



Application guide COMFAIR



• • • Providing indoor climate comfort




Comfair

APPLICATION GUIDE

Ref : COMFAIR-AGU-1107-E**1. CENTRIFUGAL FAN COIL UNITS - HC**

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Our company is a member of the Eurovent Certification Programme, The COMFAIR LENNOX fan coil units are tested and rated in accordance with Eurovent certification program,



Our products comply with the European standards,



Product designed and manufactured under a quality management system certified ISO 9001,



LENNOX have been providing environmental solutions since 1895, our range of COMFAIR fan coil units continues to meet the standards that have made **LENNOX** a household name. Flexible design solutions to meet **YOUR** needs and uncompromising attention to detail. Engineered to last, simple to maintain and Quality that comes as standard. Information on local contacts at www.lennoxeurope.com.

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CENTRIFUGAL FAN COIL UNITS - HC

Comfair Fan Coil units are designed to minimum dimensions, in particular the depth is limited to only 200mm. The HC version is available in a range of 7 different versions and 12 models in each range, allowing all types of mounting arrangement and configurations, for example :

- Vertical Cased – on feet or plinth, with air inlet top or bottom and supply air vertical or front discharge
- Horizontal Cased – with air inlet from the back, front or via a plenum
- Vertical or horizontal chassis units

Standard units are complimented by a complete range of accessories and options, for example :

- auxiliary heating coil for 4 pipe operation
- control package with 3-way valves
- electric heating coil
- fresh air inlet with manual or motorised damper
- straight or 90° plenums for inlet or supply air (for chassis units only)
- decorative panel in metal or wood, pre-painted white (for chassis units only)



Vertical cased units



Horizontal cased units



Vertical cased units

CHASSIS AND CASING

The chassis is constructed from galvanised sheet steel 0,8 mm. Mounting holes are provided on the back panel. Each unit, vertical or horizontal is equipped with a condensate drain pan which is insulated with thermal insulation 3mm thick, as are all parts of the chassis which come into contact with the treated air. Of modern and elegant design, the casing is finished to the LENNOX standard colour of RAL 9002 white, however the full range of RAL colours are available upon special request.

Casing is also constructed from 0,8mm sheet steel, galvanised and epoxy painted and protected by a plastic contact film which can be removed after final installation. These methods ensure high resistance to Rust, corrosion and liquid and chemical agents.

Diffuser grilles are manufactured by plastic injection techniques and can be ordered as adjustable as an option.

The control panel is located beneath a concealed opening on the top of the unit, always on the opposite side to the valves.



COILS

Coils are from aluminium fins mechanically expanded onto copper tubes. Headers are equipped with easy accessible air vents. Coil connections are female antitorsion and as standard are located on the left side of the unit, but can be right side on request. The required connection side should always be clearly noted on the order.

Due to their high heating capacity even with reduced water temperatures COMFAIR HC model fan coil units are ideal for installations using solar energy or heat pumps.

Coils are pressure tested to 30 Bar.



FANS

Depending on the model, the HC units can contain 1, 2 or 3 double inlet centrifugal fans with aluminium blades, statically and dynamically balanced. The electric motor includes overload protection and has six standard

speeds, three of which are pre-selected at the factory. Construction is in accordance with all relevant international standards, with a permanently connected capacitor. The motor assembly is mounted on rubber anti-vibration mounts and is directly coupled to the fan shafts which results in particularly quiet operation.



CONTROL PANEL

Easily accessible. It is located on the opposite side to the coils connections. As standard, the controller includes an electronic card, a 3-way switch (off / summer / winter) and a 3 speed fan switch. Factory fitted options include : Ambient temperature sensor (TA), and a minimum water temperature thermostat (TC). Horizontal units for concealed mounting are delivered with a terminal box for connecting to remote mounted controllers.

AIR FILTER

Simple to fit and remove, it is manufactured from a metal frame containing a washable poly-propylene filter medium class EU1. It is located on the suction side of the fan.



All data are at Eurovent conditions.
<http://www.eurovent-certification.com/>

PROGRAM: FC-2-H

| COMFAIR | | HC | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 |
|---------------------------------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Sensible cooling capacity | kW | Min | 0,51 | 0,81 | 1,2 | 1,31 | 1,5 | 2,12 | 2,3 | 3,13 | 3,29 |
| | | Med | 0,65 | 0,9 | 1,57 | 1,71 | 1,93 | 2,68 | 2,67 | 3,62 | 4,11 |
| | | Max | 0,74 | 1,02 | 1,76 | 2,17 | 2,18 | 3,08 | 3,15 | 3,96 | 4,82 |
| Total cooling capacity | kW | Min | 0,67 | 1,08 | 1,45 | 1,53 | 2,2 | 2,72 | 3,25 | 4,48 | 4,83 |
| | | Med | 0,79 | 1,17 | 1,94 | 2,03 | 2,79 | 3,41 | 3,71 | 5,17 | 5,96 |
| | | Max | 0,86 | 1,28 | 2,17 | 2,53 | 3,11 | 3,85 | 4,33 | 5,59 | 6,9 |
| Heating capacity | kW | Min | 0,85 | 1,47 | 1,87 | 2,11 | 2,57 | 3,12 | 3,79 | 5,36 | 5,62 |
| | | Med | 1,1 | 1,65 | 2,33 | 2,64 | 3,27 | 3,94 | 4,37 | 6,18 | 6,98 |
| | | Max | 1,25 | 1,87 | 2,59 | 3,28 | 3,66 | 4,48 | 5,14 | 6,69 | 8,13 |
| Water pressure drops in cooling | kPa | Min | 0,6 | 1,4 | 2,3 | 3,2 | 8,1 | 12,9 | 21,2 | 17,9 | 9,4 |
| | | Med | 0,8 | 1,7 | 4,2 | 5,6 | 13 | 20,2 | 27,7 | 23,9 | 14,3 |
| | | Max | 0,9 | 2 | 5,3 | 8,8 | 16,1 | 25,9 | 37,6 | 27,9 | 19,1 |
| Water pressure drops in heating | kPa | Min | 0,4 | 1 | 2,2 | 2,7 | 6,9 | 11 | 19,6 | 15,2 | 8,7 |
| | | Med | 0,6 | 1,2 | 3,9 | 4,8 | 11,1 | 17,2 | 25,6 | 20,3 | 13,2 |
| | | Max | 0,7 | 1,4 | 4,9 | 7,5 | 13,7 | 22 | 34,7 | 23,7 | 17,6 |
| Fan electrical power | kW | Min | 0,02 | 0,02 | 0,02 | 0,02 | 0,03 | 0,04 | 0,05 | 0,13 | 0,13 |
| | | Med | 0,02 | 0,03 | 0,03 | 0,03 | 0,05 | 0,06 | 0,06 | 0,15 | 0,15 |
| | | Max | 0,03 | 0,03 | 0,04 | 0,05 | 0,06 | 0,08 | 0,07 | 0,16 | 0,18 |
| Voltage | V/Ph/Hz | - | 230/1/50 | | | | | | | | |
| Sound power level | dB(A) | Min | 33 | 37 | 34 | 33 | 37 | 38 | 42 | 51 | 51 |
| | | Med | 41 | 41 | 41 | 40 | 43 | 47 | 46 | 56 | 58 |
| | | Max | 46 | 45 | 44 | 47 | 47 | 52 | 52 | 58 | 64 |

PROGRAM: FC-4-H

| COMFAIR | | HC | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 |
|---------------------------------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Sensible cooling capacity | kW | Min | 0,5 | 0,89 | 1,15 | 1,16 | 1,72 | 2 | 2,44 | 3,26 | 3,57 |
| | | Med | 0,63 | 0,99 | 1,51 | 1,52 | 2,2 | 2,54 | 2,83 | 3,76 | 4,47 |
| | | Max | 0,71 | 1,12 | 1,69 | 1,93 | 2,49 | 2,91 | 3,34 | 4,11 | 5,26 |
| Total cooling capacity | kW | Min | 0,65 | 1,04 | 1,38 | 1,44 | 2,1 | 2,61 | 3,35 | 4,28 | 4,58 |
| | | Med | 0,77 | 1,13 | 1,85 | 1,9 | 2,66 | 3,26 | 3,83 | 4,95 | 5,66 |
| | | Max | 0,84 | 1,23 | 2,08 | 2,38 | 2,96 | 3,69 | 4,47 | 5,35 | 6,57 |
| Heating capacity | kW | Min | 0,86 | 1,49 | 1,97 | 1,86 | 2,45 | 3,15 | 3,71 | 5,24 | 5,3 |
| | | Med | 1,11 | 1,67 | 2,45 | 2,33 | 3,12 | 3,75 | 4,29 | 5,84 | 6,58 |
| | | Max | 1,26 | 1,89 | 2,73 | 2,89 | 3,49 | 4,14 | 5,04 | 6,21 | 7,67 |
| Water pressure drops in cooling | kPa | Min | 0,39 | 1,4 | 2,5 | 3 | 5,72 | 10,2 | 28 | 7,5 | 18,4 |
| | | Med | 0,52 | 1,7 | 4,5 | 5,2 | 8,82 | 15,7 | 36,5 | 10 | 28,1 |
| | | Max | 0,61 | 2 | 5,7 | 8,2 | 10,7 | 20 | 49,8 | 11,6 | 37,8 |
| Water pressure drops in heating | kPa | Min | 1,06 | 3,6 | 7,4 | 6,6 | 13,9 | 20,5 | 32,8 | 70,7 | 84,5 |
| | | Med | 1,67 | 4,1 | 11,5 | 10,7 | 22,1 | 29 | 44,3 | 87,3 | 130 |
| | | Max | 2,1 | 5,7 | 13,9 | 16,4 | 27,9 | 35,1 | 61,5 | 99,1 | 177 |
| Fan electrical power | kW | Min | 0,02 | 0,02 | 0,02 | 0,02 | 0,03 | 0,04 | 0,05 | 0,13 | 0,13 |
| | | Med | 0,02 | 0,03 | 0,03 | 0,03 | 0,05 | 0,06 | 0,06 | 0,15 | 0,15 |
| | | Max | 0,03 | 0,03 | 0,04 | 0,05 | 0,06 | 0,08 | 0,07 | 0,16 | 0,18 |
| Voltage | V/Ph/Hz | - | 230/1/50 | | | | | | | | |
| Sound power level | dB(A) | Min | 34 | 39 | 34 | 35 | 35 | 41 | 43 | 51 | 51 |
| | | Med | 40 | 43 | 40 | 41 | 42 | 48 | 47 | 57 | 59 |
| | | Max | 45 | 47 | 44 | 47 | 46 | 53 | 53 | 59 | 65 |

SIZES 10 TO 60 - 2 PIPES SYSTEM

| COMFAIR | HC | 10 | 20 | 30 | 40 | 50 | 60 |
|--|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total cooling capacity ⁽¹⁾ | W | 865 | 1277 | 2072 | 2530 | 3111 | 3850 |
| | Frig/h | 746 | 1101 | 1787 | 2181 | 2682 | 3319 |
| Sensible cooling capacity ⁽¹⁾ | W | 737 | 1021 | 1506 | 2167 | 2176 | 2658 |
| | Frig/h | 636 | 880 | 1298 | 1868 | 1875 | 2291 |
| Heating capacity ⁽³⁾ | W | 1246 | 1869 | 2586 | 3279 | 3658 | 4481 |
| | kcal/h | 1074 | 1611 | 2229 | 2826 | 3152 | 3863 |
| Water flow ⁽¹⁾⁽³⁾ | l/h | 149 | 220 | 357 | 436 | 536 | 664 |
| | l/s | 0,041 | 0,061 | 0,099 | 0,121 | 0,149 | 0,184 |
| Water pressure drops in cooling ⁽¹⁾ | kPa | 0,8 | 2 | 6 | 8,8 | 16,2 | 26 |
| | mWG | 0,08 | 0,2 | 0,6 | 0,88 | 1,62 | 2,6 |
| Water pressure drops in heating ⁽³⁾ | kPa | 0,7 | 1,7 | 5,1 | 7,5 | 13,8 | 22,1 |
| | mWG | 0,07 | 0,17 | 0,51 | 0,75 | 1,38 | 2,21 |
| Heating capacity ⁽²⁾ | W | 2,124 | 3,192 | 4,329 | 5,512 | 6,081 | 7,444 |
| | kcal/h | 1,831 | 2,752 | 3,732 | 4,753 | 5,242 | 6,417 |
| Water flow ⁽²⁾ | l/h | 183 | 275 | 373 | 485 | 524 | 642 |
| | l/s | 0,051 | 0,076 | 0,104 | 0,132 | 0,146 | 0,178 |
| Water pressure drops in heating ⁽²⁾ | kPa | 0,9 | 2,4 | 5 | 7,9 | 11,8 | 18,5 |
| | mWG | 0,09 | 0,24 | 0,5 | 0,79 | 1,18 | 1,85 |
| Electric heater capacity ⁽⁴⁾ | W | - | | 1000 | | 2000 | |
| | kcal/h | - | | 860 | | 1720 | |
| Electric heater input current ⁽²⁾ | A | - | | 4,35 | | 8,7 | |
| Air flow ⁽⁵⁾ | m ³ /h | 227 | 289 | 404 | 453 | 575 | 685 |
| | m ³ /s | 0,063 | 0,08 | 0,112 | 0,126 | 0,16 | 0,19 |
| Fan speed ⁽⁵⁾ | rpm | 710 | 671 | 595 | 680 | 646 | 775 |
| Sound power level ⁽⁶⁾ | dB(A) | 46 | | 44 | | 47 | 52 |
| Motor electrical power ⁽⁷⁾ | W | 38 | 54 | 60 | 61 | 99 | 99 |
| Motor electrical input ⁽⁷⁾ | A | 0,18 | 0,25 | | 0,28 | | 0,45 |
| Electrical supply | V/Ph/Hz | | | | 230/1/50 | | |

Above mentionned technical data are calculated at the following operating conditions:

- Maximum fan speed (maximum speed predetermined in the factory among the available speeds: 5 for HC 10, 40, 60 and 4 for HC20, 30, 50)
- Standard unit without ducts (fancoil operating without external back pressure)

(1) Cooling: entering water temperature 7°C, leaving water temperature 12°C, entering air temperature 27°C W.B.; 19°C D.B.

(2) Heating: entering water temperature 70°C, leaving water temperature 60°C, entering air temperature 20°C

(3) Heating: entering water temperature 50°C, same water flow as in cooling, entering air temperature 20°C

(4) Electric heater: electric performances (supplied as accessory only)

(5) Air flow and fan speed: fancoil performances with cleaned filter

(6) Sound power level: sound power measured following ISO 23741

(7) Electrical data referred to the maximum available speed

SIZES 10 TO 60 - 2 PIPES SYSTEM

CORRECTION COEFFICIENT FOR DIFFERENT AVAILABLE SPEEDS

| COMFAIR | HC | 10 | 20 | 30 | 40 | 50 | 60 |
|---------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total cooling capacity | 1 | 0,73 | 0,78 | 0,6 | 0,52 | 0,71 min | 0,63 |
| | 2 | 0,77 min | 0,84 min | 0,67 min | 0,60 min | 0,8 | 0,71 min |
| | 3 | 0,84 | 0,92 med | 0,89 med | 0,80 med | 0,90 med | 0,8 |
| | 4 | 0,92 med | 1,00 max | 1,00 max | 0,9 | 1,00 max | 0,88 med |
| | 5 | 1,00 max | 1,1 | 1,11 | 1,00 max | 1,12 | 1,00 max |
| | 6 | 1,08 | 1,32 | 1,23 | 1,12 | 1,26 | 1,13 |
| Sensible cooling capacity | 1 | 0,65 | 0,72 | 0,6 | 0,53 | 0,69 min | 0,6 |
| | 2 | 0,69 min | 0,79 min | 0,68 min | 0,60 min | 0,78 | 0,69 min |
| | 3 | 0,78 | 0,88 med | 0,89 med | 0,79 med | 0,89 med | 0,78 |
| | 4 | 0,88 med | 1,00 max | 1,00 max | 0,89 | 1,00 max | 0,87 med |
| | 5 | 1,00 max | 1,14 | 1,11 | 1,00 max | 1,14 | 1,00 max |
| | 6 | 1,13 | 1,35 | 1,24 | 1,13 | 1,29 | 1,14 |
| Heating capacity | 1 | 0,64 | 0,71 | 0,63 | 0,56 | 0,70 min | 0,62 |
| | 2 | 0,68 min | 0,78 min | 0,72 min | 0,64 min | 0,79 | 0,70 min |
| | 3 | 0,78 | 0,88 med | 0,90 med | 0,81 med | 0,89 med | 0,79 |
| | 4 | 0,88 med | 1,00 max | 1,00 max | 0,9 | 1,00 max | 0,88 med |
| | 5 | 1,00 max | 1,12 | 1,08 | 1,00 max | 1,1 | 1,00 max |
| | 6 | 1,25 | 1,22 | 1,17 | 1,1 | 1,21 | 1,1 |
| Air flow | 1 | 0,54 | 0,64 | 0,56 | 0,5 | 0,63 min | 0,54 |
| | 2 | 0,60 min | 0,72 min | 0,67 min | 0,58 min | 0,73 | 0,63 min |
| | 3 | 0,7 | 0,84 med | 0,87 med | 0,76 med | 0,86 med | 0,73 |
| | 4 | 0,83 med | 1,00 max | 1,00 max | 0,88 | 1,00 max | 0,84 med |
| | 5 | 1,00 max | 1,21 | 1,14 | 1,00 max | 1,19 | 1,00 max |
| | 6 | 1,22 | 1,42 | 1,32 | 1,17 | 1,41 | 1,19 |

Data indicated as min., med., max. concern the 3 standard speeds set at the factory. Upon customer request other 3 speeds among the 6 speeds available can be connected.

SIZES 70 TO 120 - 2 PIPES SYSTEM

| COMFAIR | HC | 70 | 80 | 90 | 100 | 110 | 120 |
|--|-------------------|-----------|-----------|-----------|------------|------------|------------|
| Total cooling capacity ⁽¹⁾ | W | 4687 | 5589 | 6879 | 7978 | 10017 | 11011 |
| | Frig/h | 4041 | 4818 | 5930 | 6878 | 8635 | 9492 |
| Sensible cooling capacity ⁽¹⁾ | W | 3,108 | 3,96 | 4811 | 6064 | 7913 | 8478 |
| | Frig/h | 2,679 | 3,414 | 4147 | 5227 | 6822 | 7309 |
| Heating capacity ⁽³⁾ | W | 5,132 | 6,685 | 8110 | 10064 | 13080 | 14147 |
| | kcal/h | 4,424 | 5,763 | 6991 | 8676 | 11273 | 12196 |
| Water flow ^{(1) (3)} | l/h | 808 | 964 | 1186 | 1376 | 1727 | 1898 |
| | l/s | 0,225 | 0,268 | 0,329 | 0,382 | 0,48 | 0,527 |
| Water pressure drops in cooling ⁽¹⁾ | kPa | 56 | 28 | 43,1 | 26,6 | 21,5 | 26,8 |
| | mWG | 5,6 | 2,8 | 4,31 | 2,66 | 2,15 | 2,68 |
| Water pressure drops in heating ⁽³⁾ | kPa | 47,6 | 23,8 | 36,6 | 23,3 | 18,8 | 21,8 |
| | mWG | 4,76 | 2,38 | 3,66 | 2,33 | 1,88 | 2,18 |
| Heating capacity ⁽²⁾ | W | 8,471 | 11,138 | 13,491 | 16870 | 22016 | 23766 |
| | kcal/h | 7303 | 9602 | 11630 | 14543 | 18979 | 20488 |
| Water flow ⁽²⁾ | l/h | 730 | 960 | 1163 | 1487 | 1941 | 2095 |
| | l/s | 0,203 | 0,267 | 0,323 | 0,413 | 0,539 | 0,582 |
| Water pressure drops in heating ⁽²⁾ | kPa | 34,8 | 21,1 | 31,5 | 23,7 | 20,6 | 24,8 |
| | mWG | 3,48 | 2,11 | 3,15 | 2,37 | 2,06 | 2,48 |
| Electric heater capacity ⁽⁴⁾ | W | 2000 | 3000 | 3000 | - | - | - |
| | kcal/h | 1724 | 2586 | 2586 | - | - | - |
| Electric heater input current ⁽⁴⁾ | A | 8,7 | 13,04 | 13,04 | - | - | - |
| Air flow ⁽⁵⁾ | m ³ /h | 708 | 1058 | 1242 | 1356 | 2012 | 2003 |
| | m ³ /s | 0,197 | 0,294 | 0,345 | 0,377 | 0,559 | 0,556 |
| Fan speed ⁽⁵⁾ | rpm | 746 | 920 | 1125 | 820 | 932 | 1085 |
| Sound power level ⁽⁶⁾ | dB(A) | 52 | 58 | 64 | 63 | 67 | 66 |
| Motor electrical power ⁽⁷⁾ | W | 97 | 210 | 207 | 213 | 277 | 273 |
| Motor electrical input ⁽⁷⁾ | A | 0,44 | 0,96 | 0,95 | 0,97 | 1,27 | 1,25 |

Above mentioned technical data are calculated at the following operating conditions:

- Maximum fan speed (maximum speed predetermined in the factory among the available speeds: 6 for HC 70, 80, 90 and 5 for HC100, 120)
- Standard unit without ducts (fancoil operating without external back pressure)

(1) Cooling: entering water temperature 7°C, leaving water temperature 12°C, entering air temperature 27°C W.B.; 19°C D.B.

(2) Heating: entering water temperature 70°C, leaving water temperature 60°C, entering air temperature 20°C

(3) Heating: entering water temperature 50°C, same water flow as in cooling, entering air temperature 20°C

(4) Electric heater: electric performances (supplied as accessory only)

(5) Air flow and fan speed: fancoil performances with cleaned filter

(6) Sound power level: sound power measured following ISO 23741

(7) Electrical data referred to the maximum available speed

SIZES 70 TO 120 - 2 PIPES SYSTEM

CORRECTION COEFFICIENT FOR DIFFERENT AVAILABLE SPEEDS

| COMFAIR | HC | 70 | 80 | 90 | 100 | 110 | 120 |
|---------------------------|-----------|-----------|-----------|-----------|------------|------------|------------|
| Total cooling capacity | 1 | 0,56 | 0,80 min | 0,70 min | 0,73 | 0,55 | 0,56 |
| | 2 | 0,65 | 0,93 med | 0,8 | 0,78 min | 0,60 min | 0,63 min |
| | 3 | 0,75 min | 1,00 max | 0,86 med | 0,86 med | 0,77 med | 0,78 |
| | 4 | 0,86 med | 1,09 | 0,93 | 0,93 | 0,85 | 0,85 med |
| | 5 | 1,00 max | 1,17 | 1,00 max | 1,00 max | 1,00 max | 1,00 max |
| | 6 | 1,16 | 1,28 | 1,09 | 1,09 | - | - |
| Sensible cooling capacity | 1 | 0,54 | 0,79 min | 0,68 min | 0,71 | 0,53 | 0,54 |
| | 2 | 0,63 | 0,91 med | 0,78 | 0,76 min | 0,58 min | 0,60 min |
| | 3 | 0,73 min | 1,00 max | 0,85 med | 0,85 med | 0,75 med | 0,78 |
| | 4 | 0,85 med | 1,09 | 0,92 | 0,92 | 0,84 | 0,84 med |
| | 5 | 1,00 max | 1,18 | 1,00 max | 1,00 max | 1,00 max | 1,00 max |
| | 6 | 1,17 | 1,3 | 1,09 | 1,09 | - | - |
| Heating capacity | 1 | 0,54 | 0,80 min | 0,69 min | 0,72 | 0,54 | 0,55 |
| | 2 | 0,63 | 0,92 med | 0,8 | 0,77 min | 0,59 min | 0,61 min |
| | 3 | 0,74 min | 1,00 max | 0,86 med | 0,85 med | 0,76 med | 0,78 |
| | 4 | 0,85 med | 1,07 | 0,93 | 0,92 | 0,84 | 0,84 med |
| | 5 | 1,00 max | 1,13 | 1,00 max | 1,00 max | 1,00 max | 1,00 max |
| | 6 | 1,13 | 1,22 | 1,07 | 1,08 | - | - |
| Air flow | 1 | 0,5 | 0,74 min | 0,62 min | 0,65 | 0,44 | 0,46 |
| | 2 | 0,58 | 0,90 med | 0,74 | 0,71 min | 0,49 min | 0,56 min |
| | 3 | 0,69 min | 1,00 max | 0,82 med | 0,81 med | 0,68 med | 0,71 |
| | 4 | 0,82 med | 1,13 | 0,91 | 0,9 | 0,78 | 0,79 med |
| | 5 | 1,00 max | 1,25 | 1,00 max | 1,00 max | 1,00 max | 1,00 max |
| | 6 | 1,22 | 1,43 | 1,14 | 1,11 | - | - |

Data indicated as min., med., max. concern the 3 standard speeds set at the factory. Upon customer request other 3 speeds among the 6 speeds available can be connected.

SIZES 10 TO 60 - 4 PIPES SYSTEM

| COMFAIR | HC | 10 | 20 | 30 | 40 | 50 | 60 |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total cooling capacity ⁽¹⁾ | W | 837 | 1234 | 2079 | 2376 | 2963 | 3680 |
| | Frig/h | 722 | 1064 | 1792 | 2048 | 2554 | 3173 |
| Sensible cooling capacity ⁽¹⁾ | W | 809 | 1116 | 1691 | 1926 | 2490 | 2907 |
| | Frig/h | 697 | 962 | 1458 | 1660 | 2146 | 2506 |
| Heating capacity ⁽²⁾ | W | 1261 | 1894 | 2726 | 2887 | 3489 | 4131 |
| | kcal/h | 1087 | 1633 | 2350 | 2489 | 3008 | 3561 |
| Water flow in cooling ⁽¹⁾ | l/h | 144 | 213 | 358 | 410 | 511 | 635 |
| | l/s | 0,04 | 0,059 | 0,099 | 0,114 | 0,142 | 0,176 |
| Water flow in heating ⁽²⁾ | l/h | 109 | 163 | 235 | 249 | 301 | 356 |
| | l/s | 0,03 | 0,045 | 0,065 | 0,069 | 0,084 | 0,099 |
| Water pressure drops in cooling ⁽¹⁾ | kPa | 0,8 | 2 | 5,7 | 8,2 | 14,5 | 23 |
| | mWG | 0,08 | 0,2 | 0,057 | 0,82 | 1,45 | 2,3 |
| Water pressure drops in heating ⁽²⁾ | kPa | 0,3 | 0,7 | 1,7 | 2 | 3,4 | 4,2 |
| | mWG | 0,03 | 0,07 | 0,17 | 0,2 | 0,34 | 0,42 |
| Heating capacity ⁽³⁾ | W | 771 | 1158 | 1666 | 1764 | 2132 | 2524 |
| | kcal/h | 664 | 998 | 1436 | 1521 | 1838 | 2176 |
| Water flow ⁽³⁾ | l/h | 133 | 200 | 287 | 304 | 368 | 435 |
| | l/s | 0,037 | 0,055 | 0,08 | 0,085 | 0,102 | 0,121 |
| Water pressure drops in heating ⁽³⁾ | kPa | 0,5 | 1,2 | 2,8 | 3,3 | 5,7 | 7 |
| | mWG | 0,05 | 0,12 | 0,28 | 0,33 | 0,57 | 0,7 |
| Air flow ⁽⁴⁾ | m³/h | 216 | 275 | 384 | 430 | 546 | 651 |
| | m³/s | 0,06 | 0,076 | 0,107 | 0,119 | 0,152 | 0,181 |
| Fan speed ⁽⁴⁾ | rpm | 720 | 685 | 615 | 700 | 665 | 805 |
| Sound power level ⁽⁵⁾ | dB(A) | 45 | 47 | 44 | 48 | 46 | 53 |
| Motor electrical power ⁽⁶⁾ | W | 38 | 54 | 60 | 61 | 99 | 99 |
| Motor electrical input ⁽⁶⁾ | A | 0,18 | 0,25 | 0,28 | | 0,45 | |
| Electrical supply | V/Ph/Hz | 230/1/50 | | | | | |

Above mentioned technical data are calculated at the following operating conditions:

- Maximum fan speed (maximum speed predetermined in the factory among the available speeds: 6 for HC 70, 80, 90 and 5 for HC100, 120)
 - Standard unit without ducts (fancoil operating without external back pressure)
- (1) Cooling: entering water temperature 7°C, leaving water temperature 12°C, entering air temperature 27°C W.B.; 19°C D.B.
(2) Heating: entering water temperature 70°C, leaving water temperature 60°C, entering air temperature 20°C
(3) Heating: entering water temperature 50°C, same water flow as in cooling, entering air temperature 20°C
(4) Air flow and fan speed: fancoil performances with cleaned filter
(5) Sound power level: sound power measured following ISO 23741
(6) Electrical data referred to the maximum available speed

SIZES 10 TO 60 - 4 PIPES SYSTEM

CORRECTION COEFFICIENT FOR DIFFERENT AVAILABLE SPEEDS

| COMFAIR | HC | 10 | 20 | 30 | 40 | 50 | 60 |
|---------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total cooling capacity | 1 | 0,73 | 0,78 | 0,6 | 0,52 | 0,71 min | 0,63 |
| | 2 | 0,77 min | 0,84 min | 0,67 min | 0,60 min | 0,8 | 0,71 min |
| | 3 | 0,84 | 0,92 med | 0,89 med | 0,80 med | 0,90 med | 0,8 |
| | 4 | 0,92 med | 1,00 max | 1,00 max | 0,9 | 1,00 max | 0,88 med |
| | 5 | 1,00 max | 1,1 | 1,11 | 1,00 max | 1,12 | 1,00 max |
| | 6 | 1,08 | 1,32 | 1,23 | 1,12 | 1,26 | 1,13 |
| Sensible cooling capacity | 1 | 0,65 | 0,72 | 0,6 | 0,53 | 0,69 min | 0,6 |
| | 2 | 0,69 min | 0,79 min | 0,68 min | 0,60 min | 0,78 | 0,69 min |
| | 3 | 0,78 | 0,88 med | 0,89 med | 0,79 med | 0,89 med | 0,78 |
| | 4 | 0,88 med | 1,00 max | 1,00 max | 0,89 | 1,00 max | 0,87 med |
| | 5 | 1,00 max | 1,14 | 1,11 | 1,00 max | 1,14 | 1,00 max |
| | 6 | 1,13 | 1,35 | 1,24 | 1,13 | 1,29 | 1,14 |
| Heating capacity | 1 | 0,64 | 0,71 | 0,63 | 0,56 | 0,70 min | 0,62 |
| | 2 | 0,68 min | 0,78 min | 0,72 min | 0,64 min | 0,79 | 0,70 min |
| | 3 | 0,78 | 0,88 med | 0,90 med | 0,81 med | 0,89 med | 0,79 |
| | 4 | 0,88 med | 1,00 max | 1,00 max | 0,9 | 1,00 max | 0,88 med |
| | 5 | 1,00 max | 1,12 | 1,08 | 1,00 max | 1,1 | 1,00 max |
| | 6 | 1,25 | 1,22 | 1,17 | 1,1 | 1,21 | 1,1 |
| Air flow | 1 | 0,54 | 0,64 | 0,56 | 0,5 | 0,63 min | 0,54 |
| | 2 | 0,60 min | 0,72 min | 0,67 min | 0,58 min | 0,73 | 0,63 min |
| | 3 | 0,7 | 0,84 med | 0,87 med | 0,76 med | 0,86 med | 0,73 |
| | 4 | 0,83 med | 1,00 max | 1,00 max | 0,88 | 1,00 max | 0,84 med |
| | 5 | 1,00 max | 1,21 | 1,14 | 1,00 max | 1,19 | 1,00 max |
| | 6 | 1,22 | 1,42 | 1,32 | 1,17 | 1,41 | 1,19 |

Data indicated as min., med., max. concern the 3 standard speeds set at the factory. Upon customer request other 3 speeds among the 6 speeds available can be connected.

SIZES 70 TO 120 - 4 PIPES SYSTEM

| COMFAIR | HC | 70 | 80 | 90 | 100 | 110 | 120 |
|--|-----------|-----------|-----------|-----------|------------|------------|------------|
| Total cooling capacity ⁽¹⁾ | W | 4470 | 5333 | 6569 | 7714 | 9703 | 10656 |
| | Frig/h | 3854 | 4597 | 5663 | 6650 | 8365 | 9186 |
| Sensible cooling capacity ⁽¹⁾ | W | 3345 | 4323 | 5257 | 5863 | 7665 | 8205 |
| | Frig/h | 2884 | 3727 | 4532 | 5054 | 6608 | 7073 |
| Heating capacity ⁽²⁾ | W | 5044 | 6193 | 7665 | 8388 | 10111 | 11433 |
| | kcal/h | 4348 | 5339 | 6608 | 7231 | 8716 | 9856 |
| Water flow in cooling ⁽¹⁾ | l/h | 771 | 919 | 1133 | 1330 | 1673 | 1837 |
| | l/s | 0,214 | 0,255 | 0,315 | 0,369 | 0,465 | 0,51 |
| Water flow in heating ⁽²⁾ | l/h | 435 | 534 | 661 | 739 | 891 | 1088 |
| | l/s | 0,121 | 0,148 | 0,184 | 0,205 | 0,248 | 0,28 |
| Water pressure drops in cooling ⁽¹⁾ | kPa | 50 | 24 | 38 | 24,9 | 21,7 | 25,1 |
| | mWG | 5 | 2,4 | 3,8 | 2,49 | 2,17 | 2,51 |
| Water pressure drops in heating ⁽²⁾ | kPa | 7,5 | 13,9 | 21,7 | 48,4 | 27 | 34 |
| | mWG | 0,75 | 1,39 | 2,17 | 4,84 | 2,7 | 3,4 |
| Heating capacity ⁽³⁾ | W | 3082 | 3785 | 4684 | 5126 | 6179 | 6987 |
| | kcal/h | 2657 | 3263 | 4038 | 4419 | 5326 | 6023 |
| Water flow ⁽³⁾ | l/h | 531 | 653 | 808 | 895 | 1078 | 1219 |
| | l/s | 0,148 | 0,181 | 0,224 | 0,248 | 0,3 | 0,339 |
| Water pressure drops in heating ⁽³⁾ | kPa | 12,5 | 23,2 | 36,2 | 80,2 | 44,7 | 56,3 |
| | mWG | 1,25 | 2,32 | 3,62 | 8,02 | 4,47 | 5,63 |
| Air flow ⁽⁴⁾ | m³/h | 673 | 1005 | 1180 | 1291 | 1916 | 1908 |
| | m³/s | 0,187 | 0,279 | 0,328 | 0,359 | 0,532 | 0,53 |
| Fan speed ⁽⁴⁾ | rpm | 730 | 917 | 1070 | 855 | 815 | 1045 |
| Sound power level ⁽⁵⁾ | dB(A) | 53 | 59 | 65 | 63 | 67 | 67 |
| Motor electrical power ⁽⁶⁾ | W | 97 | 210 | 207 | 213 | 277 | 273 |
| Motor electrical input ⁽⁶⁾ | A | 0,44 | 0,96 | 0,95 | 0,97 | 1,27 | 1,25 |
| Electrical supply | V/Ph/Hz | | | | 230/1/50 | | |

Above mentioned technical data are calculated at the following operating conditions:

- Maximum fan speed (maximum speed predetermined in the factory among the available speeds: 6 for HC 70, 80, 90 and 5 for HC100, 120)
 - Standard unit without ducts (fancoil operating without external back pressure)
- (1) Cooling: entering water temperature 7°C, leaving water temperature 12°C, entering air temperature 27°C W.B.; 19°C D.B.
(2) Heating: entering water temperature 70°C, leaving water temperature 60°C, entering air temperature 20°C
(3) Heating: entering water temperature 50°C, same water flow as in cooling, entering air temperature 20°C
(4) Air flow and fan speed: fancoil performances with cleaned filter
(5) Sound power level: sound power measured following ISO 23741
(6) Electrical data referred to the maximum available speed

SIZES 70 TO 120 - 4 PIPES SYSTEM

CORRECTION COEFFICIENT FOR DIFFERENT AVAILABLE SPEEDS

| COMFAIR | HC | 70 | 80 | 90 | 100 | 110 | 120 |
|---------------------------|-----------|-----------|-----------|-----------|------------|------------|------------|
| Total cooling capacity | 1 | 0,56 | 0,80 min | 0,70 min | 0,72 | 0,55 | 0,56 |
| | 2 | 0,65 | 0,93 med | 0,8 | 0,78 min | 0,60 min | 0,62 min |
| | 3 | 0,75 min | 1,00 max | 0,86 med | 0,85 med | 0,77 med | 0,79 |
| | 4 | 0,86 med | 1,09 | 0,93 | 0,93 | 0,85 | 0,85 med |
| | 5 | 1,00 max | 1,17 | 1,00 max | 1,00 max | 1,00 max | 1,00 max |
| | 6 | 1,16 | 1,28 | 1,09 | 1,08 | - | - |
| Sensible cooling capacity | 1 | 0,54 | 0,79 min | 0,68 min | 0,7 | 0,52 | 0,53 |
| | 2 | 0,63 | 0,91 med | 0,78 | 0,76 min | 0,57 min | 0,60 min |
| | 3 | 0,73 min | 1,00 max | 0,85 med | 0,84 med | 0,75 med | 0,77 |
| | 4 | 0,85 med | 1,09 | 0,92 | 0,92 | 0,84 | 0,84 med |
| | 5 | 1,00 max | 1,18 | 1,00 max | 1,00 max | 1,00 max | 1,00 max |
| | 6 | 1,17 | 1,3 | 1,09 | 1,08 | - | - |
| Heating capacity | 1 | 0,54 | 0,80 min | 0,69 min | 0,77 | 0,62 | 0,63 |
| | 2 | 0,63 | 0,92 med | 0,8 | 0,82 min | 0,67 min | 0,69 min |
| | 3 | 0,74 min | 1,00 max | 0,86 med | 0,88 med | 0,81 med | 0,82 |
| | 4 | 0,85 med | 1,07 | 0,93 | 0,94 | 0,87 | 0,88 med |
| | 5 | 1,00 max | 1,13 | 1,00 max | 1,00 max | 1,00 max | 1,00 max |
| | 6 | 1,13 | 1,22 | 1,07 | 1,06 | - | - |
| Air flow | 1 | 0,5 | 0,74 min | 0,62 min | 0,65 | 0,44 | 0,46 |
| | 2 | 0,58 | 0,90 med | 0,74 | 0,71 min | 0,49 min | 0,53 min |
| | 3 | 0,69 min | 1,00 max | 0,82 med | 0,81 med | 0,68 med | 0,71 |
| | 4 | 0,82 med | 1,13 | 0,91 | 0,9 | 0,78 | 0,79 med |
| | 5 | 1,00 max | 1,25 | 1,00 max | 1,00 max | 1,00 max | 1,00 max |
| | 6 | 1,22 | 1,43 | 1,14 | 1,11 | - | - |

Data indicated as min., med., max. concern the 3 standard speeds set at the factory. Upon customer request other 3 speeds among the 6 speeds available can be connected.

