



www.felzer.su +7 (495) 204-30-01, 8(800) 775-42-13 E-mail: info@felzer.su 2016 \ 2017 Products

### **Foreword**

Felzer is one of the Scandinavian & BS leading providers of heating, ventilation, air conditioning and refrigeration solutions for industrial, commercial and residential applications. On our factories we create reliable and efficient climate equipment that improves human comfort, supports industrial processes and protects the environment.

Our wide range of liquid chillers includes innovative options. They allow to decrease installation costs and time as well as the lifecycle costs. Easy control and service, as well as comfort operation are in the focus. Our heat pump range includes the most advanced products for residential application and customized solutions for industrial solutions. IT product line is simple and reliable. In our new products we focus on inverter compressor and inverter pumps solutions, advanced freecooling solutions and critical climate application.

From current catalogue you can find the product line that suits your particular application. More in-depth technical data are available through our technical literature on the particular product lines. For individual consultancy and quotation please contact you local Felzer sales office.



### Aircooled Units

### **AirPLUS**

### Aircooled scroll chiller



Cooling capacity A35/W7\*: 160-1900 kW

Compressors: Scroll Refrigerant: R410a

Fans: Axial

**Condenser:** Microchannel **Evaporator:** BPHE

Basic version: EEV, RS485 Modbus, etc.

#### Key available options:

Inverter or On-Off pump and tank kits \\ EC Fans \\ Axitop-type diffusors \\ Coils e-coating \\ Touchscreen display \\ LON, BACnet \\ Heat

recovery \\ Soft start \\ etc.

### Freecooling options: fans control

**Dependent** - freecooling coils in parallel to condenser coils and use the same fans. Freecooling capacity depends on condensing pressure regulation.

**Inependent** - freecooling coils in separate module and use separate group of fans. Freecooling capacity is independent from condensing pressure regulation.

Mixed - freecooling coils are partly depenent and partly independent.

### Freecooling options: liquid control

**Direct (Glycol)** - glycol mixture from the system directed to the freecooling coils by 3 way valve.

**Glycol Free** - water in evaporator and glycol in the freecooling coils. Heat exchange is in BHPE heat exchanger. Freecooling coils are feeded by additional pump.

**Direct Pump** - additional pump for freecooling coils instead of 3 way valve. Allows to reduce pressure drop and electrical consumption in non freecooling mode.

#### Temperature \\ Liquid \\ Controls options

**Up to -35°C without freecooling** - condenser bypass option with EC fans and wind buffles \\ Or TRIAC fan speed control \\ Or EC fans.

Upto -8°C leaving liquid - special BRINE option. Icebank compatible.

**Hydromodule control** - Felzer hydromodules can be controlled from the unit.

#### Noise \\ Efficiency options

**Standard** - most efficient solution from Price/Noise/EER ratio point of view.

X low noise - plus 1 coil/fan in each circuit and reduced fan speed.

High Efficiency - plus 1 coil/fan in each circuit and maximal fan speed.

### AirONE

### Aircooled scroll chiller



Cooling capacity A35/W7: 50-170 kW

**Compressors:** Scroll **Refrigerant:** R410a

Fans: Axial

Condenser: Microchannel

**Evaporator:** BPHE

### Key available options:

Freecooling \\ Inverter or On-Off pump and tank kits \\ EC Fans \\ Axitop-type diffusors \\ Coils e-coating \\ Touchscreen display \\ EEV \\ Low noise \\ Heat recovery \\ Up to  $-35^{\circ}$ C without

freecooling etc.

# AirS Aircooled scroll chiller





Cooling capacity A35/W7: 27-42 kW

Compressors: Scroll Refrigerant: R410a Fans: Axial Condenser: CuAl

**Condenser:** CuAl **Evaporator:** BPHE

### Key available options:

Pump kits \\ EC Fans \\ EEV \\ etc.

### AirPLUS iNVi

### Aircooled inverter scroll chiller



Cooling capacity A35/W7: 160-560 kW

Compressors: Scroll Inverter

Refrigerant: R410a

Fans: Axial

Condenser: Microchannel

**Evaporator: BPHE** 

Basic version: EEV, RS485 Modbus, etc.

#### Key available options:

Inverter or On-Off pump and tank kits \\ EC Fans \\ Axitop-type diffusors \\ Coils e-coating \\ Touchscreen display \\ LON, BACnet \\ Heat

recovery \\ etc.

