



Some
performance
goes unheard.

X-change[®] Dynamic Eco
Heat pump



X-change® Dynamic Eco

Technology and Performance.

The X-change® Dynamic Eco air-to-water heat pump combines advanced heat pump technology with outstanding technical performance. Thanks to its efficient monobloc design, intelligent control system and high-quality components, the system delivers excellent efficiency, even under demanding conditions. The heat pump stands out for its low energy consumption, high reliability and exceptionally quiet operation, making it a sustainable and cost-effective solution for both new-build and renovation projects.

Design and Integration.

In addition to its technical qualities, the X-change® Dynamic Eco also excels in design. Its high-quality metal casing is robust, durable and aesthetically

designed, allowing the unit to integrate harmoniously into any modern residential environment. The sleek and timeless design perfectly complements contemporary architecture, while the low noise level ensures maximum comfort and peace around the home.

**“Manufactured in
Europe to high
quality standards.”**

European Quality and Sustainability.

The X-change® Dynamic Eco is developed using the natural and environmentally friendly refrigerant R290 (propane) and is manufactured in Europe according to the highest quality standards. Thanks to meticulous production processes, stringent quality controls and the use of durable materials, this heat pump guarantees

a long service life and reliable performance. As a result, the X-change® Dynamic Eco not only meets today's requirements for energy efficiency and sustainability but is also ready for the challenges of the future.

The key benefits of the system.



Easy installation:

Thanks to the ready-to-fit concept with integrated components, installation is quick, simple and reliable for both new-build and renovation projects.



Efficient:

An A+++ energy rating and a COP of up to 4.48 (A2/W35) ensure low energy consumption. In addition, the system is sustainable thanks to the use of R290 refrigerant.



Reliable:

For maximum safety, the condenser features a double-wall design, ensuring safe and reliable operation.



Quiet:

Low noise operation thanks to the large axial fan and whisper mode of 47.9 dB(A) at A7/W55.



Connectivity:

Thanks to the standard integrated LAN interface, the heat pump can be connected to the internet, enabling remote control and maintenance.



Attractive price:

With its excellent price-performance ratio, the X-change® Dynamic Eco makes modern heat pump technology affordable.



Powerful:

Available in 3 versions, delivering 3.5 to 14 kW of output even at low outdoor temperatures (A-7/W35).



Sleek design:

The high-quality metal casing not only provides a modern appearance but also ensures stability and durability.

Whisper-quiet:

Exceptionally quiet operation thanks to the large axial fan, featuring a whisper mode of only 47.9 dB(A) at A7/W55.



Stylish metal casing:

Robust, durable and designed for a modern appearance.



R290 (propane) is a natural refrigerant with a very low environmental impact and high energy efficiency. Thanks to its low GWP*, it is a sustainable and future-proof choice for modern heat pump systems.

*Global Warming Potential

Safety architecture:

Three independent safety layers ensure maximum safety between the refrigerant and the water system.

1. Double-wall heat exchanger with air buffer
2. 2.5 bar pressure relief valve
3. Air separator with refrigerant safety function

A complete system working together.

Together with the **Hydrobox Eco** and the **X-Buffer® Combi Pure**, the **X-change® Dynamic Eco** forms a fully integrated system for heating, cooling and domestic hot water production. Thanks to the perfect coordination between heat generation, control and thermal storage, the system ensures high efficiency, reliable operation and fast installation.



Hydrobox Eco

The intelligent control and hydraulic centre.

The Hydrobox Eco is the heart of the installation, combining advanced control technology with integrated hydraulic components in one compact unit. A high-efficiency PWM circulation pump, a 3-way diverter valve, electric backup heating of up to 9 kW, and the powerful X-Center control system are all integrated as standard.

The entire system can be easily managed via the 7-inch touchscreen, the mobile app, or the web portal. Thanks to its integrated IFM interface, the Hydrobox Eco also functions as a central Energy Management System (EMS), enabling energy sources and system components to work together intelligently.



Hydrobox Eco

Control and management unit

“For efficiency, comfort and unmatched performance.”

X-Buffer® Combi Pure

Compact thermal storage.

The X-Buffer® Combi Pure combines a 250-litre domestic hot water cylinder and a 60-litre buffer tank in one compact unit. This smart combination ensures excellent hot water comfort while supporting stable and efficient heat pump operation. The double-coil heat exchanger, featuring a large heat transfer surface area, ensures rapid hot water production, while the buffer tank reduces cycling and contributes to higher overall system efficiency.

The enamelled cylinder with a magnesium anode and high-quality insulation ensures a long service life and optimal performance for both heating and cooling applications.



