

Ventiloconvectoare



Descriere generala



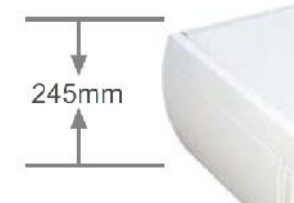
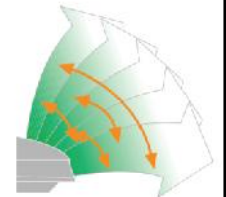
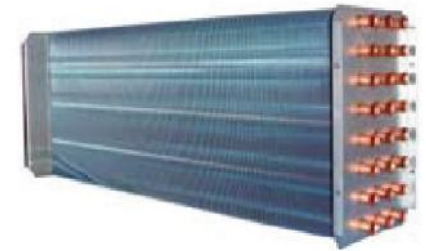
- Gama completa de produse:
 - unitati carcasate
 - unitati necarcasate
 - unitati de presiune mare
 - casete de plafon
 - 2 tevi/4 tevi

Unitati carcassate

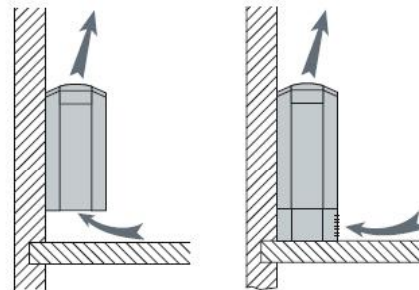




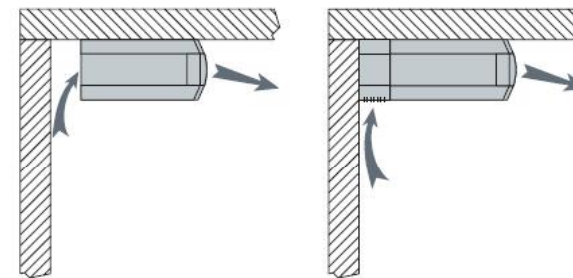
- Transfer termic foarte bun datorita folosirii de aripoare din aluminiu cu tratament hidrofobic si conducte din cupru expandate mecanic
- Grila orientabila, solida, din aluminiu
- Grosime redusa a unitatii
- Ventilatoare din otel galvanizat, cu rulmenti si motoare cu 4 trepte



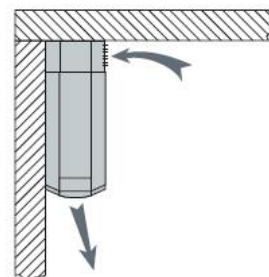
- Unitatile carcasate pot fi montate atat vertical, cat si orizontal