### Freecooling options: fans control

**Dependent** - freecooling coils in parallel to condenser coils and use the same fans. Freecooling capacity depends on condensing pressure regulation.

**Inependent** - freecooling coils in separate module and use separate group of fans. Freecooling capacity is independent from condensing pressure regulation.

Mixed - freecooling coils are partly depenent and partly independent.

#### Freecooling options: liquid control

**Direct (Glycol)** - glycol mixture from the system directed to the freecooling coils by 3 way valve.

**Glycol Free** - water in evaporator and glycol in the freecooling coils. Heat exchange is in BHPE heat exchanger. Freecooling coils are feeded by additional pump.

**Direct Pump** - additional pump for freecooling coils instead of 3way valve. Allows to reduce pressure drop and electrical consumption in non freecooling mode.

#### Temperature \\ Liquid \\ Controls options

**Up to -35°C without freecooling** - condenser bypass option with EC fans and wind buffles \\ Or TRIAC fan speed control \\ Or EC fans.

Upto -8°C leaving liquid - special BRINE option. Icebank compatible.

**Hydromodule control** - Felzer hydromodules can be controlled from the unit.

### Noise \\ Efficiency options

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High Efficiency - plus 1 coil/fan in each circuit and maximal fan speed.

### AirONE iNVi

### Aircooled inverter scroll chiller



Cooling capacity A35/W7: 50-170 kW

Compressors: Scroll Inverter

Refrigerant: R410a

Fans: Axial

Condenser: Microchannel

**Evaporator:** BPHE

### Key available options:

Freecooling \\ Inverter or On-Off pump and tank kits \\ EC Fans \\ Axitop-type diffusors \\ Coils e-coating \\ Touchscreen display \\ EEV \\ Low

noise \\ Heat recovery \\ etc.

# **AirS iNVi**Aircooled inverter scroll chiller





Cooling capacity A35/W7: 27-42 kW

Compressors: Scroll Inverter

Refrigerant: R410a Fans: Axial Condenser: CuAl Evaporator: BPHE

Key available options:

Pump kits \\ EC Fans \\ EEV \\ etc.

### ScrewDRIVER

### Aircooled screw flooded evaporator chiller



Cooling capacity A35/W7: 170-1800 kW

Compressors: Screw

Refrigerant: R134a (R1234ze on request)

Fans: Axial

**Condenser:** Microchannel **Evaporator:** Shell&Tube Flooded

Basic version: EEV, RS485 Modbus, etc.

#### Key available options:

Inverter or On-Off pump and tank kits \\ EC Fans \\ Axitop-type diffusors \\ Coils e-coating \\ Touchscreen display \\ LON, BACnet \\ Heat

recovery \\ Soft start \\ etc.

### Freecooling options: fans control

**Dependent** - freecooling coils in parallel to condenser coils and use the same fans. Freecooling capacity depends on condensing pressure regulation.

**Inependent** - freecooling coils in separate module and use separate group of fans. Freecooling capacity is independent from condensing pressure regulation.

Mixed - freecooling coils are partly depenent and partly independent.

### Freecooling options: liquid control

**Direct (Glycol)** - glycol mixture from the system directed to the freecooling coils by 3 way valve.

**Glycol Free** - water in evaporator and glycol in the freecooling coils. Heat exchange is in BHPE heat exchanger. Freecooling coils are feeded by additional pump.

**Direct Pump** - additional pump for freecooling coils instead of 3way valve. Allows to reduce pressure drop and electrical consumption in non freecooling mode.

#### Temperature \\ Liquid \\ Controls options

**Up to -35°C without freecooling** - condenser bypass option with EC fans and wind buffles \\ Or TRIAC fan speed control \\ Or EC fans.

Upto -8°C leaving liquid - special BRINE option. Icebank compatible.

**Hydromodule control** - Felzer hydromodules can be controlled from the unit.

#### Noise \\ Efficiency options

Standard - most efficient solution from Price/Noise/EER ratio point of view.

X low noise - plus 1 coil/fan in each circuit and reduced fan speed.

High Efficiency - plus 1 coil/fan in each circuit and maximal fan speed.

### ScrewDRIVER iNVi

Aircooled inverter screw flooded evaporator chiller



Cooling capacity A35/W7: 170-1800 kW

Compressors: Screw Inverter

Refrigerant: R134a (R1234ze on request)

Fans: Axial

Condenser: Microchannel Evaporator: Shell & Tube Flooded

Basic version: EEV, RS485 Modbus, etc.