X-Buffer® Combi Pure

Heating buffer tank

Key features:

- X-Center control system with 7-inch touchscreen
- Integrated PWM circulation pump and 3-way diverter valve
- Electric backup heating up to 9 kW
- IFM interface for intelligent energy management (EMS)
- Monitoring and control via app and web portal
- Suitable for heating, cooling and domestic hot water production

Key features:

- High domestic hot water comfort
- Double-coil heat exchanger
- 250-litre hot water cylinder + 60-litre buffer tank
- Suitable for heating and cooling
- Fully integrated system
- Space-saving solution

Hydrobox Eco

Technical specifications

Type and sales designation	Hydrobox Eco
Article number	11HP41001
Electrical specifications	
Voltage (U) – terminal block XT1	230 V ~ 1 N, 50 Hz
Voltage (U) for the instantaneous heater on heat generator module 1	400 V ~ 3 N, 50 Hz
Maximum electric heating element output	230 V ~ 1 N max. 3 kW 400 V ~ 3 N max. 9 kW
Cylinder charging pump	230 V ~ 1 N, max. 2 A
Heating circuit pumps and universal outputs (hydraulic module 1)	230 V ~ 1 N, max. 1 A
Digital inputs: with internal pull-up	12 V
Temperature sensor	NTC10k@25°C Beta 3435
S0 meter (interface module X7)	Type B – max. 15 V / 15 mA
Dimensions	
Height x width x depth	1040 x 421 x 284 mm
Height x width x depth (housing)	790 x 421 x 284 mm
Weight	36 kg
Technical data – cylinder charging circuit	
Minimum mass flow rate (DLH)	0.5 m³/h
Maximum mass flow rate	4.0 m³/h
Minimum operating temperature	15 °C
Maximum operating temperature	70 °C
Maximum operating pressure	3 bar

Type and sales designation	Hydrobox Eco
Article number	11HP41001
Circulation pump	
Type	Grundfos UPM4XL
Energy Efficiency Index (EEI)	≤ 0.21
Maximum pump head	9 m
Maximum power consumption	90 W
Protection rating	IPx4D
Electrical connection / phases / frequency	~230 V / 1 / 50 Hz
Diverter valve	
Type	3-way diverter valve with actuator
Actuator motor	HANKSCRAFT
Actuator type	3-point control
Maximum power consumption	6 W
Protection rating / protection class	IP65
Electrical connection / phases / frequency	~230 V / 1 / 50 Hz
Connections	
Heat pump connection	Female thread (IG) 1 1/4", self-sealing thread
Storage tank connection	Female thread (IG) 1 1/4", self-sealing thread
Non-return valve	Present (in the lower ball valve)
Instantaneous heater	
Maximum output	9 kW
STB cut-out temperature	70 °C

X-Buffer® Combi Pure

Technical specifications

Type and sales designation	X-Buffer® Combi Pure
Article number	11HP30001
Domestic hot water cylinder	
Nominal capacity	250 l
Maximum operating pressure	10 bar
Maximum operating temperature	95 °C
Heating buffer tank	
Nominal capacity	60 l
Maximum operating pressure	3 bar
Minimum operating temperature	10 °C
Maximum operating temperature	95 °C
General	
Maximum operating pressure of the smooth-tube heat exchanger	10 bar
Maximum operating temperature of the smooth-tube heat exchanger	95 °C
Heat exchanger surface area	4.27 m²
Heat exchanger volume	28 l
Insulation material	Rigid polyurethane (PU) foam
Insulation thickness	50 mm
Fire classification of insulation material	B2 (DIN 4102)
Standing heat loss¹	95 °C
Energy class	C

Type and sales designation	X-Buffer® Combi Pure
Article number	11HP30001
Type	
N _L number²	2
Dimensions with insulation	
Diameter	Ø 660 mm
Height	1730 mm
Tilt height	1850 mm

¹ Measurement at a temperature difference of 45 K in accordance with DIN EN 12897.

² According to DIN 4708 – flow temperature 60 °C, storage temperature 45 °C.

X-Center

Intelligent control. Maximum efficiency.

The Vasco X-Center is much more than a controller for your heat pump. It is the intelligent heart of the complete Vasco X-Optimised system, bringing together heating, active cooling, domestic hot water, ventilation and energy management in one central platform. All system components communicate continuously with each other, ensuring that every installation performs at its best and is perfectly matched to the needs of the home.