WORKING LIMITS - HC



Maximum entering water temperature: 80°C
 Minimum entering water temperature: +4°C
 Maximum working pressure: 8 Bar

Maximum entering air temperature: 32°C
 Minimum entering air temperature: +4°C

WATER FLOW AND PRESSURE DROP LIMITS, 3R COIL

| COMFAIR | HC | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
|------------------------------|-----|------|------|------|------|------|------|-----|------|------|------|------|------|
| Minimal water flow | l/h | 125 | | 100 | | | | 75 | 125 | | 200 | | 275 |
| Minimal water pressure drops | kPa | 0,6 | 0,4 | 0,5 | | 0,6 | | | 0,5 | | 0,6 | 0,5 | 0,6 |
| Maximal water flow | l/h | 1275 | 1200 | 1125 | 1150 | 1025 | 1000 | 850 | 1400 | | 2075 | 2900 | 2850 |
| Maximal water pressure drops | kPa | 58,6 | 59,5 | 59,6 | 61,2 | 59,2 | 59 | 62 | 59,1 | 60,1 | 60,6 | 60,6 | 60,4 |

Data given for medium water temperature at 9,5°C

WATER FLOW AND PRESSURE DROP LIMITS, AUXILIARY 1 ROW COIL

| COMFAIR | HC | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
|------------------------------|-----|------|------|------|------|------|------|------|------|-----|------|------|------|
| Minimal water flow | l/h | 150 | | 125 | | | | 100 | | 125 | | | |
| Minimal water pressure drops | kPa | 0,6 | | 0,5 | | 0,6 | 0,5 | | 0,6 | | 0,5 | | |
| Maximal water flow | l/h | 1550 | 1500 | 1400 | 1375 | 1275 | 1350 | 1225 | 1100 | | 1375 | | 1325 |
| Maximal water pressure drops | kPa | 60,7 | 59,3 | 60,3 | | 61 | | 60,4 | 59,5 | 59 | 60,1 | 59,6 | 58,8 |

Data given for medium water temperature at 65°C

3 WAYS VALVE

Using of 2 or 3 ways valves is compulsory when the unit is used for cooling to avoid condensate in the external structure (bearing structure and cabinet). As alternative install a regulating system to stop coil water entering when the fan is off.

MAXIMUM FAN STATIC PRESSURE

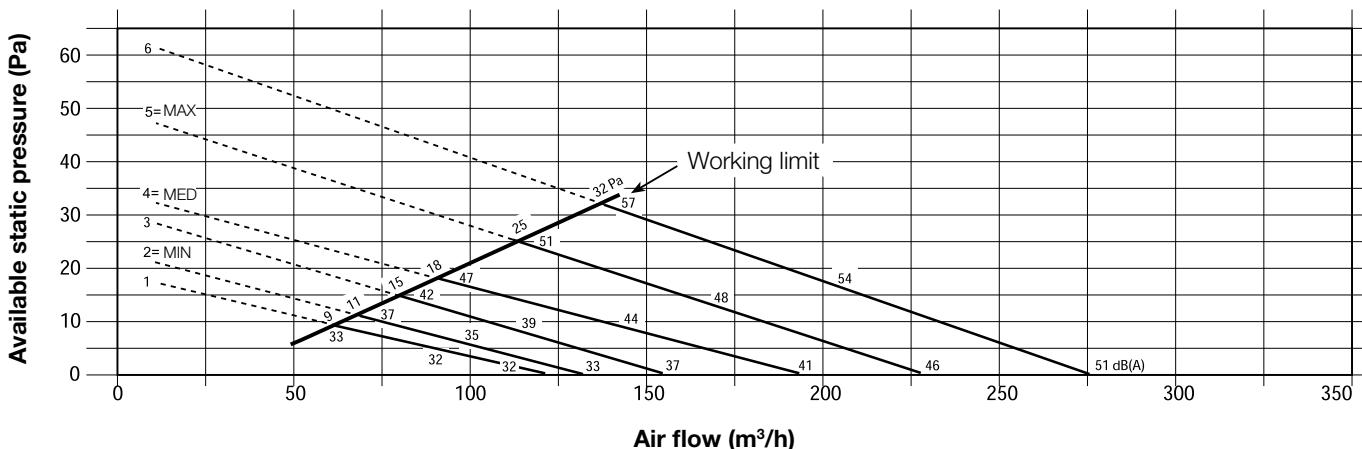
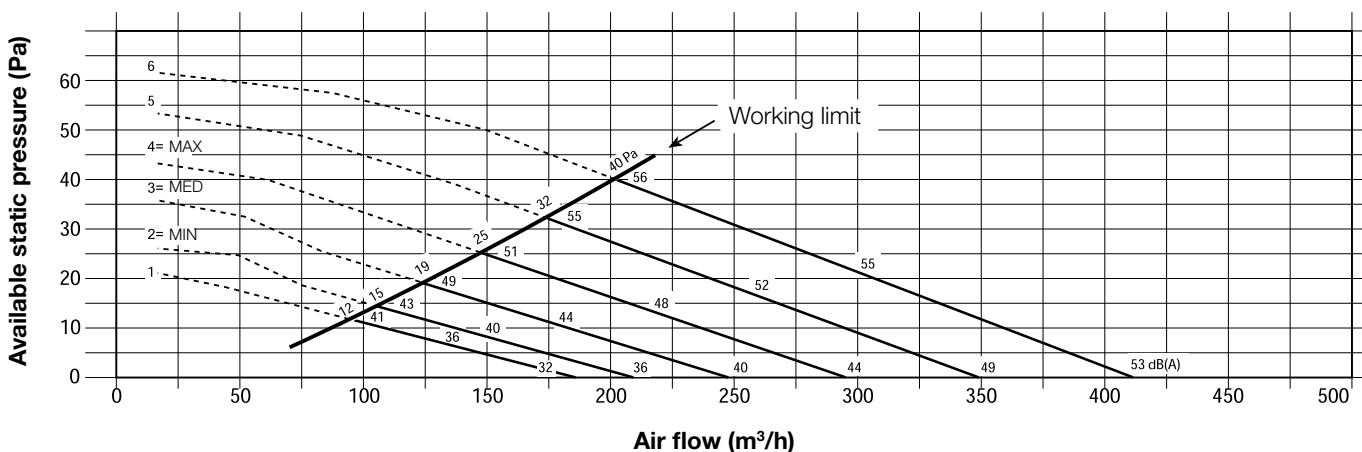
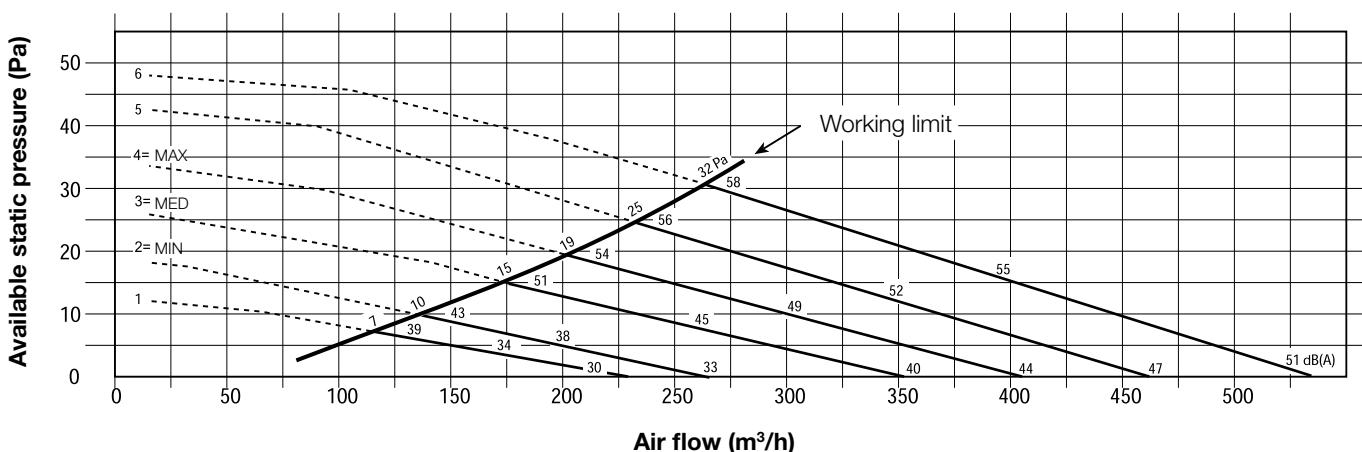
When the units is connected with ducts fan air flow is reduced due to the ducting pressure drops.

With very high pressure drops fancoil air flow becomes too low and electric motor which is connected to the fan can be damaged. For this reason we recommand static pressures lower than the maximum limit static pressures indicated in the schedule.

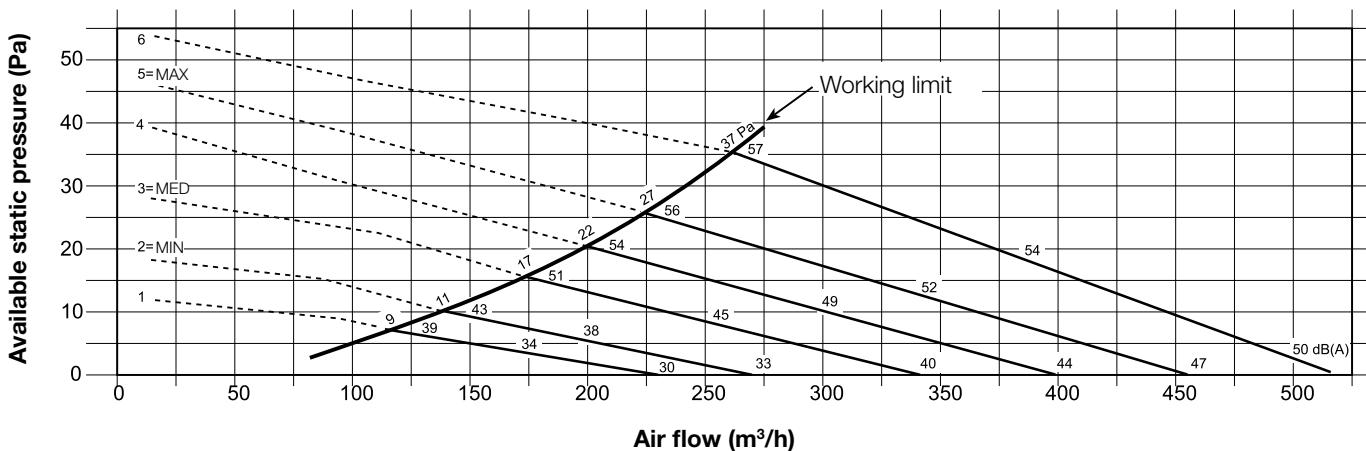
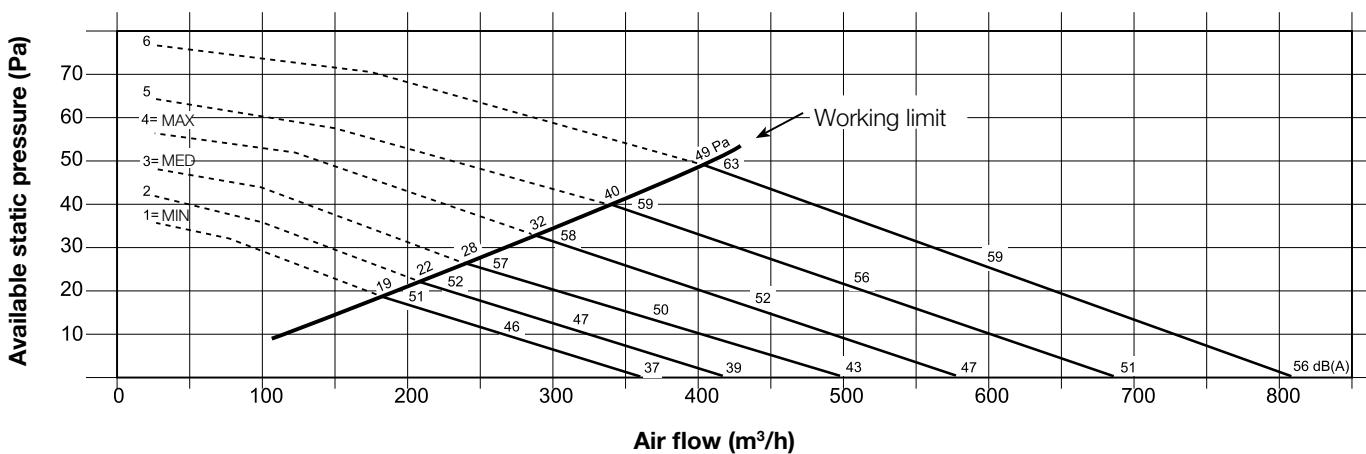
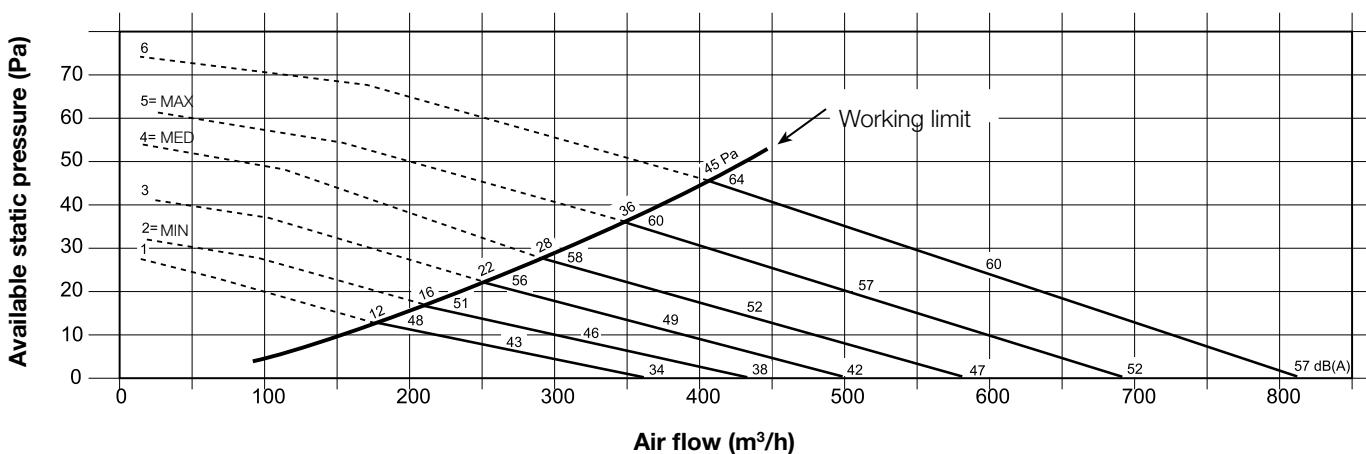
NOTE: When the fancoil is operating with the maximum operating indicated static pressure value, air flow is half in comparison with the unit without ducts at the same working speed. Definitively the static pressure limit corresponds to the back pressure ables to half fancoil air flow (as a consequence the fancoil unit performances like heating & cooling capacity, will be reduced of about 50%).

| COMFAIR | HC | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | |
|----------------|----|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2 pipes system | 1 | Pa | 9 | 12 | 7 | 9 | 19 min | 12 | 15 | 41 min | 33 min | 44 | 37 | 47 |
| | 2 | Pa | 11 min | 15 min | 10 min | 11 min | 22 | 16 min | 19 | 51 med | 41 | 49 mni | 47 min | 58 min |
| | 3 | Pa | 15 | 19 med | 15 med | 17 med | 28 med | 22 | 26 min | 55 max | 45 med | 62 med | 68 med | 74 |
| | 4 | Pa | 18 med | 25 max | 19 max | 22 | 32 max | 28 med | 34 med | 60 | 49 | 68 | 79 | 80 med |
| | 5 | Pa | 25 max | 32 | 25 | 27 max | 40 | 36 max | 44 max | 65 | 53 max | 78 max | 84 max | 84 max |
| | 6 | Pa | 32 | 40 | 32 | 37 | 49 | 45 | 54 | 70 | 60 | 84 | - | - |
| 4 pipes system | 1 | Pa | 8 | 10 | 6 | 8 | 14 min | 10 | 11 | 30 min | 27 min | 43 | 37 | 47 |
| | 2 | Pa | 9 min | 12 min | 8 min | 9 min | 17 | 13 min | 15 | 38 med | 33 | 48 min | 47 min | 58 min |
| | 3 | Pa | 11 | 15 med | 13 med | 14 med | 21 med | 18 | 20 min | 42 max | 37 med | 61 med | 67 med | 73 |
| | 4 | Pa | 15 med | 19 max | 15 max | 17 | 25 max | 22 med | 28 med | 50 | 40 | 67 | 75 | 79 med |
| | 5 | Pa | 19 max | 25 | 19 | 22 max | 32 | 28 max | 36 max | 55 | 44 max | 74 max | 83 max | 85 max |
| | 6 | Pa | 25 | 32 | 24 | 30 | 38 | 35 | 44 | 60 | 51 | 82 | - | - |

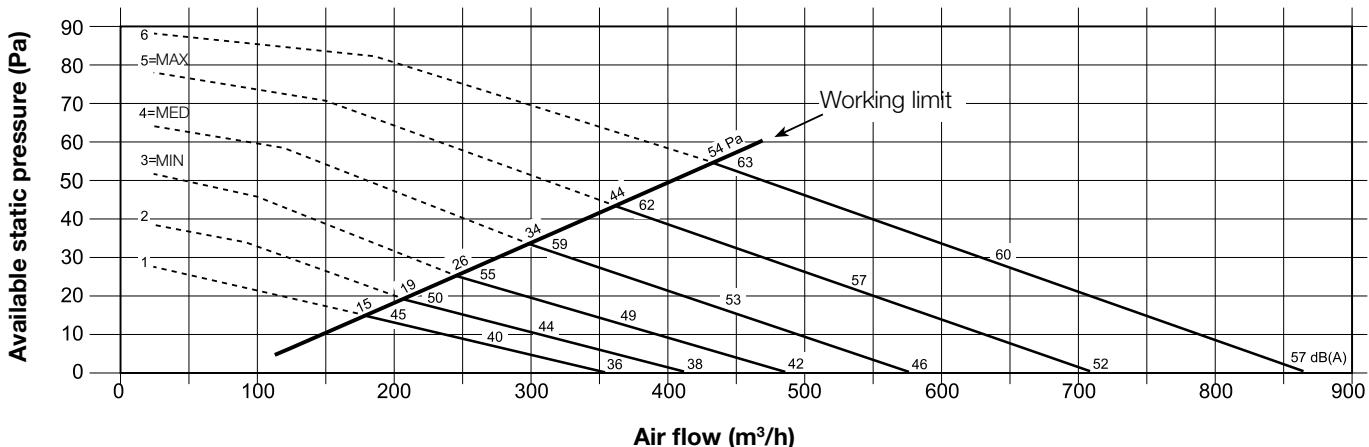
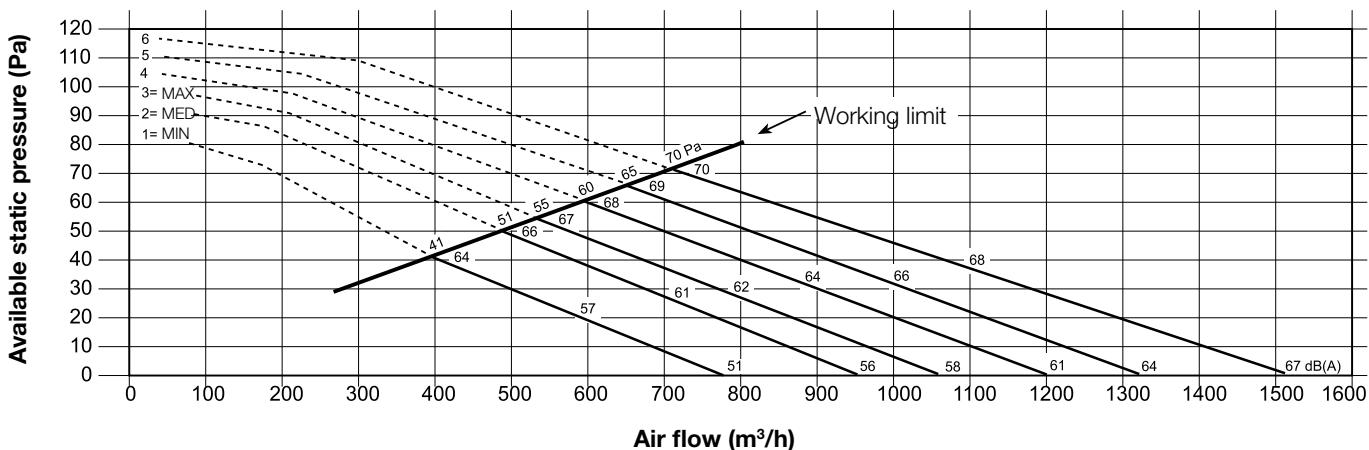
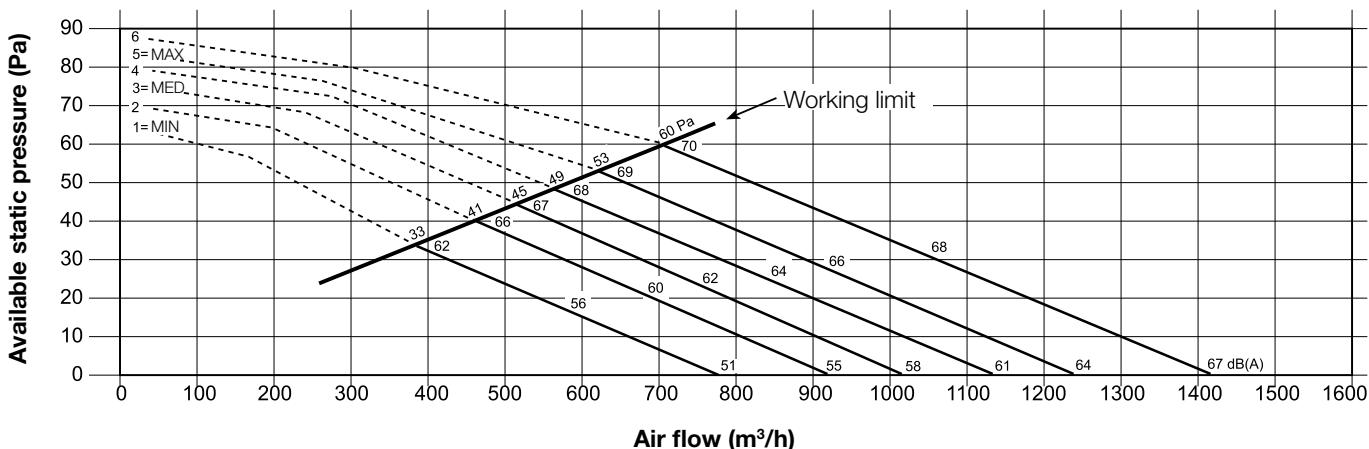
Data indicated as min., med., max. concern the 3 standard speeds set at the factory. Upon customer request other 3 speeds among the 6 speeds available can be connected.

HC 1 - 2 PIPES SYSTEM (3 ROW COIL DATA)

HC 2 - 2 PIPES SYSTEM (3 ROW COIL DATA)

HC 3 - 2 PIPES SYSTEM (3 ROW COIL DATA)


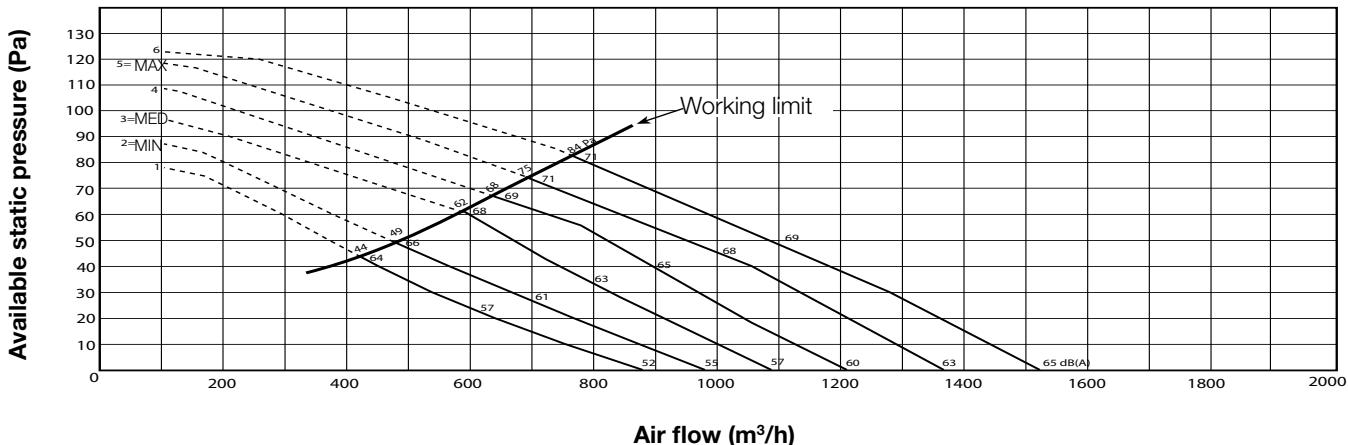
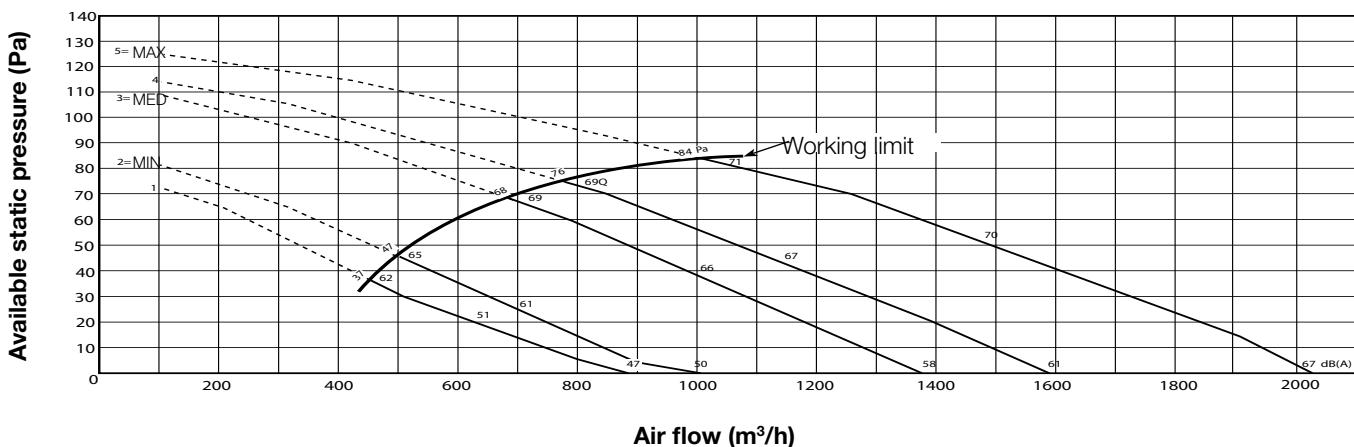
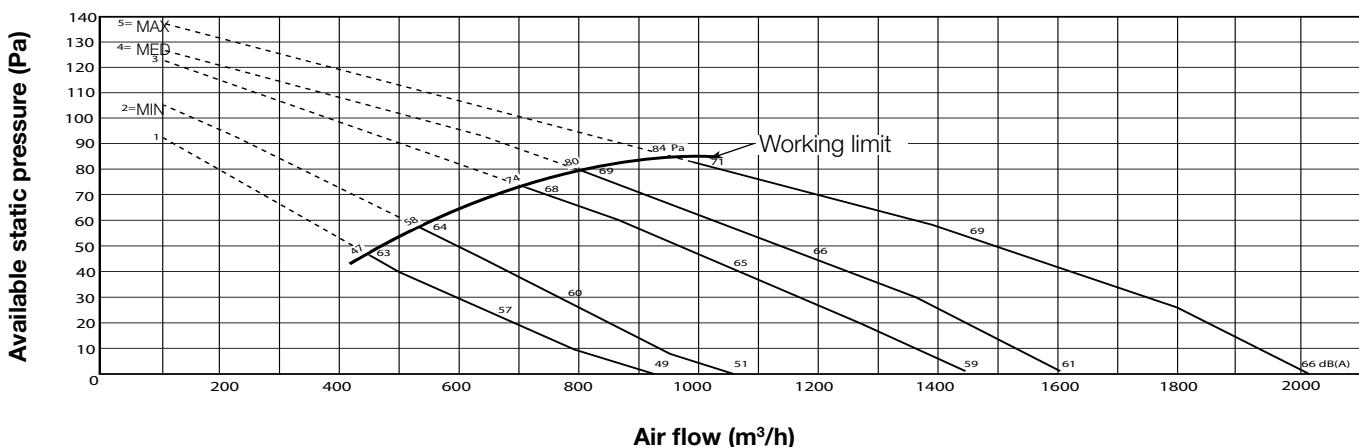
Data indicated as min., med., max. concern the 3 standard speeds set at the factory. Upon customer request other 3 speeds among the 6 speeds available can be connected.

HC 4 - 2 PIPES SYSTEM (3 ROW COIL DATA)

HC 5 - 2 PIPES SYSTEM (3 ROW COIL DATA)

HC 6 - 2 PIPES SYSTEM (3 ROW COIL DATA)


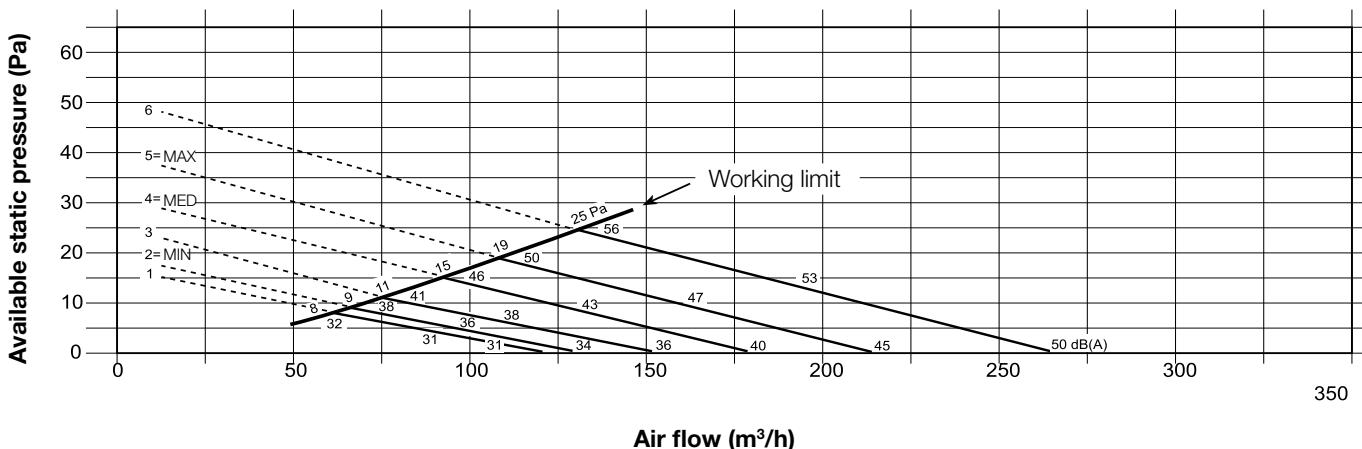
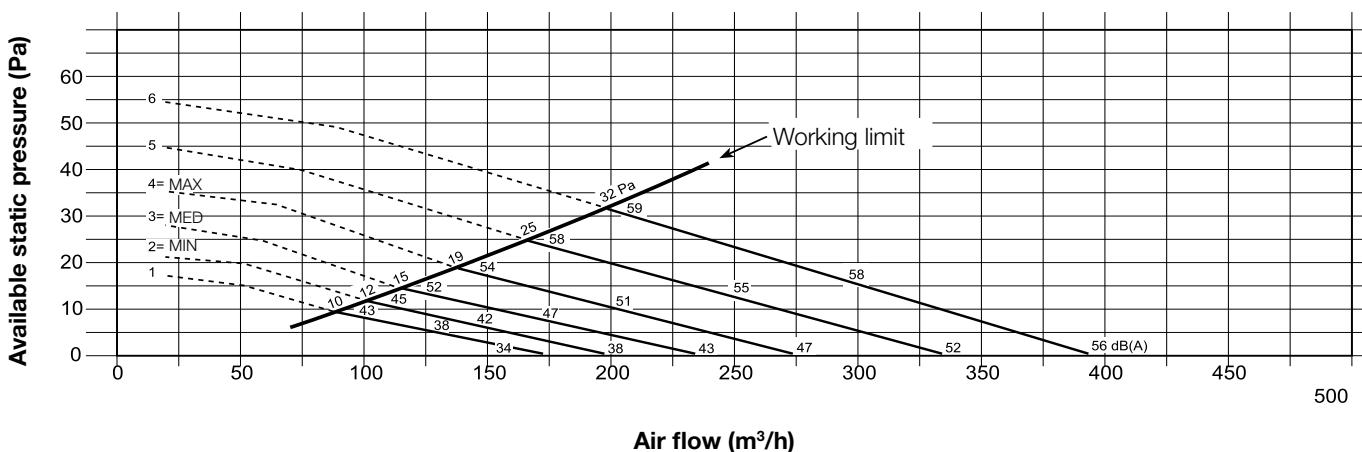
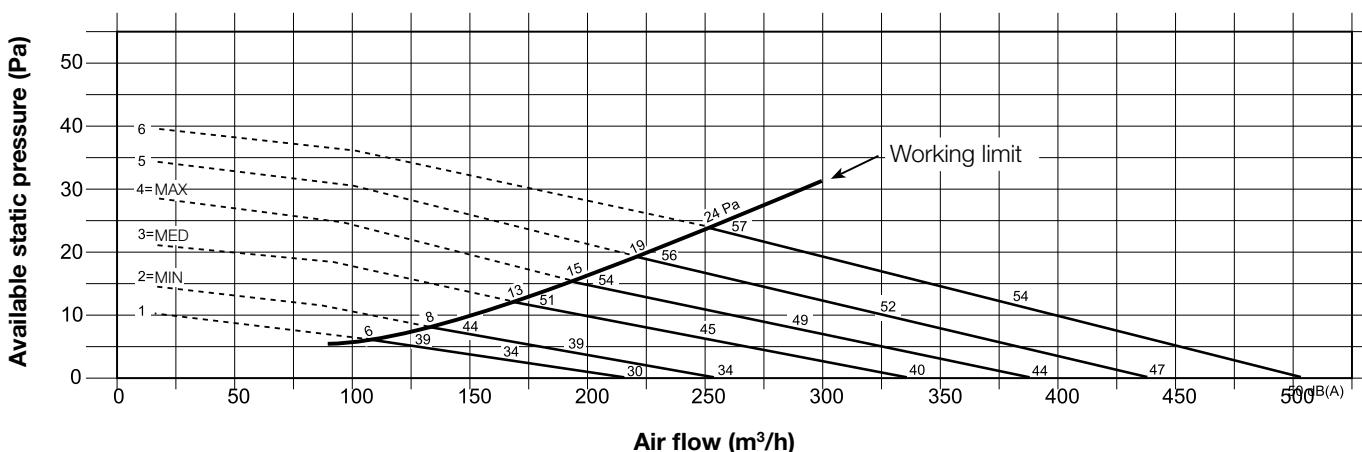
Data indicated as min., med., max. concern the 3 standard speeds set at the factory. Upon customer request other 3 speeds among the 6 speeds available can be connected.