#### Key available options:

Freecooling (all versions) \\ High efficiency and low nose \\ Inverter or On-Off pump and tank kits \\ EC Fans \\ Axitop-type diffusors \\ Coils e-coating \\ Touchscreen display \\ Heat recovery \\ Soft start \\ etc.

### **BalticSCREW AIR**

Aircooled screw DX evaporator chiller



Cooling capacity A35/W7: 170-1800 kW

Compressors: Screw

**Refrigerant:** R134a (R449A/XP40, R404a, R1234ze,

etc. on request)
Fans: Axial

**Condenser:** Microchannel **Evaporator:** DX Shell & Tube

Already included: EEV, RS485 Modbus

### Key available options:

Freecooling (all versions) \\ Upto -35°C without freecooling \\ High efficiency and low nose \\ Inverter or On-Off pump and tank kits \\ EC Fans \\ Axitop-type diffusors \\ Coils e-coating \\ Touchscreen display \\ Heat recovery \\ Soft start \\ etc.

### **AirDUCT**

### Ducted chiller



Cooling capacity A35/W7: 40-320 kW

Compressors: Scroll Refrigerant: R410a Fans: Centrifugal EC Condenser: CuAl Evaporator: BPHE

Basic version: RS485 Modbus, etc.

#### Key available options:

Freecooling \\ Inverter or On-Off pump and tank kits \\ EC Fans \\ Axitop-type diffusors \\ Coils e-coating \\ Touchscreen display \\ EEV \\ Low noise \\ Heat recovery \\ etc.

### **CUSTOM Chillers**

### to customer requested specification



Cooling capacity A35/CW7: 5-3000 kW

Cabinet and piping: Standard, Stainless steel, etc.

Compressors: Screw, Scroll, Reciprocating

(inverter available)

Refrigerants: HFC (R410A, R134a, R404a, R407C, etc.), HFO (R1234ze, R449A/XP40, etc.), Propane

(R290)

Fans: Axial, Centrifugal

Condenser: Microchannel, CuAl, Coated,

Adiabatic cooling, etc.

Evaporator: BPHE, Shell&Tube, Remote

#### Key applications:

Aggresive areas \\ Industrial \\ Refrigeration \\ High and low ambient \\ Special requirements \\

etc.

### Aircooled Split Chillers \\ Condensing Units

### AirPLUS SPLIT

Split (remote evaporator) liquid chiller \\ Condensing unit



Cooling capacity A35/W7: 50-1900 kW

#### **Outdoor unit**

Compressors: Scroll Refrigerant: R410a

Fans: Axial

**Condenser:** Microchannel **Basic version:** RS485 Modbus, etc.

Key available options:

High efficiency and low nose \\ EC Fans \\ Axitoptype diffusors \\ Coils e-coating \\ Touchscreen display \\ Heat recovery \\ Soft start \\ etc.

#### Indoor unit

Evaporator: BPHE Key available options:

Inverter or On-Off pump and tank kits  $\$  Variable

water flow \\ EEV \\ Low noise \\ etc.

### COOLAHU \\ COOLAHU iNVi

AHU condensing unit



Cooling capacity A35/E5: 10-200 kW

#### **COOLAHU**

Compressors: Scroll \\ Scroll Inverter Refrigerant: R410a (R407c, R134a on request)

Fans: Axial
Control: From AHU

#### **COOLAHU INVI**

Compressors: Inverter Scroll

Refrigerant: R410a (R407c, R134a on request)

Fans: Axial

Control: Integrated controller

### Watercooled \\ Remote Condenser Chillers

### WaterBIRD \\ WaterBIRD iNVi

Chiller water stations: watercooled and remote condenser



Cooling capacity CW35/W7\*: 30-750 kW

Compressors: Scroll \\ Scroll inverter optionally

Refrigerant: R410a

Condenser: BPHE \\ Remote

**Evaporator:** BPHE

Basic version: EEV, RS485 Modbus, Low noise

panels, hydronic station, etc.

#### Key available options:

Touchscreen display \\ LON, BACnet \\ Soft start \\ Heat recovery \\ Energymeter \\ COP control \\ Stainless steel water piping \\ etc.

#### Freecooling options

**Parallel inverter** - freecooling opeartes simultaneously to compressors. Condensing pressure is controlled by inverter pump. Drycooler fans are controlled from the unit.