Thanks to this intelligent control, the heat pump always operates at maximum efficiency. The result is a comfortable indoor climate, maximum living comfort and the lowest possible energy consumption. The 7-inch touchscreen allows you to control the entire system easily and intuitively. The clear user interface makes configuring all functions straightforward for both the homeowner and the installer. Heating, active cooling, domestic hot water, multiple temperature zones, buffer tanks, energy-saving programmes, time schedules and holiday

mode can all be managed from one central controller. Current energy consumption and system status are also available at a glance, without requiring any technical expertise.

The X-Center comes standard with an Internet connection, ensuring that the entire installation is always accessible. Using the X-Center App or a web browser, users can adjust the temperature, change programmes, monitor energy consumption, receive notifications and control the installation from anywhere. This means home comfort is always at your fingertips.

The X-Center also provides significant added value for installers. Thanks to its comprehensive Remote Service functionality, the entire installation can be securely monitored and managed remotely after registration. System parameters can be viewed in real time, settings can be adjusted and faults can be analysed quickly without the need for an immediate site visit.

“The intelligent heart of your system.”



X-Center App:

Comprehensive control and configuration options for the entire connected system, including remote access.



X-Center

Integrated into the
Hydrobox Eco

Alarm notifications are automatically sent by email and, if required, emergency operation can even be activated remotely. This enables faster service interventions, reduces service costs and allows maintenance work to be prepared more efficiently. The result is fewer unnecessary site visits, a higher first-time fix rate, and faster service for the end user.

The X-Center also stands out as a fully featured Energy Management System (EMS). It not only provides intelligent control of the heat pump but also optimises the operation of other energy consumers throughout the home. In addition to heating, cooling and domestic hot water, the **Vasco Boost (H) ventilation system** can be fully integrated. By centrally managing all these technologies, the X-Center creates one intelligent energy system that optimally combines comfort, energy efficiency and indoor air quality.

Additionally, the system is fully prepared for the energy future. Features such as Smart Grid Ready, Power-to-Heat, electronic heat metering, Modbus communication, and the integration of additional Vasco products such as **Ascotherm®, Carisma Whisper, low-temperature radiators and underfloor heating** make it possible to further expand the system with multiple heating circuits, solar panels, home batteries,

and other smart energy applications. This allows the X-Center to evolve seamlessly alongside both the home and the changing energy landscape.

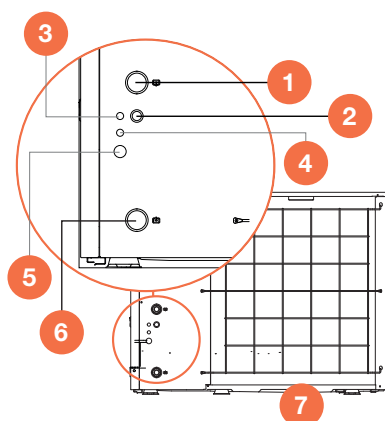
“The X-Center: one intelligent platform for heating, cooling, ventilation and energy management.”

Benefits for installers:

- Remote diagnostics and fault analysis
- Real-time monitoring of system parameters
- Adjust settings without an on-site visit
- Alarm notifications sent directly by email
- Faster service interventions
- Lower service costs
- Better maintenance preparation through advance diagnostics
- Ability to activate emergency operation remotely when required
- Fewer unnecessary site visits, faster support for the end user, and a higher first-time fix rate

X-change® Dynamic Eco

Technical specifications



1. Heat pump flow connection
2. Safety valve outlet
3. Control module communication cable
4. Control module power supply
5. Compressor (heat pump) power supply
6. Return connection to the heat pump
7. Condensate drain hose

Additional required accessories

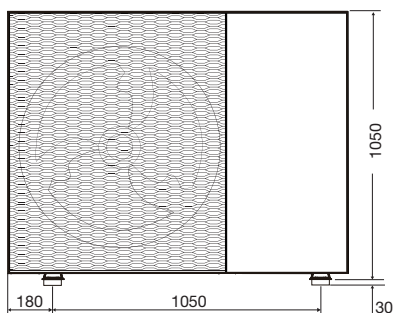
- Data and communication cable (to be provided by the installer)
- Indoor unit (Hydrobox Eco)