HC 7 - 2 PIPES SYSTEM (3 ROW COIL DATA)

HC 8 - 2 PIPES SYSTEM (3 ROW COIL DATA)

HC 9 - 2 PIPES SYSTEM (3 ROW COIL DATA)


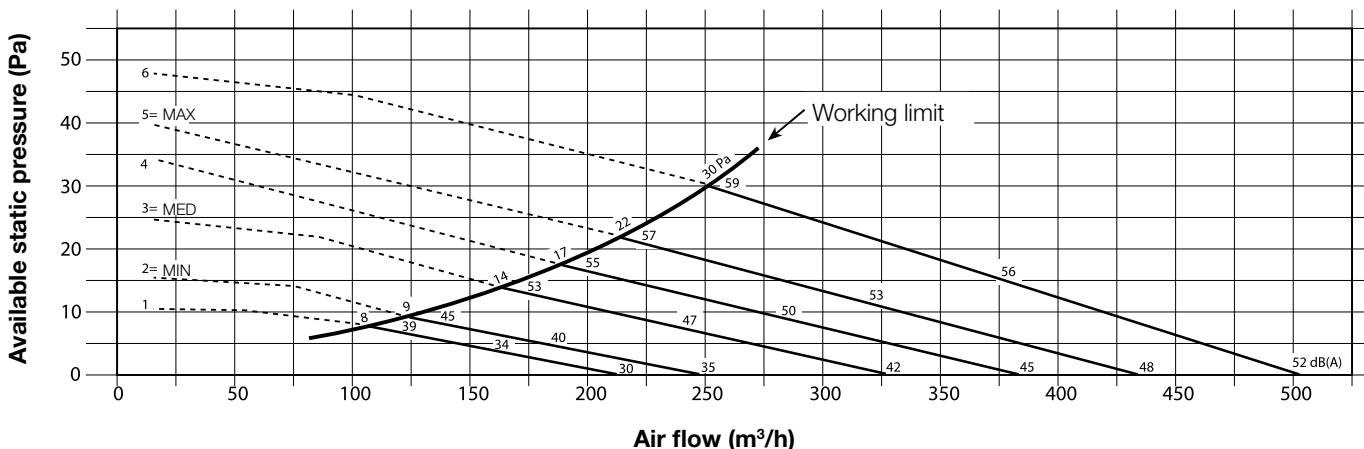
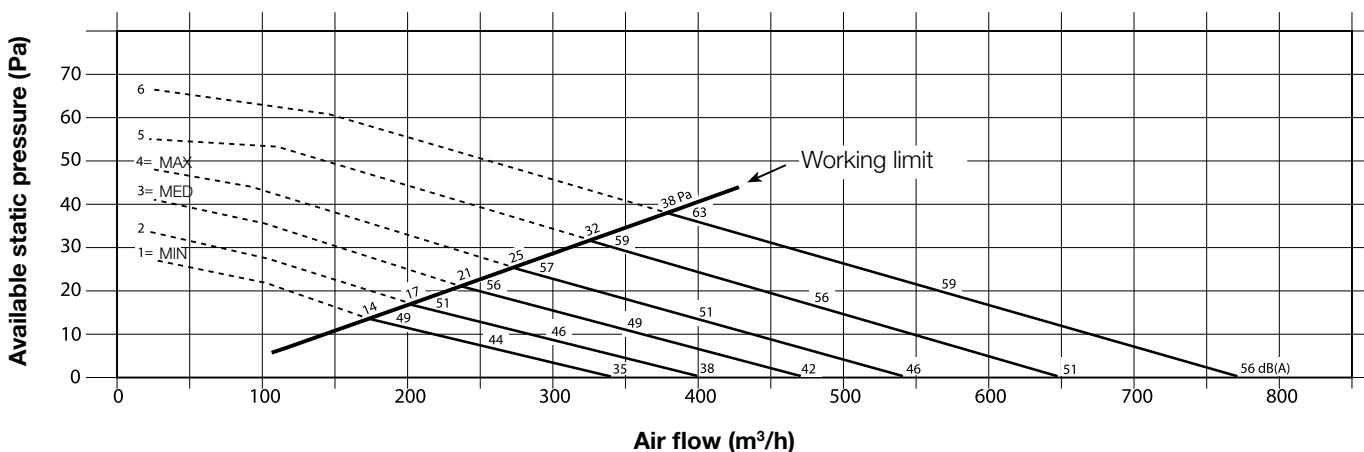
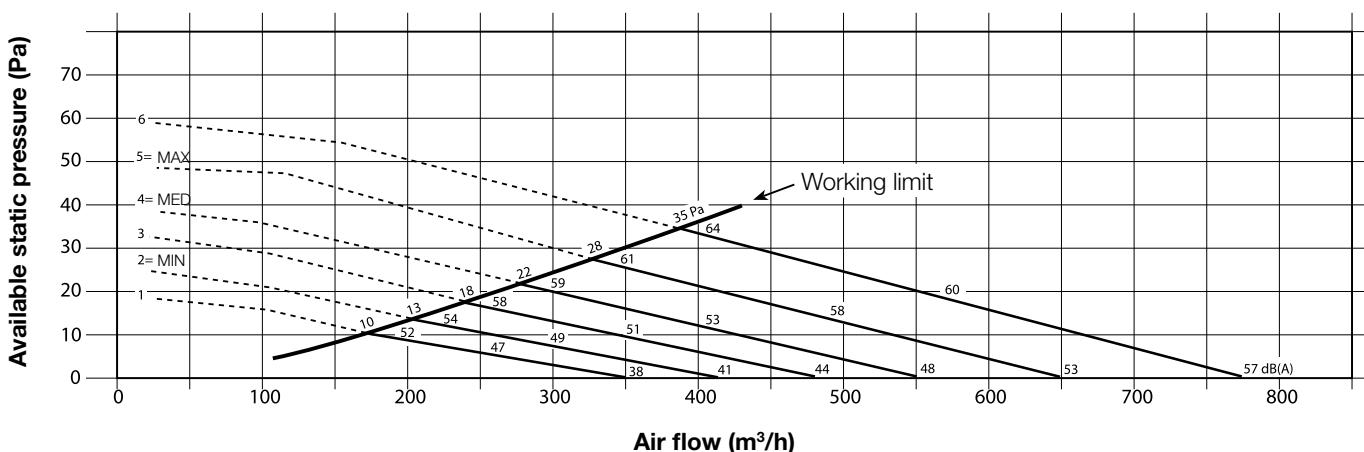
Data indicated as min., med., max. concern the 3 standard speeds set at the factory. Upon customer request other 3 speeds among the 6 speeds available can be connected.

HC 10_ - 2 PIPES SYSTEM (3 ROW COIL DATA)

HC 11_ - 2 PIPES SYSTEM (3 ROW COIL DATA)

HC 12_ - 2 PIPES SYSTEM (3 ROW COIL DATA)


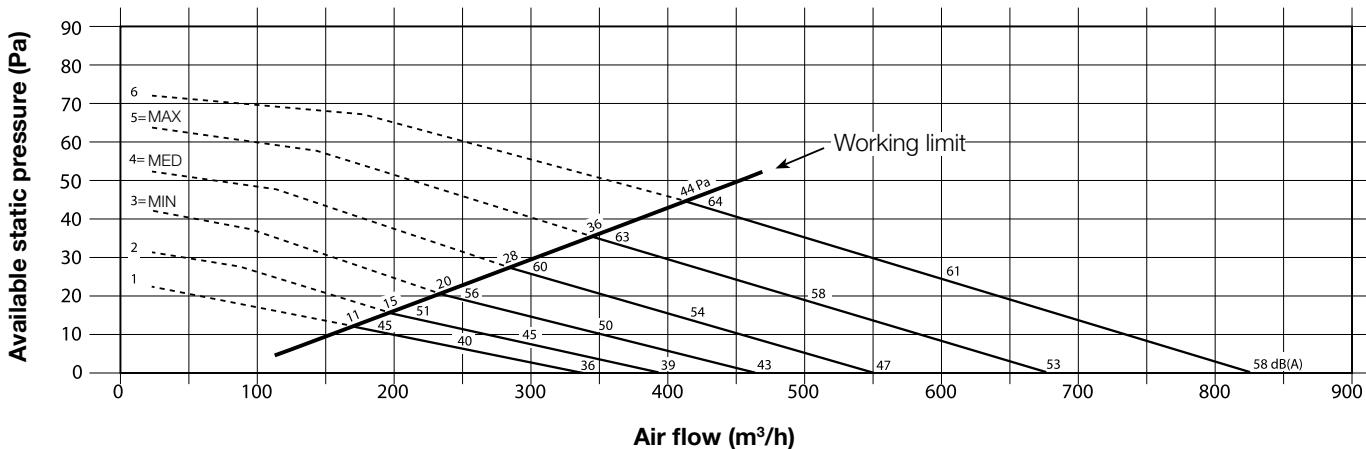
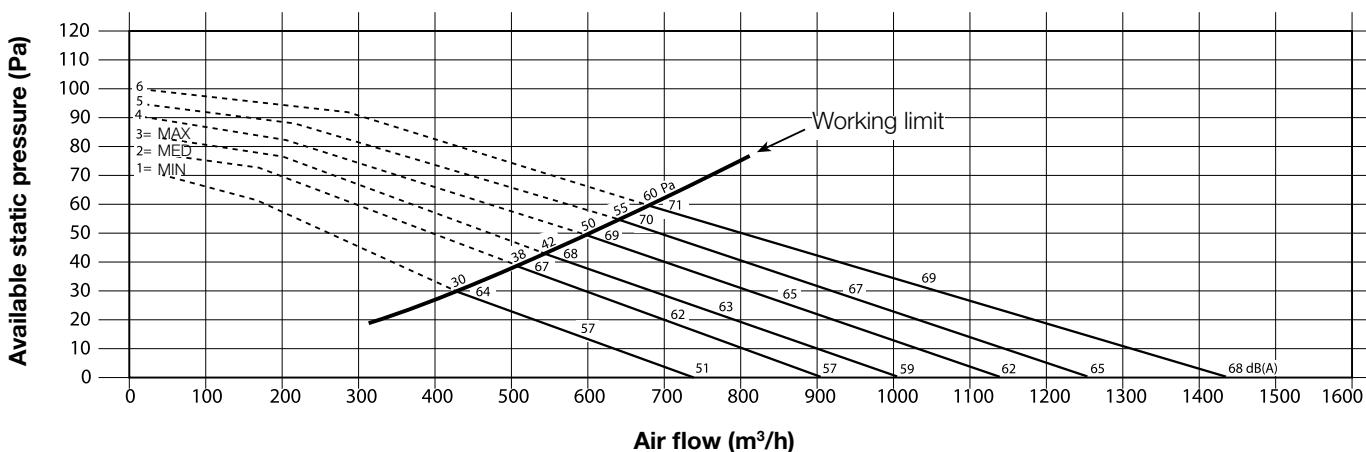
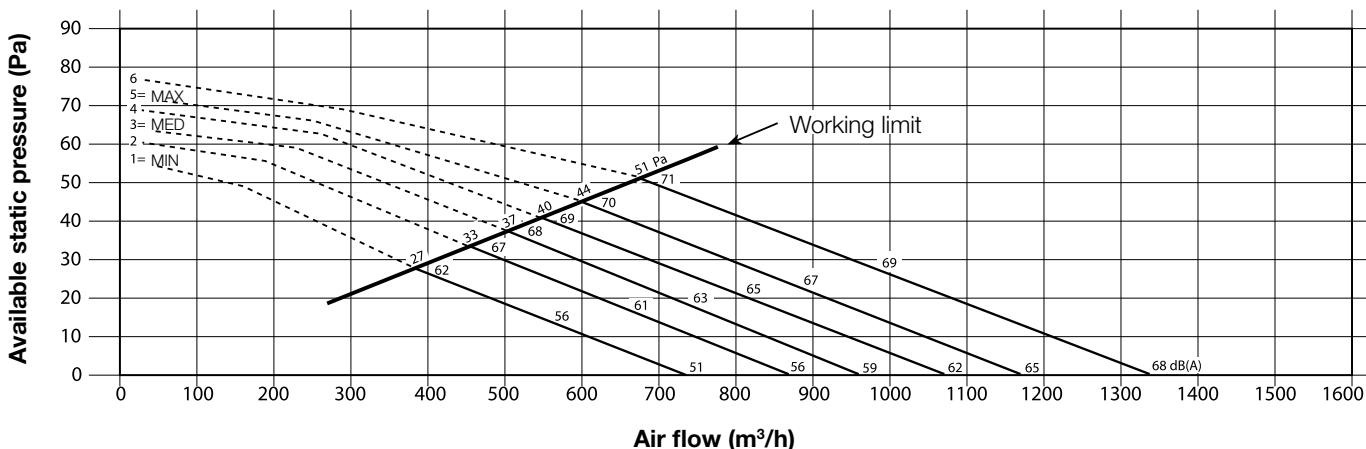
Data indicated as min., med., max. concern the 3 standard speeds set at the factory. Upon customer request other 3 speeds among the 6 speeds available can be connected.

HC 1 - 4 PIPES SYSTEM (3 ROW + 1 ROW COIL DATA)

HC 2 - 4 PIPES SYSTEM (3 ROW + 1 ROW COIL DATA)

HC 3 - 4 PIPES SYSTEM (3 ROW + 1 ROW COIL DATA)


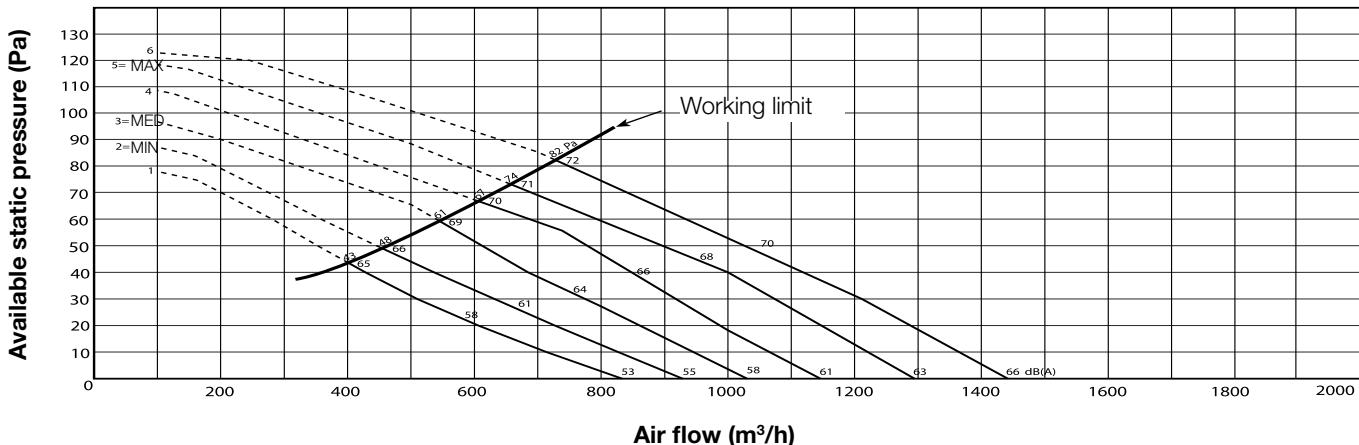
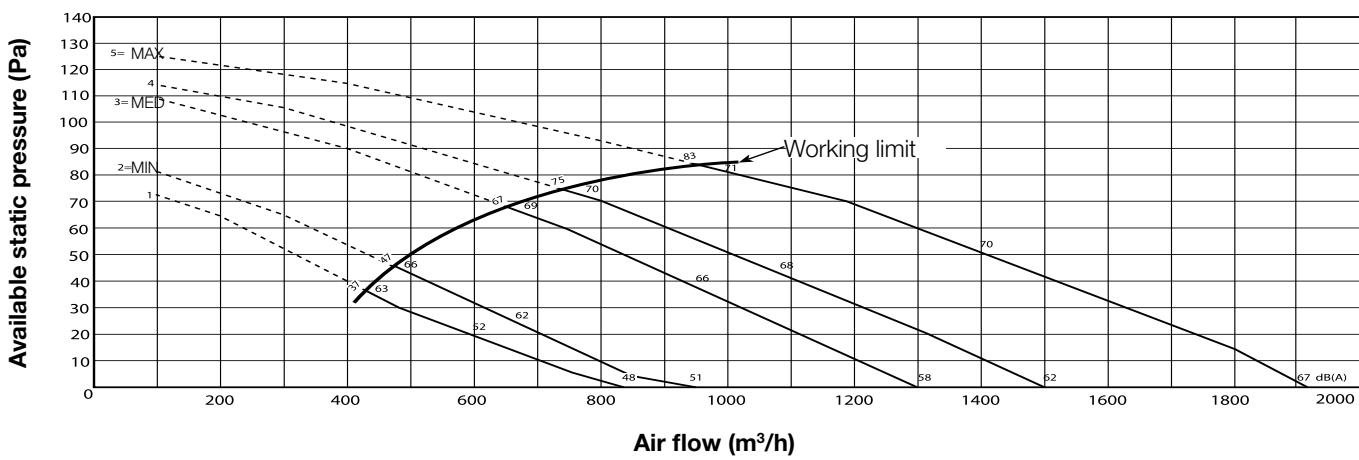
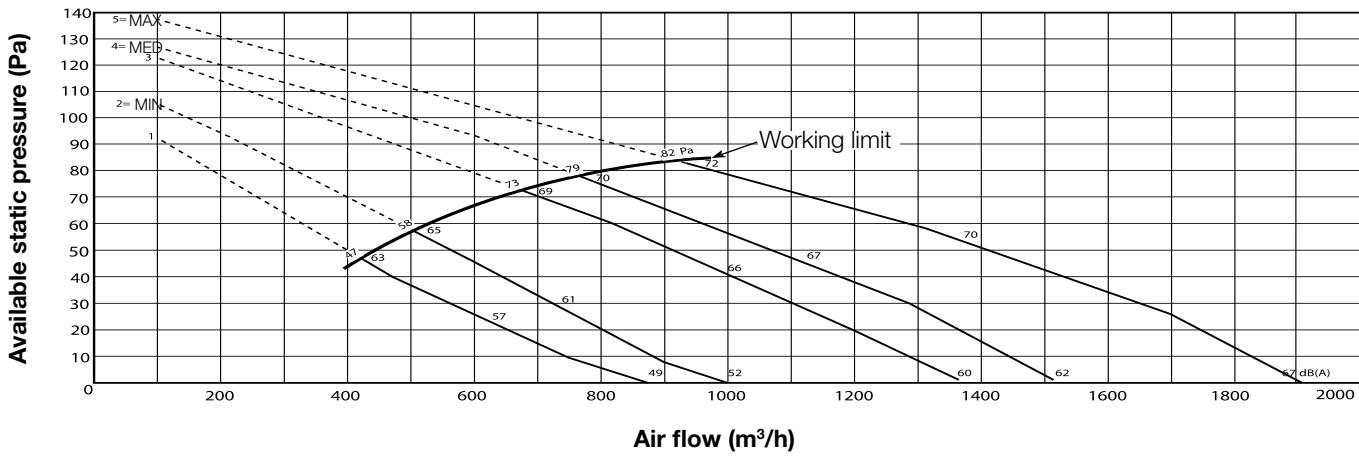
Data indicated as min., med., max. concern the 3 standard speeds set at the factory. Upon customer request other 3 speeds among the 6 speeds available can be connected.

HC 4 - 4 PIPES SYSTEM (3 ROW + 1 ROW COIL DATA)**HC 5 - 4 PIPES SYSTEM (3 ROW + 1 ROW COIL DATA)****HC 6 - 4 PIPES SYSTEM (3 ROW + 1 ROW COIL DATA)**

Data indicated as min., med., max. concern the 3 standard speeds set at the factory. Upon customer request other 3 speeds among the 6 speeds available can be connected.

HC 7 - 4 PIPES SYSTEM (3 ROW + 1 ROW COIL DATA)

HC 8 - 4 PIPES SYSTEM (3 ROW + 1 ROW COIL DATA)

HC 9 - 4 PIPES SYSTEM (3 ROW + 1 ROW COIL DATA)


Data indicated as min., med., max. concern the 3 standard speeds set at the factory. Upon customer request other 3 speeds among the 6 speeds available can be connected.

HC 10_ - 4 PIPES SYSTEM (3 ROW + 1 ROW COIL DATA)

HC 11_ - 4 PIPES SYSTEM (3 ROW + 1 ROW COIL DATA)

HC 12_ - 4 PIPES SYSTEM (3 ROW + 1 ROW COIL DATA)


Data indicated as min., med., max. concern the 3 standard speeds set at the factory. Upon customer request other 3 speeds among the 6 speeds available can be connected.

2 PIPES SYSTEM

| COMFAIR | Speeds | Std Electric wiring (*) | Frequency spectrum - Ref. octave band (Hz) | | | | | | | Total sound power (dB(A)) |
|---------|--------|-------------------------|--|------|------|------|------|------|------|---------------------------|
| | | | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | |
| HC 10 | 1 | | 33,7 | 32,7 | 32,2 | 24 | 21,4 | 14,5 | 5,6 | 32 |
| | 2 | Min | 33 | 34,7 | 32,7 | 25,9 | 22,5 | 14,8 | 5,8 | 33 |
| | 3 | | 36 | 37,6 | 37,1 | 30,6 | 25 | 17,6 | 6,9 | 37 |
| | 4 | Med | 37,9 | 41 | 41 | 35,4 | 29,5 | 21,1 | 8,8 | 41 |
| | 5 | Max | 42,1 | 45,1 | 45,5 | 40,8 | 35,6 | 27,7 | 16,1 | 46 |
| | 6 | | 46,6 | 49,4 | 50,2 | 45,9 | 41,9 | 34,8 | 24,5 | 51 |
| HC 20 | 1 | | 29,2 | 34,8 | 31,9 | 23,5 | 19,6 | 14,7 | 10,1 | 32 |
| | 2 | Min | 33,1 | 37,8 | 36 | 28,8 | 23,7 | 17 | 11,5 | 36 |
| | 3 | Med | 36,9 | 40,9 | 40 | 33,6 | 28,5 | 20,9 | 13,7 | 40 |
| | 4 | Max | 40,2 | 43,9 | 43,9 | 38 | 33,5 | 25,2 | 16,9 | 44 |
| | 5 | | 44,7 | 48,3 | 48,7 | 43 | 39,8 | 32,2 | 25,2 | 49 |
| | 6 | | 48,8 | 51,9 | 51,9 | 46,9 | 45,6 | 37,7 | 29,9 | 53 |
| HC 30 | 1 | | 31,4 | 33,4 | 28,6 | 20,7 | 21,6 | 13,6 | 13 | 30 |
| | 2 | Min | 32,7 | 35,5 | 32,7 | 25 | 22,1 | 14 | 12,3 | 33 |
| | 3 | Med | 38,2 | 40,9 | 39,8 | 34,3 | 27,8 | 18,3 | 13,8 | 40 |
| | 4 | Max | 41,8 | 44,1 | 43,5 | 38,9 | 32,4 | 23,3 | 16,5 | 44 |
| | 5 | | 44,5 | 46,5 | 46,2 | 42,2 | 36 | 28,1 | 19,3 | 47 |
| | 6 | | 48,2 | 50,2 | 50,1 | 46,2 | 40,7 | 34 | 26,8 | 51 |
| HC 40 | 1 | | 31,4 | 33,4 | 28,6 | 20,7 | 21,6 | 13,6 | 13 | 30 |
| | 2 | Min | 32,7 | 35,5 | 32,7 | 25 | 22,1 | 14 | 12,3 | 33 |
| | 3 | Med | 38,2 | 40,9 | 39,8 | 34,3 | 27,8 | 18,3 | 13,8 | 40 |
| | 4 | | 41,8 | 44,1 | 43,5 | 38,9 | 32,4 | 23,3 | 16,5 | 44 |
| | 5 | Max | 44,5 | 46,5 | 46,2 | 42,2 | 36 | 28,1 | 19,3 | 47 |
| | 6 | | 48,2 | 50,2 | 50,1 | 46,2 | 40,7 | 34 | 26,8 | 50 |
| HC 50 | 1 | Min | 35,3 | 39,2 | 35,5 | 26,3 | 29,2 | 25,1 | 23,9 | 37 |
| | 2 | | 37,6 | 41 | 38,6 | 29,9 | 29,2 | 25 | 24,3 | 39 |
| | 3 | Med | 41,5 | 44,8 | 42,9 | 35,3 | 31,3 | 26 | 24,8 | 43 |
| | 4 | Max | 45,1 | 48 | 47 | 40,6 | 35,2 | 28 | 25,2 | 47 |
| | 5 | | 49 | 51,2 | 50,8 | 45,2 | 39,9 | 32,5 | 28,6 | 51 |
| | 6 | | 53,4 | 55,6 | 55,3 | 50,4 | 46,3 | 39,5 | 31,7 | 56 |
| HC 60 | 1 | | 32,3 | 36,2 | 32,5 | 23,3 | 26,2 | 22,1 | 20,9 | 34 |
| | 2 | Min | 36,6 | 40 | 37,6 | 28,9 | 28,2 | 24 | 23,3 | 38 |
| | 3 | | 40,5 | 43,8 | 41,9 | 34,3 | 30,3 | 25 | 23,8 | 42 |
| | 4 | Med | 45,1 | 48 | 47 | 40,6 | 35,2 | 28 | 25,2 | 47 |
| | 5 | Max | 50 | 52,2 | 51,8 | 46,2 | 40,9 | 33,5 | 29,6 | 52 |
| | 6 | | 54,4 | 56,6 | 56,3 | 51,4 | 47,3 | 40,5 | 32,7 | 57 |
| HC 70 | 1 | | 34,5 | 37,2 | 33,1 | 26,2 | 25,3 | 22,5 | 19,6 | 36 |
| | 2 | | 35,4 | 40,3 | 37,1 | 29,7 | 27,5 | 24,2 | 21,6 | 38 |
| | 3 | Min | 39,7 | 43,3 | 41,4 | 34,5 | 31,2 | 26,1 | 22,3 | 42 |
| | 4 | Med | 43,1 | 46,9 | 46 | 39,8 | 36,3 | 28,3 | 24,8 | 46 |
| | 5 | Max | 48,5 | 51,3 | 51,3 | 45,6 | 42,4 | 34,5 | 27 | 52 |
| | 6 | | 53,2 | 56,2 | 55,8 | 51,1 | 48,6 | 41,8 | 32,9 | 57 |
| HC 80 | 1 | Min | 47,6 | 50,7 | 50,3 | 45,1 | 41,8 | 36 | 29 | 51 |
| | 2 | Med | 52,3 | 55 | 55,2 | 50,2 | 47,3 | 41,9 | 34,3 | 56 |
| | 3 | Max | 53,9 | 56,9 | 56,8 | 52,3 | 49,7 | 44,6 | 37,5 | 58 |
| | 4 | | 56,3 | 59,7 | 59,5 | 55,4 | 53 | 48,4 | 42,2 | 61 |
| | 5 | | 59,5 | 62,6 | 62,1 | 58,3 | 56,1 | 51,8 | 46,3 | 64 |
| | 6 | | 62,5 | 65,7 | 64,9 | 61,4 | 59,3 | 55,4 | 50,7 | 67 |
| HC 90 | 1 | Min | 48 | 50,1 | 50,7 | 45 | 51,3 | 36,2 | 29,8 | 51 |
| | 2 | | 50,7 | 53,4 | 54,5 | 49,1 | 45,8 | 40,6 | 33,4 | 55 |
| | 3 | Med | 53,4 | 56,2 | 57 | 52,4 | 49,4 | 44,6 | 37,6 | 58 |
| | 4 | | 55,9 | 59,1 | 59,6 | 55,4 | 52,7 | 48,2 | 42,1 | 61 |
| | 5 | Max | 58,8 | 61,9 | 62,4 | 58,4 | 55,9 | 51,7 | 46,4 | 64 |
| | 6 | | 61,3 | 65 | 65 | 61,6 | 59,2 | 55,3 | 50,8 | 67 |
| HC 100 | 1 | | 52,3 | 53,5 | 50,8 | 46,7 | 40,6 | 31,9 | 28,3 | 52 |
| | 2 | Min | 54,7 | 56,2 | 53,8 | 50,1 | 44,1 | 35,3 | 28,5 | 55 |
| | 3 | Med | 56,7 | 57,8 | 55,5 | 52,2 | 46,8 | 38,6 | 30,9 | 57 |
| | 4 | | 59,5 | 60,7 | 58,1 | 55,2 | 50,3 | 42,9 | 38,1 | 60 |
| | 5 | Max | 62,1 | 63,5 | 60,7 | 58,3 | 53,8 | 46,9 | 39,9 | 63 |
| | 6 | | 63,3 | 65,7 | 62,5 | 60,2 | 56,1 | 49,7 | 43 | 65 |
| HC 110 | 1 | | 50,4 | 49,1 | 46 | 41,3 | 34,1 | 26,6 | 24,1 | 47 |
| | 2 | Min | 52,9 | 51,6 | 49 | 44,7 | 37,8 | 29,1 | 23,6 | 50 |
| | 3 | Med | 60,2 | 58,8 | 56,4 | 53,1 | 47,7 | 39,7 | 31,6 | 58 |
| | 4 | | 62,1 | 61,6 | 59 | 56,2 | 51,4 | 44,2 | 37,7 | 61 |
| | 5 | Max | 67,1 | 67,1 | 64,4 | 62,2 | 58,3 | 52,3 | 46,1 | 67 |
| HC 120 | 1 | | 52,8 | 51,1 | 47,5 | 43,5 | 36,7 | 29,4 | 25,7 | 49 |
| | 2 | Min | 54,7 | 52,9 | 49,6 | 45,4 | 39,4 | 31,3 | 26,2 | 51 |
| | 3 | | 60,7 | 60,2 | 57,1 | 53,8 | 49,2 | 41,6 | 33,8 | 59 |
| | 4 | Med | 62,4 | 62,2 | 58,9 | 55,9 | 51,6 | 44,7 | 37,8 | 61 |
| | 5 | Max | 68,8 | 66,9 | 63,2 | 61,1 | 57,3 | 51,5 | 45,4 | 66 |

Data indicated as min., med., max. concern the 3 standard speeds set at the factory. Upon customer request other 3 speeds among the 6 speeds available can be connected.