**Parallel valve** - freecooling opeartes simultaneously to compressors. Condensing pressure is controlled by 3 way valve. Drycooler fans are controlled from the unit.

**Serial** - freecooling opeartes then comressors are stopped. Drycooler fans are controlled from the unit.

#### Tank & Pumps options

**Direct** - tank on the water inlet or outlet. High or low pressure On/Off or inverter system pump. Inverter system pump can be differential pressure regulated from 70 to 100%.

**VWF (varaible water f ow)** - hydronic separator tank and evaporator very low pressure pump. High or low pressure On/Off or inverter system pump. Inverter system pump can be differential pressure regulated from 0 to 100%.

**Customisation** - chilled beam 3 way valve \\ second system pump \\ etc

#### Ambient temperature options

Drycooler fans control from the unit.

Up to -35°C on watercooled chiller - 3 way bypass valve and condenser pump.

Up to -35°C on remote condenser chiller - condenser bypass and liquid receiver.

\* - CW35/W7 = Condenser leaving water temperature 35°C, User side leaving water temperature 7°C

### Watercooled \\ Remote Condenser Chillers

### WaterPLUS

### Watercooled or remote condenser scroll chillers



Cooling capacity CW35/W7: 160-1200 kW

Compressors: Scroll Refrigerant: R410a

Condenser: BPHE or remote

**Evaporator**: BPHE

Basic version: EEV, RS485 Modbus, etc.

#### Key available options:

Low noise \\Touchscreen display \\ LON, BACnet \\ Soft start \\ Heat recovery \\ Energymeter \\ COP control \\ Stainless steel water piping \\ etc.

### ScrewNORD \\ ScrewNORD iNVi

### Watercooled screw flooded evaporator chillers



Cooling capcity CW35/W7: 190-1700 kW

Compressors: Screw \\ Screw inverter optionally Refrigerant: R134a, (R1234ze on request)

Condenser: Shell & Tube or remote Evaporator: Shell & Tube Flooded

Basic version: EEV, RS485 Modbus, etc.

#### Key available options:

Low noise \\Touchscreen display \\ LON, BACnet \\ Soft start \\ Heat recovery \\ Energymeter \\ COP control \\ Stainless steel water piping \\ etc.

### **BalticSCREW WATER**

### Watercooled or remote condenser screw chillers



Cooling capacity CW35/W7: 200-2500 kW

Compressors: Screw

Refrigerant: R134a, (R1234ze on request) Condenser: Shell & Tube or remote Evaporator: DX Shell & Tube

Basic version: EEV, RS485 Modbus, etc.

#### Key available options:

Low noise \\Touchscreen display \\ LON, BACnet \\ Soft start \\ Heat recovery \\ Energymeter \\ COP control \\ Stainless steel water piping \\ etc.

iNVi - inverter screw available

### **CUSTOM Chillers**

to customer requested specification



Cooling capacity CW35/W7: 5-3000 kW

Cabinet and piping: Standard, Stainless steel, etc.

Compressors: Screw, Scroll, Reciprocating

(inverter available)

Refrigerants: HFC (R410A, R134a, R404a, R407C, etc.), HFO (R1234ze, R449A/XP40, etc.), Propane (R290)

Fans: Axial, Centrifugal

Condenser: BPHE, Shell&Tube, Remote Evaporator: BPHE, Shell&Tube, Remote

#### Key applications:

Aggresive areas \\ Industrial \\ Refrigeration \\
High and low ambient \\ Special requirements \\

### Drycoolers \\ Remote Condensers

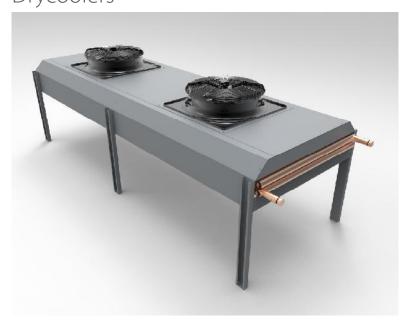
### nordGALE RC Microchannel remote condensers



Heat rejection capacity A35/C50\*: 50-940 kW

# Key available options: Low noise \\ EC fans \\ Axitop - type diffusers \\ Flooded condenser low temperature control \\ Adiabatic cooling \\ etc.