Racire & Incalzire



Racire & Incalzire



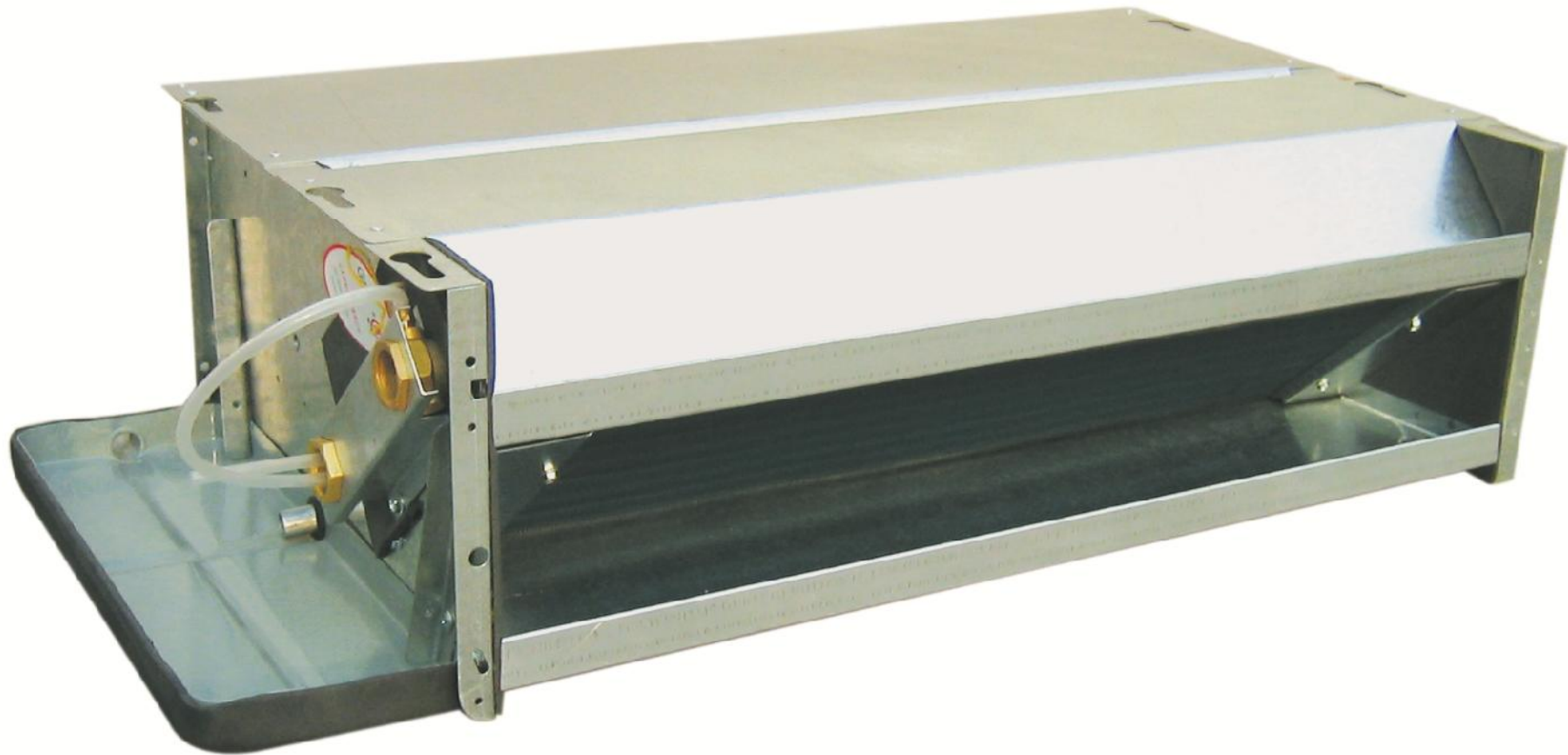
Incalzire

Unitati carcasate (2 tevi)



| Caracteristica | | | FC02 | FC03 | FC04 | FC05 | FC06 | FC08 | FC10 | FC12 | FC14 |
|---------------------------------|-------------------|-------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|
| Debit de aer | H | m ³ /h | 400 | 590 | 750 | 920 | 1080 | 1490 | 1750 | 2060 | 2450 |
| | M | m ³ /h | 310 | 450 | 560 | 690 | 810 | 1120 | 1320 | 1540 | 1840 |
| | L | m ³ /h | 200 | 300 | 370 | 460 | 540 | 750 | 870 | 1030 | 1230 |
| Capacitate racire | H | kW | 1.97 | 2.67 | 3.45 | 4.23 | 5.02 | 7.12 | 8.46 | 9.83 | 11.11 |
| | M | kW | 1.65 | 2.24 | 2.95 | 3.59 | 4.26 | 6.07 | 7.21 | 8.37 | 9.5 |
| | L | kW | 1.45 | 1.99 | 2.57 | 3.17 | 3.76 | 5.35 | 6.36 | 7.39 | 8.36 |
| Putere sensibila racire | H | kW | 1.39 | 1.84 | 2.41 | 2.97 | 3.59 | 5 | 6.75 | 6.94 | 7.96 |
| | M | kW | 1.20 | 1.58 | 2.05 | 2.55 | 3.07 | 4.25 | 5.89 | 6.11 | 6.94 |
| | L | kW | 0.94 | 1.19 | 1.56 | 2.05 | 2.49 | 3.30 | 44.77 | 4.65 | 5.42 |
| Capacitate incalzire | H | kW | 2.91 | 3.71 | 5.18 | 6.35 | 7.54 | 10.70 | 12.73 | 14.75 | 16.72 |
| | M | kW | 2.48 | 3.16 | 4.42 | 5.27 | 6.39 | 9.11 | 10.85 | 12.58 | 14.24 |
| | L | kW | 2.18 | 2.80 | 3.88 | 4.76 | 5.64 | 8.06 | 9.57 | 11.08 | 12.58 |
| Putere absorbita | | W | 34.00 | 46 | 55 | 70 | 87 | 117 | 140 | 181 | 223 |
| Curent absorbit | | A | 0.21 | 0.30 | 0.37 | 0.40 | 0.50 | 0.74 | 0.91 | 1.04 | 1.30 |
| Presiune statica | | Pa | 12Pa | | | | | | | | |
| Nivel zgomot | | dB (A) | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 48 | 50 |
| Debit de apa | | kg/h | 350 | 470 | 600 | 740 | 870 | 1230 | 1460 | 1700 | 1910 |
| | | l/s | 0,097 | 0.131 | 0.167 | 0.206 | 0.242 | 0.342 | 0.406 | 0.472 | 0.531 |
| Cadere de pres apa | | kPa | 10 | 18 | 19 | 23 | 24 | 23 | 36 | 21 | 35 |
| Tip ventilator | | | Centrifugal | | | | | | | | |
| Motor | Tip | | Motor ventilator asincron cu 4 viteze | | | | | | | | |
| | Izolatie | | Clasa B | | | | | | | | |
| | Alimentare | | 220-230V1Ph/50 Hz | | | | | | | | |
| Schimbator caldura | Tip | | Cupru fara sudura extins in aripioare de aluminiu | | | | | | | | |
| | Randuri | | 2 | | | | | | | | |
| | Presiune de lucru | | 1.6MPa | | | | | | | | |
| Intrare/ iesire Conducta de apa | | | 3/4" FPT | | | | | | | | |
| Conducta de condens | | | Ø 20 | | | | | | | | |

