ANNEX C

INSTALLATION, USE AND MAINTENANCE

DP 6 - DP 4 series – Double wall chimney system with thermal insulation

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 “the base with side condensate drain”; 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 inspection element, the tee pieces to connect the chimney system to the connecting flue pipe, the chimney support, 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 maximum chimney height above the last support is:
- 2 m for diameters included between ϕ 80/130 mm and ϕ 400/450 mm (only n°2 joint to be included);
- 1 m for diameters included between ϕ 400/500 mm and ϕ 700/800 mm (only n°1 joint to be included);
If a bigger height is requested, special support pole/trestle is needed.

● The chimney should be adequately supported. A full range of support is available. Lateral support brackets must have a maximum distance from each other of:
- 2,5 m for diameters included between ϕ 80/130 mm and ϕ 400/450 mm;
- 1,5 m for diameters included between ϕ 400/500 mm and ϕ 700/800 mm.

● Non vertical installation of chimney system is permitted, with maximum deflection of 90°; the maximum length of the slope is:
- 2 m for diameters included between ϕ 80/130 and 200/250 mm;
- 3 m for diameters included between ϕ 250/300 and 400/500 mm;
- 0,95 m for diameters included between ϕ 450/500 and 700/800 mm.

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

● This product is suitable also for condensing application when silicone seals are employed. To lubricate the seals only water has to be used.

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

● Installation according to national regulations.

Picture 1

Diameter (mm)	80 / 130	100 / 150	130 / 180	150 / 200	180 / 230	200 / 250	250 / 300	300 / 350	350 / 400	400 / 450	450 / 500	500 / 550	200 / 300	250 / 350	300 / 400	350 / 450	400 / 500	450 / 550	500 / 600	550 / 650	600 / 700	650 / 750	700 / 800
Static heigth of chimney section (m) *for chimney support DP 612 / DP 412*	27	22	21	18	17	16	14	12	10	8	7	7	11	9	8	7	7	6	6	5	5	5	5
Static heigth of chimney section (m) *for 87°-90° tee elements DP 603 / DP 6112 / DP 403*	42	40	36	32	29	27	27	27	25	21	21	19	26	22	19	15	14	14	13	12	11	11	11

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 :
- with N1 negative pressure
- with P1 positive pressure

3.1) N1 negative pressure operation

Chimney system working with N1 negative pressure does not have the silicone seal.

The product designations according to EN 1856-1:2009 standard is:

T600 N1 W V2 L50050 G50* for inner diameters up to 300 mm
T600 N1 W V2 L50050 G75* for inner diameters 350 - 400 mm
T600 N1 W V2 L50060 G75* for inner diameter 450 mm
T600 N1 W V2 L50060 G100* for inner diameters from 500 to 600 mm
T600 N1 W V2 L50060 G200* for inner diameters 650 - 700 mm

T600 N1 W V2 L50050 G75** for inner diameters up to 300 mm
T600 N1 W V2 L50050 G112,5** for inner diameters 350 - 400 mm

* without enclosure and with ventilated floors
* without enclosure and with closed floors using wooden roof fixing kit DP 6108 / DP 4108
** without enclosure and with closed floors using wooden roof fixing kit DP 6162 / DP 4162

Where:
T600: temperature class
N1: negative pressure level
W: condensate resistance, the chimney system is fit for wet working
V2: corrosion resistance class
L50050, L50060: specification of internal wall material;
L50: material 1.4404 (AISI 316L)
050: thickness 0,50 mm
060: thickness 0,60 mm
G50, G75, G100, G112.5, G200: chimney system is sootfire resistant and the minimum distance from combustible materials is 50, 75, 100, 112.5, 200 mm (the distances are referred to each inner diameter above mentioned in the chimney designations)

The available diameters for N1 negative pressure operation are:
80-130, 100-150, 130-180, 150-200, 180-230, 200-250, 200-300, 250-300, 250-350, 300-350, 300-400, 350-400, 350-450, 400-450, 400-500, 450-500, 450-550, 500-550, 500-600, 550-650, 600-700, 650-750, 700-800.

3.2) P1 positive pressure operation

Chimney system working with P1 positive pressure has the silicone seals to obtain a perfect tightness of elements.

The product designations according to EN 1856-1:2009 standard is:

T200 P1 W V2 L50050 O10 for inner diameters up to 300 mm
T200 P1 W V2 L50050 O15 for inner diameters 350 - 400 mm
T200 P1 W V2 L50060 O15 for inner diameter 450 mm
T200 P1 W V2 L50060 O20 for inner diameter 500 mm

Where:
T200: temperature class
P1: positive pressure level
W: condensate resistance, the chimney system is fit for wet working
V2: corrosion resistance class
L50050, L50060: specification of internal wall material;
L50: material 1.4404 (AISI 316L)
050: thickness 0,50 mm
060: thickness 0,60 mm

O10, O15, O20: chimney system is not sootfire resistant and the minimum distance from combustible materials is 10, 15, 20 mm (the distances are referred to the inner diameters above mentioned in the chimney designation)

The available diameters for P1 positive pressure operation are:
80-130, 100-150, 130-180, 150-200, 180-230, 200-250, 250-300, 300-350, 350-400, 400-450, 450-500, 500-550.

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 designations according to EN 1443 standard is:

T600 N1 W 2 G50* for inner diameters up to 300 mm
T600 N1 W 2 G75* for inner diameters from 350 to 450 mm
T600 N1 W 2 G100* for inner diameters from 500 to 600 mm
T600 N1 W 2 G200* for inner diameters 650 - 700 mm
T600 N1 W 2 G75** for inner diameters up to 300 mm
T600 N1 W 2 G112,5** for inner diameters 350 - 400 mm

* without enclosure and with ventilated floors
* without enclosure and with closed floors using wooden roof fixing kit DP 6108 / DP 4108
** without enclosure and with closed floors using wooden roof fixing kit DP 6162 / DP 4162

T200 P1 W 2 O10 for inner diameters up to 300 mm
T200 P1 W 2 O15 for inner diameters from 350 to 450 mm
T200 P1 W 2 O20 for inner diameter 500 mm

Where:
T600, T200: temperature class
N1, P1: pressure level
W: condensate resistance, chimney system is fit for wet working
2: corrosion resistance class
G50, G75, G100, G112,5, G200: chimney system is sootfire resistant and the minimum distance from combustible materials is 50, 75, 100, 112.5, 200 mm (the distances are referred to the inner diameters of chimney designation above mentioned)
O10, O15, O20: chimney system is not sootfire resistant and the minimum distance from combustible materials is 10, 15, 20 mm (the distances are referred to the inner diameters of chimney designation above mentioned)

The identification metal plate (for inner diameters up to 400 mm, and for ventilated floors without enclosure) 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. Products should stored in a vertical position with male coupler pointing upwards. The elements shall not be stored one over the other in vertical position in order to avoid the crushing, as this could compromise their performance features. 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

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"DP 6 - DP 4" series

Double wall chimney with thermal insulation

Metal Chimney System EN 1856-1

T600 N1 W V2 L50050 G50 for inner diameters up to 300 mm
T600 N1 W V2 L50050 G75 for inner diameters 350 - 400 mm
Cert. 0036 CPR 9811 001

T200 P1 W V2 L50050 O10 for inner diameters up to 300 mm
T200 P1 W V2 L50050 O15 for inner diameters 350 - 400 mm
Cert. 0036 CPR 9811 002

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