4 PIPES SYSTEM

| COMFAIR | Speeds | Std Electric wiring (*) | Frequency spectrum - Ref. octave band (Hz) | | | | | | | Total sound power (dB(A)) |
|---------|--------|-------------------------|--|------|------|------|------|------|------|---------------------------|
| | | | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | |
| HC 10 | 1 | | 32,7 | 31,7 | 31,2 | 23 | 20,4 | 13,5 | 4,6 | 31 |
| | 2 | Min | 34 | 35,7 | 33,7 | 26,9 | 23,5 | 15,8 | 6,8 | 34 |
| | 3 | | 35 | 36,6 | 36,4 | 29,6 | 24 | 16,6 | 5,9 | 36 |
| | 4 | Med | 36,9 | 40 | 40 | 34,4 | 28,5 | 20,1 | 7,8 | 40 |
| | 5 | Max | 41,1 | 44,1 | 44,5 | 39,8 | 34,6 | 26,7 | 15,1 | 45 |
| | 6 | | 45,6 | 48,4 | 49,2 | 44,9 | 40,9 | 33,8 | 23,5 | 50 |
| HC 20 | 1 | | 31,2 | 36,8 | 33,9 | 25,5 | 21,6 | 16,7 | 12,1 | 34 |
| | 2 | Min | 35,1 | 39,8 | 38 | 30,8 | 25,7 | 19 | 13,5 | 38 |
| | 3 | Med | 39,9 | 43,9 | 43 | 36,6 | 31,5 | 23,9 | 16,7 | 43 |
| | 4 | Max | 43,2 | 46,9 | 46,9 | 41 | 36,5 | 28,2 | 19,9 | 47 |
| | 5 | | 47,7 | 51,3 | 51,7 | 46 | 42,8 | 35,2 | 28,2 | 52 |
| | 6 | | 51,8 | 54,9 | 54,9 | 49,9 | 48,6 | 40,7 | 32,9 | 56 |
| HC 30 | 1 | | 34,4 | 33,4 | 28,6 | 20,7 | 21,6 | 13,6 | 13 | 30 |
| | 2 | Min | 33,7 | 36,5 | 33,7 | 26 | 23,1 | 15 | 13,3 | 34 |
| | 3 | Med | 38,2 | 40,9 | 39,8 | 34,3 | 27,8 | 18,3 | 13,8 | 40 |
| | 4 | Max | 41,8 | 44,1 | 43,5 | 38,9 | 32,4 | 23,3 | 16,5 | 44 |
| | 5 | | 44,5 | 46,5 | 46,2 | 42,2 | 36 | 28,1 | 19,3 | 47 |
| | 6 | | 47,2 | 49,2 | 49,1 | 45,2 | 39,7 | 33 | 25,8 | 50 |
| HC 40 | 1 | | 31,4 | 33,4 | 28,6 | 20,7 | 21,6 | 13,6 | 13 | 30 |
| | 2 | Min | 34,7 | 37,5 | 34,7 | 27 | 24,1 | 16 | 14,3 | 35 |
| | 3 | Med | 40,2 | 42,9 | 41,8 | 36,3 | 29,8 | 20,3 | 15,8 | 42 |
| | 4 | | 42,8 | 45,1 | 44,5 | 39,9 | 33,4 | 24,3 | 17,5 | 45 |
| | 5 | Max | 45,5 | 47,5 | 47,2 | 43,2 | 37 | 29,1 | 20,3 | 48 |
| | 6 | | 50,2 | 52,2 | 52,1 | 48,2 | 42,7 | 36 | 28,8 | 52 |
| HC 50 | 1 | Min | 33,3 | 37,2 | 33,5 | 24,3 | 27,2 | 23,1 | 21,9 | 35 |
| | 2 | | 36,6 | 40 | 37,6 | 28,9 | 28,2 | 24 | 23,3 | 38 |
| | 3 | Med | 40,5 | 43,8 | 41,9 | 34,3 | 30,3 | 25 | 23,8 | 42 |
| | 4 | Max | 44,1 | 47 | 46 | 39,6 | 34,2 | 27 | 24,2 | 46 |
| | 5 | | 49 | 51,2 | 50,8 | 45,2 | 39,9 | 32,5 | 28,6 | 51 |
| | 6 | | 53,4 | 55,6 | 55,3 | 50,4 | 46,3 | 39,5 | 31,7 | 56 |
| HC 60 | 1 | | 36,3 | 40,2 | 36,5 | 27,3 | 30,2 | 26,1 | 24,9 | 38 |
| | 2 | Min | 39,6 | 43 | 40,6 | 31,9 | 31,2 | 27 | 26,3 | 41 |
| | 3 | | 42,5 | 45,8 | 43,9 | 36,3 | 32,3 | 27 | 25,8 | 44 |
| | 4 | Med | 46,1 | 49 | 48 | 41,6 | 36,2 | 29 | 26,2 | 48 |
| | 5 | Max | 51 | 53,2 | 52,8 | 47,2 | 41,9 | 34,5 | 30,6 | 53 |
| | 6 | | 54,4 | 56,6 | 56,3 | 51,4 | 47,3 | 40,5 | 32,7 | 57 |
| HC 70 | 1 | | 34,5 | 37,2 | 33,1 | 26,2 | 25,3 | 22,5 | 19,6 | 36 |
| | 2 | | 36,4 | 41,3 | 38,1 | 30,7 | 28,5 | 25,2 | 22,6 | 39 |
| | 3 | Min | 40,7 | 44,3 | 42,4 | 35,5 | 32,2 | 27,1 | 23,3 | 43 |
| | 4 | Med | 44,1 | 47,9 | 47 | 40,8 | 37,3 | 29,3 | 25,8 | 47 |
| | 5 | Max | 49,5 | 52,3 | 52,3 | 46,6 | 43,4 | 35,5 | 28 | 53 |
| | 6 | | 54,2 | 57,2 | 56,8 | 52,1 | 49,6 | 42,8 | 33,9 | 58 |
| HC 80 | 1 | Min | 47,6 | 50,7 | 50,3 | 45,1 | 41,8 | 36 | 29 | 51 |
| | 2 | Med | 53,3 | 56 | 56,2 | 51,2 | 48,3 | 42,9 | 35,3 | 57 |
| | 3 | Max | 54,9 | 57,9 | 57,8 | 53,3 | 50,7 | 45,6 | 38,5 | 59 |
| | 4 | | 57,3 | 60,7 | 60,5 | 56,4 | 54 | 49,4 | 43,2 | 62 |
| | 5 | | 60,5 | 63,6 | 63,1 | 59,3 | 57,1 | 52,8 | 47,3 | 65 |
| | 6 | | 63,5 | 66,7 | 65,9 | 62,4 | 60,3 | 56,4 | 51,7 | 68 |
| HC 90 | 1 | Min | 48 | 50,1 | 50,7 | 45 | 41,3 | 36,2 | 29,8 | 51 |
| | 2 | | 51,7 | 54,4 | 55,5 | 50,1 | 46,8 | 41,6 | 34,4 | 56 |
| | 3 | Med | 54,4 | 57,2 | 58 | 53,4 | 50,4 | 45,6 | 38,6 | 59 |
| | 4 | | 56,9 | 60,1 | 60,6 | 56,4 | 53,7 | 49,2 | 43,1 | 62 |
| | 5 | Max | 59,8 | 62,9 | 63,4 | 59,4 | 56,9 | 52,7 | 47,4 | 65 |
| | 6 | | 62,3 | 66 | 66 | 62,6 | 60,2 | 56,3 | 51,8 | 68 |
| HC 100 | 1 | | 53,3 | 54,5 | 51,8 | 47,7 | 41,6 | 32,9 | 29,3 | 53 |
| | 2 | Min | 54,7 | 56,2 | 53,8 | 50,1 | 44,1 | 35,3 | 28,5 | 55 |
| | 3 | Med | 57,7 | 58,8 | 56,5 | 53,2 | 47,8 | 39,6 | 31,9 | 58 |
| | 4 | | 60,5 | 61,7 | 59,1 | 56,2 | 51,3 | 43,9 | 39,1 | 61 |
| | 5 | Max | 62,1 | 63,5 | 60,7 | 58,3 | 53,8 | 46,9 | 39,9 | 63 |
| | 6 | | 64,3 | 66,7 | 63,5 | 61,2 | 57,1 | 50,7 | 44 | 66 |
| HC 110 | 1 | | 51,4 | 50,1 | 47 | 42,3 | 35,1 | 27,6 | 25,1 | 48 |
| | 2 | Min | 53,9 | 52,6 | 50 | 45,7 | 38,8 | 30,1 | 24,6 | 51 |
| | 3 | Med | 60,2 | 58,8 | 56,4 | 53,1 | 47,7 | 39,7 | 31,6 | 58 |
| | 4 | | 63,1 | 62,6 | 60 | 57,2 | 52,4 | 45,2 | 38,7 | 62 |
| | 5 | Max | 67,1 | 67,1 | 64,4 | 62,2 | 58,3 | 52,3 | 46,1 | 67 |
| HC 120 | 1 | | 52,8 | 51,1 | 47,5 | 43,5 | 36,7 | 29,4 | 25,7 | 49 |
| | 2 | Min | 55,7 | 53,9 | 50,6 | 46,4 | 40,4 | 32,3 | 27,2 | 52 |
| | 3 | | 61,7 | 61,2 | 58,1 | 54,8 | 50,2 | 42,6 | 34,8 | 60 |
| | 4 | Med | 63,4 | 63,2 | 59,9 | 56,9 | 52,6 | 45,7 | 38,8 | 62 |
| | 5 | Max | 67,8 | 67,9 | 64,2 | 62,1 | 58,3 | 52,5 | 46,4 | 67 |

Data indicated as min., med., max. concern the 3 standard speeds set at the factory. Upon customer request other 3 speeds among the 6 speeds available can be connected.

AIR PRESSURE DROPS FOR THE MAIN ACCESSORIES - HC



| Air flow (m³/h) | Description of the accessories | | | | | | | | | |
|----------------------|--------------------------------|---------------------------|---|---|--|-----------------------------------|--------------|--------------|---|---|
| | Straight connection duct | 90° intake/supply duct | Telescopic extension for straight and 90° duct | Supply plenum with circular connections | Intake plenum with circular connections | Painted lower panel with grill | Supply grill | Intake grill | Std filter in medium stemming condition | Std filter in lit stemming condition (cleaning is necessary) |
| COMFAIR HC 10 | | | | | | | | | | |
| 276 | 0,8 | 3,2 | 0,8 | 12,3 | 12,3 | 7,2 | 19,6 | 19,6 | 5,4 | 10,9 |
| 250 | 0,7 | 2,6 | 0,7 | 10,1 | 10,1 | 5,9 | 16 | 16 | 4,5 | 8,9 |
| 225 | 0,5 | 2,1 | 0,5 | 8,2 | 8,2 | 4,8 | 13 | 13 | 3,6 | 7,2 |
| 200 | 0,4 | 1,7 | 0,4 | 6,5 | 6,5 | 3,8 | 10,3 | 10,3 | 2,9 | 5,7 |
| 175 | 0,3 | 1,3 | 0,3 | 4,9 | 4,9 | 2,9 | 7,9 | 7,9 | 2,2 | 4,4 |
| 150 | - | 0,9 | - | 3,6 | 3,6 | 2,1 | 5,8 | 5,8 | 1,6 | 3,2 |
| 125 | - | 0,7 | - | 2,5 | 2,5 | 1,5 | 4 | 4 | 1,1 | 2,2 |
| 100 | - | 0,4 | - | 1,6 | 1,6 | 0,9 | 2,6 | 2,6 | 0,7 | 1,4 |
| 75 | - | - | - | 0,9 | 0,9 | 0,5 | 1,4 | 1,4 | 0,4 | 0,8 |
| 60 | - | - | - | 0,6 | 0,6 | 0,3 | 0,9 | 0,9 | 0,3 | 0,5 |
| COMFAIR HC 20 | | | | | | | | | | |
| 411 | 0,6 | 2,7 | 0,6 | 6,9 | 6,9 | 6 | 15,4 | 15,4 | 4,7 | 9,4 |
| 400 | 0,6 | 2,6 | 0,6 | 6,5 | 6,5 | 5,7 | 14,6 | 14,6 | 4,4 | 8,9 |
| 350 | 0,4 | 2 | 0,4 | 5 | 5 | 4,4 | 11,2 | 11,2 | 3,4 | 6,8 |
| 300 | 0,3 | 1,4 | 0,3 | 3,7 | 3,7 | 3,2 | 8,2 | 8,2 | 2,5 | 5 |
| 250 | - | 1 | - | 2,6 | 2,6 | 2,2 | 5,7 | 5,7 | 1,7 | 3,5 |
| 200 | - | 0,6 | - | 1,6 | 1,6 | 1,4 | 3,6 | 3,6 | 1,1 | 2,2 |
| 150 | - | 0,4 | - | 0,9 | 0,9 | 0,8 | 2,1 | 2,1 | 0,6 | 1,2 |
| 100 | - | - | - | 0,4 | 0,4 | 0,4 | 0,9 | 0,9 | 0,3 | 0,6 |
| 90 | - | - | - | 0,3 | 0,3 | 0,3 | 0,7 | 0,7 | 0,2 | 0,4 |
| COMFAIR HC 30 | | | | | | | | | | |
| 533 | 0,6 | 2,4 | 0,6 | 9 | 9 | 5,2 | 13,2 | 13,2 | 4,2 | 8,3 |
| 500 | 0,5 | 2,1 | 0,5 | 7,9 | 7,9 | 4,6 | 11,6 | 11,6 | 3,7 | 7,3 |
| 450 | 0,4 | 1,7 | 0,4 | 6,4 | 6,4 | 3,7 | 9,4 | 9,4 | 3 | 5,9 |
| 400 | 0,3 | 1,3 | 0,3 | 5,1 | 5,1 | 2,9 | 7,4 | 7,4 | 2,3 | 4,7 |
| 350 | - | 1 | - | 3,9 | 3,9 | 2,2 | 5,7 | 5,7 | 1,8 | 3,6 |
| 300 | - | 0,8 | - | 2,9 | 2,9 | 1,6 | 4,2 | 4,2 | 1,3 | 2,6 |
| 250 | - | 0,5 | - | 2 | 2 | 1,1 | 2,9 | 2,9 | 0,9 | 1,8 |
| 200 | - | 0,3 | - | 1,3 | 1,3 | 0,7 | 1,9 | 1,9 | 0,6 | 1,2 |
| 150 | - | - | - | 0,7 | 0,7 | 0,4 | 1 | 1 | 0,3 | 0,7 |
| 100 | - | - | - | 0,3 | 0,3 | - | 0,5 | 0,5 | 0,1 | 0,3 |
| COMFAIR HC 40 | | | | | | | | | | |
| 530 | 0,6 | 2,4 | 0,6 | 8,9 | 8,9 | 5,1 | 13,1 | 13,1 | 4,1 | 8,2 |
| 500 | 0,5 | 2,1 | 0,5 | 7,9 | 7,9 | 4,6 | 11,6 | 11,6 | 3,7 | 7,3 |
| 450 | 0,4 | 1,7 | 0,4 | 6,4 | 6,4 | 3,7 | 9,4 | 9,4 | 3 | 5,9 |
| 400 | 0,3 | 1,3 | 0,3 | 5,1 | 5,1 | 2,9 | 7,4 | 7,4 | 2,3 | 4,7 |
| 350 | - | 1 | - | 3,9 | 3,9 | 2,2 | 5,7 | 5,7 | 1,8 | 3,6 |
| 300 | - | 0,8 | - | 2,9 | 2,9 | 1,6 | 4,2 | 4,2 | 1,3 | 2,6 |
| 250 | - | 0,5 | - | 2 | 2 | 1,1 | 2,9 | 2,9 | 0,9 | 1,8 |
| 200 | - | 0,3 | - | 1,3 | 1,3 | 0,7 | 1,9 | 1,9 | 0,6 | 1,2 |
| 150 | - | - | - | 0,7 | 0,7 | 0,4 | 1 | 1 | 0,3 | 0,7 |
| 100 | - | - | - | 0,3 | 0,3 | - | 0,5 | 0,5 | 0,1 | 0,3 |
| COMFAIR HC 50 | | | | | | | | | | |
| 812 | 0,9 | 3,3 | 0,9 | 7,4 | 7,4 | 7,3 | 18,5 | 18,5 | 5,9 | 11,9 |
| 800 | 0,8 | 3,2 | 0,8 | 7,2 | 7,2 | 7,1 | 18 | 18 | 5,8 | 11,5 |
| 700 | 0,6 | 2,5 | 0,6 | 5,5 | 5,5 | 5,4 | 13,8 | 13,8 | 4,4 | 8,8 |
| 600 | 0,5 | 1,8 | 0,5 | 4 | 4 | 4 | 10,1 | 10,1 | 3,2 | 6,5 |
| 500 | 0,3 | 1,3 | 0,3 | 2,8 | 2,8 | 2,8 | 7 | 7 | 2,3 | 4,5 |
| 400 | - | 0,8 | - | 1,8 | 1,8 | 1,8 | 4,5 | 4,5 | 1,4 | 2,9 |
| 300 | - | 0,5 | - | 1 | 1 | 1 | 2,5 | 2,5 | 0,8 | 1,6 |
| 200 | - | - | - | 0,4 | 0,4 | 0,4 | 1,1 | 1,1 | 0,4 | 0,7 |
| 150 | - | - | - | 0,3 | 0,3 | - | 0,6 | 0,6 | 0,2 | 0,4 |

AIR PRESSURE DROPS FOR THE MAIN ACCESSORIES - HC

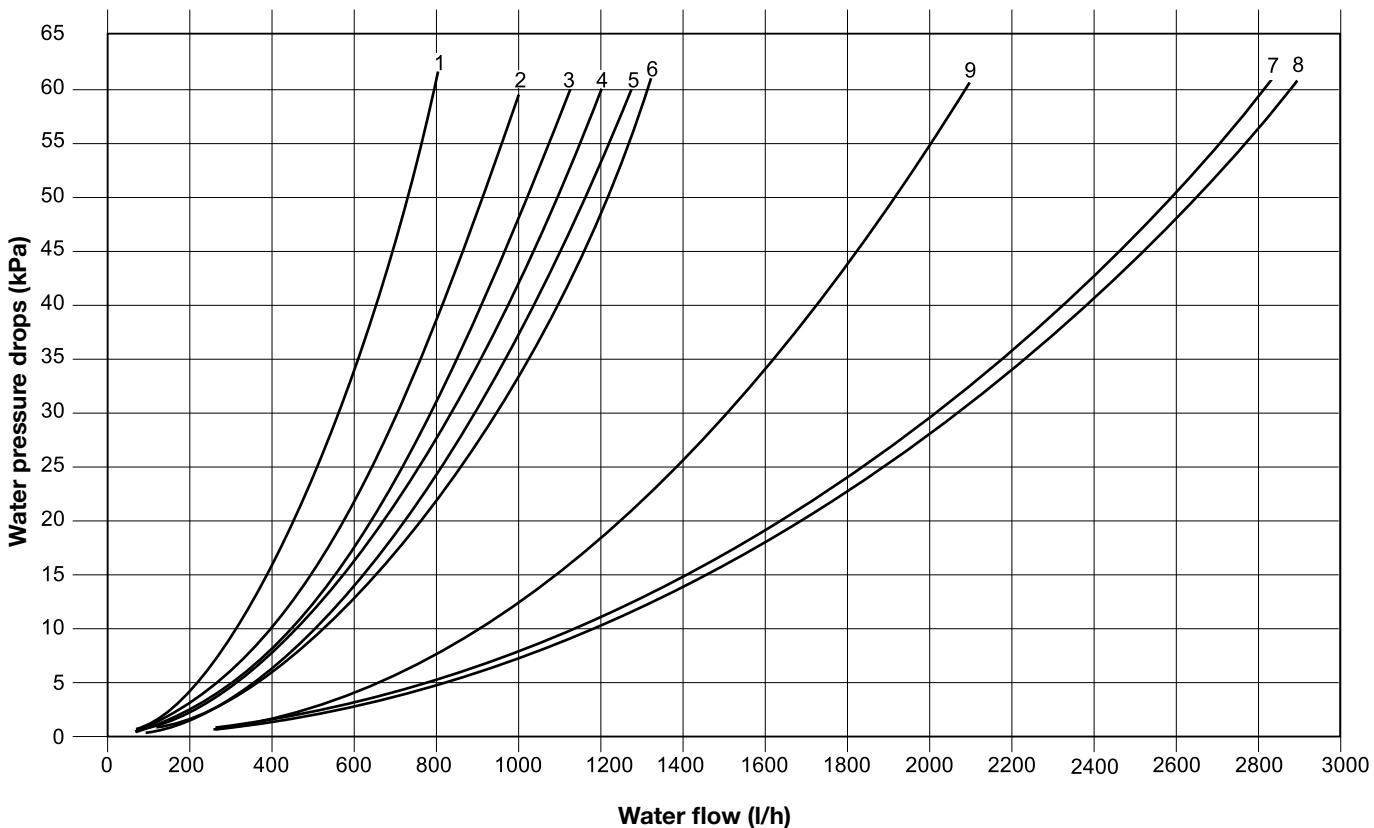


| Air flow (m³/h) | Description of the accessories | | | | | | | | | |
|----------------------|--------------------------------|---------------------------|---|---|--|-----------------------------------|--------------|--------------|---|---|
| | Straight connection duct | 90° intake/supply duct | Telescopic extension for straight and 90° duct | Supply plenum with circular connections | Intake plenum with circular connections | Painted lower panel with grill | Supply grill | Intake grill | Std filter in medium stemming condition | Std filter in lit stemming condition (cleaning is necessary) |
| COMFAIR HC 60 | | | | | | | | | | |
| 814 | 0,9 | 3,3 | 0,9 | 7,4 | 7,4 | 7,4 | 18,6 | 18,6 | 6 | 11,9 |
| 800 | 0,8 | 3,2 | 0,8 | 7,2 | 7,2 | 7,1 | 18 | 18 | 5,8 | 11,5 |
| 700 | 0,6 | 2,5 | 0,6 | 5,5 | 5,5 | 5,4 | 13,8 | 13,8 | 4,4 | 8,8 |
| 600 | 0,5 | 1,8 | 0,5 | 4 | 4 | 4 | 10,1 | 10,1 | 3,2 | 6,5 |
| 500 | 0,3 | 1,3 | 0,3 | 2,8 | 2,8 | 2,8 | 7 | 7 | 2,3 | 4,5 |
| 400 | - | 0,8 | - | 1,8 | 1,8 | 1,8 | 4,5 | 4,5 | 1,4 | 2,9 |
| 300 | - | 0,5 | - | 1 | 1 | 1 | 2,5 | 2,5 | 0,8 | 1,6 |
| 200 | - | - | - | 0,4 | 0,4 | 0,4 | 1,1 | 1,1 | 0,4 | 0,7 |
| 150 | - | - | - | 0,3 | 0,3 | - | 0,6 | 0,6 | 0,2 | 0,4 |
| COMFAIR HC 70 | | | | | | | | | | |
| 867 | 0,8 | 3,8 | 0,8 | 8,4 | 8,4 | 8,4 | 21,2 | 21,2 | 11 | 22 |
| 800 | 0,7 | 3,3 | 0,7 | 7,2 | 7,2 | 7,2 | 18,1 | 18,1 | 9,4 | 18,7 |
| 750 | 0,6 | 2,9 | 0,6 | 6,3 | 6,3 | 6,3 | 15,9 | 15,9 | 8,2 | 16,4 |
| 700 | 0,5 | 2,5 | 0,5 | 5,5 | 5,5 | 5,5 | 13,8 | 13,8 | 7,2 | 14,3 |
| 650 | 0,4 | 2,1 | 0,4 | 4,7 | 4,7 | 4,7 | 11,9 | 11,9 | 6,2 | 12,3 |
| 600 | 0,4 | 1,8 | 0,4 | 4 | 4 | 4 | 10,2 | 10,2 | 5,3 | 10,5 |
| 550 | 0,3 | 1,5 | 0,3 | 3,4 | 3,4 | 3,4 | 8,5 | 8,5 | 4,4 | 8,8 |
| 500 | 0,3 | 1,3 | 0,3 | 2,8 | 2,8 | 2,8 | 7,1 | 7,1 | 3,7 | 7,3 |
| 450 | - | 1 | - | 2,3 | 2,3 | 2,3 | 5,7 | 5,7 | 3 | 5,9 |
| 400 | - | 0,8 | - | 1,8 | 1,8 | 1,8 | 4,5 | 4,5 | 2,3 | 4,7 |
| 350 | - | 0,6 | - | 1,4 | 1,4 | 1,4 | 3,5 | 3,5 | 1,8 | 3,6 |
| 300 | - | 0,5 | - | 1 | 1 | 1 | 2,5 | 2,5 | 1,3 | 2,6 |
| 250 | - | 0,3 | - | 0,7 | 0,7 | 0,7 | 1,8 | 1,8 | 0,9 | 1,8 |
| 200 | - | - | - | 0,4 | 0,4 | 0,4 | 1,1 | 1,1 | 0,6 | 1,2 |
| 150 | - | - | - | 0,3 | 0,3 | 0,3 | 0,6 | 0,6 | 0,3 | 0,7 |
| COMFAIR HC 80 | | | | | | | | | | |
| 1511 | 1,3 | 7,7 | 1,3 | 24,3 | 24,3 | 17,1 | 43,2 | 43,2 | 14,4 | 28,7 |
| 1400 | 1,1 | 6,6 | 1,1 | 20,9 | 20,9 | 14,6 | 37,1 | 37,1 | 12,3 | 24,6 |
| 1300 | 1 | 5,7 | 1 | 18 | 18 | 12,6 | 32 | 32 | 10,6 | 21,2 |
| 1200 | 0,8 | 4,9 | 0,8 | 15,3 | 15,3 | 10,8 | 27,2 | 27,2 | 9,1 | 18,1 |
| 1100 | 0,7 | 4,1 | 0,7 | 12,9 | 12,9 | 9 | 22,9 | 22,9 | 7,6 | 15,2 |
| 1000 | 0,6 | 3,4 | 0,6 | 10,6 | 10,6 | 7,5 | 18,9 | 18,9 | 5,3 | 12,6 |
| 900 | 0,5 | 2,7 | 0,5 | 8,6 | 8,6 | 6,1 | 15,3 | 15,3 | 5,1 | 10,2 |
| 800 | 0,4 | 2,2 | 0,4 | 6,8 | 6,8 | 4,8 | 12,1 | 12,1 | 4 | 8 |
| 700 | 0,3 | 1,7 | 0,3 | 5,2 | 5,2 | 3,7 | 9,3 | 9,3 | 3,1 | 6,2 |
| 600 | - | 1,2 | - | 3,8 | 3,8 | 2,7 | 6,8 | 6,8 | 2,3 | 4,5 |
| 500 | - | 0,8 | - | 2,7 | 2,7 | 1,9 | 4,7 | 4,7 | 1,6 | 3,1 |
| 400 | - | 0,5 | - | 1,7 | 1,7 | 1,2 | 3 | 3 | 1 | 2 |
| COMFAIR HC 90 | | | | | | | | | | |
| 1410 | 1,2 | 6,7 | 1,2 | 21,3 | 21,3 | 14,9 | 11,2 | 11,2 | 12,5 | 25 |
| 1300 | 1 | 5,7 | 1 | 18,1 | 18,1 | 12,6 | 9,5 | 9,5 | 10,6 | 21,2 |
| 1200 | 0,8 | 4,9 | 0,8 | 15,4 | 15,4 | 10,8 | 8,1 | 8,1 | 9,1 | 18,1 |
| 1100 | 0,7 | 4,1 | 0,7 | 13 | 13 | 9 | 6,8 | 6,8 | 7,6 | 15,2 |
| 1000 | 0,6 | 3,4 | 0,6 | 10,7 | 10,7 | 7,5 | 5,6 | 5,6 | 6,3 | 12,6 |
| 900 | 0,5 | 2,7 | 0,5 | 8,7 | 8,7 | 6,1 | 4,6 | 4,6 | 5,1 | 10,2 |
| 800 | 0,4 | 2,2 | 0,4 | 6,9 | 6,9 | 4,8 | 3,6 | 3,6 | 4 | 8 |
| 700 | 0,3 | 1,7 | 0,3 | 5,2 | 5,2 | 3,7 | 2,8 | 2,8 | 3,1 | 6,2 |
| 600 | - | 1,2 | - | 3,9 | 3,9 | 2,7 | 2 | 2 | 2,3 | 4,5 |
| 500 | - | 0,8 | - | 2,7 | 2,7 | 1,9 | 1,4 | 1,4 | 1,6 | 3,1 |
| 400 | - | 0,5 | - | 1,7 | 1,7 | 1,2 | 0,9 | 0,9 | 1 | 2 |

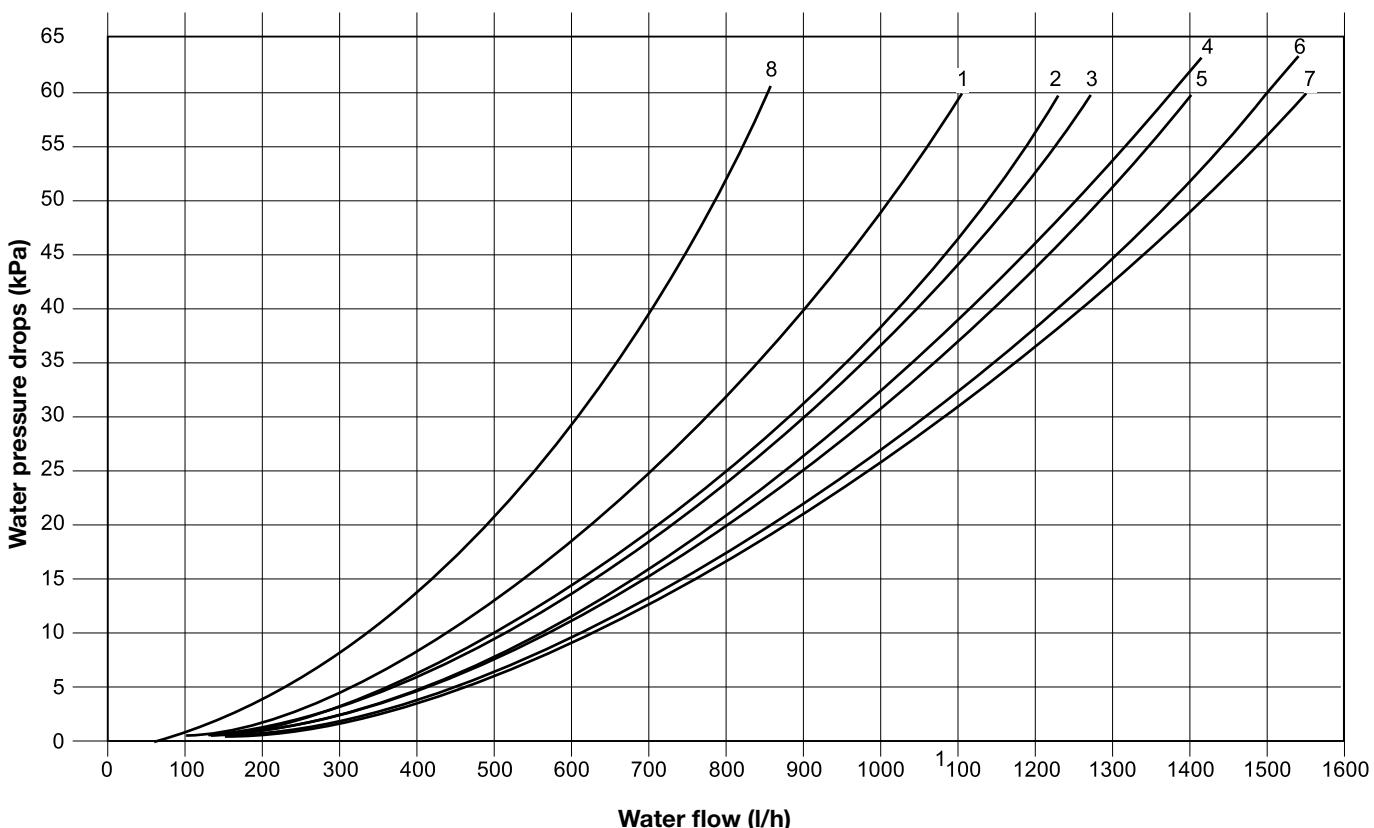
WATER COIL PRESSURE DROP DIAGRAM - HC

LENNOX

3 ROWS COIL (Ref. water medium temperature 9,5°C)

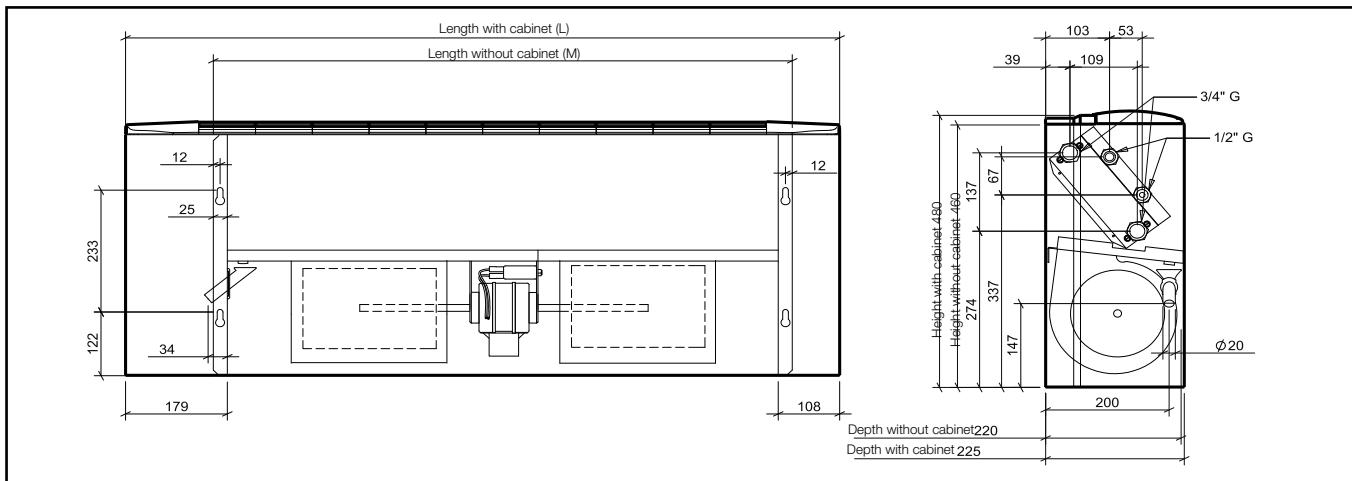


1 ROW COIL (Ref. water medium temperature 65°C)



1 = HC70 2 = HC50, 60 3 = HC30, 40 4 = HC20, 5 = HC10, 6 = HC80,90, 7 = HC120, 8 = HC110, 9 = HC100

GENERAL DIMENSIONS - SIZES 10 TO 60



2 PIPES SYSTEM

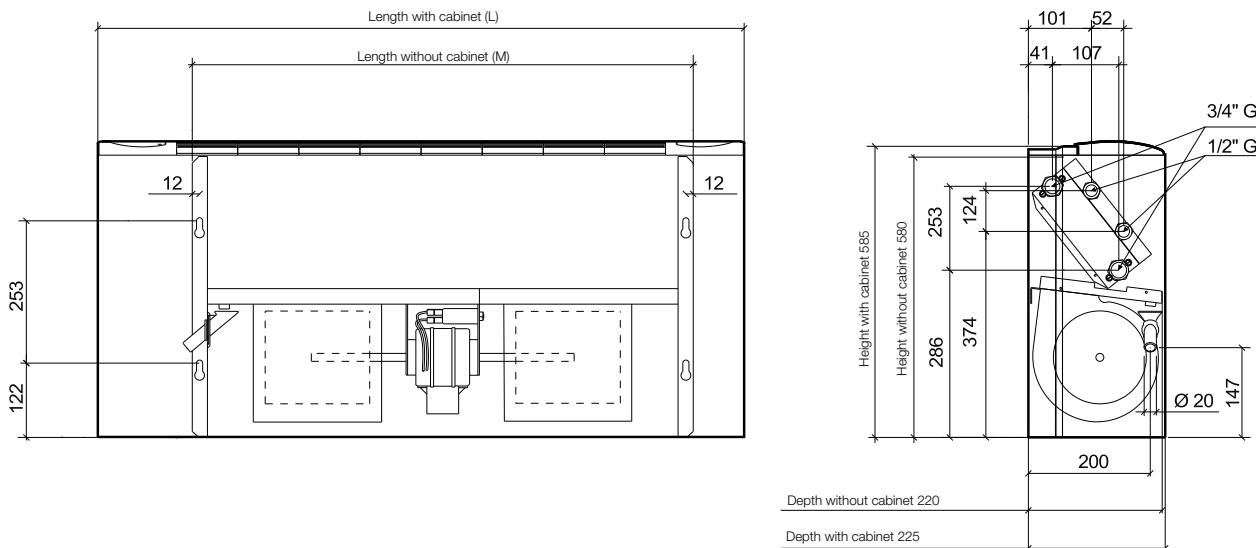
| COMFAIR | HC | 10 | 20 | 30 | 40 | 50 | 60 |
|--|-------------------------------------|----------------|-------|-------|---------|-------|-------|
| Fans number | N° | 1 | | | | 2 | |
| Coils number | N° | | | 1 | | | |
| Coil used for both cooling and heating | Rows number | N° | | 3 | | | |
| | Finned pack length | mm | 290 | 490 | 690 | | 890 |
| | Number of pipes for row | N° | | | 8 | | |
| | Fin spacing | mm | | 2,1 | 2,5 | 2,1 | 2,5 |
| | Number of feeding circuits | mm | | | 3 | | |
| | Shape | mm x mm | | | 25 x 22 | | |
| | Finned pack depth | mm | | | 66 | | |
| | Frontal surface | m ² | 0,058 | 0,098 | 0,138 | | 0,178 |
| | Fins total surface | m ² | 3,278 | 5,538 | 6,635 | 7,798 | 8,558 |
| | Water content | l | 0,59 | 0,93 | 1,27 | | 1,61 |
| Fancoil general features | Hydraulic connection (Ø female gas) | Ø | | | 3/4" | | |
| | Length with cabinet | I (mm) | 660 | 860 | 1060 | | 1260 |
| | Length without cabinet | M (mm) | 420 | 620 | 820 | | 1020 |
| | Net weight | kg | 14 | 17 | 22 | 23 | 27 |
| | | | | | | | 28 |
| | | | | | | | |

