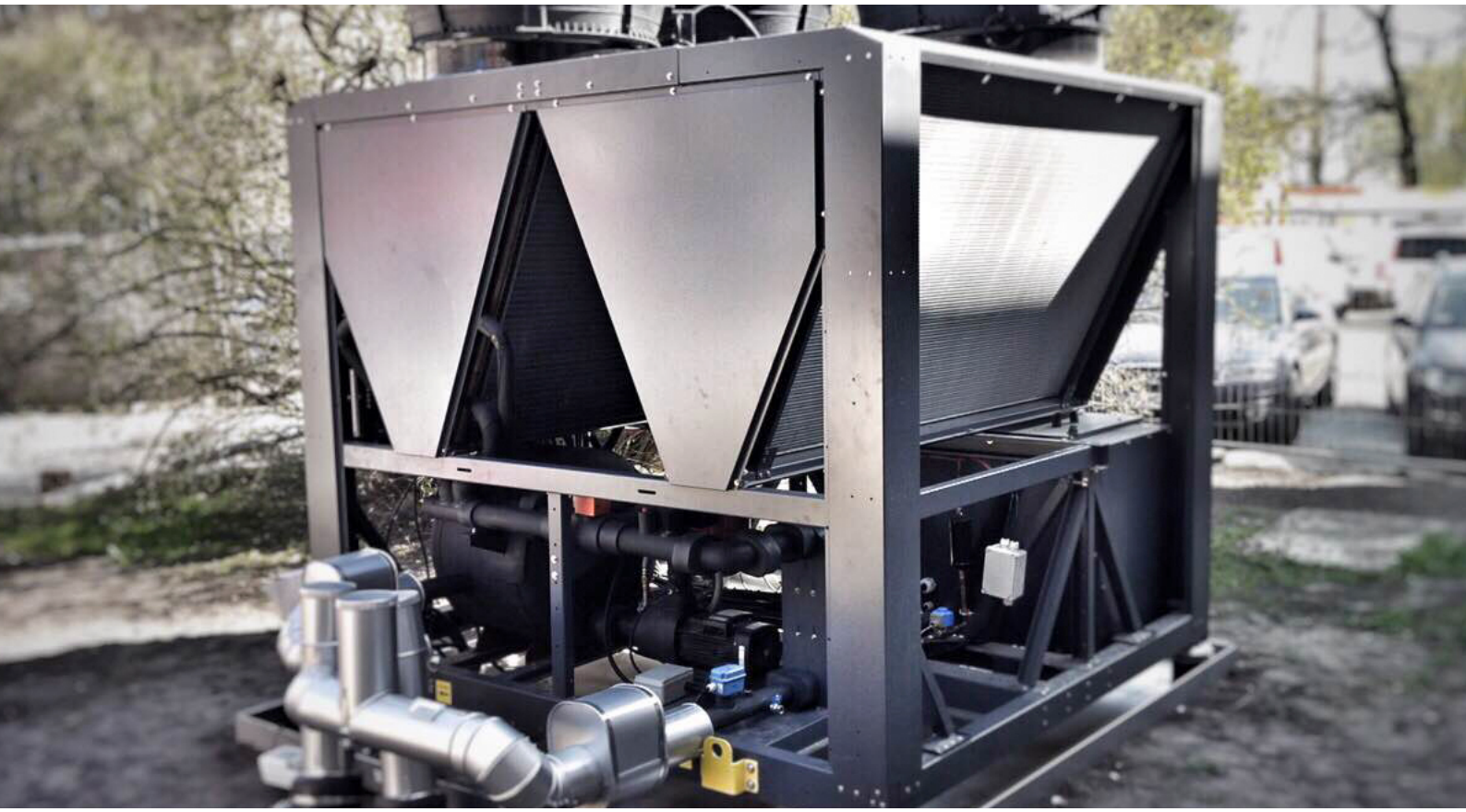
Felzer Spreading Baltic Comfort Since 1891



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 free cooling 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 your local Felzer sales office.

Air-cooled Units

AirPLUS

Air-cooled scroll chiller

Cooling capacity A35/W7*: 115-1265 kW

Compressors: Scroll
Refrigerant: R32, R454B , R410A
Fans: Axial
Condenser: Microchannel
Evaporator: BPHE

Basic version: EEV, RS485 Modbus, etc.

Key available options:
Split version \\ Inverter or On-Off pump and tank kits \\ EC Fans \\ AxiTop-type diffusors \\ Coils e-coating \\ Touch screen display \\ LON, BACnet \\ Heat recovery \\ Soft start \\ etc.

