

Product description

Combi is a complete unit consisting of a ventilation and container section, containing a counter current heat exchanger, 185 litres hot water container prepared for the connection of a solar collector/central heating etc. Combination heating pump for heating the supply air and domestic water, supply- and extract ventilators, filters and a complete Optima 310 AC control, a control panel with a display, showing the operating mode of the unit providing easily change of the operating settings.

Utilization

Combi is normally used in homes with an area from 85 to 150 m² and is capable of supplying hot water, covering the needs of a family, throughout the year.

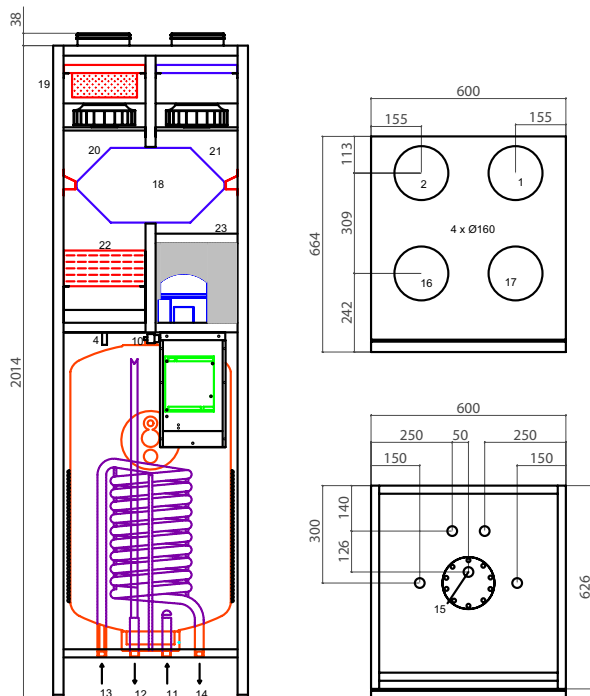
Types

- Combi 185
- Combi 185 L
- Combi 185 S
- Combi 185 LS



Dimensioned sketch

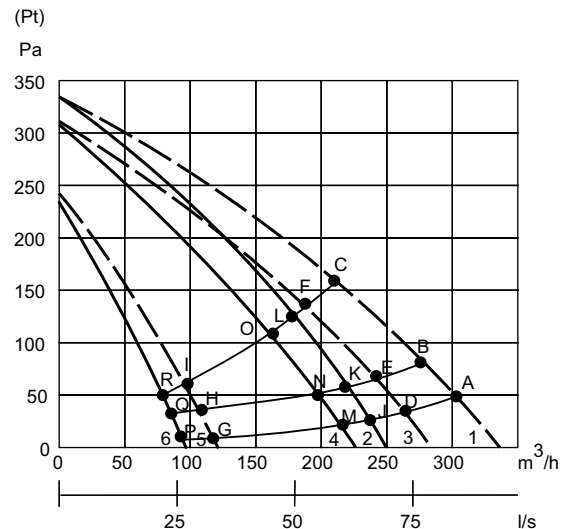
Combi S/XL
Dimensions in mm



- 1: Supply
- 2: Exhaust
- 3: Electric connection
- 4: Condensate drain tube
- 5: Compressor
- 6: 185 litres container
- 7: 3/4" anode
- 8: 1 kW electric heating surface
- 9: Condenser coil
- 10: High pressure switch with manual reset
- 11: Cold water connection 3/4" RG.
- 12: Hot water connection 3/4" RG.
- 13: Connection to heating coil 3/4" RG.
- 14: Connection to heating coil 3/4" RG.
- 15: Hot water circulation 3/4" RG.
- 16: Fresh air
- 17: Extract
- 18: Counter current heat exchanger
- 19: Bag filter
- 20: Supply ventilator
- 21: Extract ventilator
- 22: Evaporator
- 23: Condenser (supply)
- 24: Plan filter

Performance

The performance diagram shows the pressure (P_t) available for the duct system on both extract and supply. Pressure loss in the unit has been deducted.



- Supply air with bag filter: 2 = 100%, 4 = 75%, 6 = 40%
- - - Extract and supply with plan filter: 1 = 100%, 3 = 75%, 5 = 40%

Input current (extract and supply with plan filter)

	A	B	C	D	E	F	G	H	I
Watt	57	56	55	54	53	53	41	40	40

Input current (supply with bagfilter)

	J	K	L	M	N	O	P	Q	R
Watt	55	54	53	52	51	50	39	38	37

Technical data

Power supply

Without electric post-heating surface and electric pre-heating surface

1 x 230V + N + PE + 10 A, 50 Hz

With electric post-heating surface and electric pre-heating surface

max 1,2 + 1,0 kW

1 x 230V + N + PE + 16 A, 50 Hz

Ventilators with direct driven motors

R2E 190

Condenser

2 μ F

Motors 230V AC:

Standard motors

IEC 38

Insulation class

B

Density class

IP 44

Motor capacity (2 motors):

RPM

2500

Power input (max per motor)

58W

Current draw (max per motor)

0,26A

The ventilators may be set - individually - to 3 various speeds.

Th operating area of the heating pump

-15°/+35°C

Compressor

NE 6210Z

Power input (max) 585W

Current draw (max) 3,3A

Average performance 1365W

Average efficiency performance 425W

Cooling media

R134a

Filling

1100 gram

Construction

Principle dimensions:

(h x w x d) excl. connecting pieces

2015 x 600 x 664 mm

Cabinet construction:

Double encapsulated, hot galvanised sheet metal with 30 mm insulation. In- and outside powder sprayed white RAL 9010, glans 72

Duct connection:

ø160 mm (nipple size) with rubber ring seal

Filter door:

6 mm screws and snap bolts for the filter cover

Counter current heat exchanger:

Seawater proof aluminium

Condensation tray:

Stainless steel

Condensation drain:

Stainless steel connecting piece ø15 mm (external)

Tank protection

Inside enamel and magnesium anode

Heating coil protection

External enamel

Filters:

Supply

EU7 bag filter

Extract:

EU4 plan filter

Weight +/- water:

210/395 kg