TWINFUSION



Air flow up to

150 M³/h

Boost mode

Sound pressure level from

12 dBA

At a distance of 3 m.

Power

5 – 45 W

without a heater



TwinFusion is a premium ventilation system specially engineered for flawless operation in cold climate conditions. Featuring an insulated EPP casing, high-efficiency heat and energy recovery exchangers (ERV/HRV), and an integrated reheater, the air handling unit maintains an ideal indoor microclimate in residential and commercial premises regardless of the outdoor weather.



PREMIUM COMFORT.
HIGH EFFICIENCY.
WHISPER-QUIET COMFORT.



MAXIMUM POWER

A powerful airflow of up to 150 m³/h ensures a fresh atmosphere even in the liveliest company.

HIGH EFFICIENCY

High heat recovery efficiency of up to 98% is achieved through the use of an advanced counterflow polystyrene or enthalpy heat exchanger.



ALL-WEATHER

A thermally insulated casing without thermal bridges prevents wall freezing. Built-in electric heaters ensure warmth in freezing weather, while air dampers and a sealed manual deflector completely eliminate drafts.

SMART & CONVENIENT

Mobile app, cloud service, and voice assistants (Alexa / Google Home) – control is always at your fingertips.

ULTRA-QUIET COMFORT
A combination of multiple specialized soundproofing materials creates a robust barrier that effectively dampens street noise and the sound of powerful centrifugal motors. This multi-layer acoustic resistance system guarantees low noise levels even at high airflow rates.

ALL-ROUND FLEXIBILITY
A single TWINFUSION unit delivers high-quality, perfectly balanced ventilation to any space – from a nursery to an expansive living room.

TOP-TIER WIND RESISTANCE
The use of high-performance centrifugal EC fans provides the highest wind resistance class. This guarantees stable air exchange and flawless operation even in regions with extreme wind loads.



The unit is controlled via the touch panel on the side of the casing or through a smartphone.

Control panel functions on the device:

- Speed selection. Cycled sequentially: I–II–III
- Night timer: activates operation at speed 1 (8 hours by default).
- Power On / Standby mode.
- **Filter** - Filter clogging indicator (filter counter settings are available in the mobile app).
- **Heater** - Electric heater operation indicator.
- **Alarm** - fault indicator.

TwinFusion is more than just ventilation; it is a complete climate station for your home. Total control of all functions and settings — right in the mobile app.

Simple and intuitive TwinFusion voice control is available in multiple languages: English, German, Swedish, Norwegian, Danish, Polish, Dutch, French and Spanish*.

*Important: Feature availability depends on your country, region, and language. Please verify support on your device (smartphone or smart speaker) or contact the manufacturer.

works with Google Home

works with alexa

Google Play

Download on the App Store

SMART CONTROL: CLOUD SERVICE & VOICE CONTROL

ADVANTAGES





Modern style and aesthetics in every detail. The model is available in two color options: classic white and matte black.

Heat recovery efficiency — up to 98%.

Installation in walls from 300 to 800 mm thick into holes with a diameter of 270 or 340 mm.

Equipped with a humidity sensor.

Remote control of the device via Wi-Fi.

Ability to connect an external CO_2 sensor or other external relay sensors.

Supply and exhaust through a single hole in the wall ensure balanced ventilation without air cross-flows into adjacent rooms.

Sound pressure level from 12 to 27 dBA at a distance of 3 m.

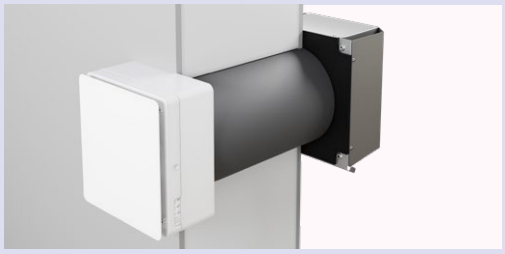
Ventilation of premises with an area of about 15–80 m^2 (the area is approximate and depends on ventilation standards in your country).

Easy installation and maintenance.