Free cooling options: fans control

Dependent - free cooling coils in parallel to condenser coils and use the same fans. Free cooling capacity depends on condensing pressure regulation.

Independent - free cooling coils in separate module and use separate group of fans. Free cooling capacity is independent from condensing pressure regulation.

Mixed - free cooling coils are partly dependent and partly independent.

Free cooling options: liquid control

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

Glycol Free - water in evaporator and glycol in the free cooling coils. Heat exchange is in BHPE heat exchanger. Free cooling coils are fed by additional pump.

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

Temperature \\ Liquid \\ Controls options

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

Up to -8°C leaving liquid - special BRINE option. Ice bank compatible.

Hydro module control - Felzer hydro modules 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.

* - A35/W7 = Ambient air temperature 35°C, User side leaving water temperature 7°C

AirONE

Air-cooled scroll chiller

Cooling capacity A35/W7: 46-164 kW

Compressors: Scroll
Refrigerant: R32, R454B, R410A
Fans: Axial
Condenser: Microchannel
Evaporator: BPHE

Key available options:
Split version \\ Free cooling \\ Inverter or On-Off pump and tank kits \\ EC Fans \\ AxiTop-type diffusors \\ Coils e-coating \\ Touch screen display \\ EEV \\ Low noise \\ Heat recovery \\ Up to -35°C without free cooling etc.

AirS

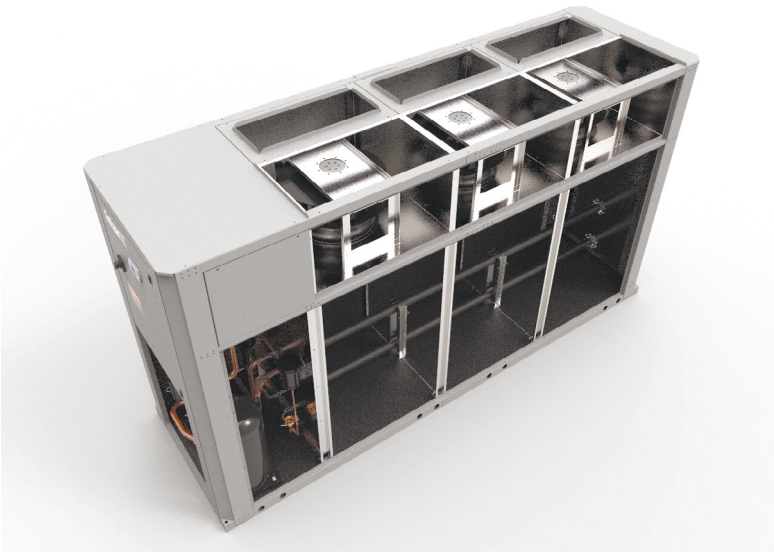
Air-cooled scroll chiller

Cooling capacity A35/W7: 20-39 kW

Compressors: Scroll
Refrigerant: R32, R454B, R410A
Fans: Axial
Condenser: Cu-Al
Evaporator: BPHE

Key available options:
Split version \\ Pump kits \\ EC Fans \\ EEV \\ etc.

AirDUCT
Ducted chiller



Cooling capacity A35/W7: -57-323 kW

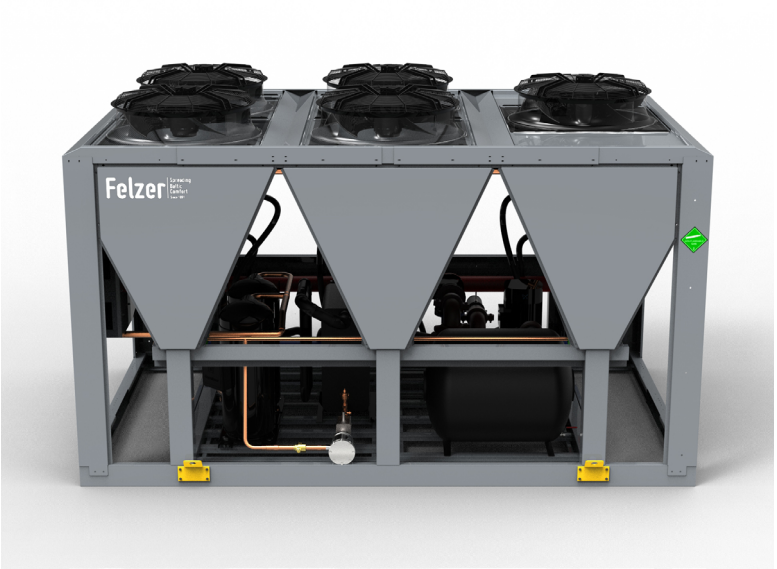
Compressors: Scroll
Refrigerant: R454B, R32 R410A Fans: Centrifugal
EC Condenser: Cu-Al Evaporator: BPHE

Basic version: RS485 Modbus, etc.

