ANNEX C

INSTALLATION, USE AND MAINTENANCE

DPC 4 series – Double wall concentric chimney system with ventilated air gap:
the combustion products get out through the inner pipe while the air necessary to the generator combustion gets in through the gap between the inner pipe and the outer one.

1) INSTALLATION

● The installation of the chimney system begins by fixing the first support to the floor or to the wall. For floor application, the first element to install is the "base support with syphon"; for wall application, the first element is the "chimney support". These elements are fixed to the floor/wall through 8 mm diameter bolts, which are not included in the supply. For wall application follows upwards the tee pieces to connect the chimney system to the connecting flue pipe, the straight elements and the end piece (see *Picture 1*).

● Each element of the system is equipped with the locking band, which guarantee stability to mechanical stress.

● The allowed maximum load on chimney support and on tee elements are shown in *Table 1* (maximum load is indicated with static height of chimney section).

● The roof outlet can be sealed through the use of flat/slanted flashing and storm collar (see *Picture 2*); the base plate gives to the flashing an easy adaptability to every type of roof covering.

● For installation outside the building, the wind load resistance of chimney system is determined until outer diameter 350 mm:
- brackets, on vertical sections, must have a maximum distance of 2,5 m from each other;
- the maximum chimney height above the last support is 1,5 m (only n°1 joint to be included); if a bigger height is requested, special support pole/trestle is needed.

● Each element of the system is equipped with the silicone seal to obtain a perfect tightness. To lubricate the seals only water has to be used.

● All the vertical elements must be installed with male internal side placed downwards to avoid condensate leaks.

● To avoid the accumulation of condensate, the sub-horizontal sections must be connected to the boiler with a slope of 3 degrees.

● Only vertical installation is permitted.

● Installation according to national regulations.

Picture 1

Picture 2

Diameter (mm)	100/150	130/200	140/250	150/230	160/300	180/250	180/350	200/400	220/400	230/350	250/450	250/500	280/500	300/550
Static heigth of chimney section (m) *for chimney support DPC 412*	65	54	50	48	45	43	40	35	30	31	25	23	22	20
Static heigth of chimney section (m) *for 87° tee elements DPC 403 / DPC 420*	30	28	25	24	21	22	18	18	18	19	14	13	13	12

Table 1

2) USE

The choice of chimney system diameter has to meet the boiler heat output and the current standards.

3) KIND OF WORKING

The product designation according to EN 1856-1:2009 standard is: **T200 P1 W V2 L50040 O20**

Where:
T200: temperature class
P1: positive pressure level
W: condensate resistance, the chimney system is fit for wet working
V2: corrosion resistance class
L50040: specification of internal wall material;
L50: material 1.4404 (AISI 316L)
040: thickness 0,40 mm
O20: chimney system is not sootfire resistant and the minimum distance from combustible materials is 20 mm

Chimney system working with positive pressure has the silicone seals to obtain a perfect tightness of elements.
The available diameters for positive pressure working are:
100/150, 130/200, 140/250, 150/230, 160/300, 180/250, 180/350, 200/400, 220/400, 230/350, 250/450, 250/500, 280/500, 300/550 mm.

4) IDENTIFICATION METAL PLATE OF CHIMNEY SYSTEM

At the end of installation, the installer shall compile the identification metal plate of chimney system and shall put it near or at the base of the chimney system.
On this metal plate shall be written the installer data, the designation of installed chimney (according to the EN 1443 standard), the chimney nominal diameter and the distance from combustible materials declared by manufacturer.

The product designation according to EN 1443 standard is: **T200 P1 W 2 O20**

Where:
T200: temperature class
P1: positive pressure level
W: condensate resistance, the chimney system is fit for wet working
2: corrosion resistance class
O: the chimney system is not sootfire resistant
20: the minimum distance from combustible materials is 20 mm

The identification metal plate is shown in *Table 2*.

5) MAINTENANCE

Maintenance of flue consists of regular checks of elements conditions, and visual checks. Controls are carried out also for the right connection of modular elements, the integrity of inner wall, the cleaning and removal of internal sediments (inner wall cleaning has to be carried out with materials that do not change the features of stainless steel, for example nylon brushes), the disposal of acid condensations or rain through the discharge and the inspection opening.
Clean any dirt from the exterior using a cloth dampened with water and a small amount of detergent if necessary.

6) HANDLING AND STORAGE

Products are to be stored in a suitable location (dry conditions on a level floor and in a non-corrosive environment) and left in their packaging until immediately prior to installation when the packaging should be removed.
Suitable personal protection equipment should be worn when handling and installing these items.

Note: further information and translations are available on our Internet web site www.roccheggiani.it

ROCCHEGGIANI®
care for air

Via 1° Maggio, 10
60021 Camerano (AN) - ITALY
Tel. +39.071.7300023
Fax. +39.071.7304005
e-mail: info@roccheggiani.it

CE 0036

"DPC 4" series
Double wall chimney with ventilated air gap

Metal Chimney System EN 1856-1
T200 P1 W V2 L50040 O20
T200 P1 W V2 L50050 O20
Cert. 0036 CPR 9811 014

Space for the installer

_____
Designation according to EN 1443

_____ mm
Nominal diameter

_____ mm
Distance to combustible material

Installer: _____
Name

_____
Address

Installation date: _____

ATTENTION: this metal plate shall not be removed or changed!

Table 2