EDEL 270 AIR DE/2

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Heat pump water heater

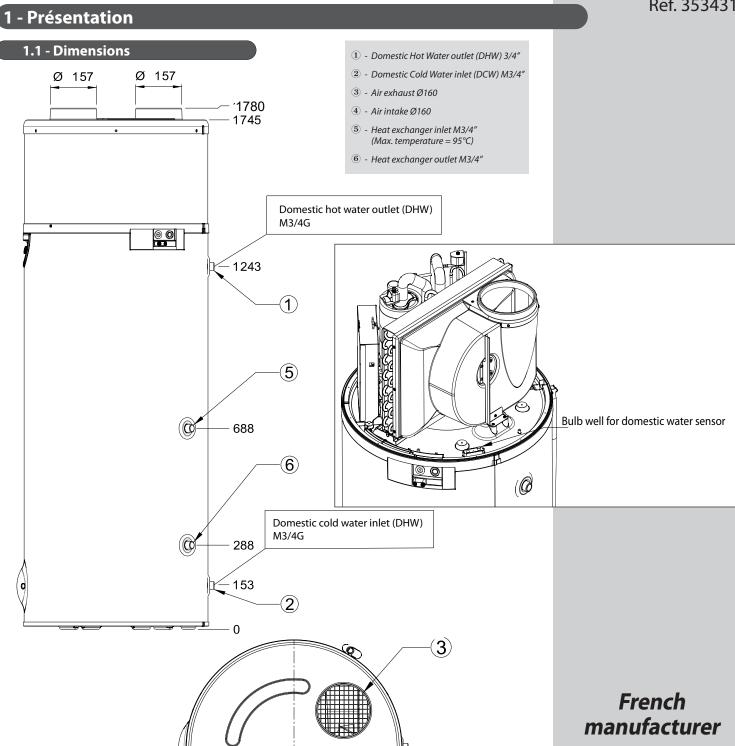
using exterior air or non-heated ambient air

WITH THERMAL HEAT EXCHANGER

Supplemental installer manual

Edel 270 AIR DE/2

Ref. 353431





Manual ref: 1897131 Edition n° 19.296

1.2 - Performances & technical characteristics

Edel 270 AIR DE/2 353431

Heat Pump Performance		
Nominal volume	L	265
Max input power (HP* + back-up)	W	1900
Air temperature range	°C	-7 to +35
DHW* temperature with the HP*	°C	30 to 60
Maximum HP* power consumption	W	700
Air flow rate	m^3/h	320 to 400
Sound level at a distance of 2 m** Speed 1 / Speed 2	dB(A)	37/40
Refrigerant fluid	- / kg	R290 / 0,15
Global warming potential	kg	0,45kg CO ₂ equivalent
Type of air connection	-	Exterior or ambient air

Normative Data CDC LCIE 103/15-C				
Draw cycle	-	L		
COP* (exterior air +7°C)	-	3,0		
Electrical power - PES reserve	W	27		
Hot water reference temperature	°C	53.7		
Heating time	-	9h26		
Erp energy class	-	A+		
Seasonal energy efficiency	%	125		
Vmax	L	334.5		
V40 td	L	693		
COP* (ambient air +15°C)	-	3.23		

Dimensions and connections				
Dimensions	mm	Ø 630 x H 1780		
Weight when empty	kg	68		
Diameter of air connection (intake / exhaust)	mm	160		
Maximum length of air duct	m	flexibe hose: 6 m rigid pipes: 15 m (intake +exhaust)		
Diameter of DCW* and DHW* connection	inches	M 3/4"		
Electricity supply	V-Hz-A	230V-50Hz-8A		
Protection rating	-	IPX4		
D-curve circuit breaker	Α	8		

Tank		
Material / Protection	1	Stainless steel
Maximum service pressure	MPa	0.6 (6 bars)
Maximum flow of condensates	L/h	0.3
Capacity of integrated electrical back-up (safety = 85°C)	W	1200
Maximum temperature with electrical back-up	°C	65
Hydraulic heat exchanger	m²-kW	0.8 - 20
Diameter of heat exchanger connection	inches	M 3/4"

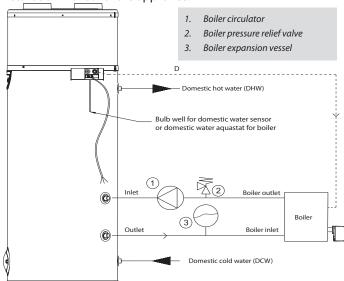
^{*} DHW = Domestic Hot Water

COP = Coefficient of Performance

2 - Installation with back-up boiler

2.1 - Installation diagram

For the domestic water connection diagram, refer to the installation manual of the appliance.