4 PIPES SYSTEM

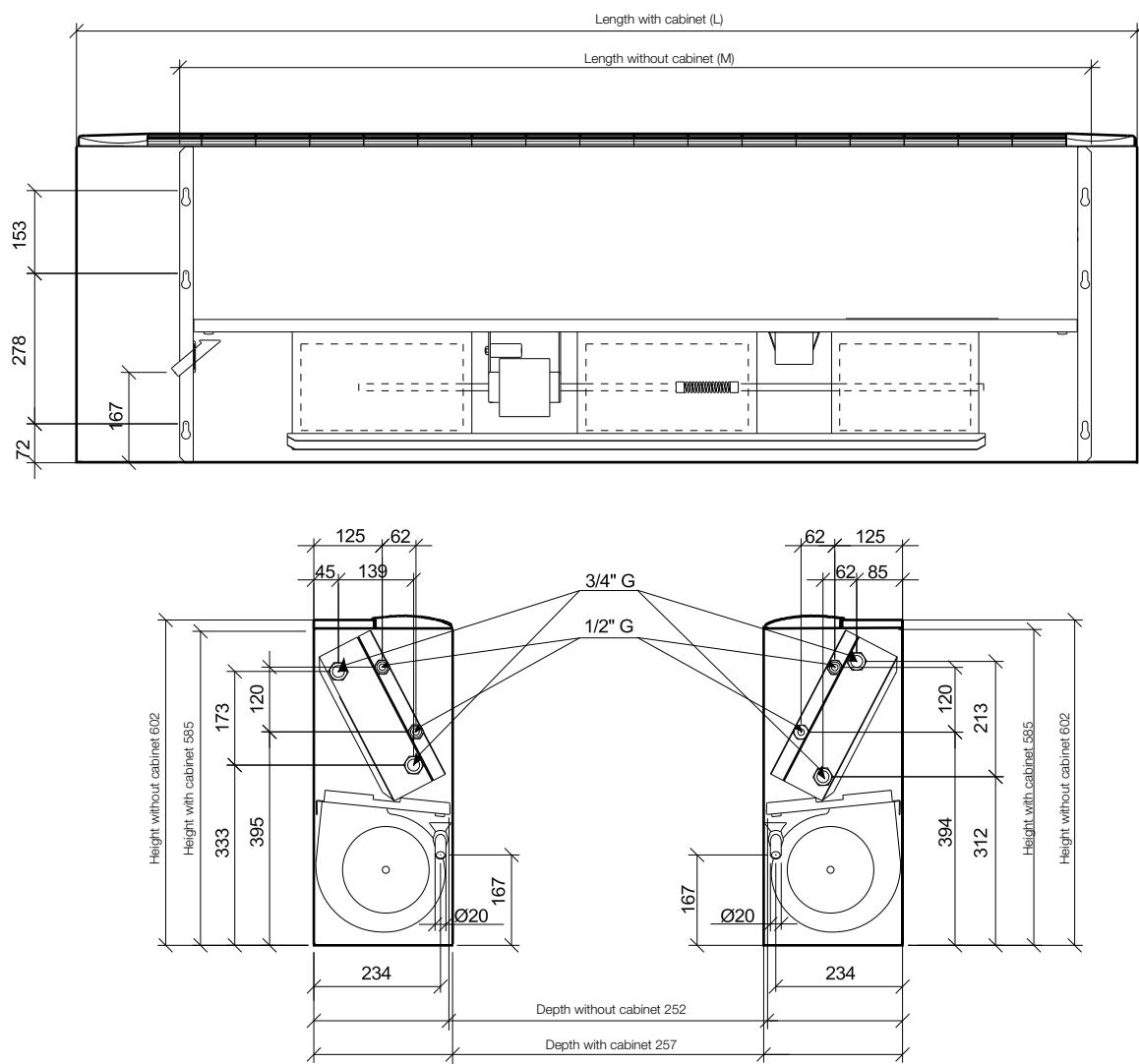
| COMFAIR | HC | 10 | 20 | 30 | 40 | 50 | 60 |
|--------------------------|-------------------------------------|----------------|-----------|-----------|-----------|-----------|-----------|
| Fans number | N° | 1 | | 2 | | | |
| Coils number | N° | | 2 | | | | |
| Coil used for cooling | Rows number | N° | | 3 | | | |
| | Finned pack length | mm | 290 | 490 | 690 | 890 | |
| | Number of pipes for row | N° | | 8 | | | |
| | Fin spacing | mm | 2,1 | | 2,5 | 2,1 | 2,5 |
| | Number of feeding circuits | mm | | 3 | | | |
| | Shape | mm x mm | | 25 x 22 | | | |
| | Finned pack depth | mm | | 66 | | | |
| | Frontal surface | m ² | 0,058 | 0,098 | 0,138 | 0,178 | |
| | Fins total surface | m ² | 3,278 | 5,538 | 6,635 | 7,798 | 8,558 |
| | Water content | l | 0,59 | 0,93 | 1,27 | 1,61 | |
| Coil used for heating | Hydraulic connection (Ø female gas) | Ø | | 3/4» | | | |
| | Rows number | N° | | 1 | | | |
| | Finned pack length | mm | 280 | 480 | 680 | 890 | |
| | Number of pipes for row | N° | | 8 | | | |
| | Fin spacing | mm | 2,1 | | 2,5 | 2,1 | 2,5 |
| | Number of feeding circuits | mm | | 1 | | | |
| | Shape | mm x mm | | 25 x 25 | | | |
| | Finned pack depth | mm | | 25 | | | |
| | Frontal surface | m ² | 0,056 | 0,096 | 0,136 | 0,176 | |
| | Fins total surface | m ² | 1,233 | 2,115 | 2,544 | 2,996 | 3,292 |
| Fancoil general features | Water content | l | 0,19 | 0,31 | 0,42 | 0,53 | |
| | Hydraulic connection (Ø female gas) | Ø | | 1/2» | | | |
| | Length with cabinet | l (mm) | 660 | 860 | 1060 | 1260 | |
| | Length without cabinet | M (mm) | 420 | 620 | 820 | 1020 | |
| | Net weight | kg | 15 | 18 | 23 | 24 | 28 |
| | | | | | | | 29 |

GENERAL DIMENSIONS - SIZES 70 TO 120

SIZES 70 TO 90



SIZES 70 TO 90



2 PIPES SYSTEM

| COMFAIR | HC | 70 | 80 | 90 | 100 | 110 | 120 |
|--|-------------------------------------|-----------|-----------|-----------|------------|------------|------------|
| Fans number | N° | | 2 | | | 3 | |
| Coils number | N° | | | | 1 | | |
| Coil used for both cooling and heating | Rows number | N° | | | 3 | | |
| | Finned pack length | mm | 890 | 1090 | 1225 | 1525 | |
| | Number of pipes for row | N° | | | 12 | | |
| | Fin spacing | mm | 2,5 | 2,1 | 2,5 | 2,1 | |
| | Number of feeding circuits | mm | 3 | 6 | | 8 | |
| | Shape | mm x mm | | 25 x 22 | | | |
| | Finned pack depth | mm | | | 66 | | |
| | Frontal surface | m² | 0,267 | 0,327 | 0,368 | 0,458 | |
| | Fins total surface | m² | 15,088 | 18,479 | 20,767 | 21,996 | 25,853 |
| | Water content | l | 2,42 | 2,93 | 3,28 | 4,04 | |
| Fancoil general features | Hydraulic connection (Ø female gas) | Ø | | 3/4" | | | |
| | Length with cabinet | l (mm) | 1260 | 1460 | 1 | 1660 | 1960 |
| | Length without cabinet | M (mm) | 1020 | 1220 | 1380 | 1680 | |
| | Net weight | kg | 30 | 35 | 36 | 46 | 55 |
| | | | | | | 57 | |
| | | | | | | | |

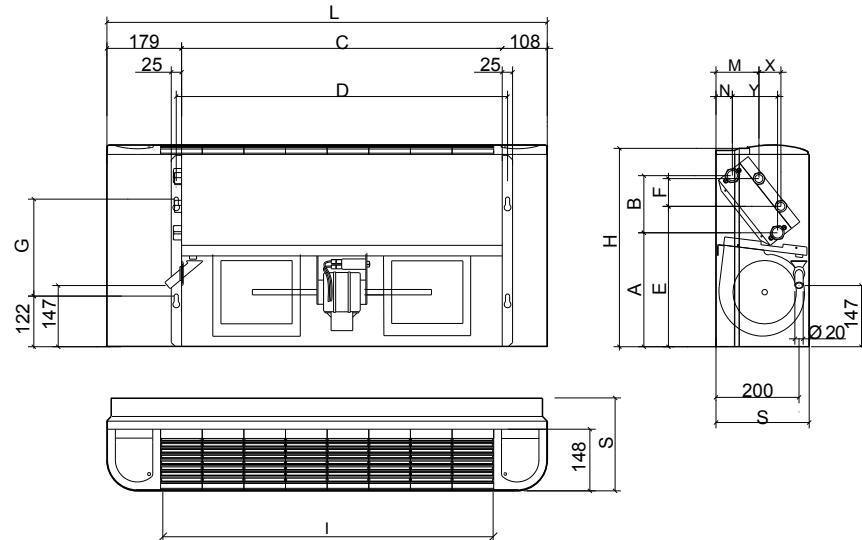
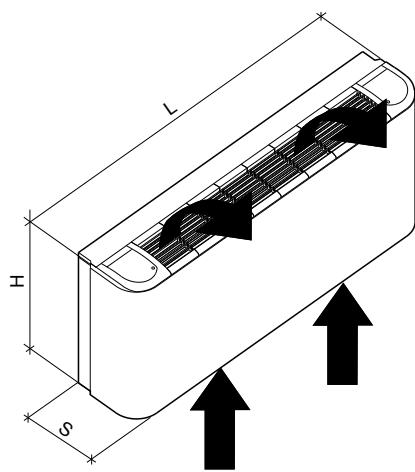
4 PIPES SYSTEM

| COMFAIR | HC | 70 | 80 | 90 | 100 | 110 | 120 |
|--------------------------|-------------------------------------|-----------|-----------|-----------|------------|------------|------------|
| Fans number | N° | | 2 | | | 3 | |
| Coils number | N° | | | | 2 | | |
| Coil used for cooling | Rows number | N° | | | 3 | | |
| | Finned pack length | mm | 890 | 1090 | 1225 | 1525 | |
| | Number of pipes for row | N° | | | 12 | | |
| | Fin spacing | mm | 2,5 | 2,1 | 2,5 | 2,1 | |
| | Number of feeding circuits | mm | 3 | 6 | | 8 | |
| | Shape | mm x mm | | 25 x 22 | | | |
| | Finned pack depth | mm | | | 66 | | |
| | Frontal surface | m² | 0,267 | 0,327 | 0,368 | 0,458 | |
| | Fins total surface | m² | 15,088 | 18,479 | 20,767 | 21,996 | 25,853 |
| | Water content | l | 2,42 | 2,93 | 3,28 | 4,04 | |
| Coil used for heating | Hydraulic connection (Ø female gas) | Ø | | 3/4" | | | |
| | Rows number | N° | | | 1 | | |
| | Finned pack length | mm | 880 | 1080 | 1225 | 1525 | |
| | Number of pipes for row | N° | | | 12 | | |
| | Fin spacing | mm | 2,1 | 2,5 | 2,1 | 2,5 | 2,1 |
| | Number of feeding circuits | mm | 1 | | 2 | | 3 |
| | Shape | mm x mm | | 25 x 25 | | | |
| | Finned pack depth | mm | | | 25 | | |
| | Frontal surface | m² | 0,176 | 0,216 | 0,368 | 0,458 | |
| | Fins total surface | m² | 3,877 | 9,515 | 8,095 | 8,558 | 10,077 |
| Fancoil general features | Water content | l | 0,53 | 1,29 | 1,09 | 1,35 | |
| | Hydraulic connection (Ø female gas) | Ø | | 1/2" | | | |
| | Length with cabinet | l (mm) | 1260 | 1460 | 1660 | 1960 | |
| | Length without cabinet | M (mm) | 1020 | 1220 | 1380 | 1680 | |
| | Net weight | kg | 32 | 38 | 39 | 49 | 58 |
| | | | | | | 60 | |

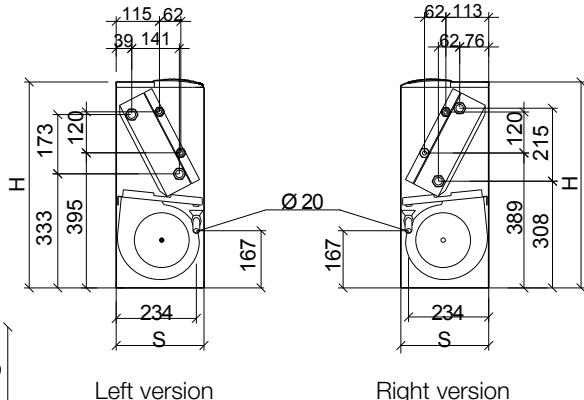
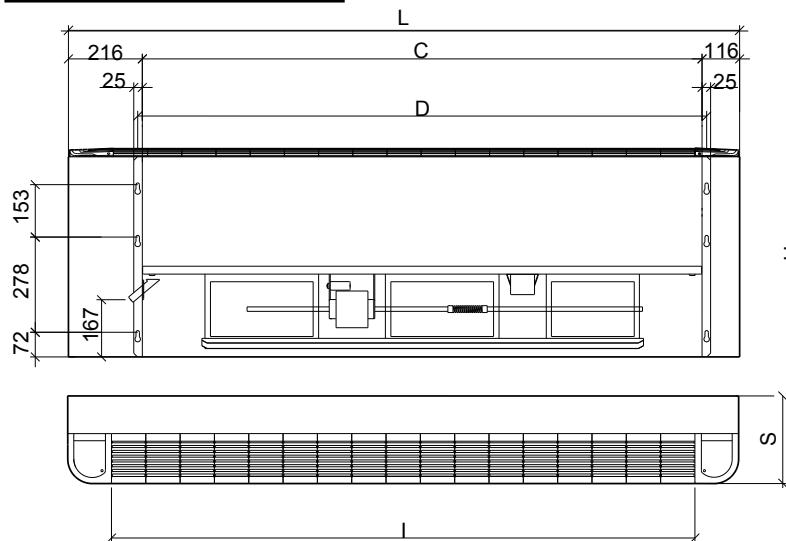
VERSION 0

Wall mounted with cabinet (bottom air intake)

HC 10 - 90

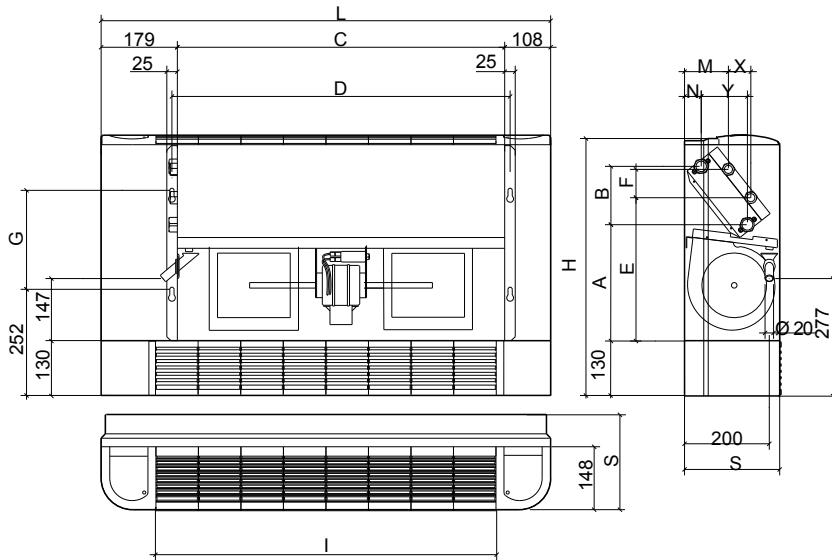
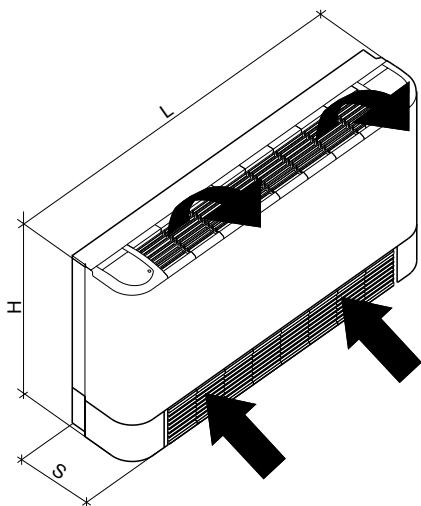
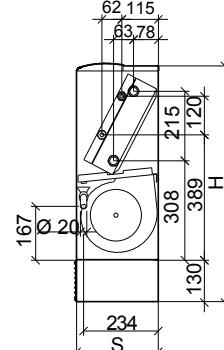
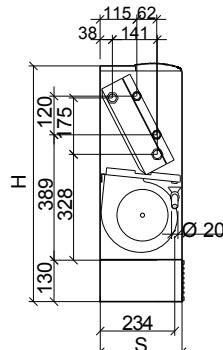
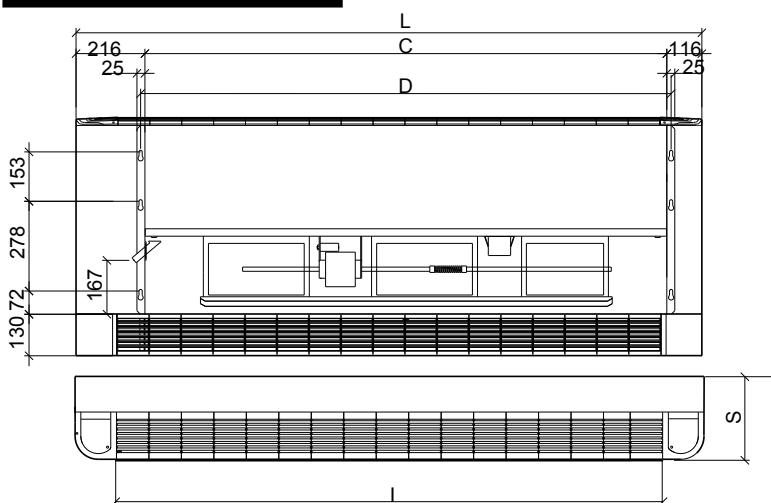


HC 100 - 120



N.B : On the models HC100, HC110 and HC120 the fold on the cabined is not foreseen!

| COMFAIR | | HC | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
|----------------------------|---|----|-----|-----|------|------|------|------|------|------|------|------|------|------|
| Dimensions | H | mm | 480 | 480 | 480 | 480 | 480 | 480 | 580 | 580 | 580 | 602 | 602 | 602 |
| | L | mm | 660 | 860 | 1060 | 1060 | 1260 | 1260 | 1260 | 1460 | 1460 | 1460 | 1661 | 1961 |
| | S | mm | 225 | 225 | 225 | 225 | 225 | 225 | 225 | 225 | 225 | 225 | 257 | 257 |
| | C | mm | 370 | 570 | 770 | 770 | 970 | 970 | 970 | 1170 | 1170 | 1170 | 1335 | 1635 |
| Distance between slots | D | mm | 395 | 595 | 795 | 795 | 995 | 995 | 995 | 1195 | 1195 | 1362 | 1662 | 1662 |
| | G | mm | 233 | 233 | 233 | 233 | 233 | 233 | 253 | 253 | 253 | - | - | - |
| Standard coil | N | mm | 39 | 39 | 39 | 39 | 39 | 39 | 41 | 41 | 41 | - | - | - |
| | Y | mm | 109 | 109 | 109 | 109 | 109 | 109 | 107 | 107 | 107 | - | - | - |
| | A | mm | 274 | 274 | 274 | 274 | 274 | 274 | 268 | 268 | 268 | - | - | - |
| | B | mm | 137 | 137 | 137 | 137 | 137 | 137 | 253 | 253 | 253 | - | - | - |
| Auxiliary coil | M | mm | 103 | 103 | 103 | 103 | 103 | 103 | 101 | 101 | 101 | - | - | - |
| | X | mm | 53 | 53 | 53 | 53 | 53 | 53 | 52 | 52 | 52 | - | - | - |
| | E | mm | 337 | 337 | 337 | 337 | 337 | 337 | 374 | 374 | 374 | - | - | - |
| | F | mm | 67 | 67 | 67 | 67 | 67 | 67 | 124 | 124 | 124 | - | - | - |
| N° of grilles, 100 mm step | | I | Nr | 4 | 6 | 8 | 8 | 10 | 10 | 10 | 12 | 12 | 14 | 17 |

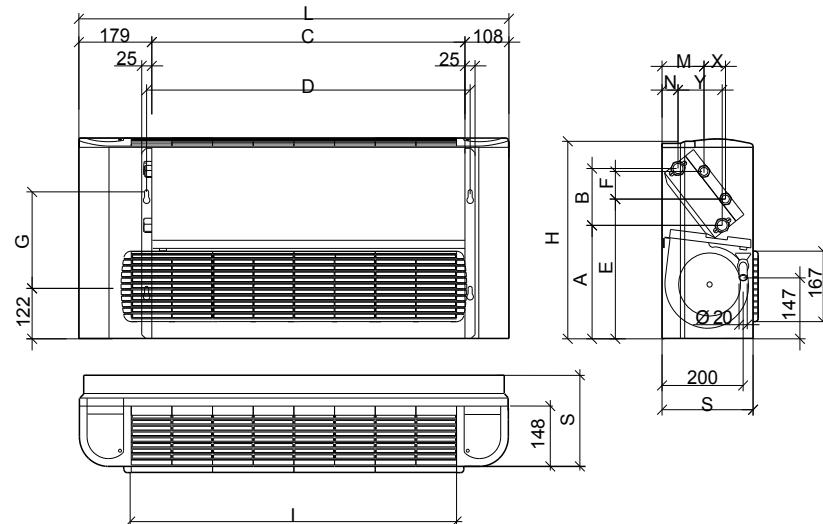
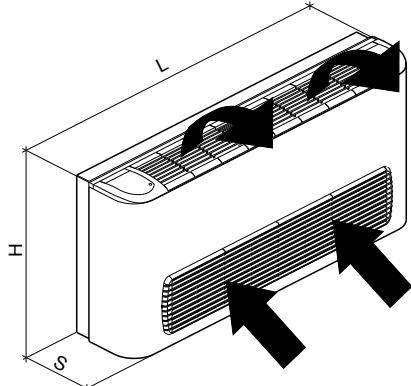
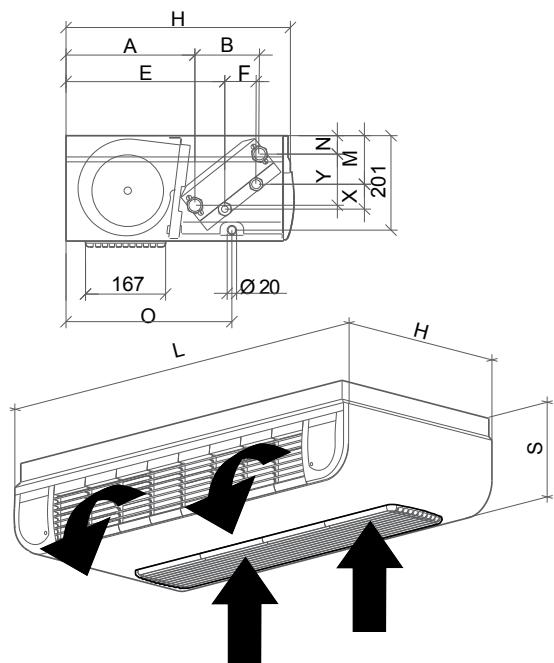
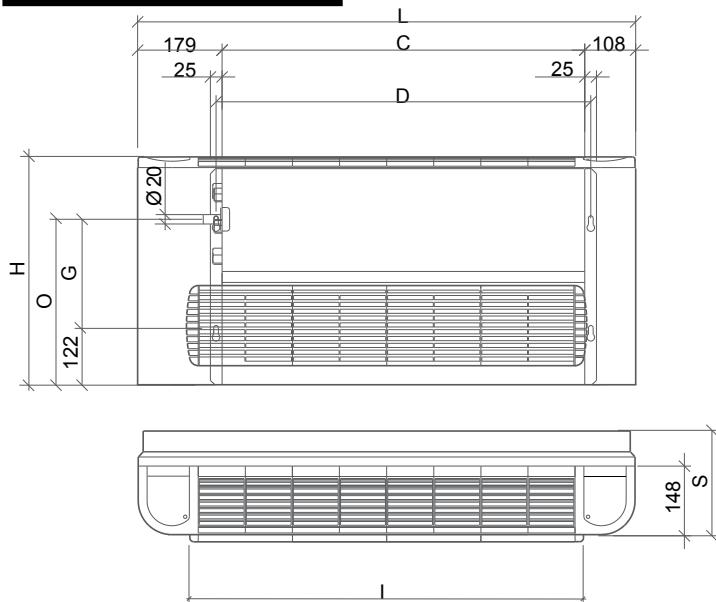
VERSION 8**Wall mounted with cabinet (frontal air intake with cabinet)****HC 18 - 98****HC 108 - 128**

Left version

Right version

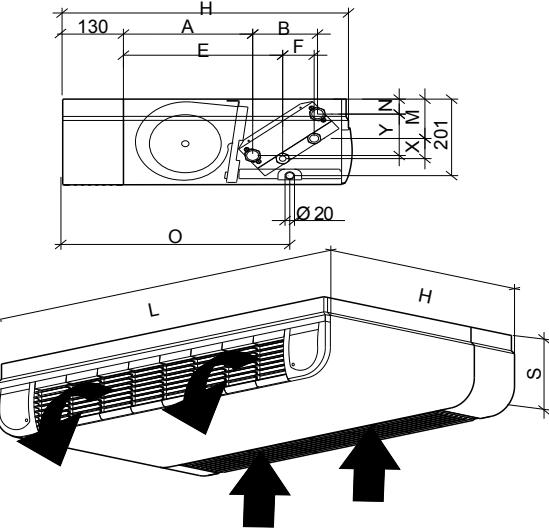
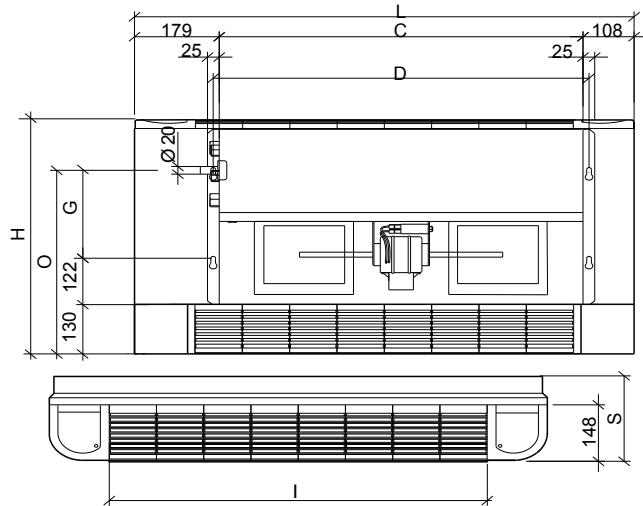
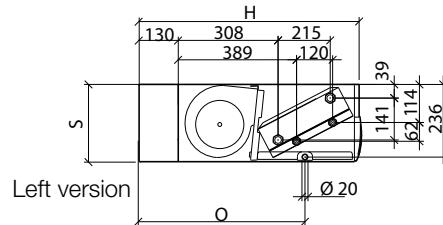
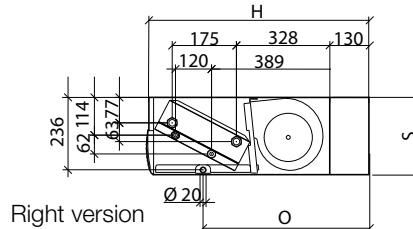
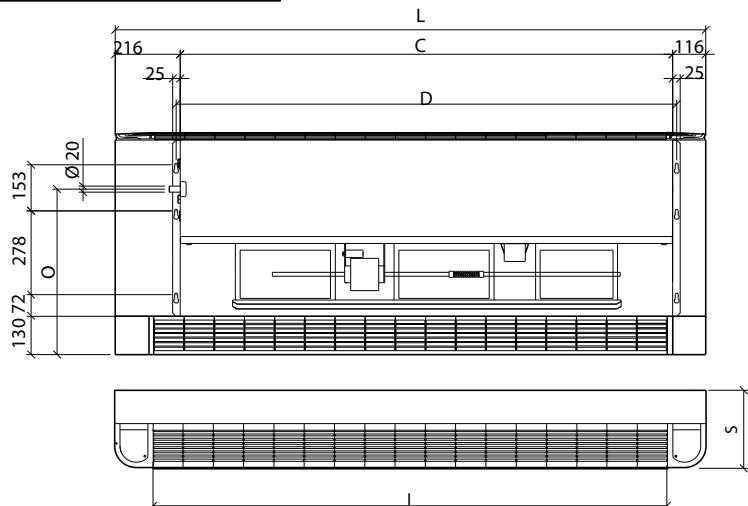
N.B : On the models HC108, HC118 and HC128 the fold on the cabined is not foreseen!

| COMFAIR | | HC | 18 | 28 | 38 | 48 | 58 | 68 | 78 | 88 | 98 | 108 | 118 | 128 |
|----------------------------|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| Dimensions | H | mm | 610 | 610 | 610 | 610 | 610 | 610 | 715 | 715 | 715 | 735 | 735 | 735 |
| | L | mm | 660 | 860 | 1060 | 1060 | 1260 | 1260 | 1260 | 1460 | 1460 | 1460 | 1661 | 1961 |
| | S | mm | 225 | 225 | 225 | 225 | 225 | 225 | 225 | 225 | 225 | 225 | 257 | 257 |
| | C | mm | 370 | 570 | 770 | 770 | 970 | 970 | 970 | 1170 | 1170 | 1170 | 1335 | 1635 |
| Distance between slots | D | mm | 395 | 595 | 795 | 795 | 995 | 995 | 995 | 1195 | 1195 | 1362 | 1662 | 1662 |
| | G | mm | 233 | 233 | 233 | 233 | 233 | 233 | 253 | 253 | 253 | - | - | - |
| Standard coil | N | mm | 39 | 39 | 39 | 39 | 39 | 39 | 41 | 41 | 41 | - | - | - |
| | Y | mm | 109 | 109 | 109 | 109 | 109 | 109 | 107 | 107 | 107 | - | - | - |
| | A | mm | 274 | 274 | 274 | 274 | 274 | 274 | 268 | 268 | 268 | - | - | - |
| | B | mm | 137 | 137 | 137 | 137 | 137 | 137 | 253 | 253 | 253 | - | - | - |
| Auxiliary coil | M | mm | 103 | 103 | 103 | 103 | 103 | 103 | 101 | 101 | 101 | - | - | - |
| | X | mm | 53 | 53 | 53 | 53 | 53 | 53 | 52 | 52 | 52 | - | - | - |
| | E | mm | 337 | 337 | 337 | 337 | 337 | 337 | 374 | 374 | 374 | - | - | - |
| | F | mm | 67 | 67 | 67 | 67 | 67 | 67 | 124 | 124 | 124 | - | - | - |
| N° of grilles, 100 mm step | I | Nr | 4 | 6 | 8 | 8 | 10 | 10 | 10 | 12 | 12 | 14 | 17 | 17 |

VERSION 5**Wall mounted with cabinet (frontal air intake)****HC 15 - 95****VERSION 4****Horizontal ceiling models with cabinet (bottom air intake)****HC 14 - 94**

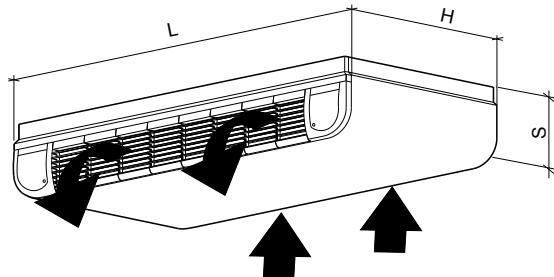
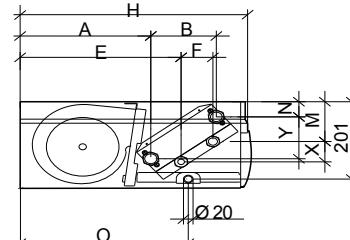
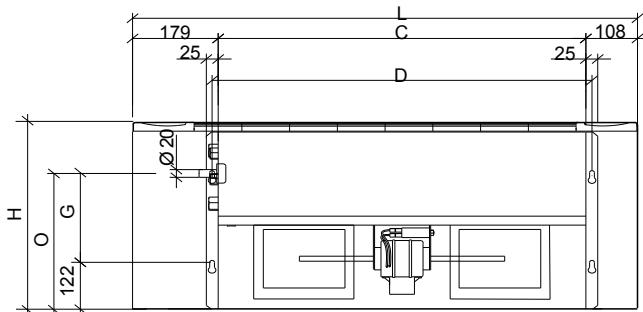
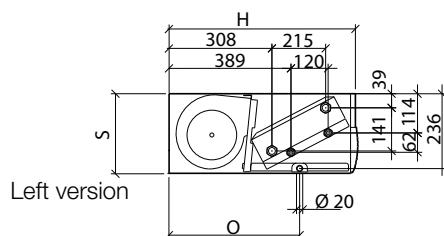
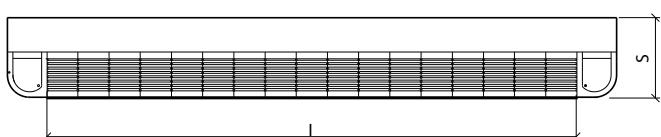
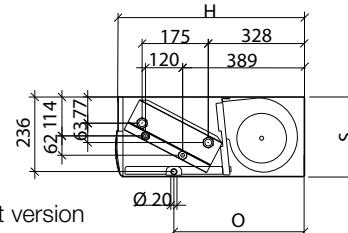
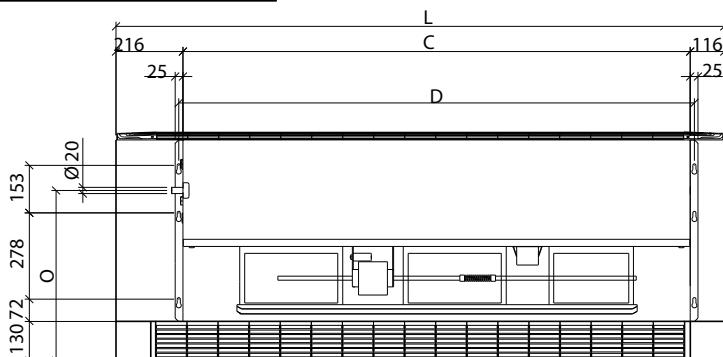
VERSIONS 5 AND 4

| COMFAIR | | HC | 15 | 25 | 35 | 45 | 55 | 65 | 75 | 85 | 95 |
|----------------------------|---|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | | 14 | 24 | 34 | 44 | 54 | 64 | 74 | 84 | 94 |
| Dimensions | H | mm | 480 | 480 | 480 | 480 | 480 | 480 | 585 | 585 | 585 |
| | L | mm | 660 | 860 | 1060 | 1060 | 1260 | 1260 | 1260 | 1460 | 1460 |
| | S | mm | 225 | 225 | 225 | 225 | 225 | 225 | 225 | 225 | 225 |
| | C | mm | 370 | 570 | 770 | 770 | 970 | 970 | 970 | 1.170 | 1.170 |
| Distance between slots | D | mm | 395 | 595 | 795 | 795 | 995 | 995 | 995 | 1.195 | 1.195 |
| | G | mm | 233 | 233 | 233 | 233 | 233 | 233 | 253 | 253 | 253 |
| Standard coil | N | mm | 39 | 39 | 39 | 39 | 39 | 39 | 41 | 41 | 41 |
| | Y | mm | 109 | 109 | 109 | 109 | 109 | 109 | 107 | 107 | 107 |
| | A | mm | 274 | 274 | 274 | 274 | 274 | 274 | 268 | 268 | 268 |
| | B | mm | 137 | 137 | 137 | 137 | 137 | 137 | 253 | 253 | 253 |
| Auxiliary coil | M | mm | 103 | 103 | 103 | 103 | 103 | 103 | 101 | 101 | 101 |
| | X | mm | 53 | 53 | 53 | 53 | 53 | 53 | 52 | 52 | 52 |
| | E | mm | 337 | 337 | 337 | 337 | 337 | 337 | 374 | 374 | 374 |
| | F | mm | 67 | 67 | 67 | 67 | 67 | 67 | 124 | 124 | 124 |
| N° of grilles, 100 mm step | I | Nr | 4 | 6 | 8 | 8 | 10 | 10 | 10 | 12 | 12 |
| Condensate discharge | O | mm | 352 | 352 | 352 | 402 | 402 | 402 | 372 | 372 | 372 |

VERSION 1
Horizontal ceiling models with cabinet (bottom air intake with socle)
HC 11 - 91

HC 101 - 121


N.B : On the models HC101, HC111 and HC121 the fold on the cabined is not foreseen!

| COMFAIR | | HC | 11 | 21 | 31 | 41 | 51 | 61 | 71 | 81 | 91 | 101 | 111 | 121 |
|----------------------------|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| Dimensions | H | mm | 610 | 610 | 610 | 610 | 610 | 610 | 710 | 710 | 710 | 732 | 732 | 732 |
| | L | mm | 660 | 860 | 1060 | 1060 | 1260 | 1260 | 1260 | 1460 | 1460 | 1661 | 1961 | 1961 |
| | S | mm | 225 | 225 | 225 | 225 | 225 | 225 | 225 | 225 | 225 | 257 | 257 | 257 |
| | C | mm | 370 | 570 | 770 | 770 | 970 | 970 | 970 | 1170 | 1170 | 1335 | 1635 | 1635 |
| Distance between slots | D | mm | 395 | 595 | 795 | 795 | 995 | 995 | 995 | 1195 | 1195 | 1362 | 1662 | 1662 |
| | G | mm | 233 | 233 | 233 | 233 | 233 | 233 | 253 | 253 | 253 | - | - | - |
| Standard coil | N | mm | 39 | 39 | 39 | 39 | 39 | 39 | 41 | 41 | 41 | - | - | - |
| | Y | mm | 109 | 109 | 109 | 109 | 109 | 109 | 107 | 107 | 107 | - | - | - |
| | A | mm | 274 | 274 | 274 | 274 | 274 | 274 | 268 | 268 | 268 | - | - | - |
| | B | mm | 137 | 137 | 137 | 137 | 137 | 137 | 253 | 253 | 253 | - | - | - |
| Auxiliary coil | M | mm | 103 | 103 | 103 | 103 | 103 | 103 | 101 | 101 | 101 | - | - | - |
| | X | mm | 53 | 53 | 53 | 53 | 53 | 53 | 52 | 52 | 52 | - | - | - |
| | E | mm | 337 | 337 | 337 | 337 | 337 | 337 | 374 | 374 | 374 | - | - | - |
| | F | mm | 67 | 67 | 67 | 67 | 67 | 67 | 124 | 124 | 124 | - | - | - |
| N° of grilles, 100 mm step | I | Nr | 4 | 6 | 8 | 8 | 10 | 10 | 10 | 12 | 12 | 14 | 17 | 17 |
| Condensate discharge | O | mm | 482 | 482 | 482 | 482 | 482 | 482 | 532 | 532 | 532 | 552 | 552 | 552 |

