management of Seawater Cooling Systems Francois Ropital,Valerie Bour Beucler,Antoine Surbled,2024-06-15

Corrosion Management of Seawater Cooling Systems Volume 71 provides an overview on main seawater heat exchanger systems different forms of corrosion biocide treatments corrosion scale inhibitors materials used coatings and cathodic protection maintenance and monitoring and control The book will be a valuable reference resource for academics technicians and engineers who are interested in the corrosion management of seawater cooling systems The evolution of practices in terms of sustainability materials choice treatment selection and changes to regulations have demonstrated the need to establish this new guide on recommended best practices that support corrosion management and the development of seawater heat exchangers Seawater is considered an attractive resource for utilities in many industries such as power plants refineries and chemical plants Seawater cooling systems are used in heat exchangers in once through cooling water systems and for recirculating cooling water systems The metallurgy and materials used in these facilities need to be compatible with seawater and allow good corrosion control As seawater composition and suspended solids can cause corrosion scaling fouling microbiological growth and macrofouling problems this book is a necessary addition to the conversation Covers key technological developments in corrosion management of seawater cooling systems Includes coverage of seawater heat exchangers Provides information on many different forms of corrosion Presents tactics for the selection of materials corrosion protections inhibitors coatings cathodic protection Discusses maintenance control monitoring and inspection

Cane Sugar Handbook James C. P. Chen, Chung Chi Chou, 1993-12-16 In print for over a century it is the definitive guide to cane sugar processing treatment and analysis This edition expands coverage of new developments during the past decade specialty sugars plant maintenance automation computer control systems and the latest in instrumental analysis for the sugar industry

Power Generation Retrofitting Paul Winkle, 2005-02-11 Power Generation Retrofitting Optimizing Power Plant Performance reviews the experience of previous retrofitting projects and assesses the options currently available from power plant and equipment manufacturers The book also considers the likely future demand for retrofit services from the UK and overseas markets Power Generation Retrofitting Optimizing Power Plant Performance will be of value to those involved in the management operation or maintenance of existing plant and to those involved in the design development and servicing of steam plant and auxiliary systems CONTENTS INCLUDE How high tech fossil fuel handling can minimize profit loss when retrofitting steam power generation plant Exchanging rotary heaters The role of the plate heat exchanger in achieving improved performance on steam power generation plant Low mass flux vertical tube furnace retrofit at Yaomeng in the People s Republic of China Optimized plant retrofits New life for older plants recent utility boilers refurbishment experience *Mergent International Manual* ,2009 [Energy Management Manual for Dairy Processors](#) ,1985

Plate Heat Exchanger Alfa Laval Separation AB., *Energy Research Abstracts* ,1982

Heat Exchangers Sadik Kakaç, Hongtan Liu, Anchasa Pramuanjaroenkij, 2002-03-14 Researchers practitioners instructors and students all welcomed the first edition of Heat Exchangers Selection Rating and Thermal Design for gathering into one place the essence of the

information they need information formerly scattered throughout the literature While retaining the basic objectives and popular features of the bestselling fi *Juice Processing* Victor Falguera,Albert Ibarz,2014-04-01 The ability to provide quality juices that contain proper vitamins and nutritional components strongly depends on the processes fruits undergo during the various stages of industrial manufacturing New technologies have been developed to help ensure the production of quality juices without neglecting safety Covering both new approaches to traditio *Solar Energy Update* ,1985
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5 4 1 5 4 1 $\cos u \, dx$