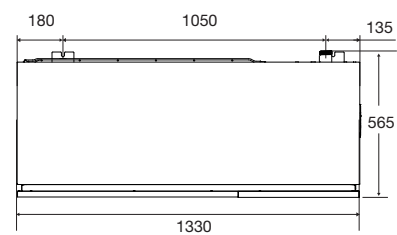
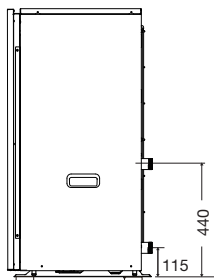
Type and sales designation		Dynamic Eco S	Dynamic Eco M	Dynamic Eco L
Article number		11HP20001	11HP20002	11HP20003
Output range at A7/W35	kW	3.50 - 8.50	3.50 - 11.00	5.40 - 14.50
Output range at A2/W35	kW	3.30 - 8.30	3.30 - 10.80	5.30 - 14.30
Output range at A-7/W35	kW	3.00 - 8.00	3.00 - 10.30	5.00 - 14.00
Output range at A-7/W55	kW	3.50 - 7.90	3.50 - 8.50	5.90 - 14.00
Performance data according to EN 14511 : A7/W35, 5K				
Nominal heating capacity	kW	3.80	3.80	3.80
Electrical power input	kW	0.69	0.69	1.00
Coefficient of performance (COP)		5.48	5.48	5.31
Performance data according to EN 14511 : A2/W35, 5K				
Nominal heating capacity	kW	3.24	5.47	7.34
Electrical power input	kW	0.72	1.23	1.71
Coefficient of performance (COP)		4.48	4.44	4.29
Performance data according to EN 14511 : A-7/W35, 5K				
Nominal heating capacity	kW	5.42	8.91	12.39
Electrical power input	kW	1.60	2.96	4.26
Coefficient of performance (COP)		3.39	3.01	2.91
Performance data at A-7/W55, 5K				
Nominal heating capacity	kW	5.99	5.99	9.19
Electrical power input	kW	3.00	3.00	4.25
Coefficient of performance (COP)		2.00	2.00	2.16
Performance data according to EN 14511: A35/W7 (cooling)				
Cooling capacity range	kW	2.30 - 4.50	2.30 - 4.50	4.00 - 9.00
Performance data according to EN 14511: A35/W18 (cooling)				
Cooling capacity range	kW	2.30 - 4.50	2.30 - 4.50	6.50 - 16.00
Performance data				
η _s , MT (η _s under average climate conditions)	%	158	155	151
η _s , NT (η _s under average climate conditions)	%	211	203	192
SCOP MT (average climate conditions)		4.01	3.94	3.87
SCOP NT (average climate conditions)		5.34	5.14	4.86
Energy source				
Temperature range	°C	-20 to +40	-20 to +40	-20 to +40
Defrost method		Reversal of the refrigeration cycle	Reversal of the refrigeration cycle	Reversal of the refrigeration cycle
Load circuit				
Minimum flow rate (defrosting)	m³/h	1.20	1.20	1.50
Maximum flow temperature	°C	70	70	70
Nominal flow rate at A-7/W35 and 7K	m³/h	1.20	1.20	1.60
Maximum operating pressure (integrated safety valve)	bar	2.50	2.50	2.50
Minimum operating pressure	bar	0.30	0.30	0.30
Heat meter		Electronically integrated	Electronically integrated	Electronically integrated
Characteristics				
Protection rating		IP14B	IP14B	IP14B
Sound power level according to EN 12102	dB(A)	47.90	47.90	50.10
Maximum sound power level in daytime operation	dB(A)	52.70	57.30	58.20
Height x width x depth	mm	1050 x 1330 x 565	1050 x 1330 x 565	1050 x 1330 x 565
Weight including casing	kg	159	159	177
Refrigeration circuit				
Refrigeration circuit Refrigerant type / charge	- / kg	R290 / 1.05	R290 / 1.05	R290 / 1.40
GWP / CO ₂ equivalent	- / kg	0.020 / 0.021	0.020 / 0.021	0.020 / 0.028

Type and sales designation	Dynamic Eco S	Dynamic Eco M	Dynamic Eco L
Article number	11HP20001	11HP20002	11HP20003
Energy efficiency class			
Heat pump 35 °C / 55 °C	A+++ / A+++	A+++ / A+++	A+++ / A+++
Heat pump incl. controller 35 °C / 55 °C	A+++ / A+++	A+++ / A+++	A+++ / A+++
Electrical connection data – heat pump			
Control module power supply	~1, 230 V, 50 Hz	~1, 230 V, 50 Hz	~1, 230 V, 50 Hz
Recommended protection for the control module	C10 A (Single-pole)	C10 A (Single-pole)	C10 A (Single-pole)
Recommended cable for the control module	3 x 1.5 mm ²	3 x 1.5 mm ²	3 x 1.5 mm ²
Compressor power supply	~3, 400 V, 50 Hz	~3, 400 V, 50 Hz	~3, 400 V, 50 Hz
Maximum rated compressor current	A 9.00	9.00	12.30
Compressor starting current	A 4.80	4.80	6.50
Maximum compressor power input	kW 5.10	5.10	8.00
Recommended protection for the compressor	C16 A (Three-pole)	C16 A (Three-pole)	C16 A (Three-pole)
Recommended compressor cable	5 x 2.5 mm ²	5 x 2.5 mm ²	5 x 2.5 mm ²
Recommended residual current device (RCD)	Type B	Type B	Type B

X-change® Dynamic Eco Dimensions



(Dimensions in mm)



External dimensions of the X-change® Dynamic Eco for outdoor installation (in mm). The condensate drain must be provided by the installer using a pipe with an internal diameter of 32 mm.