VERSION 9**Horizontal ceiling models with cabinet (bottom air intake with socle)****HC 19 - 99****HC 109 - 129**

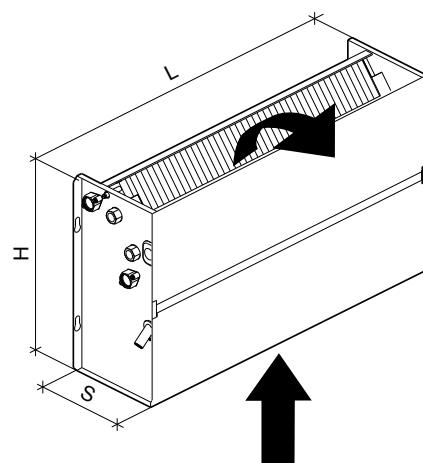
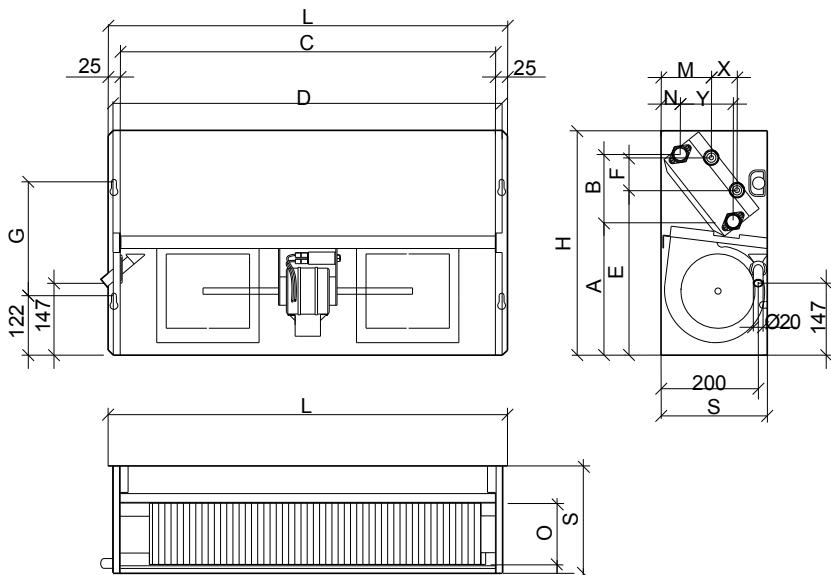
N.B : On the models HC109, HC119 and HC129 the fold on the cabined is not foreseen!

| COMFAIR | | HC | 19 | 29 | 39 | 49 | 59 | 69 | 79 | 89 | 99 | 109 | 119 | 129 |
|----------------------------|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| Dimensions | H | mm | 480 | 480 | 480 | 480 | 480 | 480 | 580 | 580 | 580 | 602 | 602 | 602 |
| | L | mm | 660 | 860 | 1060 | 1060 | 1260 | 1260 | 1260 | 1460 | 1460 | 1661 | 1961 | 1961 |
| | S | mm | 225 | 225 | 225 | 225 | 225 | 225 | 225 | 225 | 225 | 257 | 257 | 257 |
| | C | mm | 370 | 570 | 770 | 770 | 970 | 970 | 970 | 1170 | 1170 | 1335 | 1635 | 1635 |
| Distance between slots | D | mm | 395 | 595 | 795 | 795 | 995 | 995 | 995 | 1195 | 1195 | 1362 | 1662 | 1662 |
| | G | mm | 233 | 233 | 233 | 233 | 233 | 233 | 253 | 253 | 253 | - | - | - |
| Standard coil | N | mm | 39 | 39 | 39 | 39 | 39 | 39 | 41 | 41 | 41 | - | - | - |
| | Y | mm | 109 | 109 | 109 | 109 | 109 | 109 | 107 | 107 | 107 | - | - | - |
| | A | mm | 274 | 274 | 274 | 274 | 274 | 274 | 268 | 268 | 268 | - | - | - |
| | B | mm | 137 | 137 | 137 | 137 | 137 | 137 | 253 | 253 | 253 | - | - | - |
| Auxiliary coil | M | mm | 103 | 103 | 103 | 103 | 103 | 103 | 101 | 101 | 101 | - | - | - |
| | X | mm | 53 | 53 | 53 | 53 | 53 | 53 | 52 | 52 | 52 | - | - | - |
| | E | mm | 337 | 337 | 337 | 337 | 337 | 337 | 374 | 374 | 374 | - | - | - |
| | F | mm | 67 | 67 | 67 | 67 | 67 | 67 | 124 | 124 | 124 | - | - | - |
| N° of grilles, 100 mm step | I | Nr | 4 | 6 | 8 | 8 | 10 | 10 | 10 | 12 | 12 | 14 | 17 | 17 |
| Condensate discharge | O | mm | 352 | 352 | 352 | 352 | 352 | 352 | 402 | 402 | 402 | 422 | 422 | 422 |

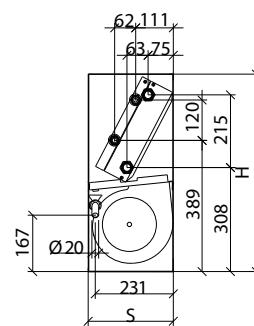
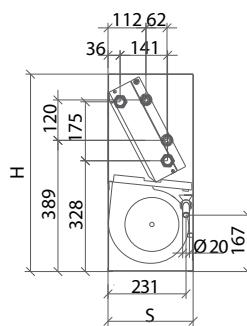
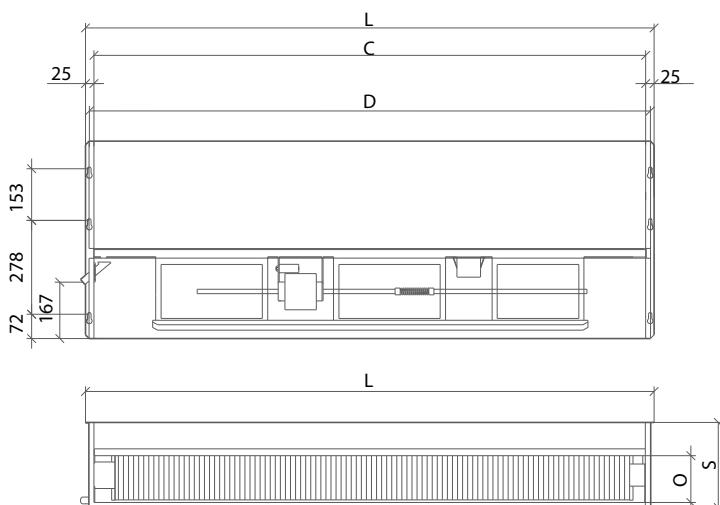
VERSION 2

Vertical recessed model (top air discharge)

HC 12 - 92



HC 102 - 122



Left version

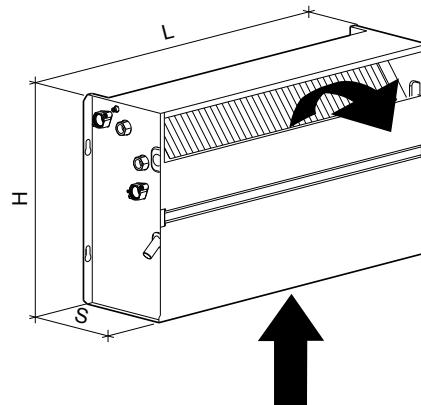
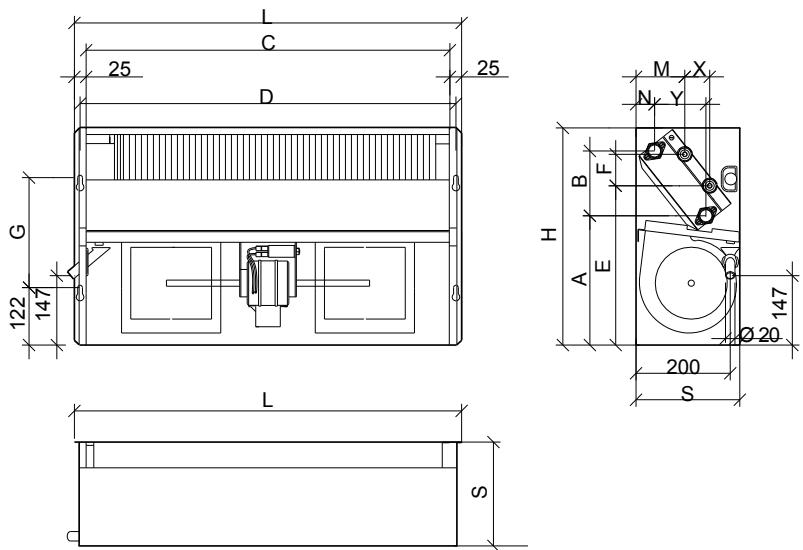
Right version

| COMFAIR | | HC | 12 | 22 | 32 | 42 | 52 | 62 | 72 | 82 | 92 | 102 | 112 | 122 |
|------------------------|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| Dimensions | H | mm | 460 | 460 | 460 | 460 | 460 | 460 | 565 | 565 | 565 | 585 | 585 | 585 |
| | L | mm | 420 | 620 | 820 | 820 | 1020 | 1020 | 1020 | 1220 | 1220 | 1385 | 1685 | 1685 |
| | S | mm | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 252 | 252 | 252 |
| | C | mm | 370 | 570 | 770 | 770 | 970 | 970 | 970 | 1170 | 1170 | 1335 | 1635 | 1635 |
| Distance between slots | D | mm | 395 | 595 | 795 | 795 | 995 | 995 | 995 | 1195 | 1195 | 1362 | 1662 | 1662 |
| | G | mm | 233 | 233 | 233 | 233 | 233 | 233 | 253 | 253 | 253 | - | - | - |
| Standard coil | N | mm | 39 | 39 | 39 | 39 | 39 | 39 | 41 | 41 | 41 | - | - | - |
| | Y | mm | 109 | 109 | 109 | 109 | 109 | 109 | 107 | 107 | 107 | - | - | - |
| | A | mm | 274 | 274 | 274 | 274 | 274 | 274 | 268 | 268 | 268 | - | - | - |
| | B | mm | 137 | 137 | 137 | 137 | 137 | 137 | 253 | 253 | 253 | - | - | - |
| Auxiliary coil | M | mm | 103 | 103 | 103 | 103 | 103 | 103 | 101 | 101 | 101 | - | - | - |
| | X | mm | 53 | 53 | 53 | 53 | 53 | 53 | 52 | 52 | 52 | - | - | - |
| | E | mm | 337 | 337 | 337 | 337 | 337 | 337 | 374 | 374 | 374 | - | - | - |
| | F | mm | 67 | 67 | 67 | 67 | 67 | 67 | 124 | 124 | 124 | - | - | - |
| Condensate discharge | O | mm | 134 | 134 | 134 | 134 | 134 | 134 | 119 | 119 | 119 | 139 | 139 | 139 |

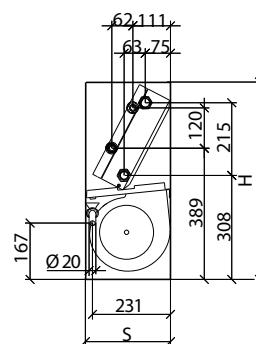
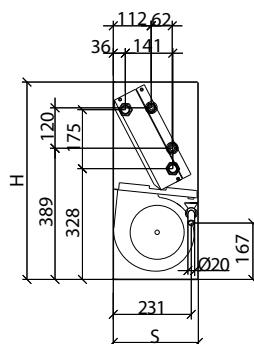
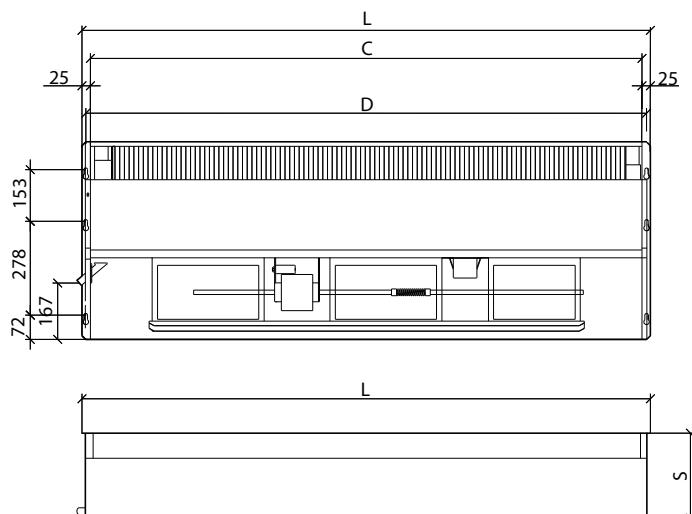
VERSION 7

Vertical recessed model (frontal air discharge)

HC 17 - 97



HC 107 - 127



Left version

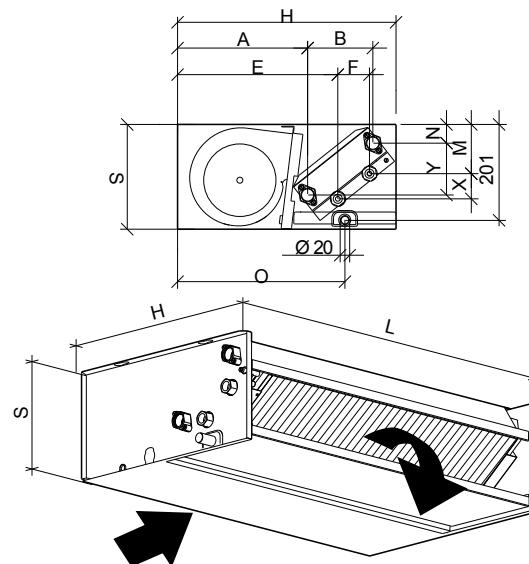
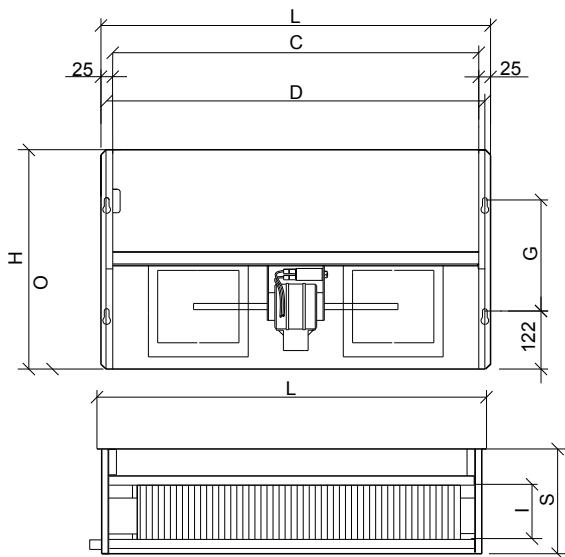
Right version

| COMFAIR | | HC | 17 | 27 | 37 | 47 | 57 | 67 | 77 | 87 | 97 | 107 | 117 | 127 |
|------------------------|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| Dimensions | H | mm | 460 | 460 | 460 | 460 | 460 | 460 | 565 | 565 | 565 | 585 | 585 | 585 |
| | L | mm | 420 | 620 | 820 | 820 | 1020 | 1020 | 1020 | 1220 | 1220 | 1385 | 1685 | 1685 |
| | S | mm | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 252 | 252 | 252 |
| | C | mm | 370 | 570 | 770 | 770 | 970 | 970 | 970 | 1170 | 1170 | 1335 | 1635 | 1635 |
| Distance between slots | D | mm | 395 | 595 | 795 | 795 | 995 | 995 | 995 | 1195 | 1195 | 1362 | 1662 | 1662 |
| | G | mm | 233 | 233 | 233 | 233 | 233 | 233 | 253 | 253 | 253 | - | - | - |
| Standard coil | N | mm | 39 | 39 | 39 | 39 | 39 | 39 | 41 | 41 | 41 | - | - | - |
| | Y | mm | 109 | 109 | 109 | 109 | 109 | 109 | 107 | 107 | 107 | - | - | - |
| | A | mm | 274 | 274 | 274 | 274 | 274 | 274 | 268 | 268 | 268 | - | - | - |
| | B | mm | 137 | 137 | 137 | 137 | 137 | 137 | 253 | 253 | 253 | - | - | - |
| Auxiliary coil | M | mm | 103 | 103 | 103 | 103 | 103 | 103 | 101 | 101 | 101 | - | - | - |
| | X | mm | 53 | 53 | 53 | 53 | 53 | 53 | 52 | 52 | 52 | - | - | - |
| | E | mm | 337 | 337 | 337 | 337 | 337 | 337 | 374 | 374 | 374 | - | - | - |
| | F | mm | 67 | 67 | 67 | 67 | 67 | 67 | 124 | 124 | 124 | - | - | - |

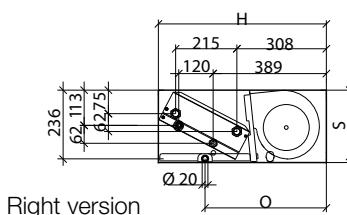
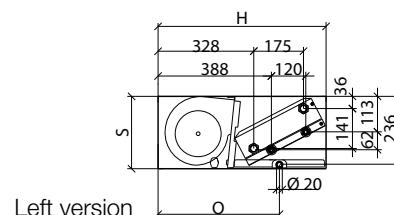
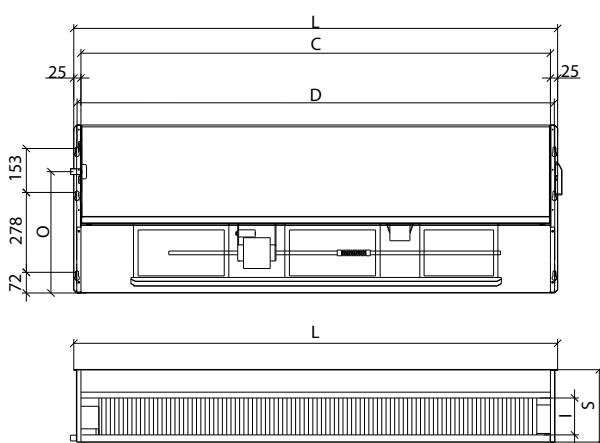
VERSION 3

Horizontal ceiling recessed model (top air discharge)

HC 13 - 93



HC 103 - 123

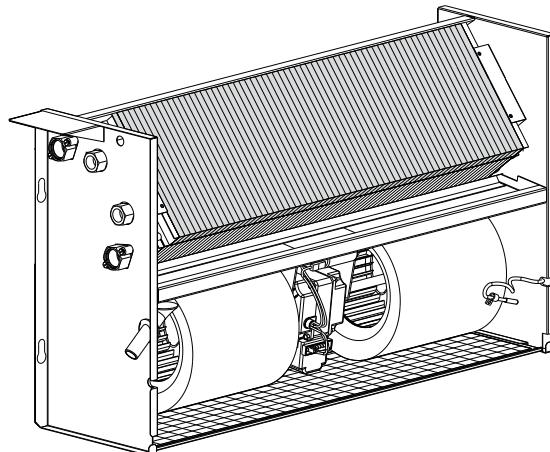


| COMFAIR | | HC | 13 | 23 | 33 | 43 | 53 | 63 | 73 | 83 | 93 | 103 | 113 | 123 |
|----------------------------|---|----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| Dimensions | H | mm | 460 | 460 | 460 | 460 | 460 | 460 | 565 | 565 | 565 | 585 | 585 | 585 |
| | L | mm | 420 | 620 | 820 | 820 | 1020 | 1020 | 1020 | 1220 | 1220 | 1385 | 1685 | 1685 |
| | S | mm | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 252 | 252 | 252 |
| | C | mm | 370 | 570 | 770 | 770 | 970 | 970 | 970 | 1170 | 1170 | 1335 | 1635 | 1635 |
| Distance between slots | D | mm | 395 | 595 | 795 | 795 | 995 | 995 | 995 | 1195 | 1195 | 1362 | 1662 | 1662 |
| | G | mm | 233 | 233 | 233 | 233 | 233 | 233 | 253 | 253 | 253 | - | - | - |
| Standard coil | N | mm | 39 | 39 | 39 | 39 | 39 | 39 | 41 | 41 | 41 | - | - | - |
| | Y | mm | 109 | 109 | 109 | 109 | 109 | 109 | 107 | 107 | 107 | - | - | - |
| | A | mm | 274 | 274 | 274 | 274 | 274 | 274 | 268 | 268 | 268 | - | - | - |
| | B | mm | 137 | 137 | 137 | 137 | 137 | 137 | 253 | 253 | 253 | - | - | - |
| Auxiliary coil | M | mm | 103 | 103 | 103 | 103 | 103 | 103 | 101 | 101 | 101 | - | - | - |
| | X | mm | 53 | 53 | 53 | 53 | 53 | 53 | 52 | 52 | 52 | - | - | - |
| | E | mm | 337 | 337 | 337 | 337 | 337 | 337 | 374 | 374 | 374 | - | - | - |
| | F | mm | 67 | 67 | 67 | 67 | 67 | 67 | 124 | 124 | 124 | - | - | - |
| N° of grilles, 100 mm step | I | Nr | 115 | 115 | 115 | 115 | 115 | 115 | 99 | 99 | 99 | 129 | 129 | 129 |
| Condensate discharge | O | mm | 352 | 352 | 352 | 352 | 352 | 352 | 402 | 402 | 402 | 422 | 422 | 422 |

SINGLE ROW AUXILIARY COIL

This is used in 4-pipe systems, which comprise 2 independent water circuits: one for cooling and the other for heating. In this case, the auxiliary coil is used for heating. The constructional characteristics are similar to those of the main coil with brass inlet/outlet headers and air valves. The fittings have a diameter of 1/2" with internal GAS thread.

The fan coil model in which the auxiliary coil is to be installed must be specified at the time of ordering.

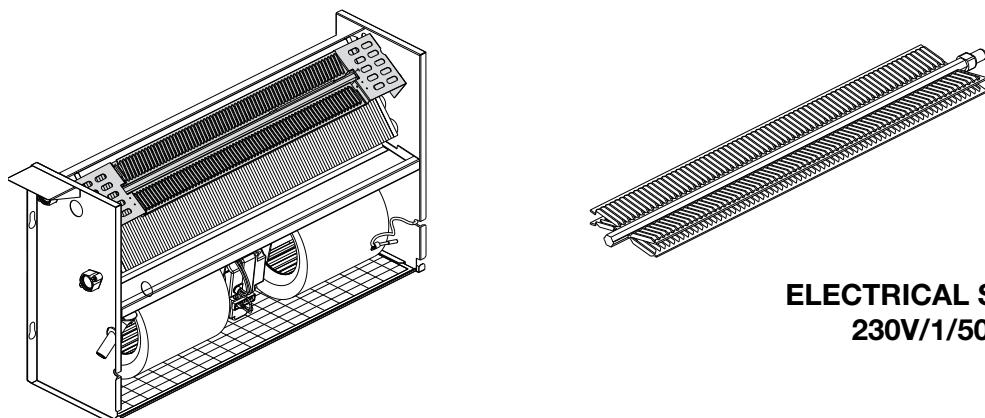


| COMFAIR | HC | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
|----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| Heating capacity | W | 1261 | 1894 | 2726 | 2887 | 3489 | 4131 | 5044 | 6193 | 7665 | 8388 | 10111 | 11433 |
| | kCal/h | 1087 | 1633 | 2350 | 2489 | 3008 | 3561 | 4348 | 5339 | 6608 | 7231 | 8716 | 9856 |
| Water flow | l/h | 109 | 163 | 235 | 249 | 301 | 356 | 435 | 534 | 661 | 739 | 981 | 1008 |
| | l/s | 0,03 | 0,405 | 0,065 | 0,069 | 0,084 | 0,176 | 0,121 | 0,148 | 0,184 | 0,205 | 0,273 | 0,28 |
| Water pressure drops | kPa | 0,3 | 0,7 | 1,7 | 2 | 3,4 | 4,2 | 7,5 | 13,9 | 21,7 | 48,4 | 27 | 34 |
| | m C.A. | 0,03 | 0,07 | 0,17 | 0,2 | 0,34 | 0,42 | 0,75 | 1,39 | 2,17 | 4,84 | 2,7 | 3,4 |

The technical data refer to the following conditions: maximum fan speed, indicated water flow rate, inflowing water temperature at 70°C, inflowing air temperature at 20°C.

ELECTRICAL HEATER

The heating element kit is used during heating to integrate the heating power of the main coil or alternative as the only heating element. The power of the heating element depends on the size of the fan coil on which it is mounted; the larger the fan coil, the greater the power of the heating element. The kit comprises the heating element with aluminium heatsink, safety thermostat, control relay and relative wiring and is already built into the fan coil complete with all electrical connections.



**ELECTRICAL SUPPLY:
230V/1/50HZ**

| COMFAIR | HC | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| Heating capacity | W | - | 1000 | 1000 | 1000 | 2000 | 2000 | 2000 | 3000 | 3000 | * | * | * |
| | A | - | 4,35 | 4,35 | 4,35 | 8,7 | 8,7 | 8,7 | 13,04 | 13,04 | * | * | * |

* On request

ON/OFF 2-WAY VALVE KIT

ON/OFF 2-way solenoid valves with bypass (2 fittings) are available.

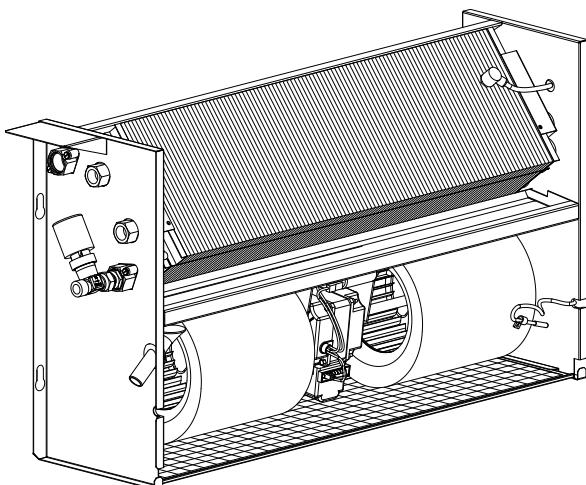
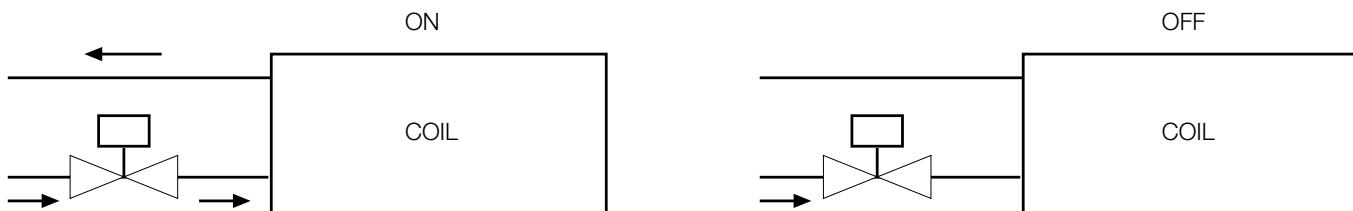
The valve body is in brass; as ON/OFF electrothermal actuator (power supply 230V AC) controls the membrane. When there is no power supply, the valve is closed. The electrothermal actuator is silent during operation.

The kit comprises valve body, electrothermal actuator, flared copper pipes, ring nuts and gaskets for fixing to the fan coil. The valve kit is already installed on the fan coil complete with the water and electrical connections necessary for operation.

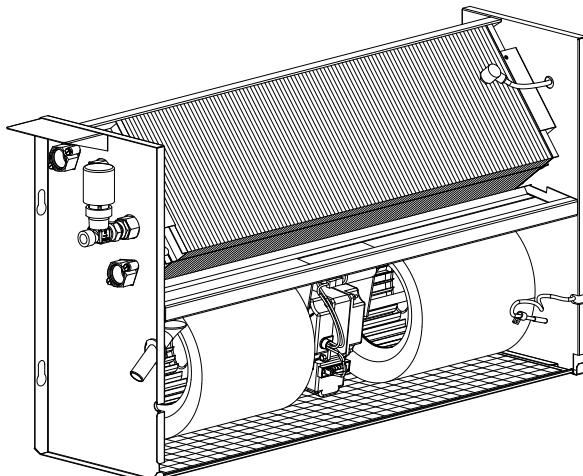
The fan coil model and the coil (standard or auxiliary) to which the kit refers must be specified at the time of ordering.

TECHNICAL DATA:

| | | |
|--|-----------|-------------------------------|
| Electrical power supply | V/Hz | 230/50-60 |
| Input | VA | 3 |
| Breakaway starting current | A (230 V) | 0,3 |
| Working current | A (230 V) | 0,013 |
| Max travel | mm | 4 |
| Pressure | N | 90 |
| Opening time | min | 3 |
| Max. differential pressure (with valve Ø 1/2") | Bar | 1,5 |
| Max. differential pressure (with valve Ø 3/4") | Bar | 0,5 |
| Working room temperature | °C | 50 |
| Protection rating (vertical installation) | | IP43 |
| Protection rating (horizontal installation) | | IP40 |
| Insulation | | Double or reinforced |
| Connecting cable | | Two pin Ø 0,5 mm ² |
| Size | | 68,5x50x50 |

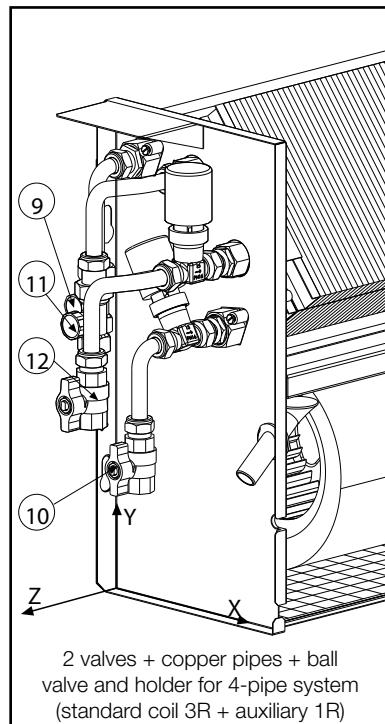
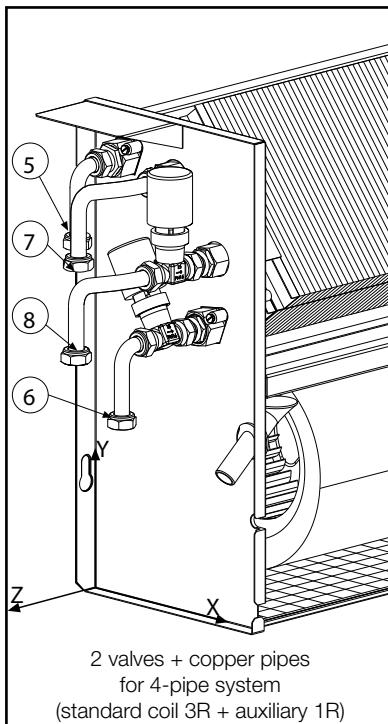
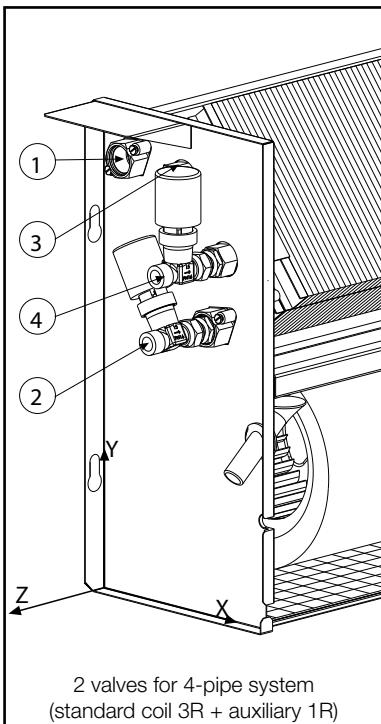


Installation on STANDARD COIL



Installation on AUXILIARY COIL

ON/OFF 2-WAY VALVE KIT



| COMFAIR | | HC 10 - 60 | | | | HC 70 - 90 | | | |
|-----------|------|------------|-----|-----|---------|------------|-----|-----|---------|
| Coil | Ref. | X | Y | Z | Fitting | X | Y | Z | Fitting |
| Standard | 1 | 40 | 10 | 18 | 3/4" F | 39 | 411 | 25 | 3/4" F |
| | 2 | 143 | 277 | 90 | 1/2" M | 145 | 273 | 110 | 3/4" M |
| Auxiliary | 3 | 113 | 405 | 10 | 1/2" F | 103 | 404 | 25 | 1/2" F |
| | 4 | 155 | 333 | 83 | 1/2" M | 155 | 373 | 95 | 3/4" M |
| Standard | 5 | 40 | 343 | 55 | 1/2" F | 38 | 483 | 55 | 3/4" F |
| | 6 | 145 | 213 | 120 | 1/2" F | 150 | 235 | 132 | 3/4" F |
| Auxiliary | 7 | 30 | 315 | 50 | 1/2" F | 30 | 400 | 62 | 3/4" F |
| | 8 | 80 | 245 | 105 | 1/2" F | 77 | 277 | 122 | 3/4" F |
| Standard | 9 | 40 | 260 | 55 | 1/2" F | 38 | 388 | 55 | 3/4" F |
| | 10 | 145 | 152 | 120 | 1/2" F | 150 | 175 | 132 | 3/4" F |
| Auxiliary | 11 | 30 | 233 | 50 | 1/2" F | 30 | 305 | 62 | 3/4" F |
| | 12 | 80 | 185 | 105 | 1/2" F | 77 | 220 | 122 | 3/4" F |

| COMFAIR | | HC 100 - 120 : left side | | | | HC 100 - 120 : right side | | | |
|-----------|------|--------------------------|-----|-----|---------|---------------------------|-----|-----|---------|
| Coil | Ref. | X | Y | Z | Fitting | X | Y | Z | Fitting |
| Standard | 1 | 34 | 503 | 4 | 3/4" M | 75 | 523 | 9 | 3/4" M |
| | 2 | 175 | 328 | 126 | 3/4" M | 137 | 308 | 130 | 3/4" M |
| Auxiliary | 3 | 110 | 508 | 4 | 1/2" M | 100 | 508 | 4 | 1/2" M |
| | 4 | 173 | 388 | 91 | 1/2" M | 174 | 388 | 126 | 1/2" M |
| Standard | 5 | 34 | 471 | 149 | 3/4" F | 32 | 484 | 150 | 3/4" F |
| | 6 | 175 | 286 | 149 | 3/4" F | 137 | 258 | 153 | 3/4" F |
| Auxiliary | 7 | 98 | 476 | 149 | 3/4" F | 96 | 469 | 150 | 3/4" F |
| | 8 | 134 | 304 | 156 | 3/4" F | 124 | 339 | 150 | 3/4" F |
| Standard | 9 | 36 | 355 | 149 | 1" F | 32 | 377 | 150 | 1" F |
| | 10 | 176 | 187 | 149 | 1" F | 137 | 167 | 153 | 1" F |
| Auxiliary | 11 | 100 | 381 | 149 | 3/4" F | 96 | 381 | 150 | 3/4" F |
| | 12 | 136 | 249 | 156 | 3/4" F | 174 | 292 | 150 | 3/4" F |

F = Female gas fittings: M = Male gas fittings

ON/OFF 3-WAY VALVE KIT

ON/OFF 3-way solenoid valves with bypass (4 fittings) are available.

