

# CO2 on fishing ships with Danfoss (& JCI) Components since 2001



# CO<sub>2</sub> Valves and support components

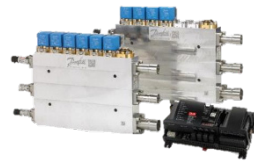
**Portfolio expansion for smaller and larger capacities** (new releases in **bold**)

## Transcritical Expansion Valves



Products	MWP
ICMTS	140
CCMT 2 - 42	140
<b>CCMT Light</b>	<b>140</b>
JKV	140

## Ejectors



Products	Type	MWP
CTM HP	High Pressure	140
CTM LP	Low Pressure	140
CTM LE	Liquid	140
<b>CTM HP LE</b>	<b>Combi</b>	<b>140</b>

## Electronic Expansion Valves



Products	Type	MWP
AKVP	PWM	90
AKVA	PWM	42
ICM	Stepper	52/65
CCM/CCMT	Stepper	90/140

## Line Components



Products	Type	MWP
GBCH/GBCT	<b>Ball Valve</b>	90/140
SVA	Stop Valve	52/65
DMSC/DMT	Filter Drier	52/140
DCR	Filter Drier	46
NRV/NRV 10H	Check Valve	46/90
CHV / SCA-X	Check Valve	52/65
FIA	Strainer	52/65

## Flow Regulating Valves



Products	Type	MWP
<b>CTR</b>	<b>Three way</b>	<b>140</b>
REG	Cone	52/65

## Valve Stations



Products	MWP
ICF	52/65

Danfoss CO<sub>2</sub> solutions for Industrial, Commercial and Food Retail Applications

## Solenoid Valves



Products	MWP
EVUL/EVU	90/(120 <sup>1</sup> )
ICLX/ICSH/EVRS	52

<sup>1</sup>Contact SV product management

## Gas-bypass/Pressure Reg. Valves



Products	MWP
CCM/CCMT	90/140
<b>ICS/CVH with CVP-HP/XP</b>	<b>52/65<sup>2</sup></b>

<sup>2</sup>Contact IR product management

## Liquid Level Controls



Products	Type	MWP
<b>LLS 4000<sup>3</sup></b>	<b>Liquid Level Switch</b>	<b>65</b>
AKS 4100	Liquid Level Sensor	100

## Safety Pressure Relief Valves



Products	MWP
<b>SFA</b>	<b>65</b>

## Safety Pressure Switches



Products	Type	MWP
<b>CKB<sup>3</sup></b>	<b>PSH/PZH/PZHH</b>	<b>140</b>

<sup>3</sup>Available Q1, 2021

# CO<sub>2</sub> Electronics, Drives and Sensors

**Portfolio expansion for smaller and larger capacities** (new releases in **bold**)

## System Manager



AK-SM 800

## Pressure Switches



RT  
MBC 5000 High Pressure  
KP 6

## Pressure Sensors



MBS 8250 High/Medium Pressure  
AKS 32 Ratiometric Low Pressure  
**DST P110 Digital Low Pressure**

## Temperature Sensors



AKS 11 PT1000  
AKS 21A

## Gas Detection



DGS

## Service Tools



Alsense Food Retail™  
UNIsystem™  
AK-EM800  
AK-Monitor/AK-MIMIC  
AKM

Danfoss CO<sub>2</sub> Controls and Accessories for Industrial, Commercial and Food Retail Applications

## Pack Controllers



AK-PC 782a Multi-suction Transcritical  
AK-PC 781 Transcritical Booster  
AK-PC 772 Basic Transcritical  
**AK-PC 572 Mini Pack**  
AK-PC 783 Cascade Pack Controller  
AK-XM 205 Extension Module