### nordGALE DC Drycoolers



Heat rejection capacity A35/CW45: 40-1000 kW

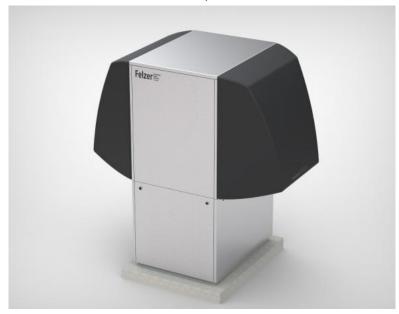
### Key available options: Low noise \\ EC fans \\ Axitop - type diffusers \\ Adiabatic cooling \\ etc.

<sup>\* -</sup> A35/C50 = Ambient air temperature 35°C, Condensing temperature 50°C

## Heat Pumps: Air To Water

### NordicLIGHT iNVi

Air to water low temperature inverter heatpump



Heating capacity A7/W35\*: 17 kW

Compressors: Inverter Scroll

Refrigerant: R410a

Fans: Axial

Condenser: BPHE Evaporator: CuAl

Up to -20°C in heat pump mode Up to -40°C in electrical heating mode

### AirONE HP Air to water heatpump





Heating capacity A7/W35: 25-170 kW

Hot water temperature standard: upto +55°C Hot water temperature HT: upto +65°C

Compressors: Scroll Refrigerant: R410a

Fans: Axial Condenser: BPHE Evaporator: CuAl

Basic version: RS485 Modbus, etc.

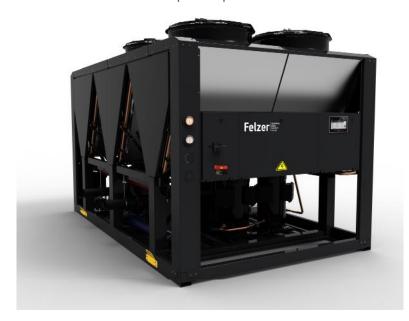
#### Key available options:

Inverter or On-Off pump and tank kits \\ EC Fans \\ Axitop-type diffusors \\ Touchscreen display \\ EEV \\ Low noise \\ Heat recovery \\ etc.

Heatpumps: Air to Water

### AirPLUS HP

Air to water heatpump



Heating capacity A7/W35: 170-1800 kW

Hot water temperature standard: upto +55°C Hot water temperature HT: upto +65°C

Compressors: Scroll Refrigerant: R410a Fans: Axial

Condenser: BPHE Evaporator: CuAl

Basic version: EEV, RS485 Modbus, etc.

#### Key available options:

Inverter or On-Off pump and tank kits \\ EC Fans \\ Axitop-type diffusors \\ Touchscreen display \\ EEV \\ Low noise \\ Heat recovery \\ Soft start \\ etc.

### **BalticSCREW HP**

Air to water heatpump



Heating capacity A7/W35: 170-1800 kW

Hot water temperature standard: upto +55°C Hot water temperature HT: upto +65°C

Compressors: Screw

Refrigerant: R134a (R449A/XP40, R404a, R1234ze,

etc. on request) Fans: Axial

Condenser: DX Shell & Tube

Evaporator: CuAl

Basic version: EEV, RS485 Modbus, etc.

#### Key available options:

Inverter or On-Off pump and tank kits \\ EC Fans \\ Axitop-type diffusors \\ Touchscreen display \\

EEV \\ Low noise \\ Heat recovery \\ etc.

## Heat Pumps: Liquid to Water

### WaterPLUS HP \\ WaterBIRD HP

Liquid to water heat pumps \\ Hot water stations



Heating capacity S7/W35\*: 30-1200 kW

Hot water temperature standard: upto +55°C Hot water temperature HT: upto +65°C

Compressors: Scroll Refrigerant: R410a Condenser: BPHE Evaporator: BPHE

Basic version: EEV, RS485 Modbus, etc.

#### Key available options:

Low noise \\Touchscreen display \\ LON, BACnet \\ Soft start \\ Heat recovery \\ Energymeter \\ COP control \\ Stainless steel water piping \\ etc.

#### Heatpump versions

HPG: Ground source - nonreversible unit. Source liquid from -5C. Heat water upto +55 - +65°C

HPR: Reversible on refrigerant side - the unit can work as a heat pump or as a chiller. The reversation in the refrigerant circuit. Liquid from the source side is separated from the user side water.