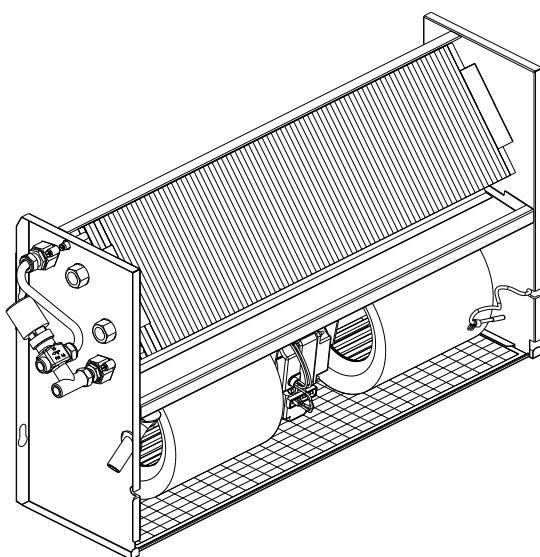
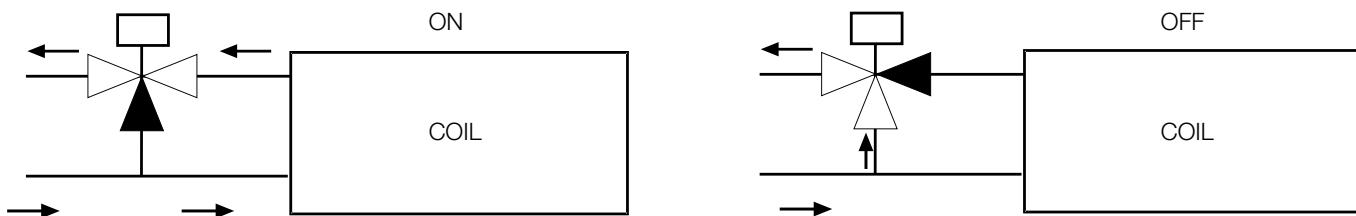
The valve body is in brass; as ON/OFF electrothermal actuator (power supply 230V AC) controls the membrane. When there is no power supply, the valve is closed. The electrothermal actuator is silent during operation.

The kit comprises valve body, electrothermal actuator, flared copper pipes, ring nuts and gaskets for fixing to the fan coil. The valve kit is already installed on the fan coil complete with the water and electrical connections necessary for operation.

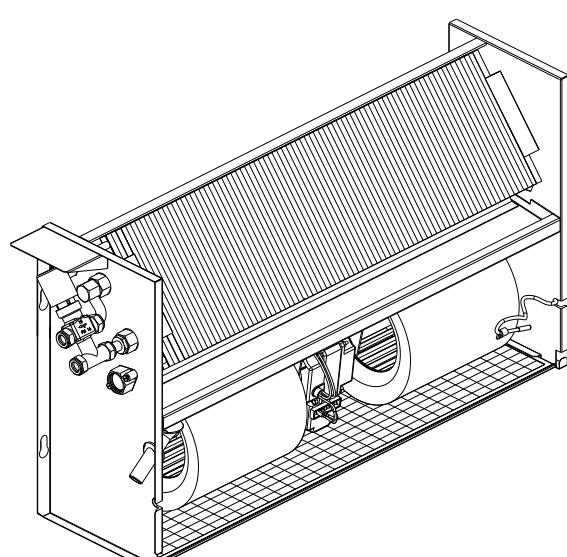
The fan coil model and the coil (standard or auxiliary) to which the kit refers must be specified at the time of ordering.

TECHNICAL DATA:

| | | |
|--|-----------|-------------------------------|
| Electrical power supply | V/Hz | 230/50-60 |
| Input | VA | 3 |
| Breakway starting current | A (230 V) | 0,3 |
| Working current | A (230 V) | 0,013 |
| Max travel | mm | 4 |
| Pressure | N | 90 |
| Opening time | min | 3 |
| Max. differential pressure (with valve Ø 1/2") | Bar | 1,5 |
| Max. differential pressure (with valve Ø 3/4") | Bar | 0,5 |
| Working room temperature | °C | 50 |
| Protection rating (vertical installation) | | IP43 |
| Protection rating (horizontal installation) | | IP40 |
| Insulation | | Double or reinforced |
| Connecting cable | | Two pin Ø 0,5 mm ² |
| Size | | 68,5x50x50 |

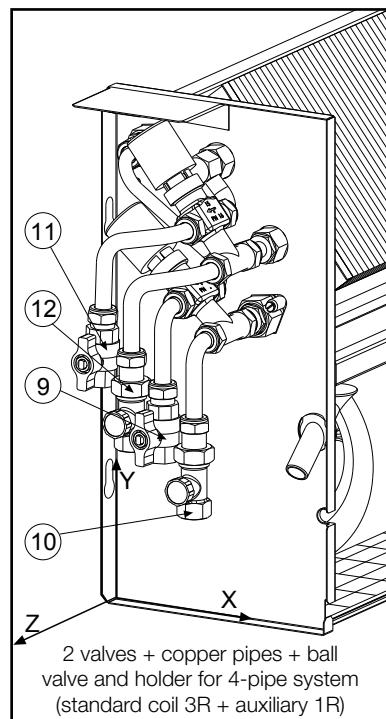
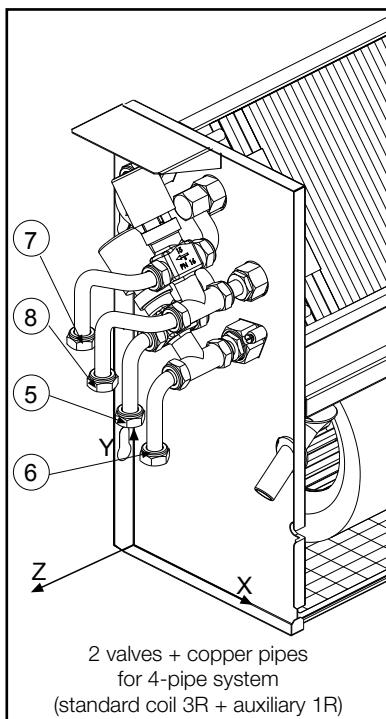
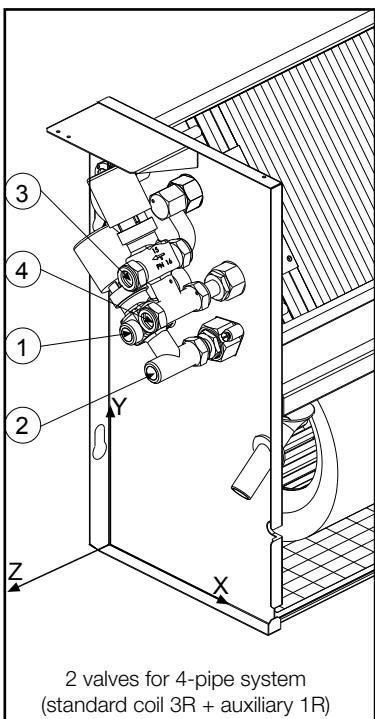


Installation on STANDARD COIL



Installation on AUXILIARY COIL

ON/OFF 3-WAY VALVE KIT



| COMFAIR | | HC 10 - 60 | | | | HC 70 - 90 | | | |
|-----------|------|------------|-----|-----|---------|------------|-----|-----|---------|
| Coil | Ref. | X | Y | Z | Fitting | X | Y | Z | Fitting |
| Standard | 1 | 115 | 295 | 90 | 1/2" M | 110 | 293 | 110 | 3/4" M |
| | 2 | 147 | 270 | 90 | 1/2" M | 145 | 273 | 110 | 3/4" M |
| Auxiliary | 3 | 130 | 370 | 92 | 1/2" M | 120 | 398 | 115 | 3/4" M |
| | 4 | 155 | 335 | 92 | 1/2" M | 153 | 375 | 115 | 3/4" M |
| Standard | 5 | 115 | 225 | 110 | 1/2" F | 110 | 255 | 133 | 3/4" F |
| | 6 | 147 | 200 | 110 | 1/2" F | 145 | 235 | 133 | 3/4" F |
| Auxiliary | 7 | 57 | 278 | 120 | 1/2" F | 40 | 302 | 145 | 3/4" F |
| | 8 | 85 | 250 | 120 | 1/2" F | 82 | 277 | 145 | 3/4" F |
| Standard | 9 | 115 | 165 | 110 | 1/2" F | 110 | 162 | 133 | 3/4" F |
| | 10 | 147 | 122 | 110 | 1/2" F | 145 | 178 | 133 | 3/4" F |
| Auxiliary | 11 | 55 | 220 | 117 | 1/2" F | 40 | 205 | 145 | 3/4" F |
| | 12 | 87 | 167 | 117 | 1/2" F | 82 | 220 | 145 | 3/4" F |

| COMFAIR | | HC 100 - 120 : left side | | | | HC 100 - 120 : right side | | | |
|-----------|------|--------------------------|-----|-----|---------|---------------------------|-----|-----|---------|
| Coil | Ref. | X | Y | Z | Fitting | X | Y | Z | Fitting |
| Standard | 1 | 85 | 376 | 125 | 3/4" M | 71 | 385 | 124 | 3/4" M |
| | 2 | 174 | 328 | 125 | 3/4" M | 135 | 307 | 124 | 3/4" M |
| Auxiliary | 3 | 140 | 413 | 106 | 1/2" M | 139 | 412 | 106 | 1/2" M |
| | 4 | 173 | 388 | 106 | 1/2" M | 171 | 387 | 106 | 1/2" M |
| Standard | 5 | 16 | 274 | 146 | 3/4" F | 30 | 263 | 158 | 3/4" F |
| | 6 | 176 | 285 | 146 | 3/4" F | 137 | 265 | 145 | 3/4" F |
| Auxiliary | 7 | 95 | 298 | 171 | 3/4" F | 87 | 330 | 158 | 3/4" F |
| | 8 | 135 | 303 | 171 | 3/4" F | 173 | 345 | 156 | 3/4" F |
| Standard | 9 | 16 | 160 | 146 | 1" F | 30 | 148 | 158 | 1" F |
| | 10 | 176 | 187 | 146 | 1" F | 137 | 167 | 145 | 1" F |
| Auxiliary | 11 | 95 | 244 | 171 | 3/4" F | 87 | 235 | 157 | 3/4" F |
| | 12 | 135 | 209 | 171 | 3/4" F | 173 | 291 | 156 | 3/4" F |

F = Female gas fittings: M = Male gas fittings

CONDENSATE DRAIN PUMP

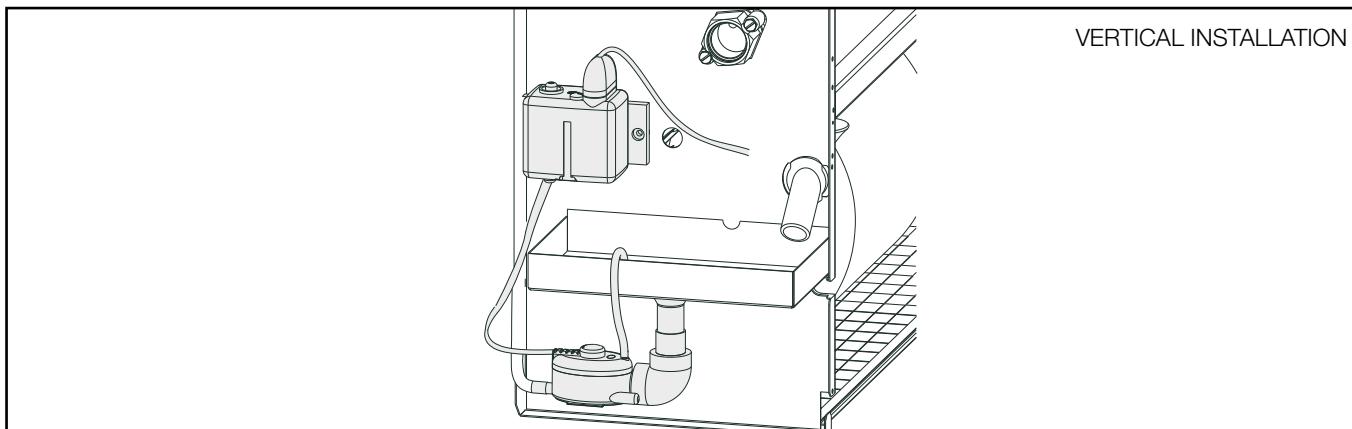
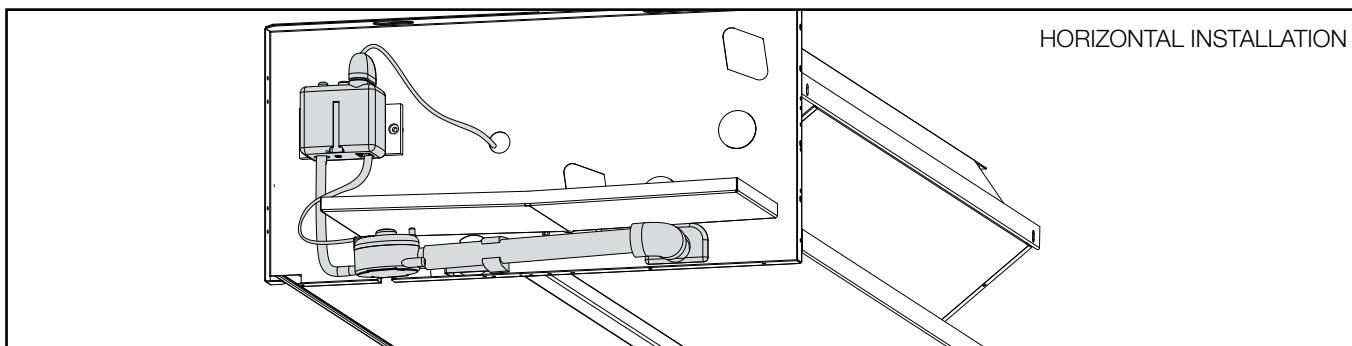
This pump is used to eliminate the condensation that collects in the tray in installations where there is no self-emptying outlet. The pump comes with filter to withhold impurities, float with activation contact, suction pipe, pump body complete with control electronics and overheating protection, wiring.

PUMP

Alarm contact normally closed that automatically cuts off the air conditioning system compressor or valve, thermal protection 90° on the pump coil, electrical connection by plug (delivered with 1 m cable), rubber mounting bracket included, ...

AVANTAGES

Small size, low noise level.



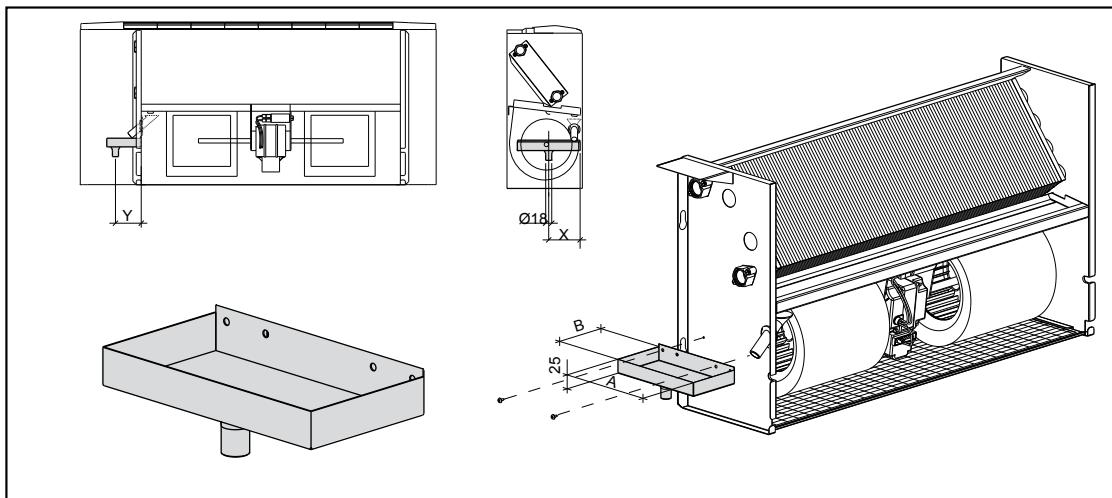
| COMFAIR | | For HC 1_ to HC 6_ | For HC 7_ to HC 12_ |
|---------------------------------------|-------------|---------------------------|----------------------------|
| Mains supply | V/Hz - W | 230/50Hz - 18 | |
| Max. flow rate | l/h | 8 | 20 |
| Max. suction head | m | 1 | 2 |
| Max. discharge head | m | 6 | |
| Alarm contact | | NC 8 A resistive | |
| Thermal protection (overheat) | °C | 90 | |
| Sound level at 1 m | dB(A) | <28 | <34 |
| Pump dimensions (L x l x h) | mm | 66 x 44 x 60 | |
| Detection unit dimensions (L x l x h) | mm | 55 x 38 x 32 | |
| Weight (including box) | kg | ±0.350 | |
| Packaging | Nr of boxes | 25 | |

AUXILIARY CONDENSATE COLLECTING TRAY

The painted, galvanised sheet metal auxiliary drip tray is used to collect condensate from the valves and the pipes connecting to the unit.

VERTICAL VERSION (INSULATED)

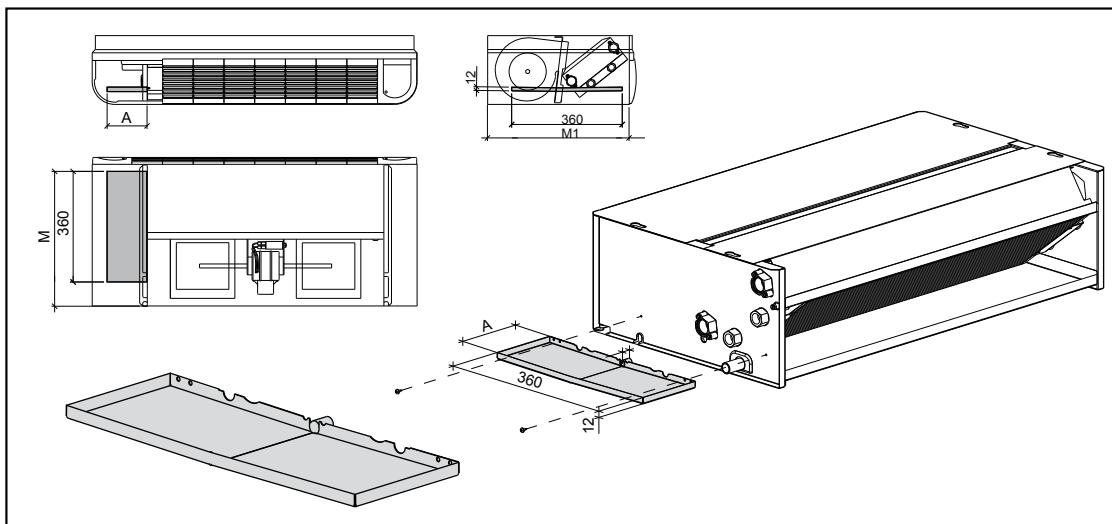
It is suitable for vertically mounted fan coils.



| COMFAIR | HC | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| A | mm | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 246 | 246 | 246 |
| B | mm | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 130 | 130 | 130 |
| X | mm | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 126 | 126 | 126 |
| Y | mm | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 65 | 65 | 65 |

HORIZONTAL VERSION (INSULATED)

It is suitable for vertically mounted fan coils.



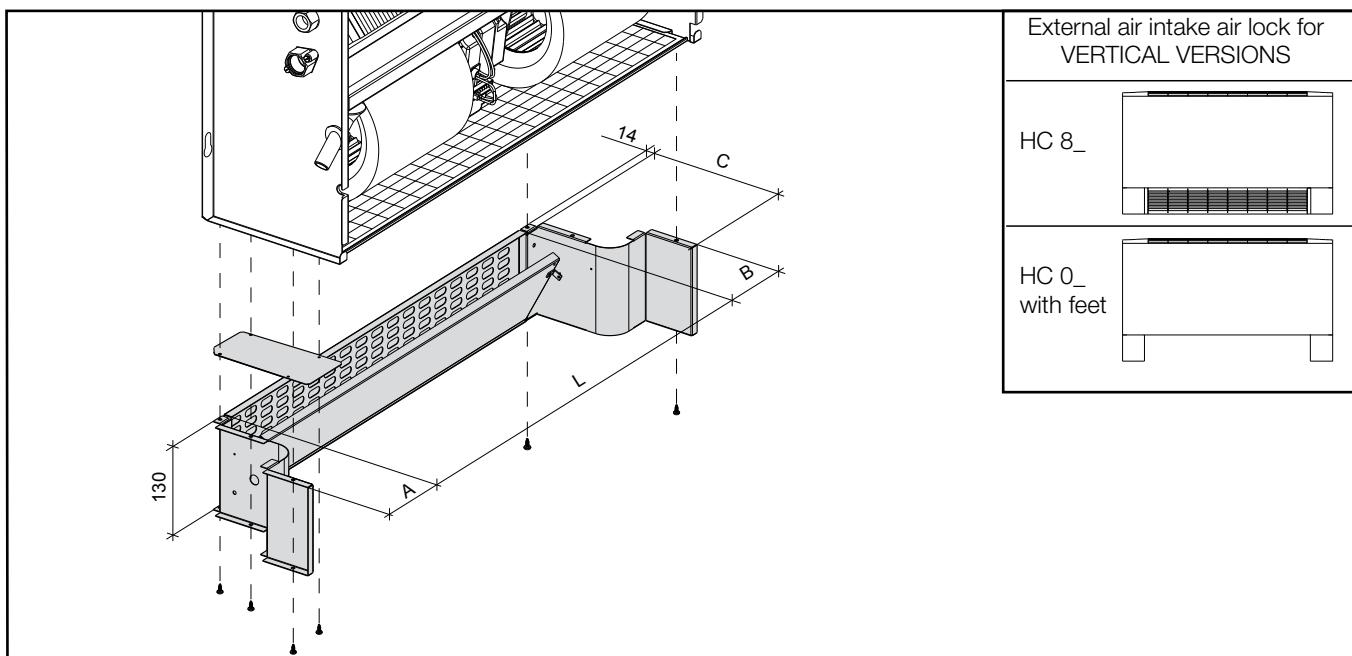
| COMFAIR | HC | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| A | mm | 130 | 130 | 130 | 130 | 130 | 130 | 160 | 160 | 160 | 160 | 160 | 160 |
| M | mm | 480 | 480 | 480 | 480 | 480 | 480 | 585 | 585 | 585 | 602 | 602 | 602 |
| M1 | mm | 460 | 460 | 460 | 460 | 460 | 460 | 565 | 565 | 565 | 585 | 585 | 585 |

FRESH AIR LOUVER

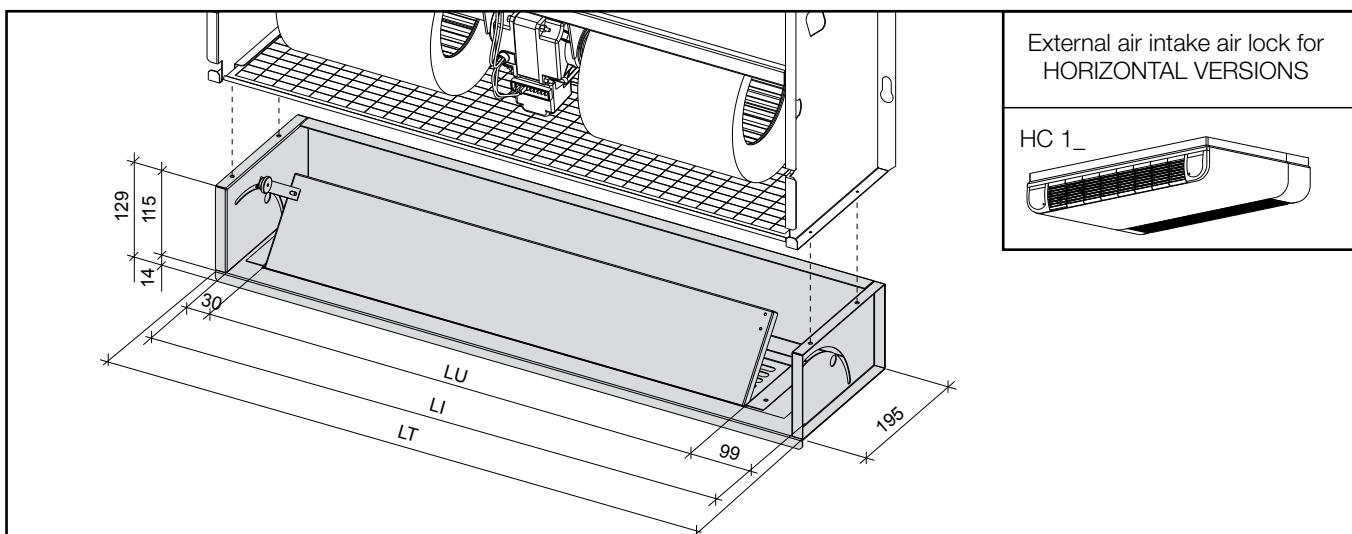
To ensure sufficient air in the rooms, a continuous change of air is necessary. This is done by introducing a percentage of air from outdoors. The external air intake lock is used for this purpose. It is installed at the bottom of the fan coil on the intake line. It may be installed on both the wall-mounted vertical and the ceiling-mounted horizontal versions. For correct installation, the fan coil must have a pair of feet or intake plinths. The air lock is made in galvanised sheet steel metal and may be provided with manual control (placed in line with the same) or with electric servo-control.

AIR FLOW:

Internal: 78% - External: 22% - Total: 100%



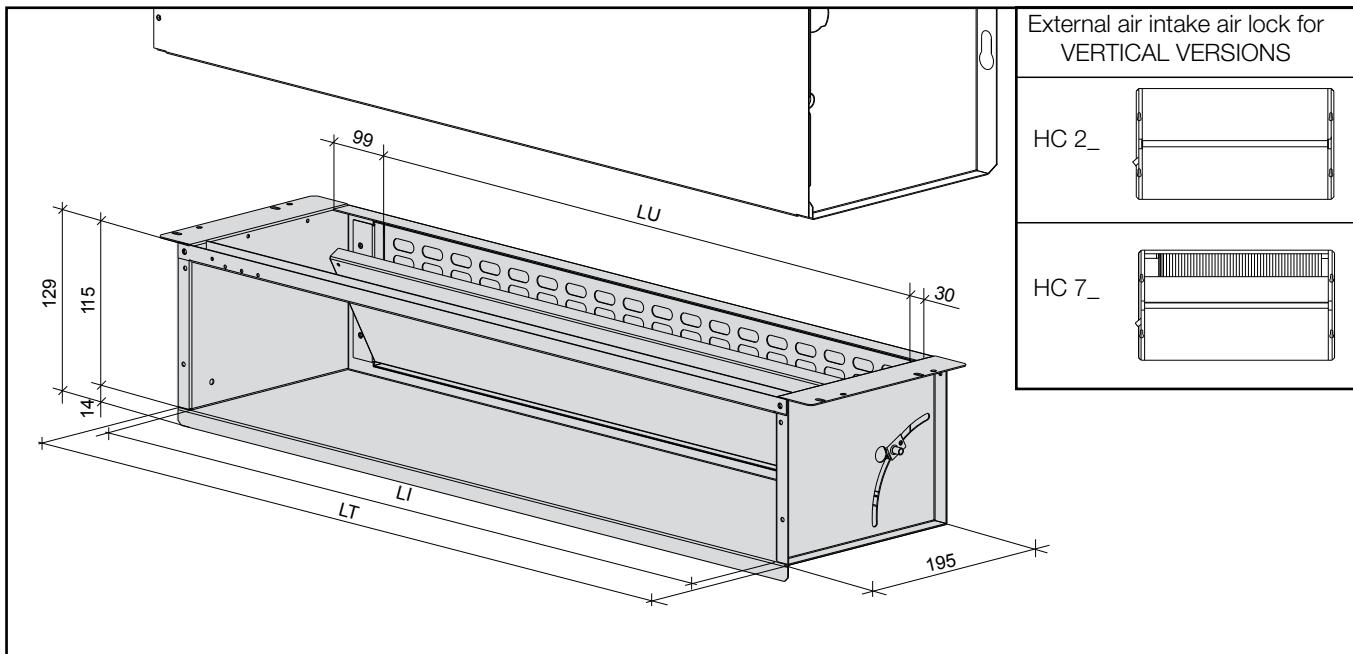
| COMFAIR | HC | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
|---------|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| | | 18 | 28 | 38 | 48 | 58 | 68 | 78 | 88 | 98 | 108 | 118 | 128 |
| L | mm | 255 | 455 | 655 | 655 | 855 | 855 | 855 | 1055 | 1055 | 1180 | 1480 | 1480 |
| A | mm | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 140 | 140 | 140 |
| B | mm | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 140 | 140 | 140 |
| C | mm | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 230 | 230 | 230 |



| COMFAIR | HC | 11 | 21 | 31 | 41 | 51 | 61 | 71 | 81 | 91 | 101 | 111 | 121 |
|---------|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| LU | mm | 253 | 453 | 653 | 653 | 853 | 853 | 853 | 1053 | 1053 | * | * | * |
| LI | mm | 367 | 567 | 767 | 767 | 967 | 967 | 967 | 1167 | 1167 | * | * | * |
| LT | mm | 397 | 597 | 797 | 797 | 997 | 997 | 997 | 1197 | 1197 | * | * | * |

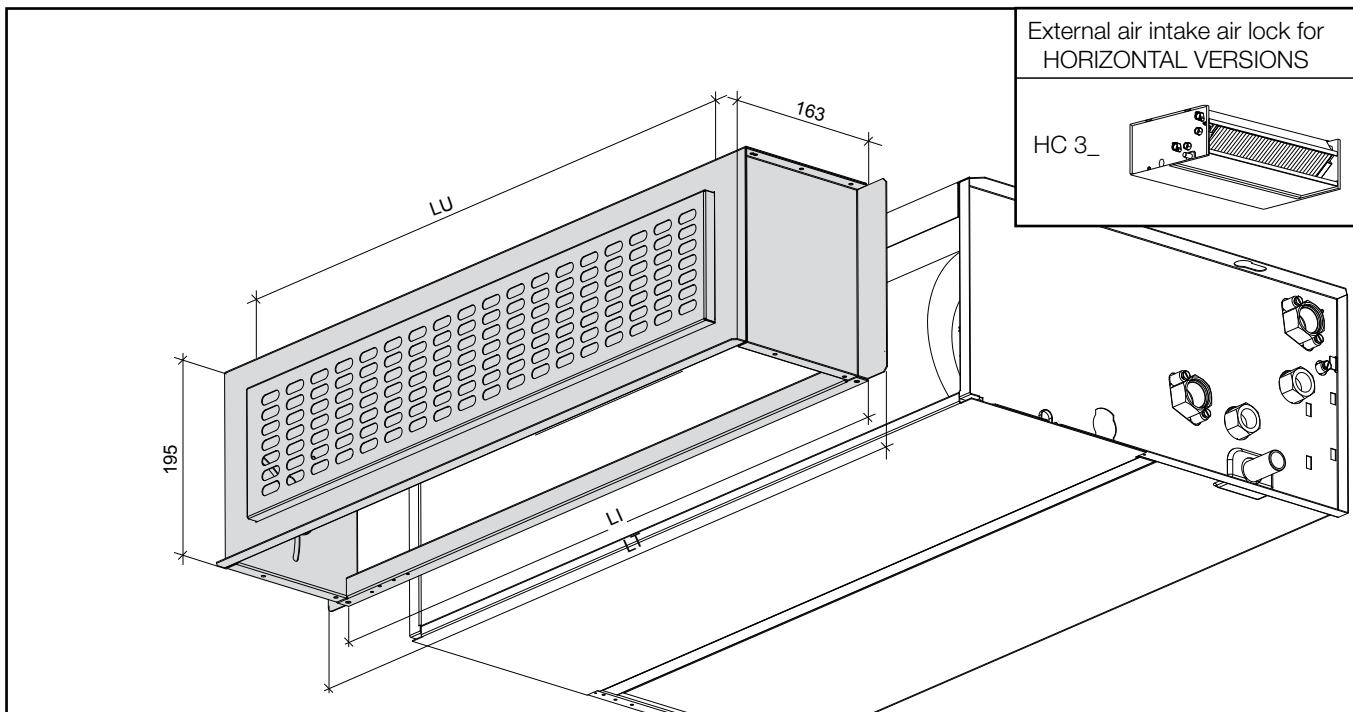
Not available for models HC 101 to HC 121

EXTERNAL AIR INTAKE AIR LOCK



| COMFAIR | HC | 12 | 22 | 32 | 42 | 52 | 62 | 72 | 82 | 92 | 102 | 112 | 122 |
|---------|----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|
| | | 17 | 27 | 37 | 47 | 57 | 67 | 77 | 87 | 97 | 107 | 117 | 127 |
| LU | mm | 255 | 455 | 655 | 655 | 855 | 855 | 855 | 1055 | 1055 | * | * | * |
| LI | mm | 313 | 513 | 713 | 713 | 913 | 913 | 913 | 1113 | 1113 | * | * | * |
| LT | mm | 397 | 597 | 797 | 797 | 997 | 997 | 997 | 1197 | 1197 | * | * | * |

Not available for models HC 102 to HC 122 and HC 107 to HC 127

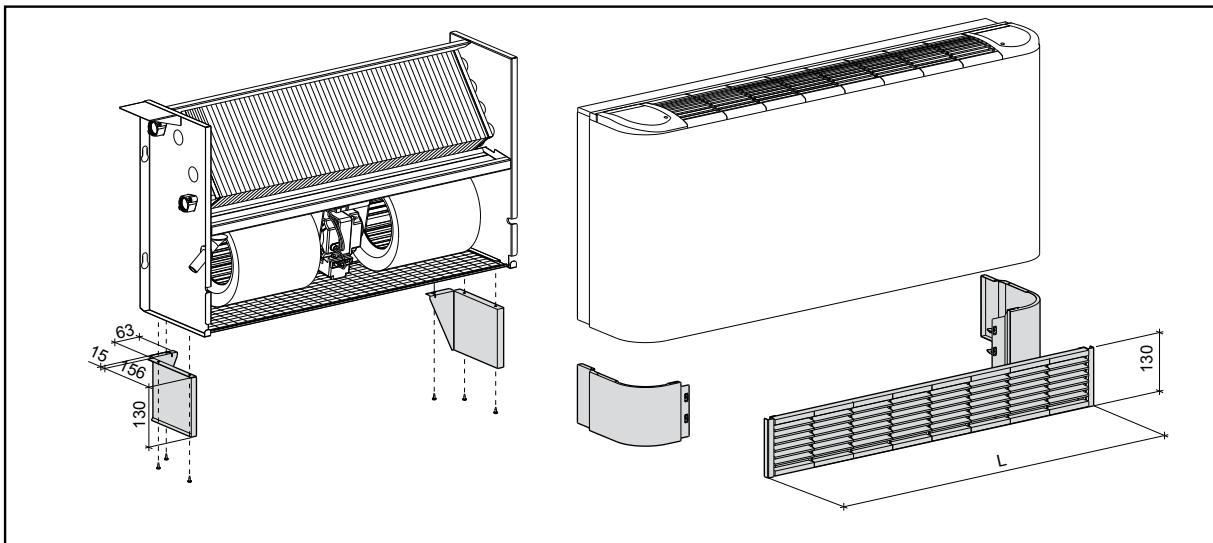


| COMFAIR | HC | 13 | 23 | 33 | 43 | 53 | 63 | 73 | 83 | 93 | 103 | 113 | 123 |
|---------|----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|
| LU | mm | 255 | 455 | 655 | 655 | 855 | 855 | 855 | 1055 | 1055 | * | * | * |
| LI | mm | 313 | 513 | 713 | 713 | 913 | 913 | 913 | 1113 | 1113 | * | * | * |
| LT | mm | 397 | 597 | 797 | 797 | 997 | 997 | 997 | 1197 | 1197 | * | * | * |

Not available for models HC 103 to HC 123

AIR INTAKE PLINTH

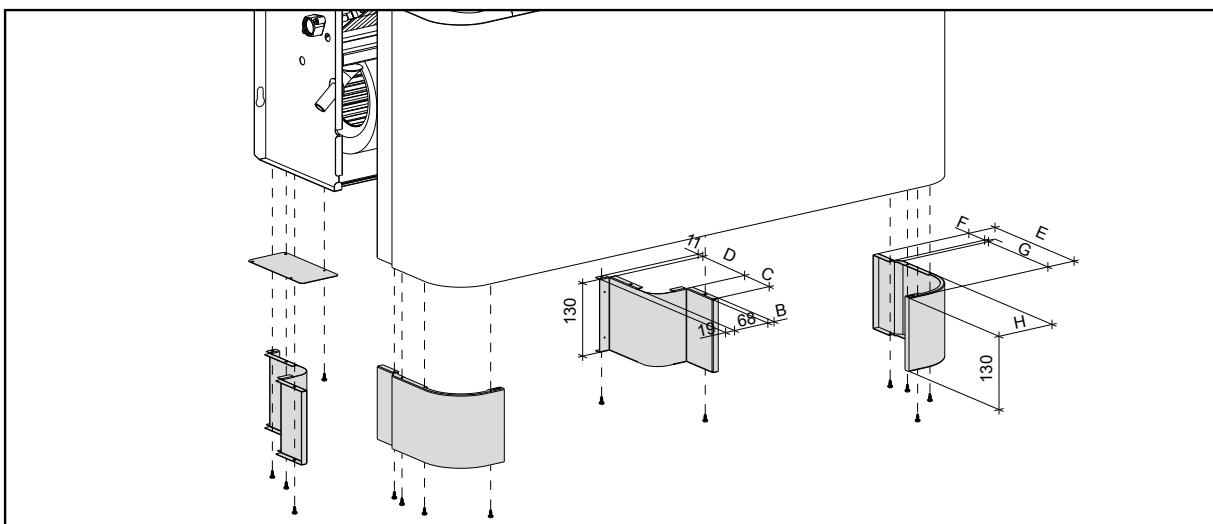
This is used together with the pair of feet to conceal the lower part of the appliance. The air intake grille and filter is integrated into the plinth, which may also be used in the ceiling-mounted versions.



| COMFAIR | HC | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| L | mm | 330 | 530 | 730 | 730 | 930 | 930 | 930 | 1130 | 1130 | 1435 | 1735 | 1735 |

PAIR OF ENAMELLED FEET

Pair of feet in pre-enamelled sheet metal designed to support the fan coil for floor-standing installation.