## Variable Speed Drives



FC 103  
FC 280

## Electronic Case Controllers



**AK-CC 55**  
AK-CC 450  
AK-CC 750

## Cascade HX Control

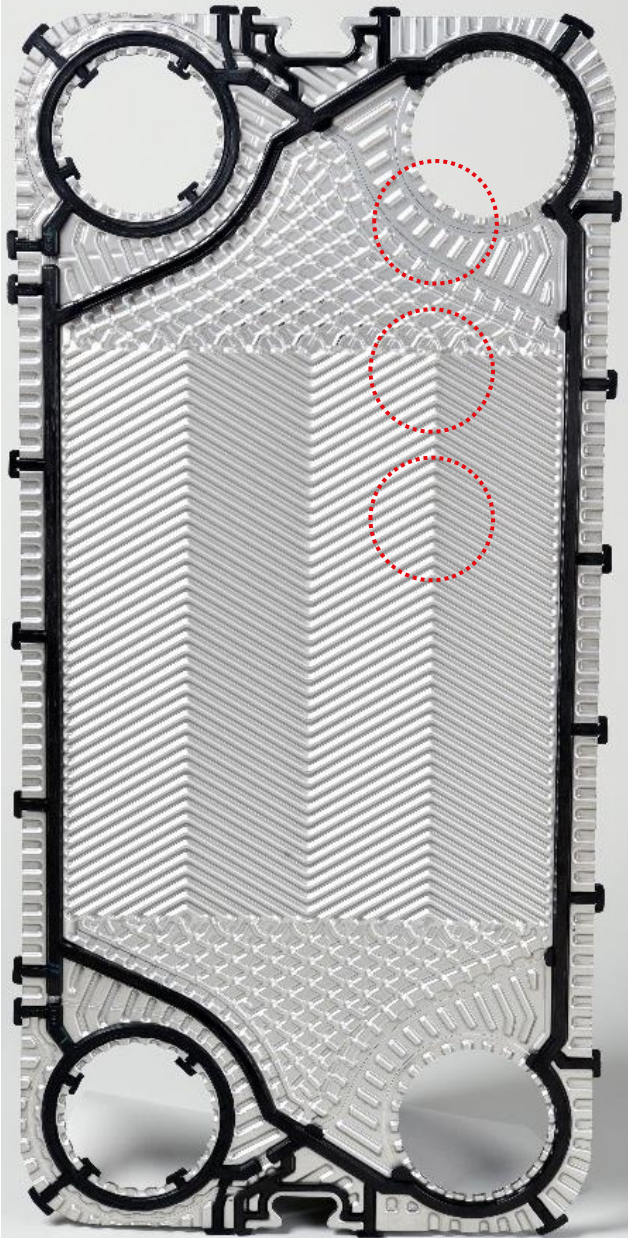


EKC 313

## High Pressure/GBP Control



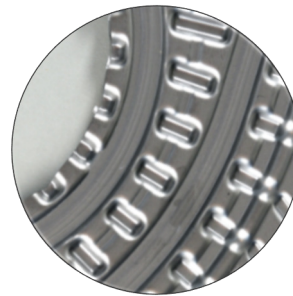
EKC 326A



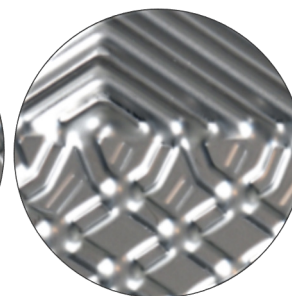
Semi-welded plate heat exchangers

## Plate design reinforced

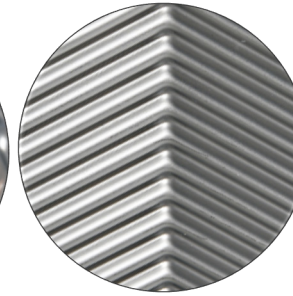
- Improved plate strength and stability due to optimized plate pattern across the plate (port inlet, distribution area, heat transfer area)
- Plate pattern reinforced for increased number of contact points and improved heat transfer coefficients



Port inlet



Distribution area



Heat transfer area

# Danfoss Application Handbook updated with much CO2 information

Application example 2.3.3: Hot gas bypass