Unitati necarcasate



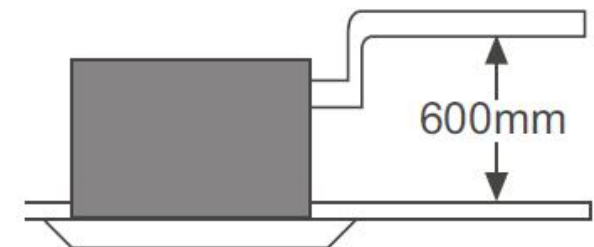
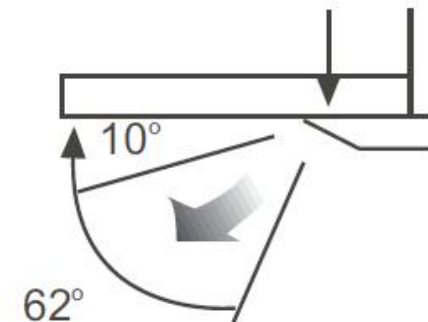
- Sunt valabile caracteristicile de la unitatile carcasate, cu urmatoarele diferente:
 - Lipsa carcusei
 - Tavita de condens auxiliara este prevazuta pentru montaj orizontal
 - Presiunea disponibila este de 50Pa, in loc de 12Pa.

Casete de plafon



- Casetele de plafon maximizeaza utilizarea spatiului
- Ventilatoare radiale, echilibrate dinamic
- Plae orientabile, controlate electric
- Inaltime mare de pompare a condensului
- Telecomanda cu infrarosu ca dotare standard
- Posibilitatea de a realiza control de grup

NOBUS



Casete de plafon (2 tevi)



