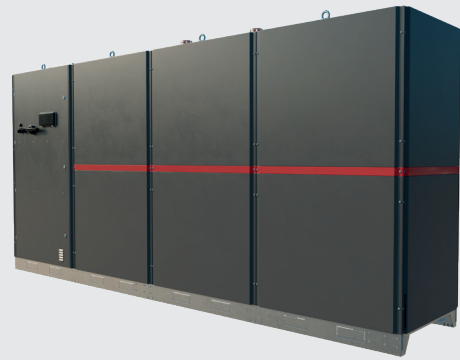


NovaHeat32

MORE RESPONSIBLE HEATING



An energy-efficient heat pump meeting Eco Design requirements.

Next-Generation Indoor R32 Heat Pump
Reliable Safety Concept
Energy-Efficient Four-Stage Power Control



Environmentally Friendly

The NovaHeat32 heat pump offers a more eco-friendly way of providing heating for properties and recovering energy from industrial processes. The GWP (Global Warming Potential) of the utilised R32 refrigerant is one-third compared to the traditional R410a.

Safety Concept

The frame of the NovaHeat32 heat pump is designed for the R32 refrigerant. The air tight casing guarantees the containment of the refrigerant even in the unlikely event of malfunction. The device's automation protocol and exhaust fan, both included in the equipment upon delivery, ensure a secure and reliable operation. Safety Concept-compliant guidelines for designers can be downloaded from our Selection Program.

Energy-Efficient

The NovaHeat32 heat pump features four compressors, enabling an energy-efficient four-stage power control. At partial loads, only the compressors needed to generate the desired power level are operational, controlled by the device's automation protocol.

Life Cycle Service

We maintain our devices throughout their entire life span. An IoT-based remote service combines optimisation, documentation, and maintenance services into one simple and reliable service package.

Cost-Effective Installation

The NovaHeat32 heat pump enables quick installation and commissioning at the site. Contributing to the accelerated process are detailed documentation in the planning phase, as well as thorough system testing and operational verification conducted at the factory before delivery.

Features

Ground Source / Geothermal Heat Pump
Heat Recovery Pump

Standard Accessories

Refrigeration circuits: 4D model

(4 compressors, two refrigerant circuits)

Compressors: Scroll compressors, crankcase heating resistors, and thermal and overcurrent protections.

Heat exchangers: Plate heat exchangers made of stainless steel

Electronic expansion valves: Optimal control of the refrigerant circuit's superheating function enhances energy efficiency

External adjustment of settings: 0–10VDC signal

Flow switch

Kiotronic leak detection

ATEX classified exhaust fan included in the delivery

Additional Accessories

Evaporator Circuit's Standard Flow Pump

F1: Variable Frequency Drive (VFD) controlled pump <95 kPa.

P1: Constant Speed Pump <95 kPa

Condensation Circuit Pump

F3: Variable Frequency Drive (VFD) Controlled Pump <95 kPa

P3: Constant Speed Pump <95kPa

BF3: Variable Frequency Drive (VFD) Controlled Pump <130 kPa

BP3: Constant Speed Pump <130kPa

Automation

RTU Modbus RTU Connection

TCP Modbus TCP/IP Connection

BAC BACnet Connection

SN Service Next - Industrial Internet

EP Separate Remote Display

Group Controller Alternation

Electrics

CE1 Basic Equipment

CE2 Reactive power compensation

CE3 Soft Starters

CTL Electrical Energy Measurement (Coptronic Light)

Sound & Vibration

CR Soundproofing Hoods for Compressors

FS Cabinet Sound Insulation

SS Compressor Soundproofing Hood(s)

VI Lightweight Vibration Damping Kit (Rubber Mat)

VD Vibration Damping Kit (Vibration Dampers + Expansion Joints)

Pipe Connections

DIN DIN Flange Connections

Others

TCV Condensation Pressure Control Valve

YH/AH Customized Evaporators

YL/AL Customized Condensers

Performance Values

Xonekoko	28-4	32-4	36-4	44-4	48-4	56-4	64-4	72-4	80-4	90-4	100-4
Heating capacity kW, Ground source ⁽¹⁾	80,4	107,8	123,2	138,6	1623,8	185	207,1	233	258,9	299,1	339,3
Heating capacity kW, Heat recovery ⁽²⁾	128,6	171,3	195,2	219,1	256	291,5	326,9	367,8	408,6	469,8	530,9
Capacity steps	0/25/50/75/100	0/25/50/75/100	0/22/50/72/100	0/25/50/75/100	0/25/50/75/100	0/22/50/72/100	0/25/50/75/100	0/22/50/72/100	0/25/50/75/100	0/22/50/72/100	0/25/50/75/100
Operating power of compressors in selection conditions kW	26,7	34,3	39,2	44	52	57,7	63,4	71,4	79,3	93,2	107,1
Operatin compressors in selection conditions A	46,4	64,4	69,5	74,5	96,2	103,8	111,4	125,3	139,1	157,9	176,7
Input power kW	39,8	50	57,5	65,3	76	84,3	91,9	102,5	114,1	136,3	155
Fuse size A	80	100	100	125	160	160	160	200	200	250	315
Refrigerant circuits	2	2	2	2	2	2	2	2	2	2	2
Refrigerant charge kg (R32)	8	10	12	12	14	16	18	20	22	22	24
Frame (mm) *	2135-2660										

(1) Ground source -2/2°C. Heating 40/50°C

(2) Heat recovery -20/15°C. Heating 40/50°C

* Frame length L depends on the selected accessories

Dimensions