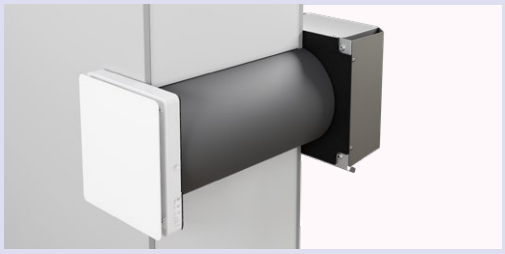




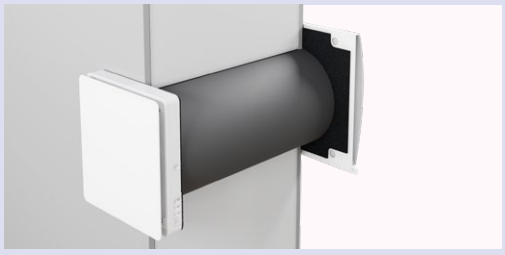
Installation examples



Wall thickness 300 – 390 mm.
Heat recovery unit + Spacer DCS TwinFusion + EH-2 TwinFusion 250 hood

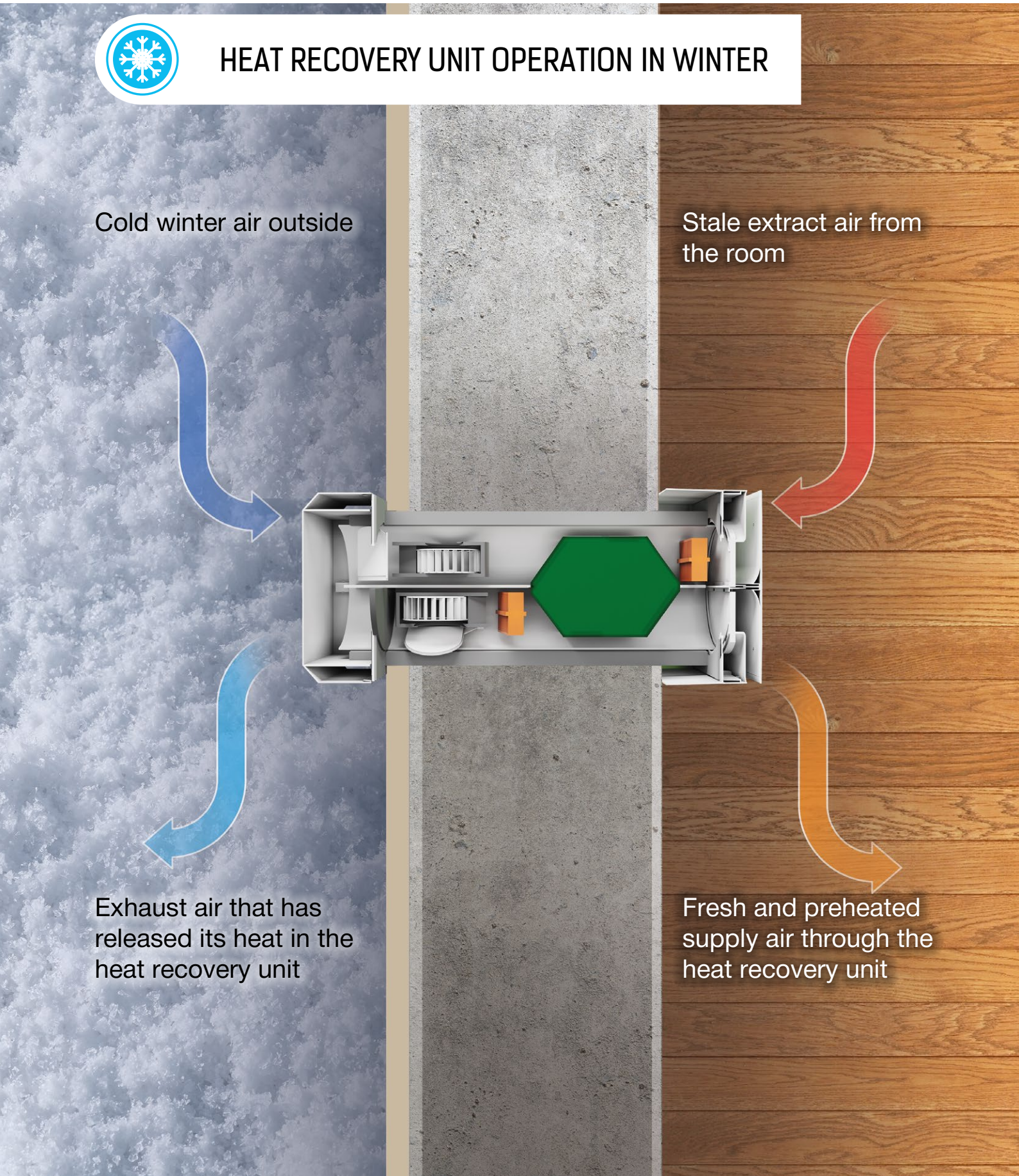