Key available options:
Free cooling \\ Inverter or On-Off pump and tank kits \\ Coils coating \\ Touch screen display \\ EEV \\ Low noise \\ Heat recovery \\ etc.

AirBLUE

Air-cooled inverter scroll chiller



Cooling capacity A35/W7: 33-425 kW

Compressors: Scroll Inverter
Refrigerant: R32, R454B, R410A
Fans: Axial
Condenser: Microchannel / Cu-Al

Evaporator: BPHE

Basic version: EEV, RS485 Modbus, etc.

Key available options:
Split version \\ Inverter or On-Off pump and tank kits \\ EC Fans \\ AxiTop-type diffusors \\ Coils e-coating \\ Touch screen display \\ LON, BACnet \\ Heat recovery \\ etc.

Free cooling options: fans control

Dependent – free cooling coils in parallel to condenser coils and use the same fans. Free cooling capacity depends on condensing pressure regulation.

Independent – free cooling coils in separate module and use separate group of fans. Free cooling capacity is independent from condensing pressure regulation.

Mixed – free cooling coils are partly dependent and partly independent.

Free cooling options: liquid control

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

Glycol Free - water in evaporator and glycol in the free cooling coils. Heat exchange is in BHPE heat exchanger. Free cooling coils are fed by additional pump.

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

Temperature \\ Liquid \\ Controls options

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

Up to -8°C leaving liquid - special BRINE option. Ice bank compatible.

Hydro module control - Felzer hydro modules 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

Air-cooled screw flooded evaporator chiller

Cooling capacity A35/W7: 170-1800 kW

Compressors: Screw
Refrigerant: R1234ze, R134a
Fans: Axial
Condenser: Microchannel
Evaporator: Shell & Tube Flooded

Basic version: EEV, RS485 Modbus, etc.

Key available options:
Split version \\ Inverter or On-Off pump and tank kits \\ EC Fans \\ AxiTop-type diffusors \\ Coils e-coating \\ Touch screen display \\ LON, BACnet \\ Heat recovery \\ Soft start \\ etc.

Free cooling options: fans control

Dependent – free cooling coils in parallel to condenser coils and use the same fans. Free cooling capacity depends on condensing pressure regulation.

Independent – free cooling coils in separate module and use separate group of fans. Free cooling capacity is independent from condensing pressure regulation.

Mixed – free cooling coils are partly dependent and partly independent.

Free cooling options: liquid control

Direct (Glycol) – glycol mixture from the system directed to the free cooling coils by 3-way valve.

Glycol Free - water in evaporator and glycol in the free cooling coils. Heat exchange is in BHPE heat exchanger. Free cooling coils are fed by additional pump.

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

Temperature \\ Liquid \\ Controls options

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

Up to -8°C leaving liquid - special BRINE option. Ice bank compatible.

Hydro module control - Felzer hydro modules 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

Air-cooled inverter screw flooded evaporator chiller

Cooling capacity A35/W7: 170-1800 kW

Compressors: Screw Inverter
Refrigerant: R1234ze, R134a
Fans: Axial
Condenser: Microchannel
Evaporator: Shell & Tube Flooded

Basic version: EEV, RS485 Modbus, etc.

Key available options:
Split version \\ Scroll inverter \\ Free cooling (all versions) \\ High efficiency and low nose \\ Inverter or On-Off pump and tank kits \\ EC Fans \\ AxiTop-type diffusors \\ Coils e-coating \\ Touch screen display \\ Heat recovery \\ etc.

BalticSCREW AIR

Air-cooled screw DX evaporator chiller

Cooling capacity A35/W7: 170-1800 kW

Compressors: Screw
Refrigerant: (R449A/XP40, R404a, R134a)
Fans: Axial
Condenser: Microchannel
Evaporator: DX Shell & Tube
Already included: EEV, RS485 Modbus

Key available options:
Split version \\ Scroll inverter \\ Free cooling (all versions) \\ Up to -35°C without free cooling \\ High efficiency and low nose \\ Inverter or On-Off pump and tank kits \\ EC Fans \\ AxiTop-type diffusors \\ Coils e-coating \\ Touch screen display \\ Heat recovery \\ Soft start \\ etc.

