

Products

Content

Content	1 page
Foreword	2 page
Air-cooled units	3 page
Water-cooled units \ Remote Condenser Chillers	11 page
Dry coolers \ Remote Condensers	14 page
Heat pumps: Air to Water	15 page
Heat pumps: Liquid to Water	20 page
Efficiency Products	23 page
Direct Expansion Units	24 page
Products for IT & Data Centers	25 page
Heavy Industrial Equipment	28 page



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.

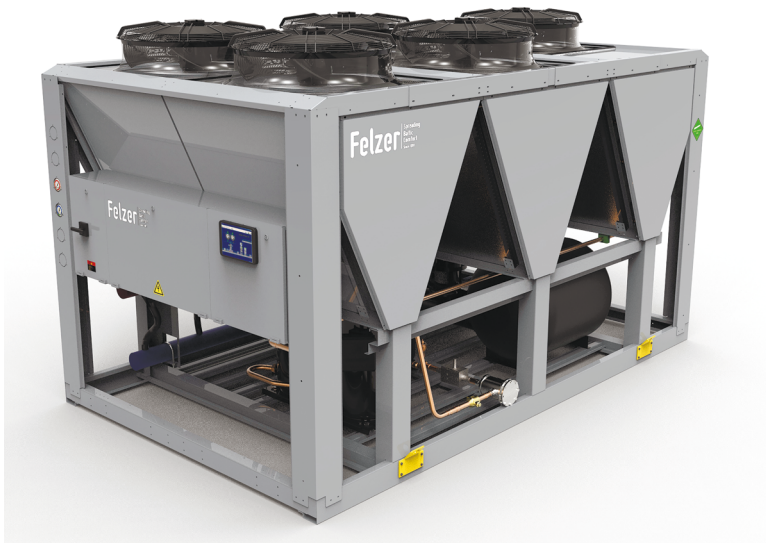
From current catalogue you can find the product line that suits your particular application. More in-depth technical data are available through our technical literature on the particular product lines. For individual consultancy and quotation please contact your local Felzer sales office.



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 diffusers \\ 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 baffles \\ 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 = Air temperature 35°C, outgoing 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 diffusers \ 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

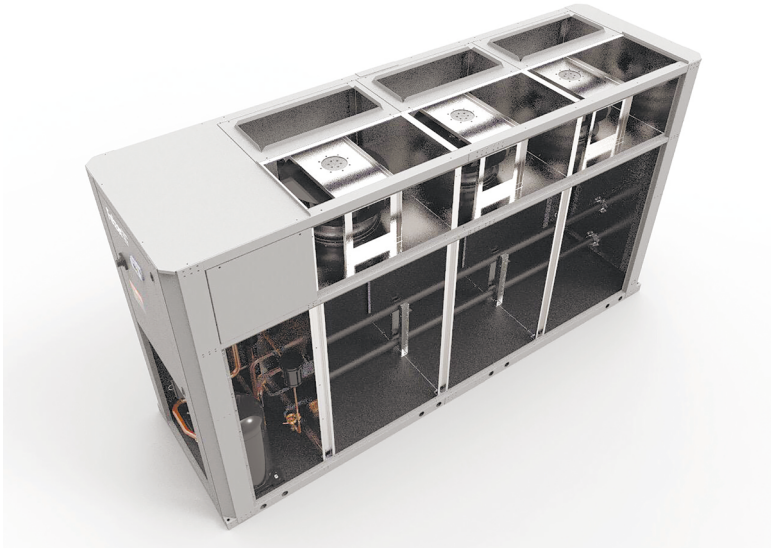
Compressors: Scroll
Refrigerant: R32, R454B, R410A
Fans: Axial
Condenser: Cu-Al
Evaporator: BPHE