| Caracteristica | | | FC02 | FC03 | FC04 | FC05 | FC06 | FC08 | FC10 | FC12 | FC14 |
|---------------------------------|-------------------|-------------------|---|----------|----------|-------------|----------|----------|---------------|----------|----------|
| Debit de aer | H | m ³ /h | 340 | 510 | 680 | 850 | 1020 | 1360 | 1700 | 2040 | 2380 |
| | M | m ³ /h | 280 | 390 | 520 | 640 | 790 | 1030 | 1290 | 1500 | 1800 |
| | L | m ³ /h | 180 | 260 | 350 | 430 | 520 | 690 | 860 | 1032 | 1200 |
| Capacitate racire | H | kW | 2.00 | 2.70 | 3.70 | 5.00 | 5.60 | 7.10 | 9.10 | 11.00 | 12.60 |
| | M | kW | 1.50 | 2.50 | 3.40 | 3.90 | 4.70 | 6.30 | 8.00 | 9.60 | 11.10 |
| | L | kW | 1.10 | 2.10 | 2.80 | 3.20 | 3.70 | 4.20 | 5.40 | 8.00 | 8.70 |
| Putere sensibila racire | H | kW | 1.60 | 2.10 | 2.70 | 3.60 | 4.30 | 5.10 | 6.70 | 8.10 | 9.50 |
| | M | kW | 1.10 | 1.90 | 2.60 | 2.90 | 3.50 | 4.70 | 6.00 | 7.20 | 8.30 |
| | L | kW | 0.90 | 1.60 | 2.20 | 2.60 | 3.00 | 3.40 | 4.30 | 6.40 | 7.00 |
| Capacitate incalzire | H | kW | 2.80 | 4.20 | 5.60 | 7.00 | 8.40 | 11.20 | 13.90 | 16.70 | 19.50 |
| | M | kW | 2.24 | 3.12 | 4.16 | 5.12 | 6.32 | 8.24 | 10.32 | 12.00 | 14.40 |
| | L | kW | 1.44 | 2.08 | 2.80 | 3.44 | 4.16 | 5.52 | 6.88 | 8.26 | 9.60 |
| Putere absorbita | W | | 37 | 52 | 62 | 76 | 96 | 132 | 152 | 189 | 220 |
| Amperaj | A | | 0.16 | 0.23 | 0.27 | 0.34 | 0.43 | 0.59 | 0.67 | 0.84 | 0.98 |
| Nivel zgomot | dB (A)-H/M/L | | 38/35/30 | 39/36/32 | 42/38/35 | 44/41/37 | 45/42/39 | 47/44/41 | 49/46/42 | 51/47/53 | 53/48/44 |
| Debit de apa | kg/h | | 345 | 520 | 640 | 860 | 970 | 1260 | 1710 | 1920 | 2210 |
| | l/s | | 0.096 | 0.144 | 0.178 | 0.239 | 0.269 | 0.350 | 0.475 | 0.533 | 0.614 |
| Cadere presiune apa | kPa | | 7 | 9 | 11 | 16 | 18 | 19 | 17 | 19 | 22 |
| Tip ventilator | Centrifugal | | | | | | | | | | |
| Motor | Tip | | motor cu condensator permanent | | | | | | | | |
| | Izolatie | | Clasa B | | | | | | | | |
| | Alimentare | | 220-230V1Ph/50 Hz | | | | | | | | |
| | Putere consumata | | 280 | 43 | 53 | 67 | 97 | 123 | 143 | 180 | 210 |
| Schimbator caldura | Tip | | Cupru fara sudura extins in aripioare de aluminiu | | | | | | | | |
| | Randuri | | 2 | | | | | | | | |
| | Presiune de lucru | | 1.4MPa | | | | | | | | |
| Intrare/ iesire Conducta de apa | 3/4" FPT | | | | | | | | | | |
| Conducta de condens | Ø25 | | | | | | | | | | |
| Dimensiuni / net | Unitate | | 580x580x250 | | | 710x710x290 | | | 811x811x290 | | |
| | Panou | | 680x680x30 | | | 800x800x30 | | | 950x950x30 | | |
| Dimensiuni / ambalaj | Unitate | | 730x730x310 | | | 865x865x340 | | | 1015x1015x340 | | |
| | Panou | | 730x730x310 | | | 865x865x340 | | | 1015x1015x340 | | |
| Masa / net | Unitate | | 22.5 | 22.5 | 23.5 | 28 | 29 | 29 | 36 | 38 | 38 |
| | Panou | | 25 | | | 4 | | | 5 | | |
| Masa | Unitate | | 23.8 | 23.8 | 23.8 | 29.6 | 30.6 | 30.6 | 38 | 40 | 40 |
| | Panou | | 3.5 | | | 5.3 | | | 5.6 | | |

Unitati de presiune mare



- Presiune statica de 80Pa (uzual pe stoc)
- La cerere pot fia aduse unitati de 180 sau 130Pa.