BalticSCREW AIR iNVi
Air-cooled screw DX evaporator chiller
Air-cooled screw DX evaporator chiller

Cooling capacity A35/W7: 170-1800 kW

Compressors: Screw
Refrigerant: (R449A/XP40, R404a, R1234ze, R134a)

Fans: Axial
Condenser: Microchannel
Evaporator: DX Shell & Tube

Basic version: EEV, RS485 Modbus

Key available options:
Split version\\ Free cooling (all versions) \\ Up to -35°C without free cooling \\ High efficiency and low nose \\ Inverter or On-Off pump and tank kits \\ EC Fans \\ AxiTop-type diffusors \\ Coils e-coating \\ Touch screen display \\ Heat recovery \\ Soft start \\ etc.

Free cooling options: fans control

Dependent – free cooling coils in parallel to condenser coils and use the same fans. Free cooling capacity depends on condensing pressure regulation.

Independent – free cooling coils in separate module and use separate group of fans. Free cooling capacity is independent from condensing pressure regulation.

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Free cooling options: liquid control

Direct (Glycol) – glycol mixture from the system directed to the free cooling coils by 3-way valve.

Glycol Free - water in evaporator and glycol in the free cooling coils. Heat exchange is in BHPE heat exchanger. Free cooling coils are fed by additional pump.

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

Temperature \\ Liquid \\ Controls options

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

Up to -8°C leaving liquid - special BRINE option. Ice bank compatible.

Hydro module control - Felzer hydro modules 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.

CUSTOM Chillers
to customer requested specification

Cooling capacity A35/CW7: 40-323 kW

Compressors: Scroll Refrigerants: R32, R454B, R410A
Fans: Centrifugal EC
Condenser: Cu-Al
Evaporator: BPHE

Basic version: RS485 Modbus, etc.

Key applications:
Free cooling \\ Inverter or On-Off pump and tank kits \\ Coils coating \\ Touch screen display \\ EEV \\ Low noise \\ Heat recovery \\ etc.

COOLAHU \\ COOLAHU iNVi
AHU condensing unit

Cooling capacity A35/E5: 10-200 kW

COOLAHU
Compressors: Scroll \\ Scroll Inverter
Refrigerant: R407C, R410A, R134a
Fans: Axial
Control: From AHU

COOLAHU iNVi
Compressors: Inverter Scroll
Refrigerant: R407C, R410A, R134a
Fans: Axial
Control: Integrated controller

Water-cooled units \\ Remote Condenser Chillers

WaterBIRD \\ WaterBIRD iNVi

Chiller water stations: water-cooled and remote condenser

Cooling capacity CW35/W7*: 30-750 kW

Compressors: Scroll \\ Scroll inverter optionally
Refrigerant: R513a, R410A
Condenser: BPHE \\ Remote
Evaporator: BPHE

Basic version: EEV, RS485 Modbus, Low noise panels, hydronic station, etc.

Key available options:
Touch screen display \\ LON, BACnet \\ Soft start \\ Heat recovery \\ Energy meter \\ COP control \\ Stainless steel water piping \\ etc.

Free cooling options

Parallel inverter – free cooling operates simultaneously to compressors. Condensing pressure is controlled by inverter pump. Dry cooler fans are controlled from the unit.

Parallel valve – free cooling operates simultaneously to compressors. Condensing pressure is controlled by 3-way valve. Dry cooler fans are controlled from the unit.

Serial – free cooling operates then compressors are stopped. Dry cooler 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 (variable water flow) - 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%.

Customization - chilled beam 3-way valve \\ second system pump \\ etc.

Ambient temperature options

Dry cooler fans control from the unit.

Up to -35°C on water-cooled 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

WaterPLUS / WaterPLUS RC

Water-cooled or remote condenser scroll chillers

Cooling capacity CW35/W7: 160-1200 kW

Compressors: Scroll
Refrigerant: R513a, R410A
Condenser: BPHE or remote
Evaporator: BPHE

Basic version: EEV, RS485 Modbus, etc.

Key available options:
Low noise \\ Touch screen display \\ LON, BACnet \\ Soft start \\ Heat recovery \\ Energy meter \\ COP control \\ Stainless steel water piping \\ etc.