Wall thickness 390 – 545 mm.
Heat recovery unit + EH-2 TwinFusion 250 hood

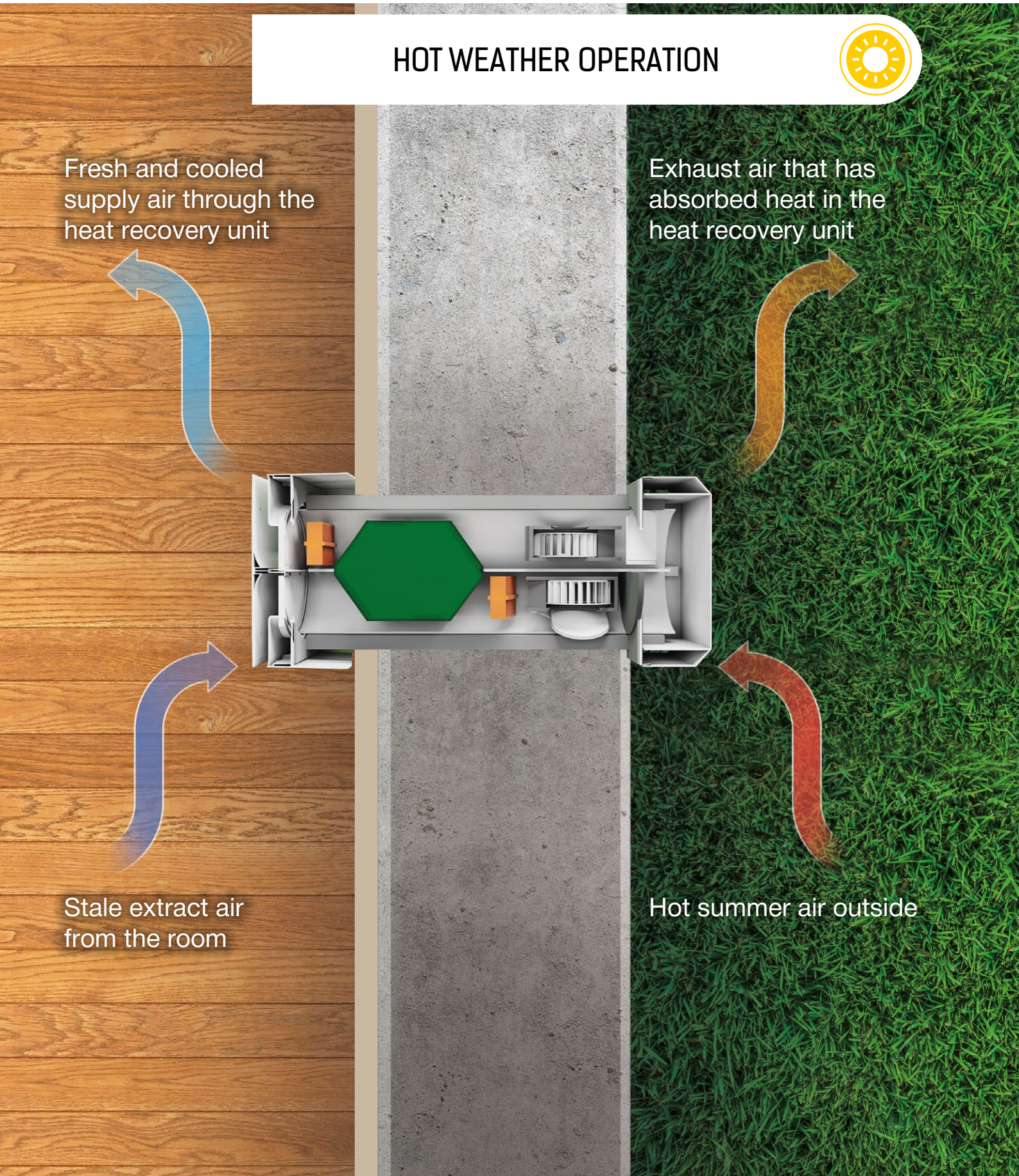


Wall thickness 550 – 800 mm.
Heat recovery unit + TC TwinFusion 545x320 EPP duct (Ø320mm) + DE TwinFusion 282x320 EPP duct extension + EH TwinFusion 250 hood