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

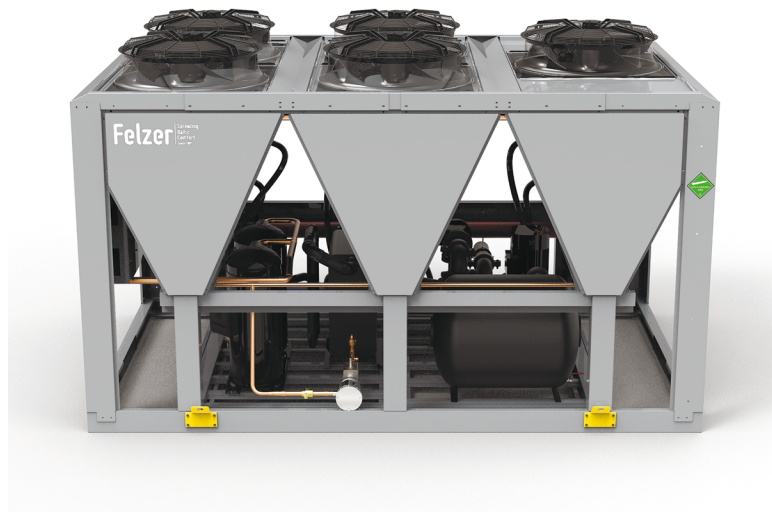
Basic version: RS485 Modbus, etc.

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 diffusers \ 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 baffles \ 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 = Air temperature 35°C, outgoing water temperature 7°C

ScrewDRIVER

Air-cooled screw flooded evaporator chiller



Cooling capacity A35/W7* : 170-1800 kW

Compressors: Screw

Refrigerant: R1234ze, R134a, R513A

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 baffles \ 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.

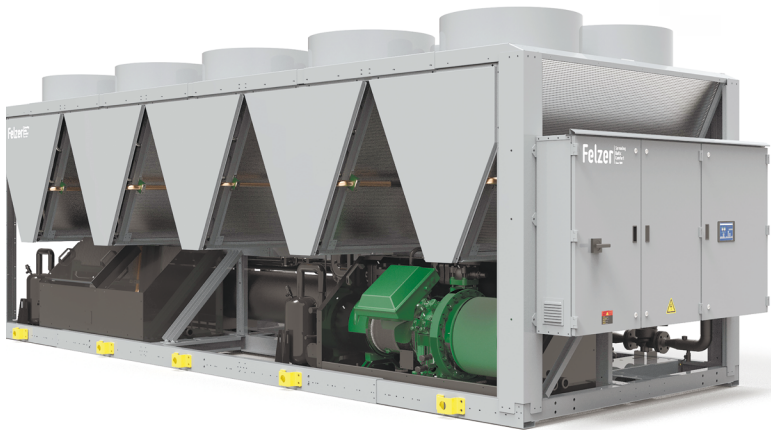
X low noise - plus 1 coil/fan in each circuit and reduced fan speed.

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

* A35/W7 = Air temperature 35°C, outgoing water temperature 7°C

ScrewDRIVER iNVi

Air-cooled inverter screw flooded evaporator chiller



Cooling capacity A35/W7: 170-1800 kW

Compressors: Screw Inverter

Refrigerant: R1234ze, R134a, R513A

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 diffusers \ 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, R1234ze

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 diffusers \ Coils e-coating \ Touch screen display \ Heat recovery \ Soft start \ etc.

BalticSCREW AIR iNVi

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 diffusers \ 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.

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 baffles \ 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 = Air temperature 35°C, outgoing water temperature

CUSTOM Chillers

to customer requested specification



Cooling capacity A35\CW7* : 40-323 kW

Compressors: Scroll \ Screw \ Reciprocating (inverter available)

Refrigerants: R32, R454B, R410A, R407

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

* A35/W7 = Air temperature 35°C, outgoing water temperature 7°C

** A35/E5 = Air temperature 35°C, evaporation temperature 5°C

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 = cooling water temperature 35°C (out), chilled water temperature 7°C (out)

