

CONDOR

Supply air ceiling



FUNCTION

CONDOR is a supply air ceiling system with adjustable nozzles. The spread pattern is infinitely flexible and can be adjusted as required without affecting the airflow, pressure drop or sound level. The supply air can be at over- or under-temperature. CONDOR is particularly suitable for applications where large supply airflows are required without high air velocities in the occupied zone, for example in laboratories, clean rooms, hospitals, catering kitchens and schools.

QUICK FACTS

- 100% flexible spread pattern
- High induction rate
- Can be cleaned
- Diffuser modules 595 x 595 mm
- Available in alternative colours
- VariZon air distribution system
- Included in MagiCAD database

QUICK GUIDE

AIRFLOW - SOUND LEVEL	
CONDOR Size	l/s 30 dB(A)
1200-600-250	140
1800-600-315	200
2400-600-315	245
3000-600-400x250	310
1200-1200-315	260
1800-1200-600x200	360
2400-1200-600x300	490
3000-1200-800x250	570

DESIGN

The supply air ceiling consists of a number of diffuser modules, equipped with nozzles, which are installed in a common backing box. The air diffuser modules are also equipped with the VariZon air distribution system to distribute air uniformly.

MATERIALS AND SURFACE TREATMENT

The supply air ceiling is manufactured in galvanised sheet steel. The nozzles are made of ABS plastic and the VariZon air distribution plates are made of polypropylene. The entire unit is painted with our pure white standard paint, RAL 9010. The unit is also available in other standard colours: Dusty grey 7037, white aluminium RAL 9006, jet black RAL 9005, grey aluminium RAL 9007 and signal white RAL 9003 (NCS 0500).

SPECIAL VERSION

In addition to the standard sizes, this unit can be supplied in special dimensions and with different numbers of nozzles, etc. CONDOR is also available in galvanised finish. Please contact your nearest sales office for information.

ACCESSORIES

CRM. Commissioning damper with measuring unit.

PLANNING

The unit can be installed freely suspended or integrated in a suspended ceiling.

The recommended maximum under-temperature is 5°C.

The recommended minimum installation height above the floor is 2.7 m.

INSTALLATION (See Figure 1)

The backing box has a number of M8 pop nuts on top and a number of attachment eyes along the sides for suspended installation. The backing box can also be bolted directly to the building structure from inside the box. The diffuser panels are inserted into the backing box at an angle, with the VariZon distribution plates facing the airflow, then laid on the grid.

COMMISSIONING

Commissioning should be carried out using a commissioning damper in the connecting duct system. See catalogue sheets for CRM.

MAINTENANCE

Clean as necessary with lukewarm water and detergent. Access can be gained to the duct system without tools. The diffuser section is removed in the same way as a normal cassette ceiling.

ENVIRONMENT

The declaration of construction materials is available on our website or may be ordered from one of our sales offices.