ScrewNORD \\ ScrewNORD iNVi

Water-cooled screw flooded evaporator chillers

Cooling capacity CW35/W7: 190-1700 kW

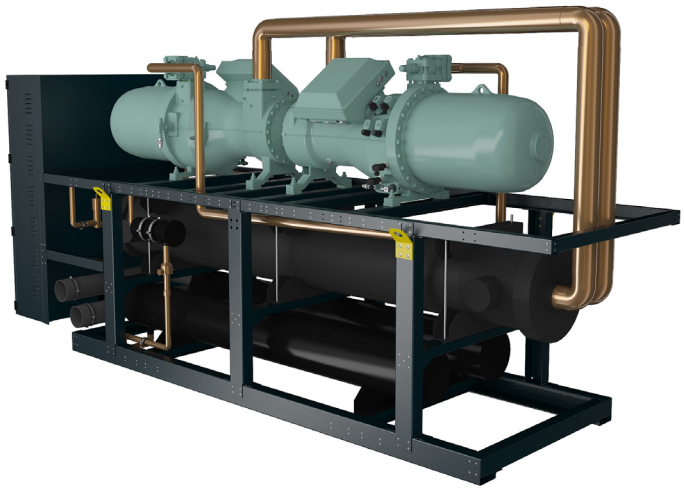
Compressors: Screw \\ Screw inverter optionally
Refrigerant: R1234ze, R513a, R134a
Condenser: Shell & Tube
Evaporator: Shell & Tube Flooded

Basic version: EEV, RS485 Modbus, etc.

Key available options:
Low noise \\ Touch screen display \\ LON, BACnet \\ Soft start \\ Heat recovery \\ Energy meter \\ COP control \\ etc.

BalticSCREW WATER

Water-cooled or remote condenser screw chillers



Cooling capacity CW35/W7: 200-2500 kW

Compressors: Screw
Refrigerant: R1234ze, R513a, R134a
Condenser: Shell & Tube or remote
Evaporator: DX Shell & Tube

Basic version: EEV, RS485 Modbus, etc.

Key available options:
Low noise \\ Touch screen display \\ LON, BACnet \\ Soft start \\ Heat recovery \\ Energy meter \\ COP control \\ etc.

iNVi - inverter screw available
RC - reciprocating compressor 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 (R404a, R407C, R410A, R134a etc.), HFO (R1234ze, R449A/XP40, etc.), Propane (R290)
Condenser: BPHE, Shell&Tube, Remote
Evaporator: BPHE, Shell&Tube, Remote

Key applications:
Aggressive areas \\ Industrial \\ Refrigeration \\ High and low ambient \\ Special requirements \\ etc.

NordGALE DC
Dry coolers

Heat rejection capacity A35/CW45: 40-1000 kW
Heat exchanger shape: flat, V-shaped
Heat exchanger type: microchannel, Cu-Al

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

* - A35/C50 = Ambient air temperature 35°C, Condensing temperature 50°C

NordGALE RC
Remote condensers

Heat rejection capacity A35/C50*: 50-940 kW
Heat exchanger shape: flat, V-shaped
Heat exchanger type: microchannel, Cu-A

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

Heat Pumps: Air To Water

NordicLIGHT \\ NordicLIGHT iNVi \\ NordicLIGHT3 \\ NordicLIGHT EVI

Air to water low temperature heat pump

Heating capacity A7/W35*: 23-408 kW

Compressors: Scroll \\ Inverter Scroll \\ Scroll EVI
Refrigerant: R454B, R32, R407C, R410A

Fans: Axial
Condenser: BPHE
Evaporator: Cu-Al

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

NordicGREEN

Air to water low temperature heat pump

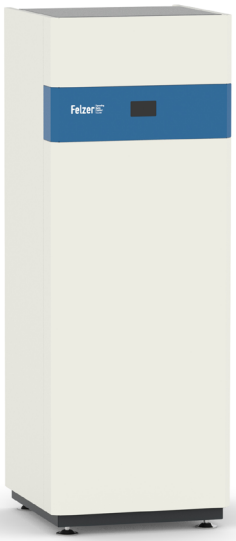
Heating capacity A2/W35*: 22-120 kW

Compressors: Scroll/reciprocating
Refrigerant: R290
Fans: Axial
Condenser: Microchannel
Evaporator: Cu-Al

Up to -20°C in heat pump mode

SiltaVIETA CARBO (CO_2)

Water to water heat pump



Heating capacity G7/3; W55*: 25-107 kW

Hot water temperature standard: up to +55°C
Hot water temperature HT: up to +75°C

Compressors: Scroll
Refrigerant: R744
Heat exchanger: BPHE

Basic version: RS485 Modbus, etc.

Key available options:
Inverter or On-Off pump and tank kits \\
\\ Touch screen display \\ EEV \\ Low noise \\
Heat recovery \\ etc.