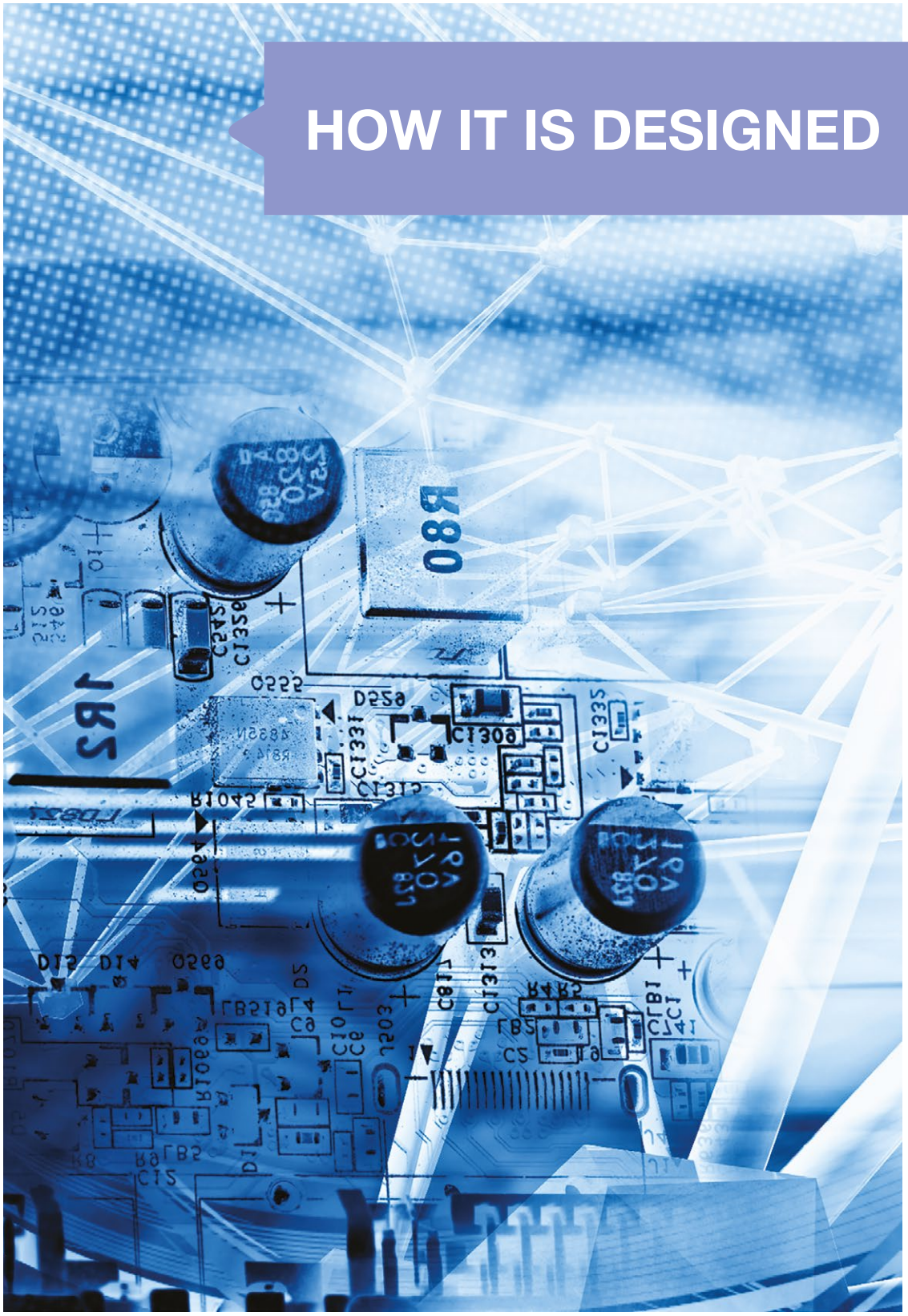
HEAT RECOVERY UNIT OPERATION IN WINTER

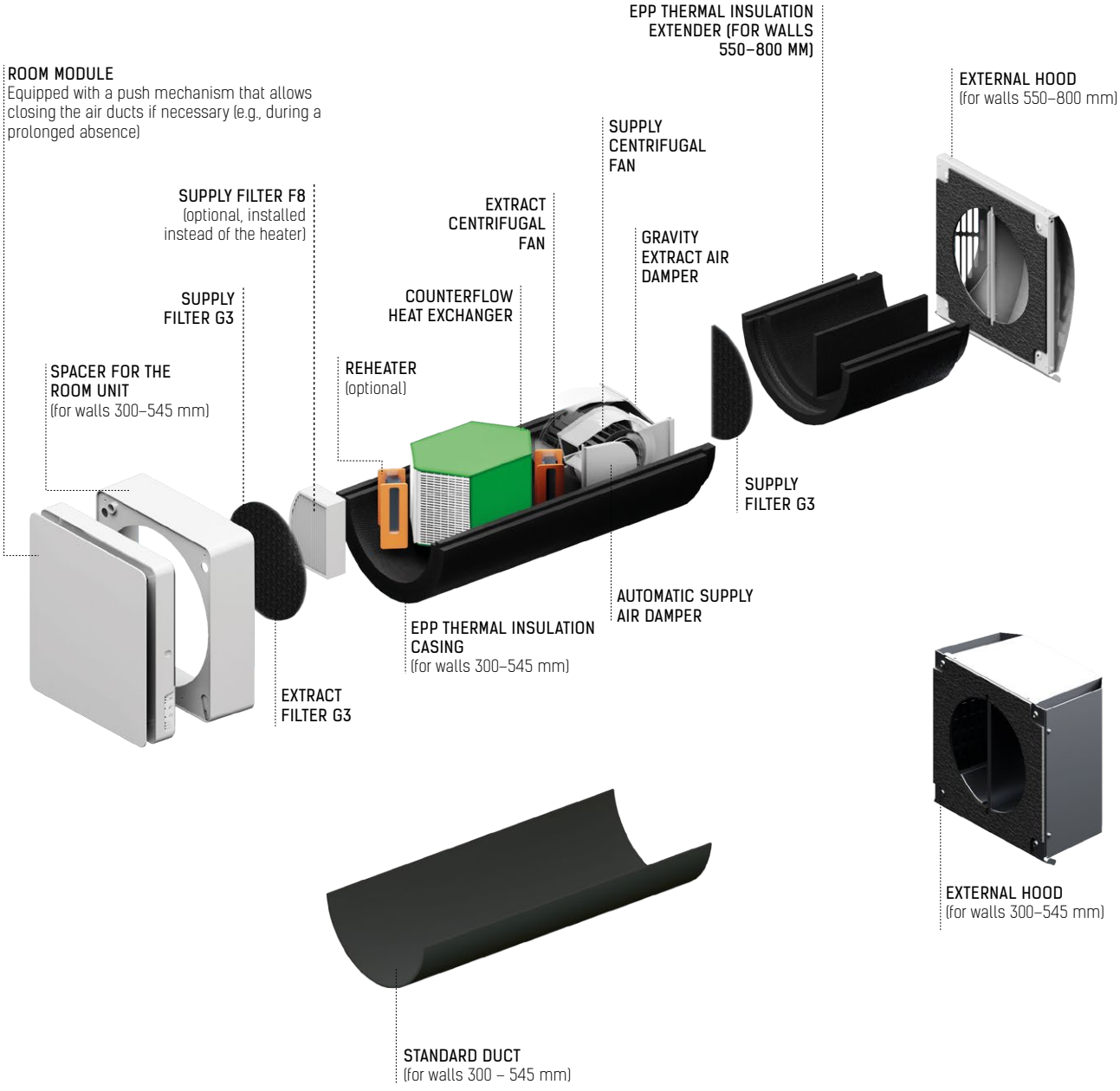


HOT WEATHER OPERATION

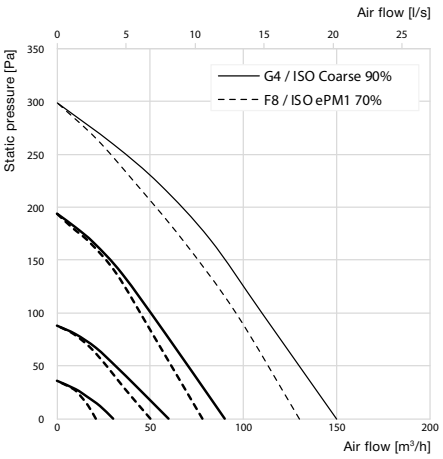


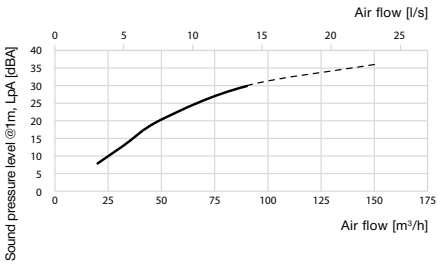
HOW IT IS DESIGNED




ROOM MODULE
Equipped with a push mechanism that allows closing the air ducts if necessary (e.g., during a prolonged absence)
SUPPLY FILTER F8
(optional, installed instead of the heater)
SUPPLY FILTER G3
SPACER FOR THE ROOM UNIT
(for walls 300–545 mm)
REHEATER
(optional)
COUNTERFLOW HEAT EXCHANGER
EXTRACT CENTRIFUGAL FAN
SUPPLY CENTRIFUGAL FAN
EPP THERMAL INSULATION EXTENDER (FOR WALLS 550–800 MM)
GRAVITY EXTRACT AIR DAMPER
EXTERNAL HOOD
(for walls 550–800 mm)
SUPPLY FILTER G3
AUTOMATIC SUPPLY AIR DAMPER
EPP THERMAL INSULATION CASING
(for walls 300–545 mm)
EXTRACT FILTER G3
EXTERNAL HOOD
(for walls 300–545 mm)
STANDARD DUCT
(for walls 300 – 545 mm)

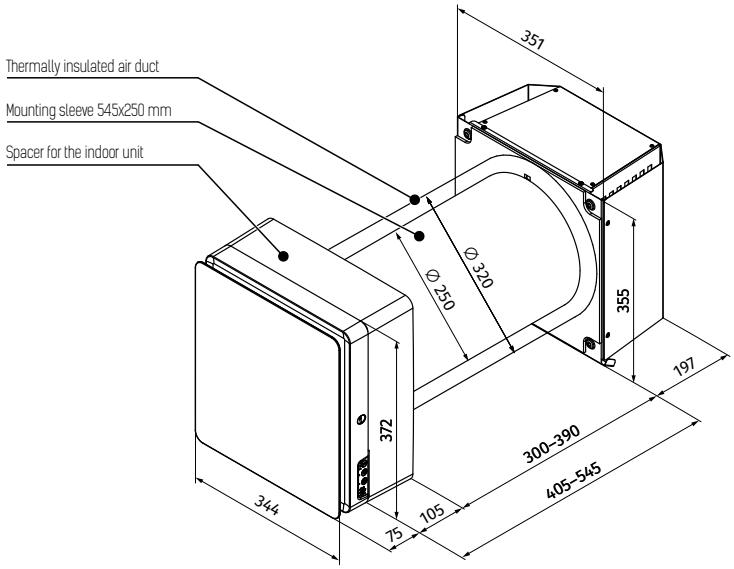