HPRW: Reversible on water side - the unit can work as a heat pump or as a chiller. The reversation in the water circuit. Liquid from the source side is mixed with the user side.

### Tank & Pumps options

Tank - tank on the cold or hot water side.

**Inverter or ON/OFF pumps** - high or low pressure On/Off or inverter system pump.

**Hydronic separator tank** - hydronic separator tank on the cold or hot water side and heat exchanger very low pressure pump. High or low pressure On/Off or inverter system/user pump. Inverter system pump can be differential pressure regulated from 0 to 100%.

Customisation - 3 way valves \\ Second pumps \\ etc.

<sup>\* -</sup> S7/W35 = Source side leaving water temperature 7°C, User side leaving water temperature 35°C

Heat pumps: Liquid to Water

### WaterPLUS HPR

Heat recovery heat pump (source 20-40°C to water upto 78°C)



Heating capacity S40/W78\*: 70-280 kW

Hot water temperature HT: upto +78°C

Compressors: Scroll 60 ton Refrigerant: R134a

Condenser: BPHE Evaporator: BPHE

Already included: EEV, RS485 Modbus

#### Key available options:

Low noise \\Touchscreen display \\ LON, BACnet \\ Soft start \\ Heat recovery \\ Energymeter \\ COP control \\ Stainless steel water piping \\ etc.

### **BalticSCREW WATER HP**

Watercooled screw heatpump



Heating capacity S7/W35: 190-2700 kW

Hot water temperature standard: upto  $+55^{\circ}$ C Hot water temperature HT: upto  $+65^{\circ}$ C Hot water temperature SHT: upto  $+78^{\circ}$ C

Compressors: Screw (inverter on request) Refrigerant: R134a, (R1234ze on request)

Condenser: DX Shell & Tube Evaporator: Shell & Tube

Already included: EEV, RS485 Modbus

#### Key available options:

Low noise \\Touchscreen display \\ LON, BACnet \\ Soft start \\ Heat recovery \\ Energymeter \\ COP control \\ Stainless steel water piping \\ etc.

# Efficiency Products

### **Icebank Units**



### Direct expansion stainless steel piping units: \\ Aircooled or Watercooled or Remote condenser integrated refrigeration circuit

\\ Stainless steel tanks \\ Stainless steel pipes evaporator

#### Direct expansion copper piping units

\\ Aircooled or Watercooled or Remote condenser integrated refrigeration circuit \\ Stainless steel tanks \\ Copper pipes evaporator

#### Chilled water tanks with ice accumulation

\\ Stainless steel tanks \\ PVC or stainless steel pipes liquid cooler \\ Compatible with Felzer glycol chillers

### **Smart Hydronic Modules**



#### What can be integrated?

Controls: Controller or controll from the chiller Pumps: On/Off, Inverter: evaporator \\ system \\ condenser \\ chilled beams \\ etc.

Tanks: Direct \\ Hydraulic separator \\ etc.

**Heat exchangers**: BPHE: freecooling \\ glycol/water \\ remote evaporator \\ etc.

3 way valves: condensing pressure control \\ freecooling \\ supply water temperature control \\ etc.

Cabinet: Frame \\ Panels \\ Low noise \\ Stainless steel \\ Stainless steel piping

**Electric box**: Power supply \\ control terminals \\ etc.

## Direct Expansion Units

### Air Handling Units With Integrated DX Refrigeration Circuit

Rooftops, Air dehumidifiers, Refrigeration AHU, IT adiabatic cooling



Rooftop DX air conditioners: 7-150 kW

Swimming pool dehumidif ers: upto 27000 m<sup>3</sup>/h

Heat pump modular air handling units (AHU):  $< 70000 \text{ m}^3/\text{h}$ 

Dirct cooling modular air handling units (AHU): < 70000 m<sup>3</sup>/h

IT adiabatic cooling AHU: 70-600 kW

### Railway Air Conditioning



Driver cabin rooftop air conditioners: upto 7kW

Coach rooftop air conditioners: upto 30kW

Coach split air conditioners: upto 20kW

Compressors: Scroll, Reciprocating

Ambient: Standard \\ High temperature

### **IT Products**

### Bytecool DX \\ DX iNVi

Direct expansion units



Cooling capacity A35/RA24\*: 5-105 kW

DXR: Remote condenser DXW: Water cooled

DXWFC: Water cooled with indirect freecooling CWDXR: Chilled water with DXR reservation CWDXR: Chilled water with DXW reservation

Air direction: Upflow or Downflow Compressors: Scroll (Scroll inverter in iNVi) Refrigerant: R410a (R407c, R134a on request)

Fans: Centrifugal EC Condenser: BPHE or Remote

Evaporator: CuAl

Key available options:

Direct freecooling \\ Humidifier \\ Water or

electrical heaters \\ etc.