* - G7/3; W55 = glycol temperature in/out +7/+3oC, User side leaving water temperature 75°C

SiltaVIETA \\ SiltaVIETA GREEN(propane)

Air to water heat pump

SiltaVIETA:
Heating capacity A7/W35: 10-40 kW
Hot water temperature standard: up to +55°C
Hot water temperature HT: up to +65°C

SiltaVIETA GREEN:
Heating capacity A2/W35: 2-14.5 kW
Cooling capacity A35/W18: 3-17 kW
Hot water temperature standard: up to +35°C
Hot water temperature HT: up to +55°C

Compressors: Scroll
Refrigerant: R290, R410A
Fans: Axial
Condenser: BPHE
Evaporator: BPHE

Basic version: RS485 Modbus, etc.

Key available options:
Connection set\\ Connection set\\ HP pipe\\ Impressed current anode\\ HA group HA 25-2\\ Separation system\\ Set of vibration decouples \\ etc.

AirONE HP

Air to water heat pump

Heating capacity A7/W35: 25-170 kW

Hot water temperature standard: up to +55°C
Hot water temperature HT: up to +65°C

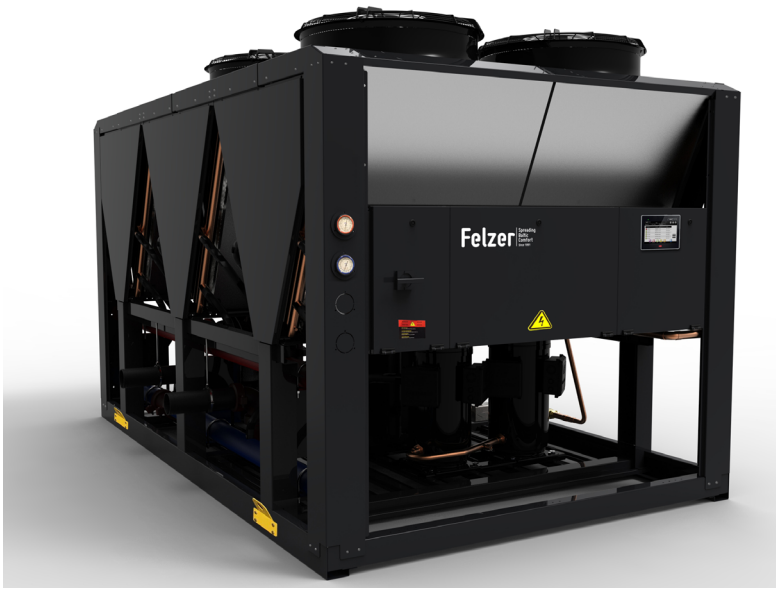
Compressors: Scroll
Refrigerant: R454B, R32, R410A
Fans: Axial
Condenser: BPHE
Evaporator: Cu-Al

Basic version: RS485 Modbus, etc.

Key available options:
Inverter or On-Off pump and tank kits \\ EC Fans \\ AxiTop-type diffusors \\ Touch screen display \\ EEV \\ Low noise \\ Heat recovery \\ etc.

AirPLUS HP

Air to water heat pump



Heating capacity A7/W35: 150-1645 kW

Hot water temperature standard: up to +55°C
Hot water temperature HT: up to +65°C

Compressors: Scroll
Refrigerant: R454B, R32, R410A
Fans: Axial
Condenser: BPHE
Evaporator: Cu-Al

Basic version: EEV, RS485 Modbus, etc.

Key available options:
Inverter or On-Off pump and tank kits \\ EC Fans \\ AxiTop-type diffusors \\ Touch screen display \\ Low noise \\ Heat recovery \\ Soft start \\ etc.

* - A7/W35 = Ambient air temperature 7°C, User side leaving water temperature 35°C

AirS

Air-cooled scroll chiller

Cooling capacity: A35/W7: 20-39 kW

Compressors: Scroll
Refrigerant: R454B, R32, R410A
Fans: Axial
Condenser: Cu-Al Evaporator: BPHE

Key available options:
Split version \\ Pump kits \\ EC Fans \\ EEV \\ etc.

BalticSCREW HP

Air to water heat pump

Heating capacity A7/W35: 260-3250 kW

Hot water temperature standard: up to +55°C
Hot water temperature HT: up to +65°C

Compressors: Screw
Refrigerant: (R449A/XP40, R404a, R1234ze, R134a)
Fans: Axial
Condenser: BPHE
Evaporator: Cu-Al

Basic version: EEV, RS485 Modbus, etc.