	TwinFusion			TwinFusion E			TwinFusion E2			TwinFusion ERV			TwinFusion E ERV			TwinFusion E2 ERV		
Unit voltage [V/50 (60) Hz]	220-240 V 50/60 Hz																	
Speed	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Air flow [m³/h]	30	60	90	30	60	90	30	60	90	30	60	90	30	60	90	30	60	90
Air flow Boost mode [m³/h]	150																	
Rated power, without electric heater [W]	5	11	22	5	11	22	5	11	22	5	11	22	5	11	22	5	11	22
Max. unit power without electric heater [W]	46																	
Integrated electric preheater power [W]	-			200						-			200					
Integrated electric reheater power [W]	-						200			-						200		
Max. unit current without electric heater [A]	0.30																	
Max. unit current with electric heaters [A]	-			1.40			2.50			-			1.40			2.50		
Max. unit power with electric heater [W]	-			246			446			-			246			446		
Sound power level LwA to environment [dB(A)]	34	41	48	34	41	48	34	41	48	34	41	48	34	41	48	34	41	48
Sound pressure level LpA to environment at 1 m distance [dB(A)]	23	31	37	23	31	37	23	31	37	23	31	37	23	31	37	23	31	37
Sound pressure level LpA to environment at 3 m distance [dB(A)]	12	21	27	12	21	27	12	21	27	12	21	27	12	21	27	12	21	27
Transported air temperature [°C]	from -20 to +40																	
Case material	ABS Plastic + EPP																	
Insulation (option), mm	30																	
Extract filter ISO 16890 / EN 779:2012	Coarse 45% / G3																	
Supply filter ISO 16890 / EN 779:2012	Coarse 90% / G3+G4 Optional: ePM1 70% / F8						Coarse 45% / G3			Coarse 90% / G3+G4 Optional: ePM1 70% / F8						Coarse 45% / G3		
Air duct diameter [mm]	1x250 mm																	
Air duct diameter with thermal cuff [mm]	1x320 mm																	
Weight [kg]	11																	
Heat recovery efficiency [%]	up to 98									up to 85								
Humidity recovery efficiency [%]	-									up to 56								
Heat exchanger type	counter-flow																	
Heat exchanger material	polystyrene																	
SEC class	A+									A								