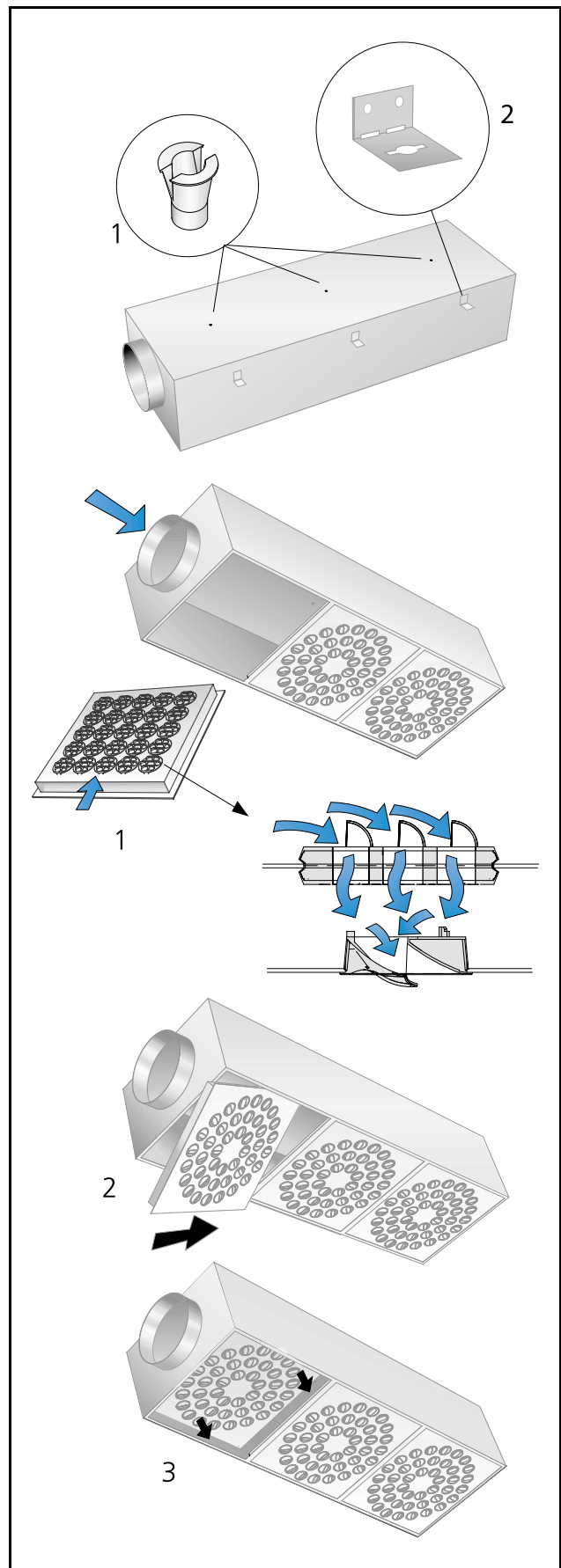


Figure 1. Installation.

TECHNICAL DATA

- The sound level dB(A) applies to rooms of 10 m² equivalent sound absorption area.
- The recommended maximum under-temperature with a standard nozzle installation is 5°C.
- To calculate the width of the airstream, air velocities in the occupied zone or sound levels in rooms with other dimensions, contact the nearest sales office for information.

Sound data - CONDOR - Supply air

Sound power level L_w(dB) (10 m² Sabine)

Table K_{OK}

CONDOR Size	Mid-frequency (octave band) Hz							
	63	125	250	500	1000	2000	4000	8000
1200-600-250	5	9	7	3	-4	-16	-19	-13
1800-600-315	6	10	7	4	-5	-17	-18	-13
2400-600-315	5	11	8	2	-5	-16	-17	-12
300-600-400x250	2	12	7	3	-6	-17	-20	-15
1200-1200-315	6	9	8	3	-4	-15	-16	-11
1800-1200-600x200	5	11	8	3	-6	-15	-16	-10
2400-1200-600x300	6	9	8	3	-6	-17	-14	-9
3000-1200-800x250	4	12	9	2	-7	-20	-13	-7
Tol. ±	2	2	2	2	2	2	2	2

Sound attenuation ΔL (dB) (10 m² Sabine)

Table ΔL

CONDOR Size	Mid-frequency (octave band) Hz							
	63	125	250	500	1000	2000	4000	8000
1200-600-250	15	10	5	2	2	3	4	5
1800-600-315	14	9	4	1	0	1	2	2
2400-600-315	14	9	4	1	0	1	2	2
3000-600-400x250	10	6	4	1	1	1	1	1
1200-1200-315	14	9	4	1	0	1	2	2
1800-1200-600x200	10	6	4	1	1	1	1	1
2400-1200-600x300	8	4	3	1	1	1	1	1
3000-1200-800x250	6	3	1	0	0	0	0	0
Tol. ±	2	2	2	2	2	2	2	2



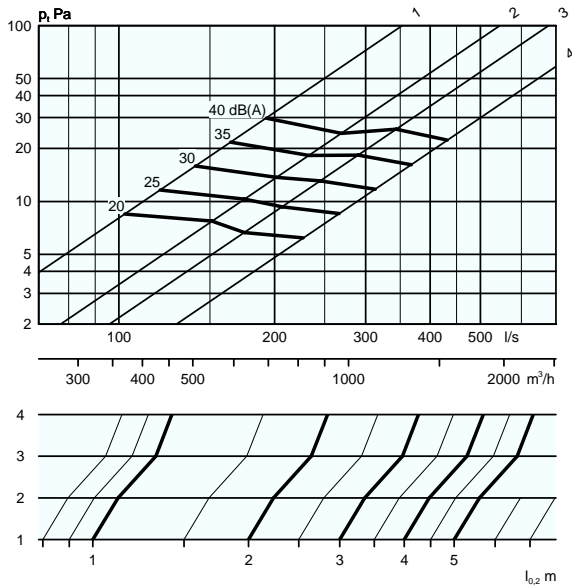
CONDOR

Engineering graphs – CONDOR – Supply air

Airflow – Pressure drop – Sound level – Affected area

- The graphs must not be used for commissioning.
- The dB(A) values are for rooms with normal acoustic absorption of 4 dB.
- The dB(C) value is normally 6-9 dB's higher than the dB(A) value. For more accurate calculations, see the calculation template in the chapter on Acoustics in the Technical Information section of this catalogue.