A heating cable with a length of 900 mm is integrated into the heat pump. However, it still needs to be activated/connected (see installation manual).

Prices

PRICE GROUP: VPG13 - VPG13B HEAT PUMPS

Type and sales designation	Article number	Price
X-change® Dynamic Eco		
Dynamic Eco S	11HP20001	€ 7.240
Dynamic Eco M	11HP20002	€ 7.740
Dynamic Eco L	11HP20003	€ 8.240
Hydrobox Eco		
Hydrobox Eco	11HP41001	€ 3.690
X-Buffer® Combi Pure		
X-Buffer® Combi Pure	11HP30001	€ 2.490

BELGIUM/THE NETHERLANDS 06/2026. Prices in euros (excluding VAT).

Vasco cannot be held responsible for any printing errors or changes to the product range. Terms and conditions of sale: vasco.eu.





Services

From commissioning and maintenance to fast service interventions, we ensure that your heat pump installation continues to perform at its best. With our professional service, you benefit from maximum comfort, a long service life for your installation and reliable, worry-free operation all year round.

“Always carried out by an authorised service partner.”



You can easily request commissioning, a one-time maintenance visit or a service intervention by scanning the QR code below.

3 service modules:

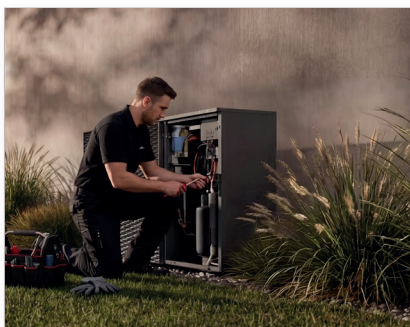


Commissioning

Your authorised Vasco Service Partner ensures professional commissioning and the correct adjustment of your installation. This guarantees efficient and reliable operation from day one.

- Inspection of all components and connections
- Configuration of the control system
- Comprehensive functional test of the system
- Clear user instructions and advice
- Commissioning report
- Commissioning of the domestic hot water (DHW) buffer tank (optional)
- Commissioning of the cooling function (optional)

€ 450 excl. VAT*



Maintenance

Regular maintenance keeps your installation in top condition and extends the service life of your system. This ensures your heat pump continues to operate efficiently, powerfully and reliably.

- Technical inspection of the complete installation
- Cleaning of the fan and heat exchanger
- Inspection of the refrigerant circuit and pressure levels
- Testing of heating and cooling performance
- Optimisation of the settings based on your usage pattern
- Service report
- Travel costs included

€ 560 excl. VAT



Service intervention

A malfunction or technical issue? Our service technician will be on site quickly to identify the cause and provide an appropriate solution.

- Fast diagnosis and repair
- On-site service intervention
- Inspection of the installation after repair
- Professional support and advice

Price on request

*For a cascade system, the commissioning fee applies per heat pump.



No hassle. Simply Vasco.

One partner. All climate solutions.



A comfortable and energy-efficient home is not achieved with a single product, but with **smart solutions that work seamlessly together**. That is why Vasco develops a complete system in which every solution integrates perfectly with the others. Discover our product categories and experience how they work together to deliver optimal comfort, a healthy indoor climate and maximum energy efficiency.



Ascotherm®

Floor convectors

Perfectly matched to heat pumps. Energy-efficient heating, cooling and ventilation in one solution. Thanks to their sleek design and quiet operation, the floor convectors blend seamlessly into any interior.



Carisma Whisper

Fan coil units

The quiet force behind optimal comfort. The ideal complement to heat pumps. Together, they provide energy-efficient heating and cooling for the home.



Underfloor heating

Invisible comfort. A noticeable difference. Vasco underfloor heating combines even heat distribution with maximum energy efficiency and works perfectly with a heat pump.



X-flair

Low-temperature radiator

The comfort of a radiator, optimised for low-temperature operation. Thanks to the efficient X2 technology, X-flair radiators are the ideal partner for heat pumps.