Key available options:
Inverter or On-Off pump and tank kits \\ EC Fans \\ AxiTop-type diffusors \\ Touch screen 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: up to +55°C
Hot water temperature HT: up to +65°C

Refrigerant: R454B, R32, R410A
Condenser: BPHE
Evaporator: BPHE

Basic version: EEV, RS485 Modbus, etc.

Key available options:
Low noise \\ Touch screen display \\ LON, BACnet \\ Soft start \\ Heat recovery \\ Energy meter \\ COP control \\ Stainless steel water piping \\ etc.

Heat pump versions

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

HPR: Reversible on refrigerant side - the unit can work as a heat pump or as a chiller. The reservation 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 reservation 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%.

Customization – 3-way valves \\ Second pumps \\ etc.

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

WaterPLUS HPR

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

Heating capacity S40/W78*: 70-280 kW

Hot water temperature: up to +78°C

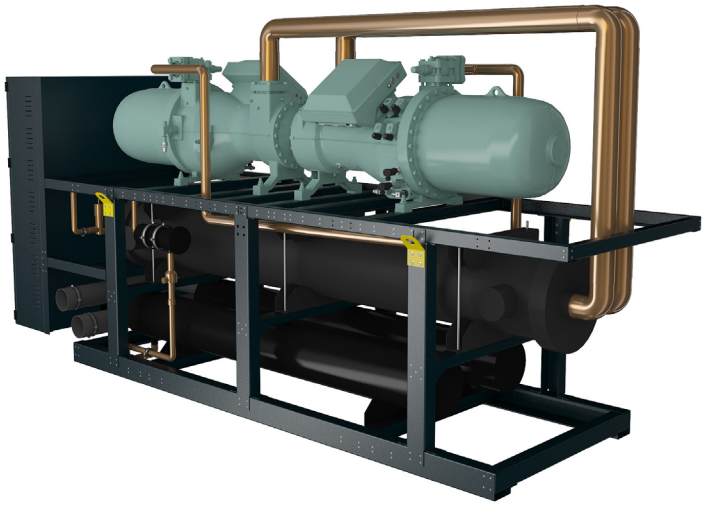
Compressors: Scroll
Refrigerant: R1234ze,R134a
Condenser: BPHE
Evaporator: BPHE

Already included: EEV, RS485 Modbus

Key available options:
Low noise \\ Touch screen display \\ LON, BACnet \\ Soft start \\ Heat recovery \\ Energy meter \\ COP control \\ Stainless steel water piping \\ etc.

BalticSCREW WATER HP

Water-cooled screw heat pump



Heating capacity S7/W35: 190-2700 kW

Hot water temperature standard: up to +55°C
Hot water temperature HT: up to +65°C
Hot water temperature SHT: up to +78°C

Compressors: Screw (inverter on request)
Refrigerant: R1234ze, R134a,
Condenser: DX Shell & Tube
Evaporator: Shell & Tube

Already included: EEV, RS485 Modbus

Key available options:
Low noise \\ Touch screen display \\ LON, BACnet \\ Soft start \\ Heat recovery \\ Energy meter \\ COP control \\ etc.

* - S40/W78 = Source side leaving water temperature 40°C, User side leaving water temperature 78°C

Efficiency Products

Ice-bank Units

Direct expansion stainless steel piping units:
\\ Air-cooled or Water-cooled or Remote condenser integrated refrigeration circuit
\\ Stainless steel tanks
\\ Stainless steel pipes evaporator

Direct expansion copper piping units
\\ Air-cooled or Water-cooled 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 control from the chiller

Pumps: On/Off, Inverter: evaporator \\ system \\ condenser \\ chilled beams \\ etc.

Tanks: Direct \\ Hydraulic separator \\ etc.

Heat exchangers: BPHE: free cooling \\ glycol/water \\ remote evaporator \\ etc.

3-way valves: condensing pressure control \\ free cooling \\ 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

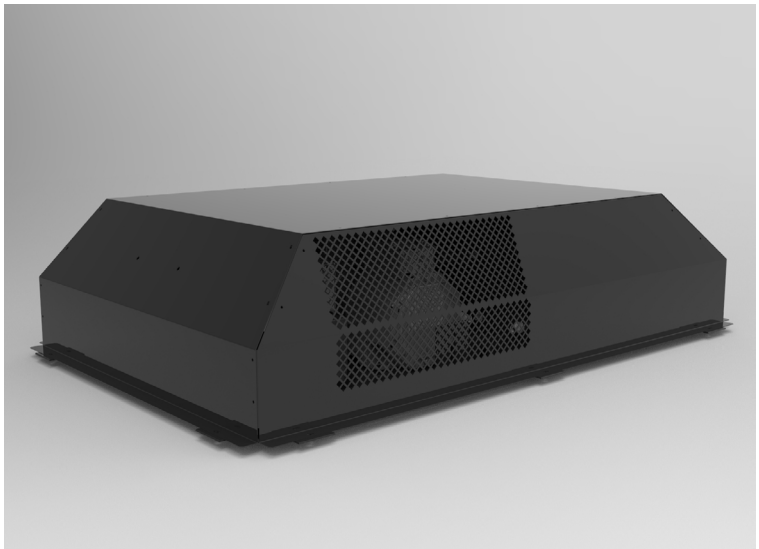
Swimming pool dehumidifiers: up to 27000 m^3/h