It is possible to control the back-up boiler using the dry contact of the heat pump water heater's tank (see §2.2 below) or by using the boiler's regulator by using a DHW sensor placed in the thermostat well situated at the rear of the tank (see previous page)

2.2 - Use of the primary heat exchanger to couple a boiler by using the heat pump water heater tank's regulator

--> Switch off the appliance

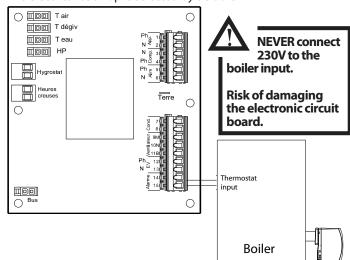
To access the electrical connections:

- Remove the cover and the shell of the appliance.
- Remove the cover by removing the screws fixing it to the shell near the lower belt of the shell.
- Remove the black protective cover on the electronic circuit
- Or for control using a boiler, place the sensor or domestic water aquastat in the bulb well provided for this purpose.
- Connect the voltage-free dry contact using a 2 G 1.5mm² cable (with metal tip) between the output marked «14-15» on the heat pump water heater's electronic circuit board and the thermostat input of the boiler.

The «Alarme» output is not activated, it is instead converted to a boiler control output.

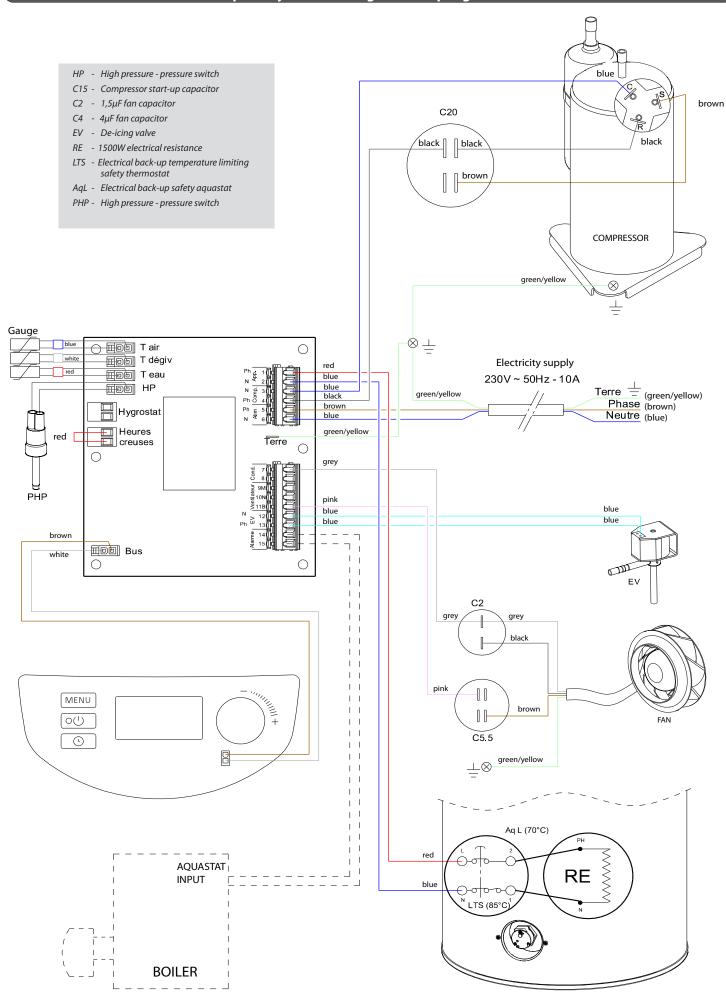
The user has the possibility to choose the operation of either the electrical back-up or of the back-up boiler (winter or summer operation for example).

The electrical back-up is selected by default.



^{**} Sound levels tested in a semi-anechoic chamber

2.3 - Electrical connection with primary heat exchanger for coupling to a boiler

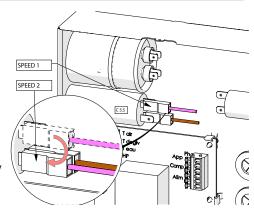


2.4 - Changing the fan speed

If the heat pump water heater is connected using pipes, it is necessary to adjust the fan speed to allow for the heat pump to overcome heat losses caused because of the air connections.

Changing of the fan speed can be done using the electrical terminal of the appliance.

The grey wire must be moved (connecting the 11B output on the circuit board to the 5,5µF capacitor) to the double input on the 5,5µF capacitor which already contains the blue wire for the fan.



2.4 - User menu: choice of back-up boiler

Direct access by pressing the «Menu» button. Turn the dial to scroll through the user menu options.

TEMP. WATER

HOLIDAY

Setting the water temperature

Programming holiday mode

BOOST

BACKUP

Activation of the Boost function

Choice of back-up

then

BACKUP

• Press on the dial to access the back-up options

ELECTRIC

• Turn the dial to change the back-up

or

BOILER

• Press on the dial to confirm your selection.

Note: The symbol or () will appear depending on the back-up chosen.



Industrial and development site Rue de la République CS 400239 80210 Feuquières-en-Vimeu

Spare parts department

Tel: 03 22 61 21 21 - Fax: 03 22 61 33 35 E-mail: pieces@auer.fr

Technical assistance department*

E-mail: enr@auer.fr

*Technical assistance is reserved for professionals