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

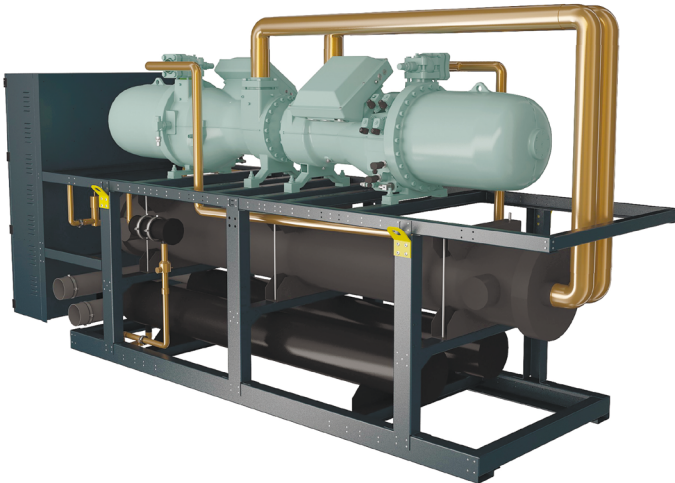
Basic version: EEV, RS485 Modbus, etc.

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.

Dry coolers \ Remote Condensers

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.

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.

* A35/CW45 = air temperature 35°C, chilled water temperature 45°C (enter);

** A35/C50 = air temperature 35°C, condensing temperature 50°C

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

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.

* A7/W35 = Air temperature 7°C, water temperature 35°C (out)

NordicGREEN

Air to water low temperature heat pump



Heating capacity A7/W35: 22-120 kW

Compressors: Scroll \ Reciprocating

Refrigerant: R290

Fans: Axial

Condenser: Microchannel

Evaporator: Cu-Al

Up to -20°C in heat pump mode

AirS HP

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.

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 diffusers \ Touch screen display \ EEV \ Low noise \ 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 diffusers \ Touch screen display \ Low noise \ Soft start \ etc.

SilticPLUS

Air to water heat pump



Heating capacity A7/W35: 70-584 kW

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

Compressors: Scroll
Refrigerant: R454B, R32
Fans: Axial
Condenser: BPHE
Evaporator: Cu-Al (V-shaped)

Basic version: EEV, RS485 Modbus, etc.

Key available options:

Inverter or On-Off pump and tank kits \ EC Fans \
AxiTop-type diffusers \ Touch screen display \ Low
noise \ Soft start \ etc.

SilticGREEN

Air to water heat pump



Heat capacity A7/ W35: 80 – 590 kW

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

Compressors: Reciprocating
Refrigerant: R290
Fans: Axial
Condenser: BPHE
Evaporator: Cu-Al (V-shaped)

Basic version: EEV, RS485 Modbus, etc.

Key available options:

Inverter or On-Off pump and tank kits \ EC Fans \
AxiTop- type diffusers \ Touch screen display \ EEV \
Low noise \ 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 diffusers \ Touch screen display \ EEV
\ Low noise \ etc.

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 \ 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.

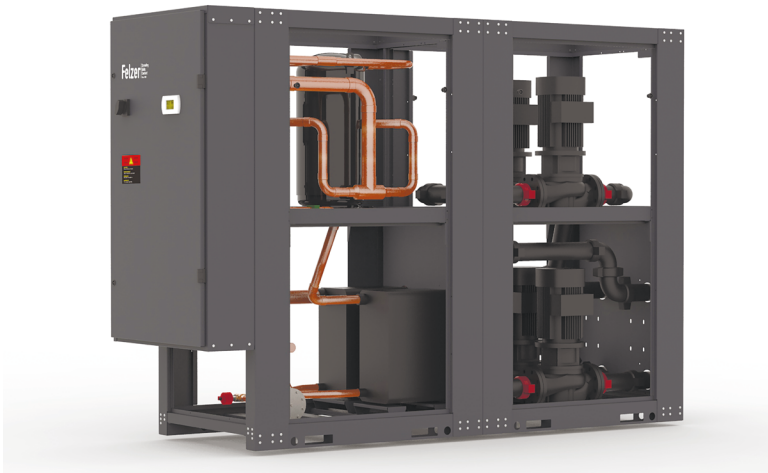
Hydronic separator tank - hydronic separator tank on the cold or hot water side and heat exchanger very low-pressure pump. High or low pressure On/Off or inverter system/user pump. Inverter system pump can be differential pressure regulated from 0 to 100%.