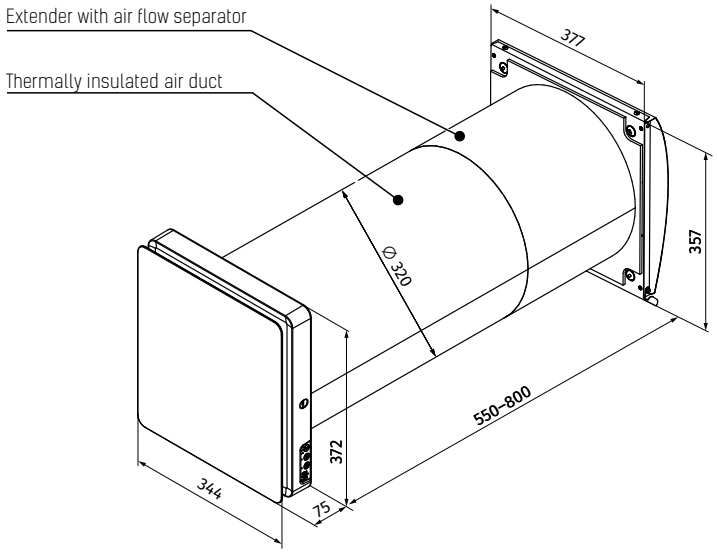


OVERALL DIMENSIONS

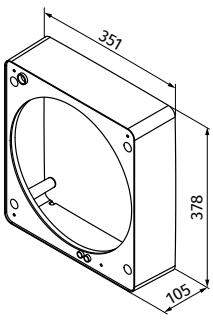
MOUNTING INTO WALLS 300–545 MM THICK



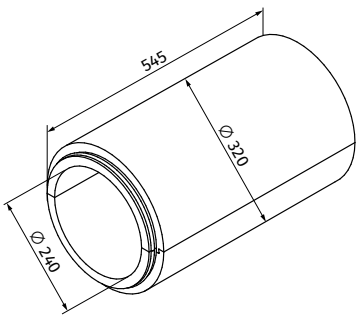
MOUNTING INTO WALLS 550–800 MM THICK



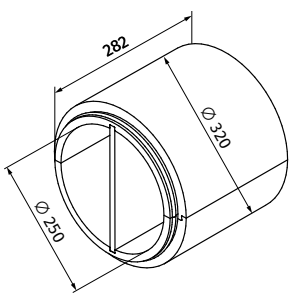
SPACER FOR THE INDOOR UNIT
DCS TWINFUSION