### **Bytecool CW**

Chilled water units



Cooling capacity W7/RA24\*\*: 8-230 kW

CW: Chilled water

CWCW: Chilled water with CW reservation

Air direction: Upflow or Downflow

Fans: Centrifugal EC Cooler: CuAl

Key available options:

Direct freecooling \\ Humidifier \\ Water or

electrical heaters \\ etc.

<sup>\* -</sup> A35/RA24 = Ambient air temperature 35°C, Room air temperature 24°C and relative humidity 50%

<sup>\*\* -</sup> W7/RA24 = Source side entering water temperature 7°C, Room air temperature 24°C and relative humidity 50%

### Bytecool IR iNVi

Inrow units



Width 300mm: Remote condenser \\ Chilled

water

Width 400mm: Remote condenser \\
Watercooled \\ Chilled water

Width 600mm: Remote condenser \\
Watercooled \\ Chilled water

Compressors: Scroll inverter

Refrigerant: R410a Fans: Centrifugal EC

Key available options:

Indirect freecoling on watercooled \\ etc.

### Bytecool RC Remote condensers for Bytecool DX



Heat rejection capacity A35/C50: 7-140 kW

Air direction: Vertical or Horizontal

Refrigerant: R410a (R407c, R134a on request)

Fans: Axial

Condenser: CuAl (microchannel available)

Key available options:

Upto -35°C condensing pressure control  $\$  Fan

spped regulation \\ EC fans \\ etc.

# Heavy Industrial Equipment

### **Glycol Chillers**

Aircooled and watercooled



MT: upto -15°C leaving liquid temperature LT: upto -35°C leaving liquid temperature

Cooling capacity: upto 2500 kW

Compressors: Screw, Reciprocating, Scroll Refrigerant: HFC (R404a, R407C, R410A, R134a, etc.), HFO (R449A/XP40, R1234ze, etc.), Propane

(R290)

Condenser: Microchannel or CuAl Evaporator: DX Shell & Tube or BPHE Already included: EEV, RS485 Modbus

#### Key available options:

Inverter or On-Off pump and tank kits \\ EC Fans \\ Axitop-type diffusors \\ Coils e-coating \\ Touchscreen display \\ LON, BACnet \\ Heat

recovery \\ etc.

### **Hot Water Chillers**

Aircooled and watercooled



Upto +35°C evaporator water temperature Higher temperatures entering/leaving the unit (with water bypass and pumps system)

Cooling capacity: upto 2500 kW

Compressors: Screw, Reciprocating, Scroll Refrigerant: HFC (R410A, R134a, R407C, etc.), HFO

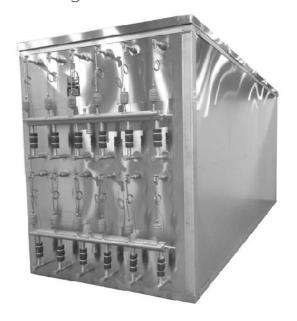
(R1234ze, R449A/XP40, etc.) Condenser: Microchannel or CuAl Evaporator: DX Shell & Tube or BPHE

#### Key available options:

Inverter or On-Off pump and tank kits \\ EC Fans \\ Axitop-type diffusors \\ Coils e-coating \\ Touchscreen display \\ LON, BACnet \\ Heat recovery \\ etc.

### Stainless Steel Welded Structures

Heat exchangers, tanks, etc.



Steels: Stainless 304, 316, etc.

**Applications**: tanks, evaporators, frames, freeze dryers, piping sets, etc.

### Compressor Racks

Custom made



Compressors: Reciprocating, Scroll, Screw

Refrigerants: HFC (R410A, R134a, R407C, etc.), HFO (R1234ze, R449A/XP40, etc.), CO2 (R744), Propane (R290)

Evaporation temperaturatures:

HT: +5°C MT: -8°C LT: -35°C XLT: -50°C This Page Intentionally Left Blank





www.felzer.su +7 (495) 204-30-01, 8(800) 775-42-13 E-mail: info@felzer.su

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