Heat pump modular air handling units (AHU):
< 70000 m^3/h

Direct cooling modular air handling units (AHU):
< 70000 m^3/h

IT adiabatic cooling AHU: 70-600 kW

Railway Air Conditioning



Driver cabin rooftop air conditioners: up to 7kW

Coach rooftop air conditioners: up to 30kW

Coach split air conditioners: up to 20kW

Compressors: Scroll, Reciprocating

Ambient: Standard \\ High temperature

PRODUCTS FOR IT & DATA CENTERS

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 free cooling
CWDXR: Chilled water with DXR reservation
CWDXR: Chilled water with DXW reservation

Air direction: Up-flow or Downflow
Compressors: Scroll (Scroll inverter in iNVi)
Refrigerant: R407C, R134a, R410A
Fans: Centrifugal EC
Condenser: BPHE or Remote
Evaporator: Cu-Al

Key available options:
Direct free cooling \\ 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: Up-flow or Downflow
Fans: Centrifugal EC
Cooler: Cu-Al

Key available options:
Direct free cooling \\ Humidifier \\ Water or electrical heaters \\ etc.

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

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

ByteCOOL IR iNVi

In-row units

Width 300mm: Remote condenser \\ Chilled water

Width 400mm: Remote condenser \\ Water-cooled \\ Chilled water

Width 600mm: Remote condenser \\ Water-cooled \\ Chilled water

Compressors: Scroll inverter
Refrigerant: R32, R454B, R410A
Fans: Centrifugal EC

Key available options:
Indirect free cooling on water-cooled \\ etc.

BN

Remote condensers for ByteCOOL DXR

Heat rejection capacity A35/C50: 6-103 kW

Air direction: Vertical or Horizontal
Refrigerant: R407C, R134a, R410A
Fans: Axial
Condenser: Cu-Al

Key available options:
Up to -35°C condensing pressure control \\ Fan speed regulation \\ EC fans \\ etc.

MC
Remote condensers for ByteCOOL DXR

Heat rejection capacity A35/C50: 23-190 Kw

Air direction: Vertical or Horizontal
Refrigerant: R407C, R410A
Fans: Axial
Condenser: microchannel

Key available options:
Up to -35°C condensing pressure control \\ Fan speed regulation \\ EC fans \\ etc.

Heavy Industrial Equipment

Glycol Chillers
Air-cooled and water-cooled

MT: up to -15°C leaving liquid temperature
LT: up to -35°C leaving liquid temperature

Cooling capacity: up to 2500 kW

Compressors: Screw, Reciprocating, Scroll
Refrigerant: HFC (R404a, R407C, R410A, R134a, etc.), HFO (R449A/XP40, R1234ze, etc.), Propane (R290)
Condenser: Microchannel or Cu-Al
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 \\ Touch screen display \\ LON, BACnet \\ Heat recovery \\ etc.

Hot Water Chillers

Air-cooled and water-cooled

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

Cooling capacity: up to 2500 kW

Compressors: Screw, Reciprocating, Scroll
Refrigerant: HFC (R407C, R410A, R134a, R407C, etc.), HFO (R1234ze, R449A/XP40, etc.)
Condenser: Microchannel or Cu-Al
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 \\ Touch screen 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.

NordELEMENT
Compressor Racks
Custom made

Compressors: Reciprocating, Scroll, Screw

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

Evaporation temperatures:
HT: +5°C
MT: -8°C
LT: -35°C
XLT: -50°C

MultiWAT / MultiWAT HP
Compressor Racks
Water-to-water Modular systems

Compressor: scroll On/off compressor / Inverter (option)

Refrigerants: R454B, R32, R410A
Cooling capacity: up to 13 956 kW
Heating capacity: up to 11 340 kW

Felzer Spreading Baltic Comfort Since 1891

Felzer SIA
Brivibas gatve, 201
Riga, Latvia, LV-1039
sales@felzer.lv
www.felzer.lv

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