| Caracteristica | | | FC06 | FC08 | FC10 | FC12 | FC15 | FC18 | FC25 | FC31 | FC36 |
|---------------------------------|-------------------|-------------------|---|--------------|--------------|--------------|---------------|--------------|--------------|--------------|--------------|
| Debit de aer | H | m ³ /h | 1070 | 1430 | 1790 | 2145 | 2685 | 3220 | 4295 | 5370 | 6260 |
| | M | m ³ /h | 920 | 1244 | 1522 | 1845 | 2336 | 2801 | 3694 | 4565 | 5384 |
| | L | m ³ /h | 803 | 1058 | 1343 | 1630 | 2014 | 2415 | 3264 | 3974 | 4570 |
| Capacitate racire | H | kW | 6.10 | 7.50 | 9.00 | 11.50 | 13.50 | 15.80 | 20.80 | 27.00 | 31.40 |
| | M | kW | 5.49 | 6.68 | 8.19 | 10.58 | 11.88 | 13.75 | 18.30 | 24.03 | 27.32 |
| | L | kW | 5.06 | 6.30 | 7.65 | 9.43 | 11.21 | 13.11 | 17.47 | 22.68 | 26.38 |
| Putere sensibila racire | H | kW | 4.60 | 5.60 | 6.50 | 8.30 | 10.00 | 11.80 | 15.30 | 19.60 | 23.10 |
| | M | kW | 4.00 | 4.82 | 5.66 | 7.22 | 8.40 | 9.91 | 13.01 | 16.66 | 19.17 |
| | L | kW | 3.50 | 4.31 | 5.07 | 6.31 | 7.60 | 9.09 | 11.63 | 15.09 | 17.79 |
| Capacitate incalzire | H | kW | 9.30 | 11.50 | 14.10 | 18.10 | 20.90 | 25.00 | 32.10 | 42.20 | 49.20 |
| | M | kW | 8.09 | 10.12 | 12.55 | 15.75 | 18.81 | 22.25 | 29.21 | 38.40 | 43.30 |
| | L | kW | 7.72 | 9.66 | 11.84 | 15.20 | 17.35 | 21.00 | 27.29 | 34.60 | 40.84 |
| Putere absorbita | W | | 180 | 280 | 340 | 390 | 470 | 710 | 800 | 980 | 1170 |
| Curent absorbit | A | | 1.5 | 2.3 | 2.7 | 3.1 | 3.6 | 4.3 | 5.6 | 6.7 | 8.0 |
| Presiune statica | Pa | | 80Pa | | | | | | | | |
| Nivel zgomot | dB (A) | | 48 | 49 | 50 | 52 | 55 | 56 | 60 | 61 | 62 |
| Debit de apa | kg/h | | 1000 | 1200 | 1500 | 1900 | 2200 | 2600 | 3400 | 4500 | 5200 |
| | l/s | | 0.278 | 0.333 | 0.417 | 0.528 | 0.611 | 0.722 | 0.944 | 1.250 | 1.444 |
| Cadere de presiune apa | kPa | | 8.7 | 11.7 | 16.8 | 25.4 | 35 | 43.5 | 25.4 | 39.5 | 48.7 |
| Tip ventilator | Centrifugal | | | | | | | | | | |
| Motor | Tip | | Motor ventilator asincron cu 4 viteze | | | | | | | | |
| | Izolatie | | Clasa B | | | | | | | | |
| | Alimentare | | 220-230V1Ph/50 Hz | | | | | | | | |
| Schimbator caldura | Tip | | Cupru fara sudura extins in aripioare de aluminiu | | | | | | | | |
| | Randuri | | 2 | | | | | | | | |
| | Presiune de lucru | | 1.6MPa | | | | | | | | |
| Intrare/ iesire Conducta de apa | 3/4" FPT | | | | | | | | | | |
| Conducta de condens | Ø 20 | | | | | | | | | | |
| Dimensiuni / net | mm (L/h/H) | | 1180x835x365 | 1180x835x365 | 1280x835x365 | 1480x835x365 | 1580x853xx365 | 1680x835x365 | 1780x935x465 | 2080x935x465 | 2280x935x465 |
| Dimensiuni cu ambalaj | mm (L/h/H) | | 1260x885x415 | 1260x885x415 | 1360x885x415 | 1560x885x415 | 1660x885x415 | 1760x885x415 | 1860x985x415 | 2160x985x415 | 2360x985x415 |
| Greutate / net | Kg | | 54 | 54 | 57 | 65 | 68 | 71 | 91 | 103 | 111 |
| Greutate cu ambalaj | Kg | | 56 | 56 | 60 | 68 | 71 | 74 | 94 | 107 | 115 |

Aplicabilitate

- Ventilatoconvectoarele Nobus se utilizeaza ca unitati terminale in instalatiile de climatizare ce utilizeaza ca fluid caloportor apa.
- Aplicabilitatea este una foarte vasta:
 - Cladiri de birouri
 - Magazine si galerii comerciale
 - Cladiri industriale si agricole
 - Spitale
 - Hoteluri
 - Locuinte

Argumente comerciale



- Pretul-veți constata că avem unele dintre cele mai competitive prețuri pentru ventilatoare din România
- Livrare din stoc-ținem un stoc consistent din toate modelele
- Fiabilitate excepțională dovedită-Black Sea Suppliers vinde câteva mii de bucăți pe an și am întâmpinat mai puțin de 10 produse defecte.

Accesorii

- Vane cu 3 cai motorizate
- Termostate mecanice
- Termostate electronice



“Cocon Q” – regulator de debit constant pentru ventiloconvectoare



Performanta:

Diferenta maxima de presiune: 4 bar (400 kPa)

Diferenta de presiune: min. 0,16 bar (16kPa)
max. 4 bar (400 kPa)

Aduce debitul la valoarea setata indiferent de diferenta de presiune. (in limitele admise)

Modele:

| Cod. | DN | Gama de lucru | Valoare kvs |
|-----------|----|-----------------|-------------|
| 114 60 04 | 15 | 30 - 210 l/h | 0,5 |
| 114 61 04 | 15 | 90 - 450 l/h | 1,1 |
| 114 62 04 | 15 | 150 - 1.050 l/h | 1,8 |