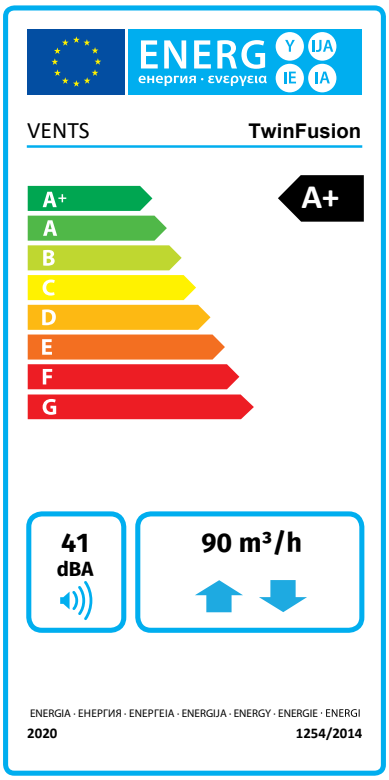
THERMALLY INSULATED
AIR DUCT TC TWINFUSION
545X320 EPP

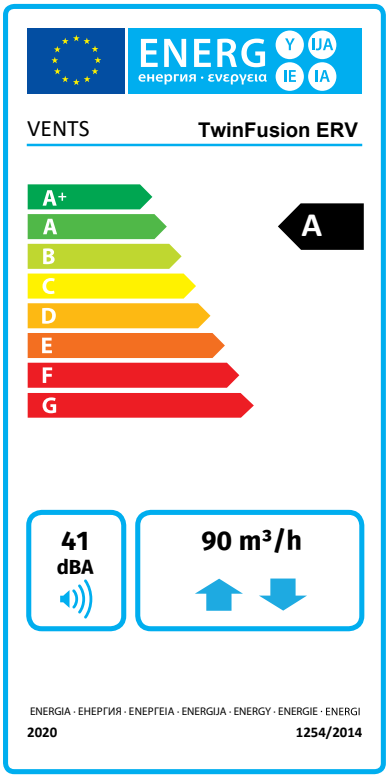


EXTENDER WITH AIR FLOW
SEPARATOR DE TWINFUSION
282X320 EPP

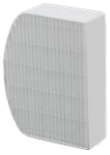
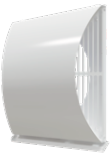
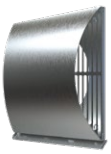


ECODESIGN





ACCESSORIES

Coarse 45% filter	SF 239x90x10 Coarse 45%/G3 PPI	
ISO Coarse 90% / G4 filter	SF 137x101x40 Coarse 90% / G4	
Fine filter ISO ePM1 70% / F8. Unavailable for the models with a built-in reheater TwinFusion E2 and TwinFusion E ERV	SF 137x101x40 ePM1 70%/ F8	
Thermally insulated air duct extender with air flow separator with an external diameter of 320 mm. Necessary for mounting the device in walls from 550 to 800 mm thick	DE TwinFusion 282x320 EPP	
Thermally insulated air duct with an external diameter of 320 mm. Used for walls up to 545 mm thick	TC TwinFusion 545x320 EPP	
Compact outdoor ventilation hood	EH TwinFusion white 250	
Compact outdoor ventilation hood	EH TwinFusion chrome 250	
Compact outdoor ventilation hood	EH TwinFusion anthracite 250	
Outdoor ventilation hood for thin walls	EH-2 TwinFusion white 250	
Outdoor ventilation hood for thin walls	EH-2 chrome 250	

ACCESSORIES

Outdoor ventilation hood for thin walls	EH-2 TwinFusion anthracite 250	
Pre-installation kit for walls of standard thickness. Includes: • outdoor hood EH TwinFusion white 250 • thermally insulated air duct • air duct extender • polystyrene plug • polystyrene wedges • mounting opening template • set of fasteners	Pre-installation Kit TwinFusion AH	
Pre-installation kit for thin walls. Includes: • outdoor hood EH-2 TwinFusion white 250 • mounting sleeve 545x250 mm • polystyrene plug • polystyrene wedges • mounting opening template • set of fasteners	Pre-installation Kit TwinFusion AH-S	
Kit for final mounting. Includes: • cartridge • indoor unit	Completion Kit TwinFusion	
Spacer insert of the indoor unit	DCS TwinFusion	
Spacer insert of the indoor unit	DCS TwinFusion BLK	
PTC heater (reheating). Available in modifications TwinFusion E and TwinFusion E ERV. It is used for final heating of supply air up to the set comfortable temperature after it passes the heat exchanger	RHE TwinFusion	
External wall-mounted CO_2 sensor with relay output (NO), LED CO_2 level indicator, and touch-sensitive mode selection button	CO2-1	
External wall-mounted CO_2 sensor with relay output (NO)	CO2-2	