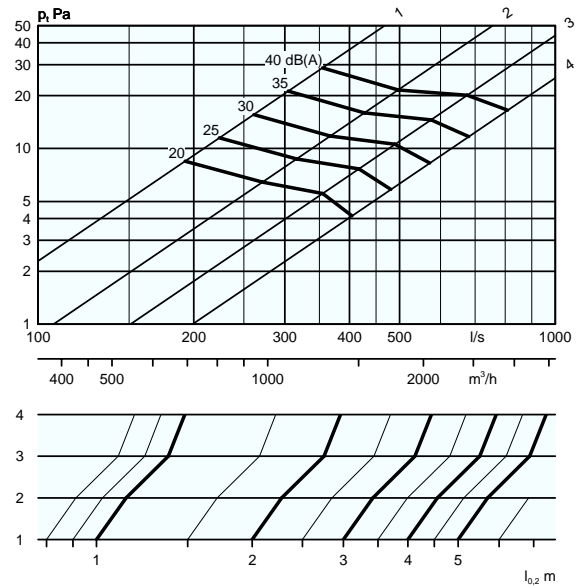
CONDOR - Single



Size designation:

1. 1200-600-250
2. 1800-600-315
3. 2400-650-315
4. 3000-600-400x250

CONDOR - Double



Size designation:

1. 1200x1200-350
2. 1800x1200-600x200
3. 2400x1200-600x300
4. 3000x1200-800x250

DIMENSIONS AND WEIGHTS

CONDOR

Size	Weight,kg
1200-600-250	27,0
1800-600-315	41,0
2400-600-315	54,0
3000-600-400x250	68,0
1200-1200-315	46,0
1800-1200-600x200	69,0
2400-1200-600x300	92,0
3000-1200-800x250	115,0

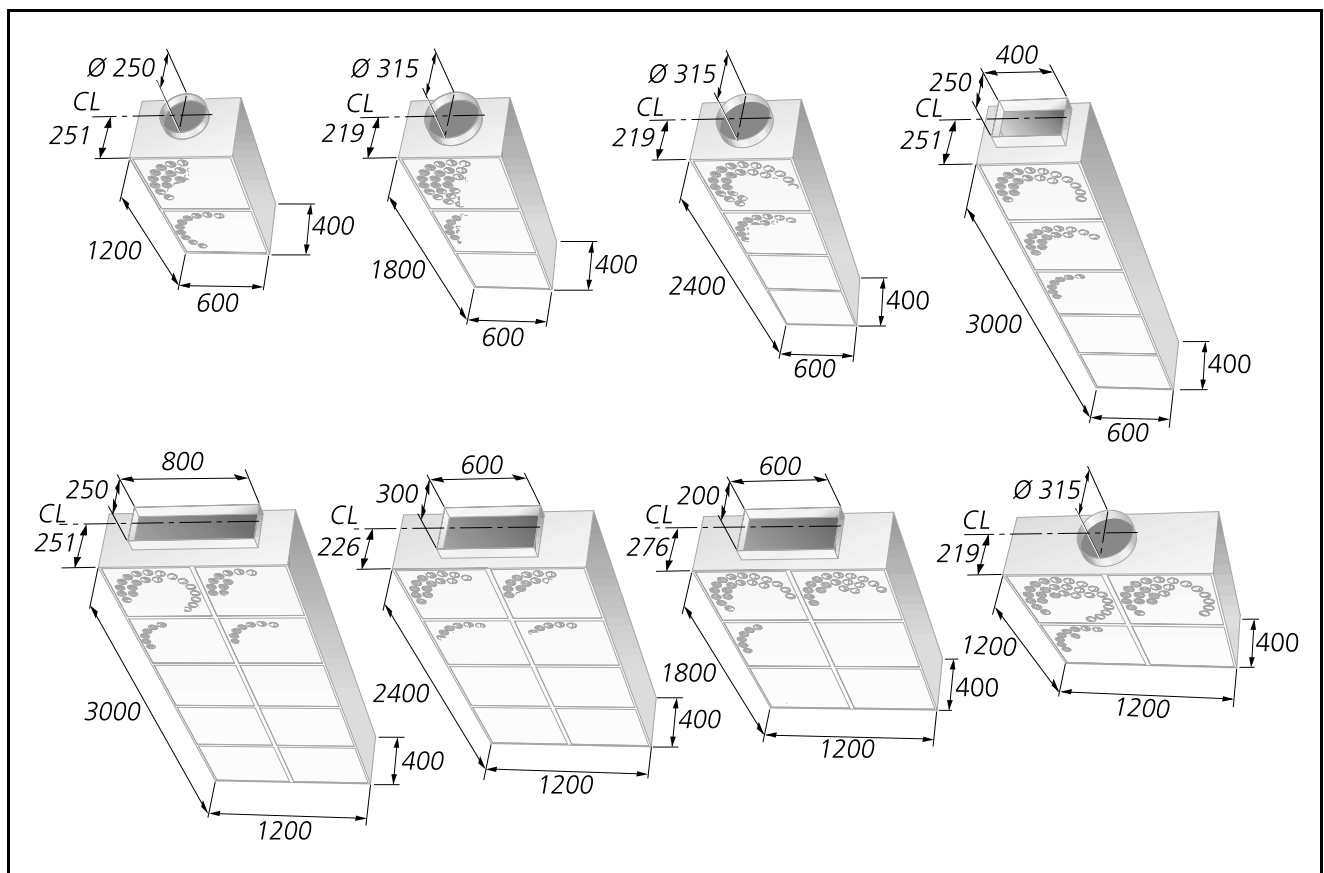


Figure 2. CONDOR, dimensions.