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

* S7/W35 = Source water temperature 7°C (out), heated water temperature 35°C (out)

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

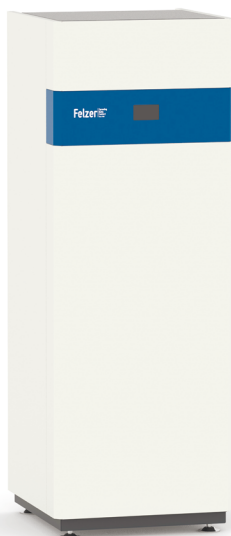
Already included: EEV, RS485 Modbus

Key available options:

Low noise \ Touch screen display \ LON, BACnet \
Soft start \ Energy meter \ COP control \ Stainless
steel water piping \ etc.

SiltaVIETA CARBO (CO₂)

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:

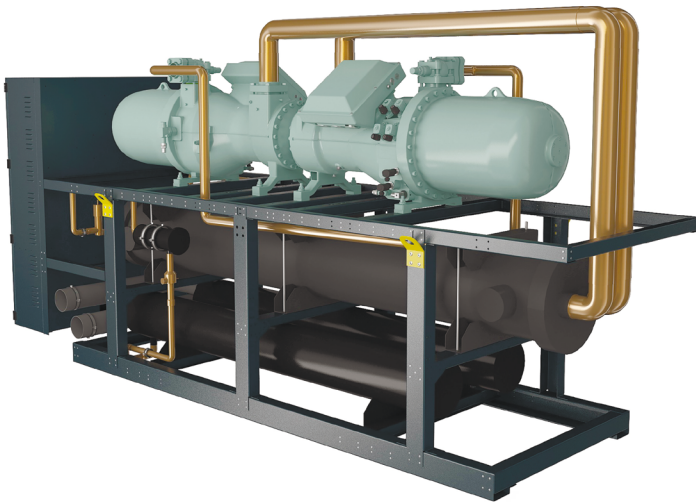
Inverter or On-Off pump and tank kits \
\ Touch screen display \ EEV \ Low noise \ etc.

* S40/W78 = Source water temperature 40°C (out), heating water temperature 78°C (out);

** G7/3; W55 = Source liquid temperature 7/3°C (in/out), heating water temperature 55°C (out)

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 \ Energy meter \ COP control \ etc.

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.

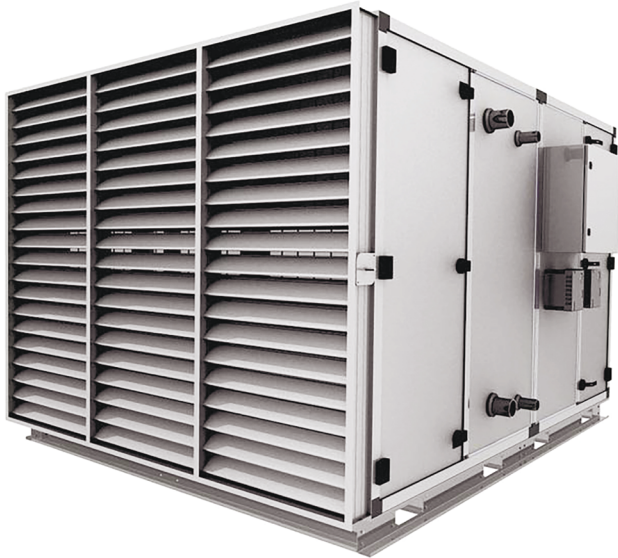
Cabinet: Frame \\ Panels \\ Low noise \\ Stainless steel \\ Stainless steel piping

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

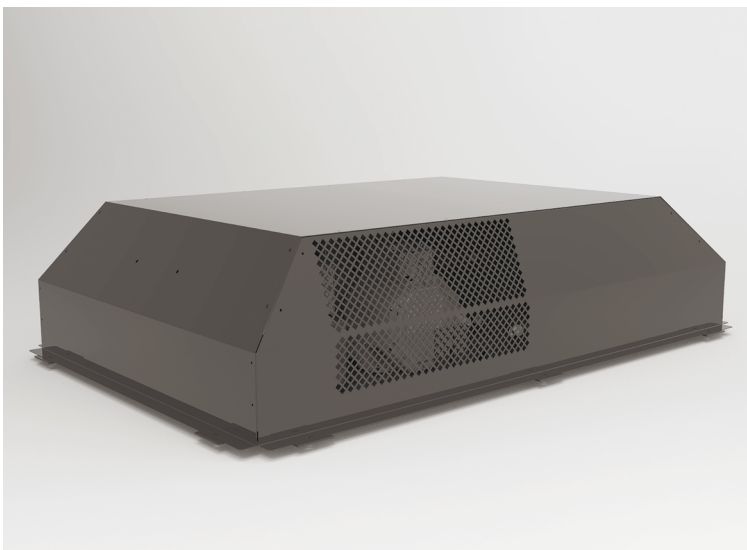
Swimming pool dehumidifiers: up to 27000 m³/h

Heat pump modular air handling units (AHU):
< 70000 m³/h

Direct cooling modular air handling units (AHU):
< 70000 m³/h

IT adiabatic cooling AHU: 70-600 kW

Railway Air Conditioning



Driver cabin rooftop air conditioners: up to 7 kW

Coach rooftop air conditioners: up to 30 kW

Coach split air conditioners: up to 20 kW

Compressors: Scroll, Reciprocating

Ambient: Standard \ High temperature

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

CWDWR: 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 300 mm: Remote condenser \\ Chilled water

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

Width 600 mm: 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.

* A35/C50 = Air temperature 35°C, condensing temperature 50°C

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



Compressors: Reciprocating \ Scroll \ Screw

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

Evaporation temperatures:

HT: +5°C

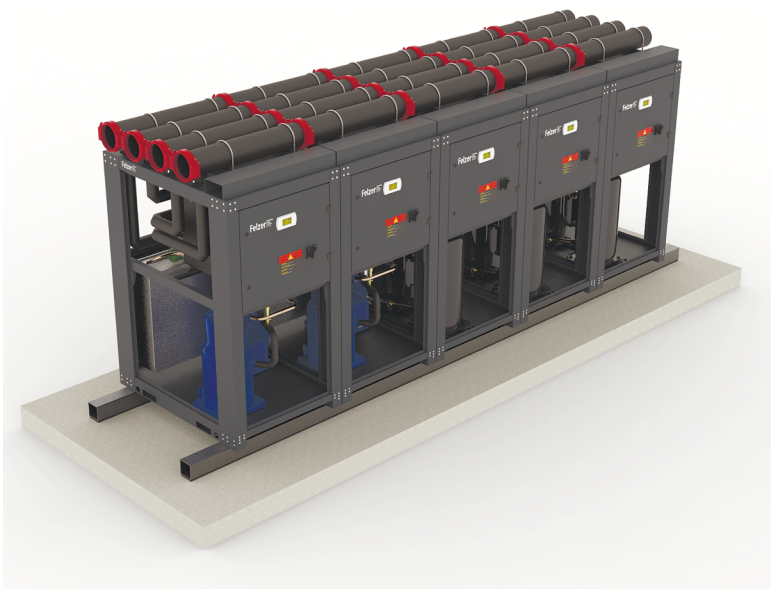
MT: -8°C

LT: -35°C

XLT: -50°C

MultiWAT / MultiWAT HP

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 SIA
Brivibas gatve, 201
Riga, Latvia, LV-1039
tel: +371 230 05 545
sales@felzer.lv
www.felzer.lv

Felzer is continuously improving its products. We therefore reserve the right to change the design and specifications without prior notification.

Rights reserved. Felzer and the Felzer logo are registered trademarks of Felzer SIA. All trademarks to which reference is made herein are the property of their owners.

© Felzer SIA