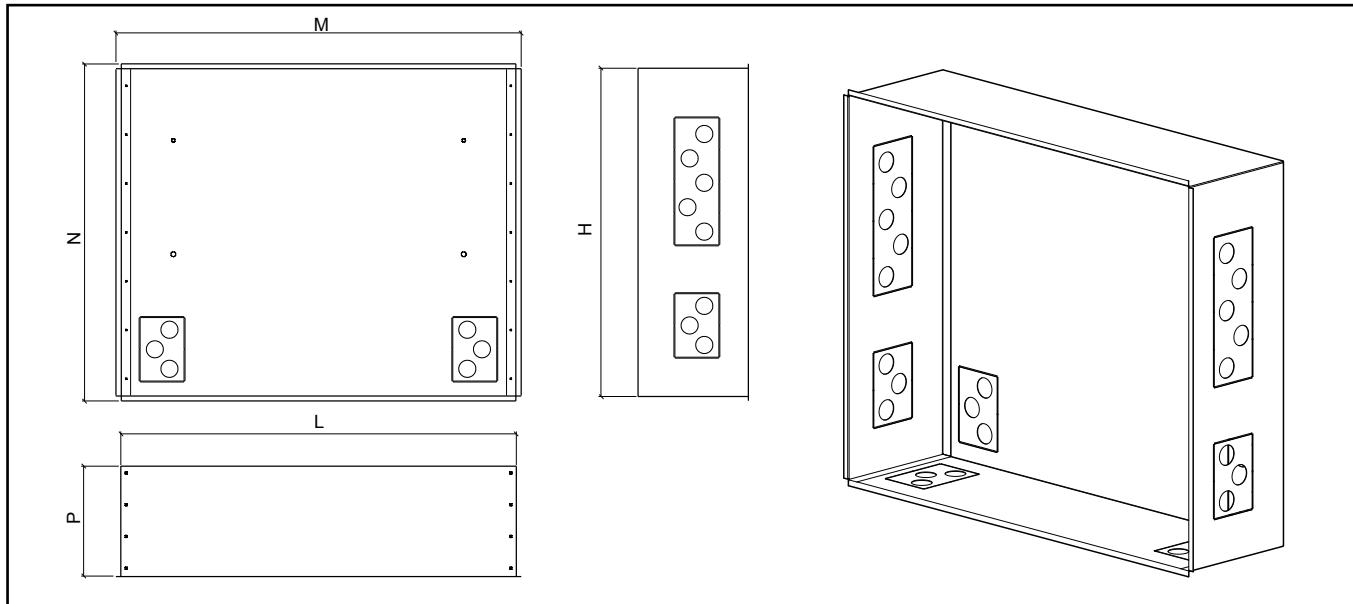


| COMFAIR | HC | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| A | mm | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 105 | 105 | 105 |
| B | mm | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 14 | 14 | 14 |
| C | mm | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 100 | 100 | 100 |
| D | mm | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 129 | 129 | 129 |
| E | mm | 225 | 225 | 225 | 225 | 225 | 225 | 225 | 225 | 225 | 256 | 256 | 256 |
| F* | mm | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | * | * | * |
| G* | mm | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | * | * | * |
| H | mm | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 112 | 112 | 112 |

N.B: On the models HC 100 to HC 120, the fold on the cabinet is foreseen!

SPECIAL STEEL BOX FOR HC7

The galvanized sheet metal box is used to ease the installation of the recessed fan coil version 7 (frontal air supply) inside the niche.

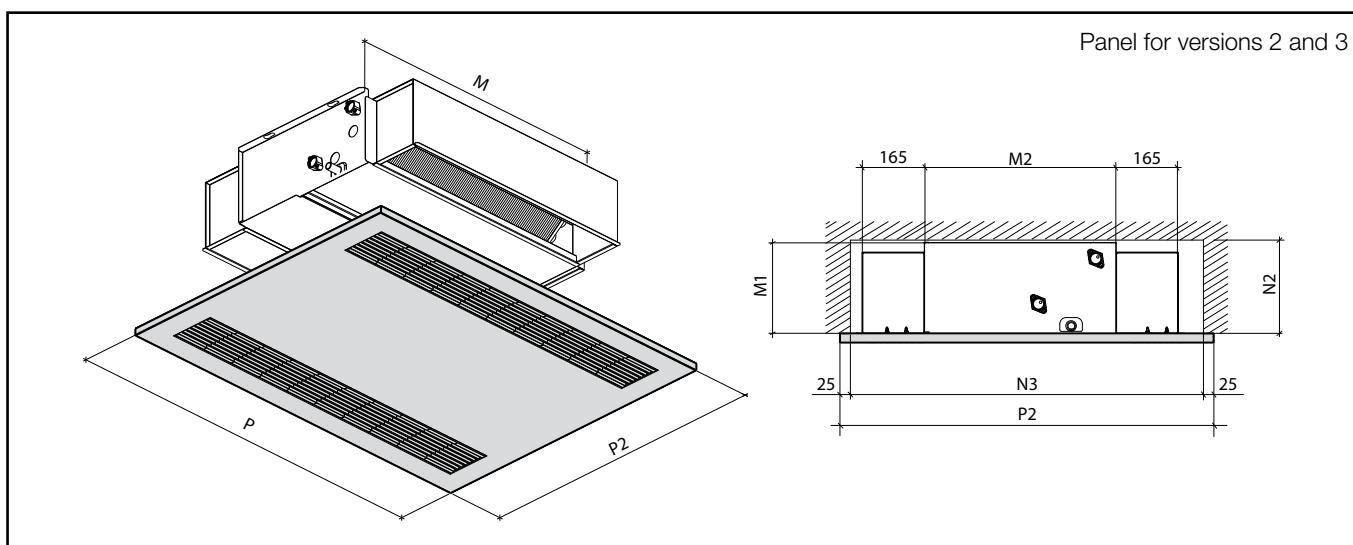
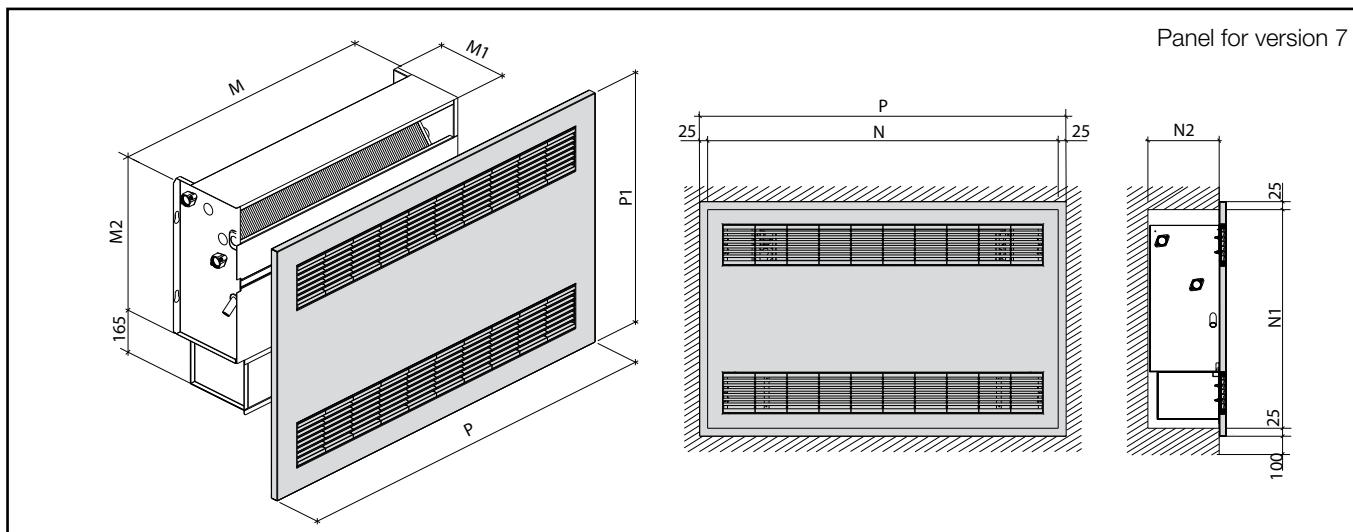


| COMFAIR | HC | 17 | 27 | 37 | 47 | 57 | 67 | 77 | 87 | 97 | 107 | 117 | 127 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| L | mm | 610 | 810 | 1010 | 1010 | 1210 | 1210 | 1210 | 1410 | 1410 | * | * | * |
| H | mm | 675 | 675 | 675 | 675 | 675 | 675 | 780 | 780 | 780 | * | * | * |
| P | mm | 225 | 225 | 225 | 225 | 225 | 225 | 225 | 225 | 225 | * | * | * |
| M | mm | 630 | 830 | 1030 | 1030 | 1230 | 1230 | 1230 | 1430 | 1430 | * | * | * |
| N | mm | 690 | 690 | 690 | 690 | 690 | 690 | 795 | 795 | 795 | * | * | * |

* Not available for models HC 107 to HC 127 and 2/3 versions

PRE-ENAMELLED WHITE SHEET METAL PANEL

Built-in fan coils (wall or ceiling mounted) should be concealed for aesthetic and safety purposes. The sheet metal panel does this by fully closing off the recess housing the appliance. The panel is made in pre-enamelled white sheet metal. It is fixed directly onto the fan coil with hidden self-tapping screws. The air intake grille (with filter) and outlet louvres are inserted in the panel. By turning the outlet louvres the air flow may be directed upwards or downwards. There are two types of panels for each size of fan coil: version 7 (fan coil with front outlet) and version 2 and 3 (fan coil with vertical or horizontal outlet complete with 90° elbow).



| COMFAIR | HC | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| N | mm | 700 | 900 | 1100 | 1100 | 1300 | 1300 | 1300 | 1500 | 1500 | * | * | * |
| N1 | mm | 685 | 685 | 685 | 685 | 685 | 685 | 790 | 790 | 790 | * | * | * |
| N2 | mm | 225 | 225 | 225 | 225 | 225 | 225 | 225 | 225 | 225 | * | * | * |
| N3 | mm | 845 | 845 | 845 | 845 | 845 | 845 | 950 | 950 | 950 | * | * | * |
| P | mm | 750 | 950 | 1150 | 1150 | 1350 | 1350 | 1350 | 1550 | 1550 | * | * | * |
| P1 | mm | 735 | 735 | 735 | 735 | 735 | 735 | 840 | 840 | 840 | * | * | * |
| P2 | mm | 895 | 895 | 895 | 895 | 895 | 895 | 1000 | 1000 | 1000 | * | * | * |
| M | mm | 420 | 620 | 820 | 820 | 1020 | 1020 | 1020 | 1220 | 1220 | 1380 | 1680 | 1680 |
| M1 | mm | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 256 | 256 | 256 |
| M2 | mm | 460 | 460 | 460 | 460 | 460 | 460 | 565 | 565 | 565 | 585 | 585 | 585 |

* On request



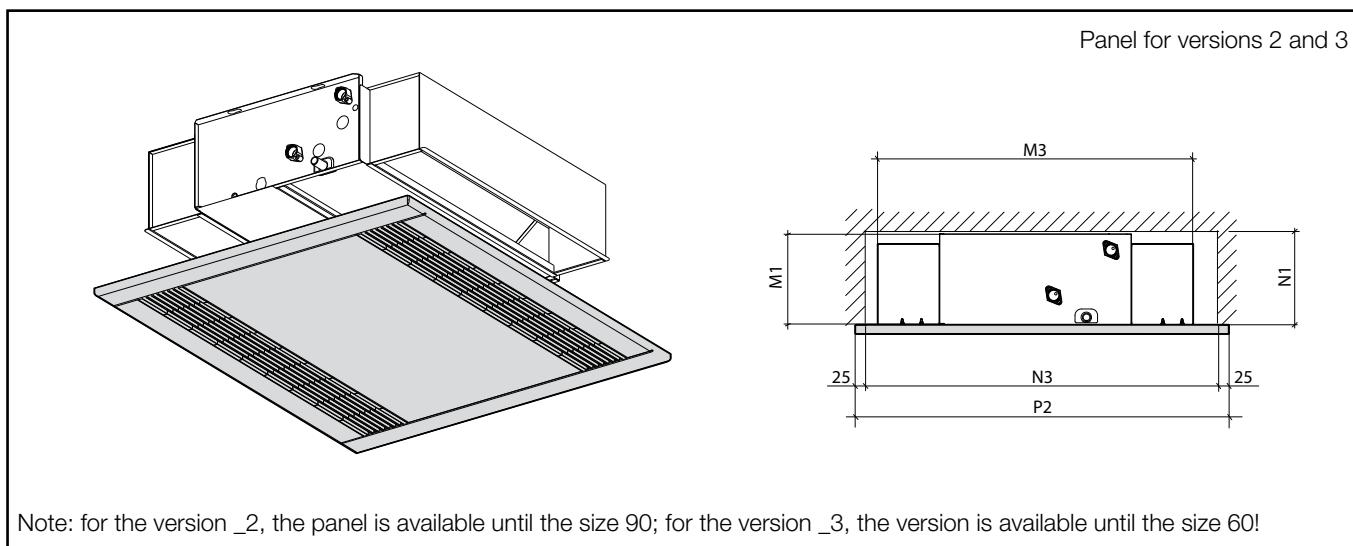
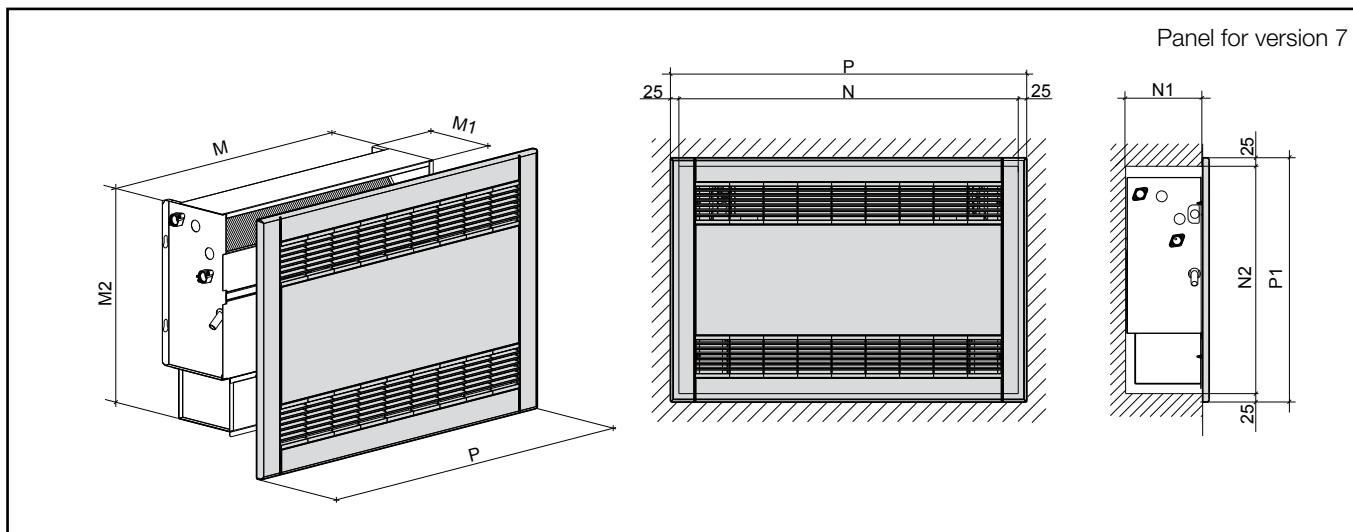
N, ..., N3 = **MINIMUM** recess size

P, ..., P2 = Panel length

M, ..., M2 = Fan coil size

PRE-ENAMELLED WHITE SHEET METAL PANEL

An elegant white lacquered wood panel for installation in environments where the design is particularly important. The wood panel allows the fan coil to be fully concealed by closing off the recess in which it is installed. It is fixed directly onto the fan coil by hidden self-tapping screws. The air intake grille (with filter) and outlet louvres are inserted in the panel. By turning the outlet louvres the airflow may be directed upwards or downwards. The panels are only available for version 7 (fan coil with front outlet).



Note: for the version _2, the panel is available until the size 90; for the version _3, the version is available until the size 60!

| COMFAIR | HC | 12 | 22 | 32 | 42 | 52 | 62 | 72 | 82 | 92 | 102 | 112 | 122 |
|---------|----|-----|-----|------|------|------|------|------|------|------|-----|-----|-----|
| | | 13 | 23 | 33 | 43 | 53 | 63 | - | - | - | - | - | - |
| N | mm | 600 | 800 | 1000 | 1000 | 1200 | 1200 | 1200 | 1400 | 1400 | * | * | * |
| N1 | mm | 227 | 227 | 227 | 227 | 227 | 227 | 227 | 227 | 227 | * | * | * |
| N2 | mm | 570 | 670 | 670 | 670 | 670 | 670 | 775 | 775 | 775 | * | * | * |
| N3 | mm | 830 | 830 | 830 | 830 | 830 | 830 | 935 | 935 | 935 | * | * | * |
| P | mm | 650 | 850 | 1050 | 1050 | 1250 | 1250 | 1250 | 1450 | 1450 | * | * | * |
| P1 | mm | 720 | 720 | 720 | 720 | 720 | 720 | 825 | 825 | 825 | * | * | * |
| P2 | mm | 880 | 880 | 880 | 880 | 880 | 880 | 985 | 985 | 985 | * | * | * |
| M | mm | 420 | 620 | 820 | 820 | 1020 | 1020 | 1020 | 1220 | 1220 | * | * | * |
| M1 | mm | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | * | * | * |
| M2 | mm | 625 | 625 | 625 | 625 | 625 | 625 | 730 | 730 | 730 | * | * | * |
| M3 | mm | 790 | 790 | 790 | 790 | 790 | 790 | 985 | 895 | 895 | - | - | - |

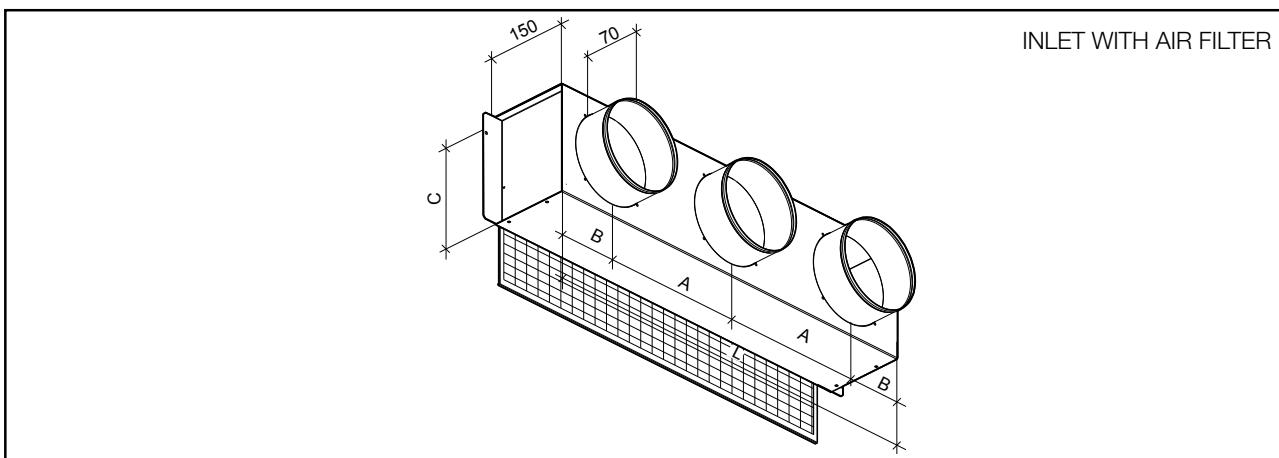
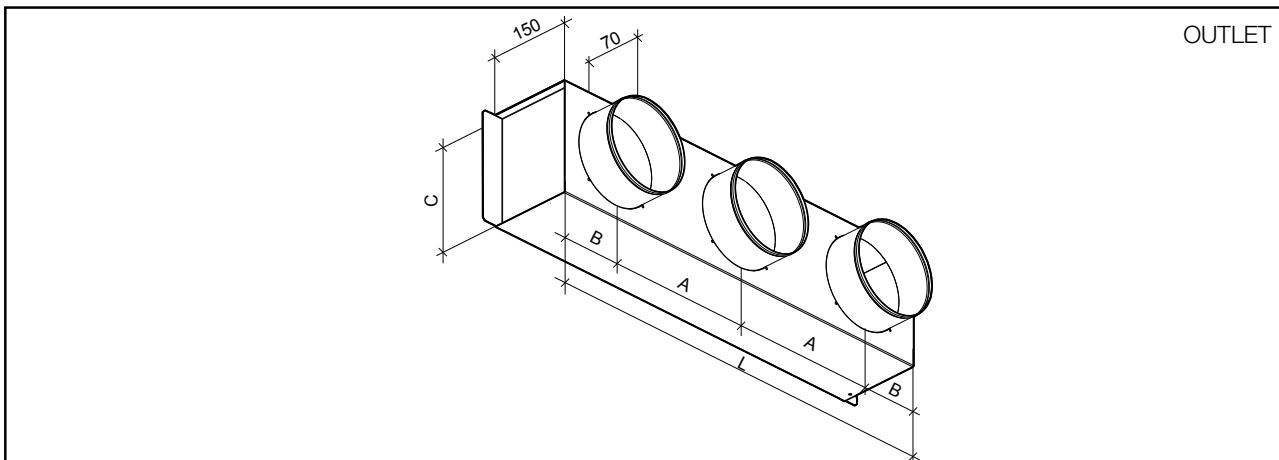


N, ..., N3 = **MINIMUM** recess size; P, ..., P2 = Panel length; M, ..., M3 = Fan coil size

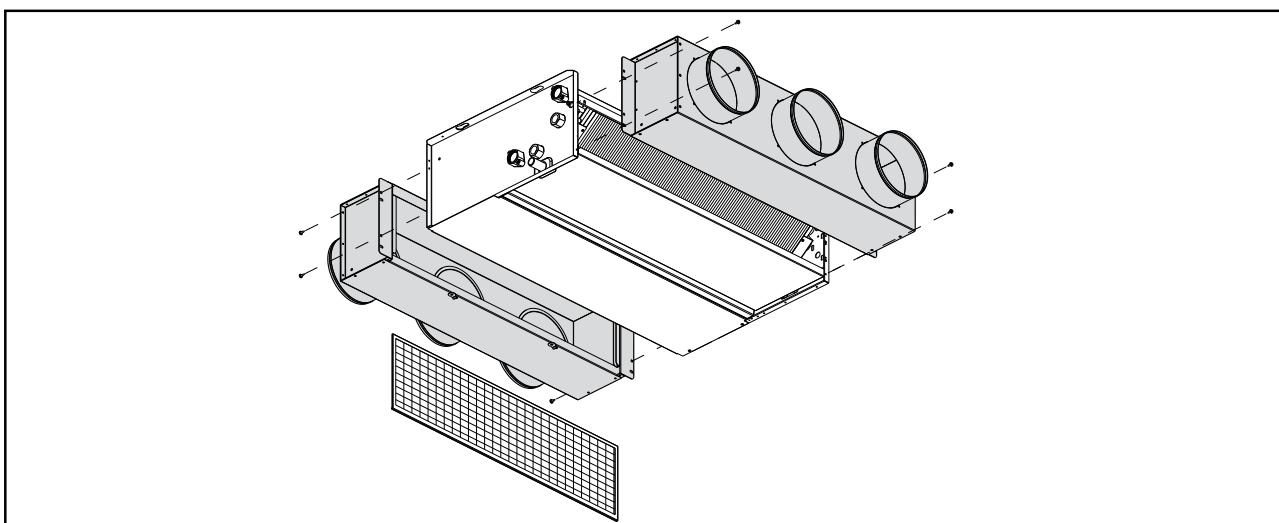
* On request

OUTLET UNIONS AND INLET UNIONS (WITH AIR FILTER) WITH CIRCULAR FITTINGS

The painted, galvanised sheet metal plenum with circular fittings is used to convey the air with vertical or horizontal built-in fan coil installation. The air filter may be easily drawn out for inspection or cleaning.

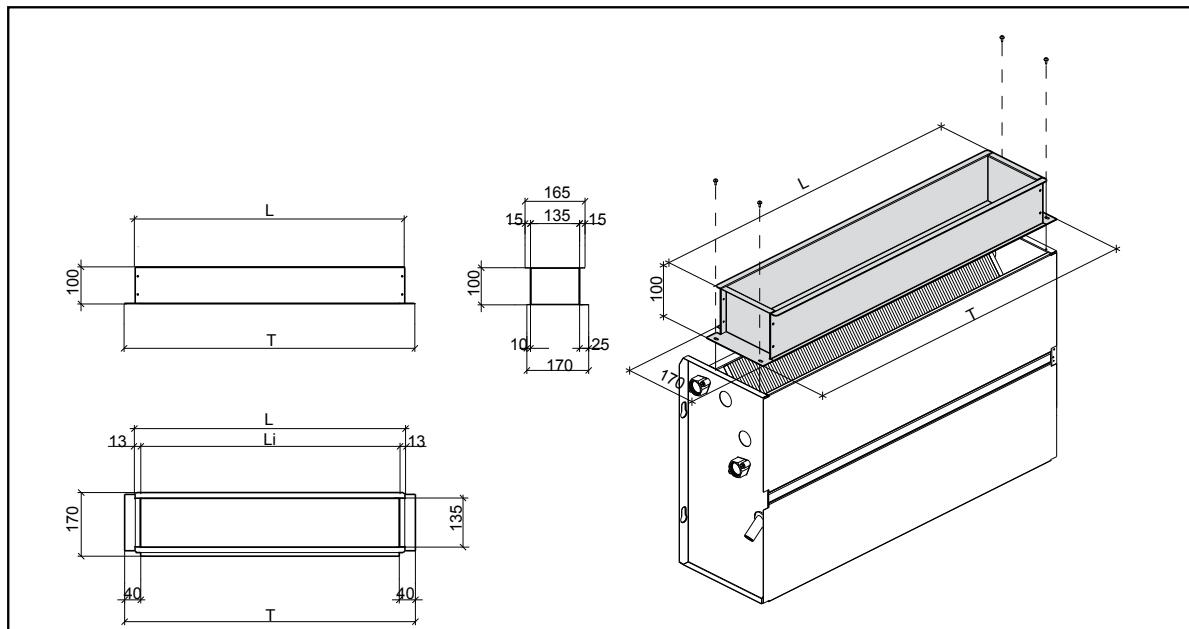


| COMFAIR | HC | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
|---------|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| A | mm | - | 327 | 263,5 | 263,5 | 242,5 | 242,5 | 242,5 | 309 | 309 | 350 | 324,3 | 324,3 |
| B | mm | 171,5 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 157,5 | 164 | 164 |
| L | mm | 343 | 543 | 743 | 743 | 943 | 943 | 943 | 1143 | 1143 | 1365 | 1665 | 1665 |
| C | mm | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 240 | 240 | 240 |
| N. x Ø | mm | 1xØ160 | 2xØ160 | 3xØ160 | 3xØ160 | 4xØ160 | 4xØ160 | 4xØ160 | 4xØ160 | 4xØ160 | 4xØ200 | 5xØ200 | 5xØ200 |



STRAIGHT OUTLET FITTING

In galvanised sheet metal, it is used to convey air with vertical or horizontal built-in fan coil installation.

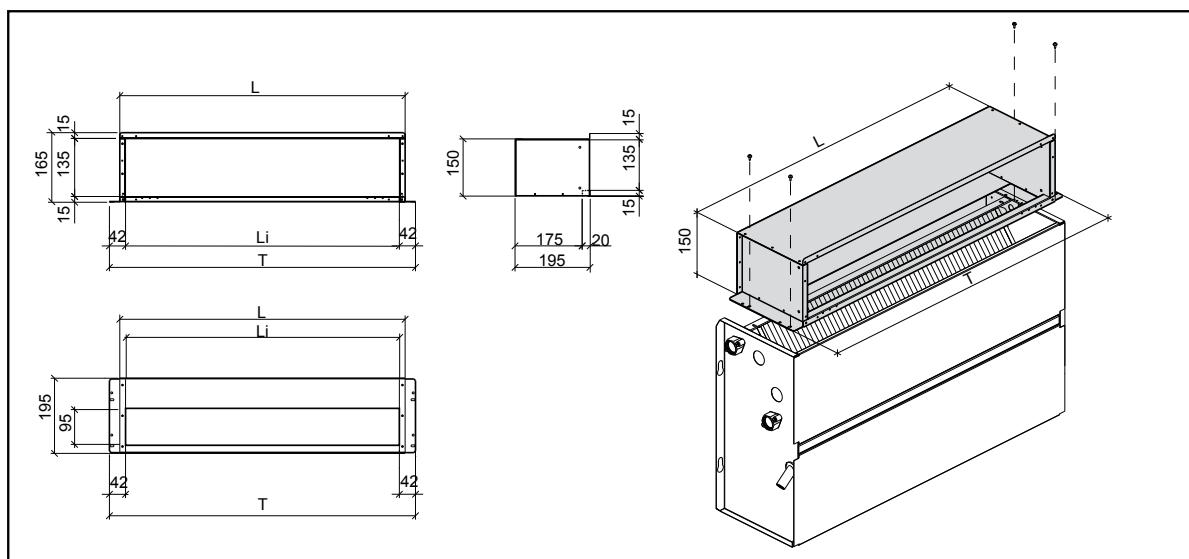


| COMFAIR | HC | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| L | mm | 343 | 543 | 743 | 743 | 943 | 943 | 943 | 1143 | 1143 | * | * | * |
| Li (inside Ø) | mm | 317 | 517 | 717 | 717 | 917 | 917 | 917 | 1117 | 1117 | * | * | * |
| T | mm | 397 | 597 | 797 | 797 | 997 | 997 | 997 | 1197 | 1197 | * | * | * |

* On request

90° OUTLET ELBOW

In galvanised sheet metal, it is used to convey air with vertical or horizontal built-in fan coil installation.

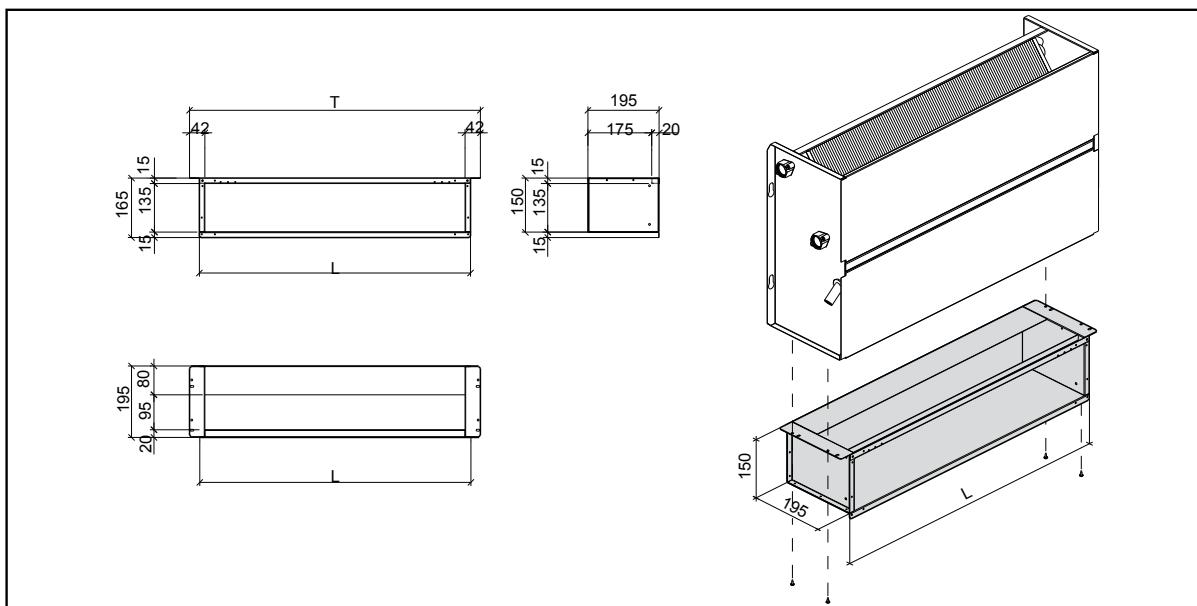


| COMFAIR | HC | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| L | mm | 343 | 543 | 743 | 743 | 943 | 943 | 943 | 1143 | 1143 | * | * | * |
| Li (inside Ø) | mm | 313 | 513 | 713 | 713 | 913 | 913 | 913 | 1113 | 1113 | * | * | * |
| T | mm | 397 | 597 | 797 | 797 | 997 | 997 | 997 | 1197 | 1197 | * | * | * |

* On request

INTAKE ELBOW

In galvanised sheet metal, it is used to convey air with vertical or horizontal built-in fan coil installation.

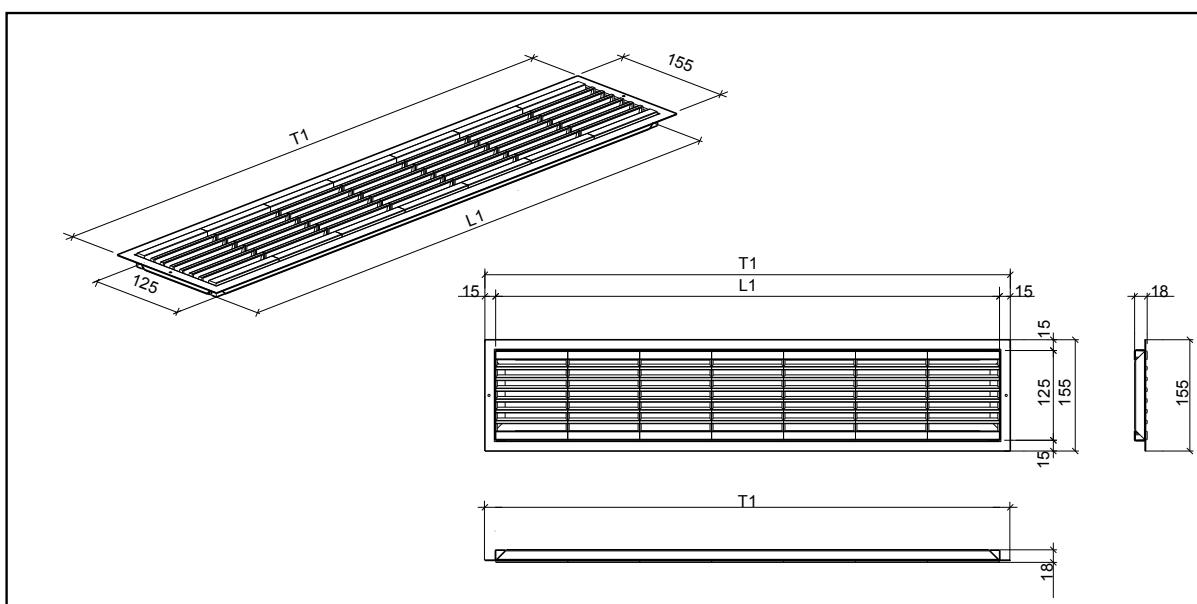


| COMFAIR | HC | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| L | mm | 343 | 543 | 743 | 743 | 943 | 943 | 943 | 1143 | 1143 | * | * | * |
| Li (inside Ø) | mm | 313 | 513 | 713 | 713 | 913 | 913 | 913 | 1113 | 1113 | * | * | * |
| T | mm | 397 | 597 | 797 | 797 | 997 | 997 | 997 | 1197 | 1197 | * | * | * |

* On request

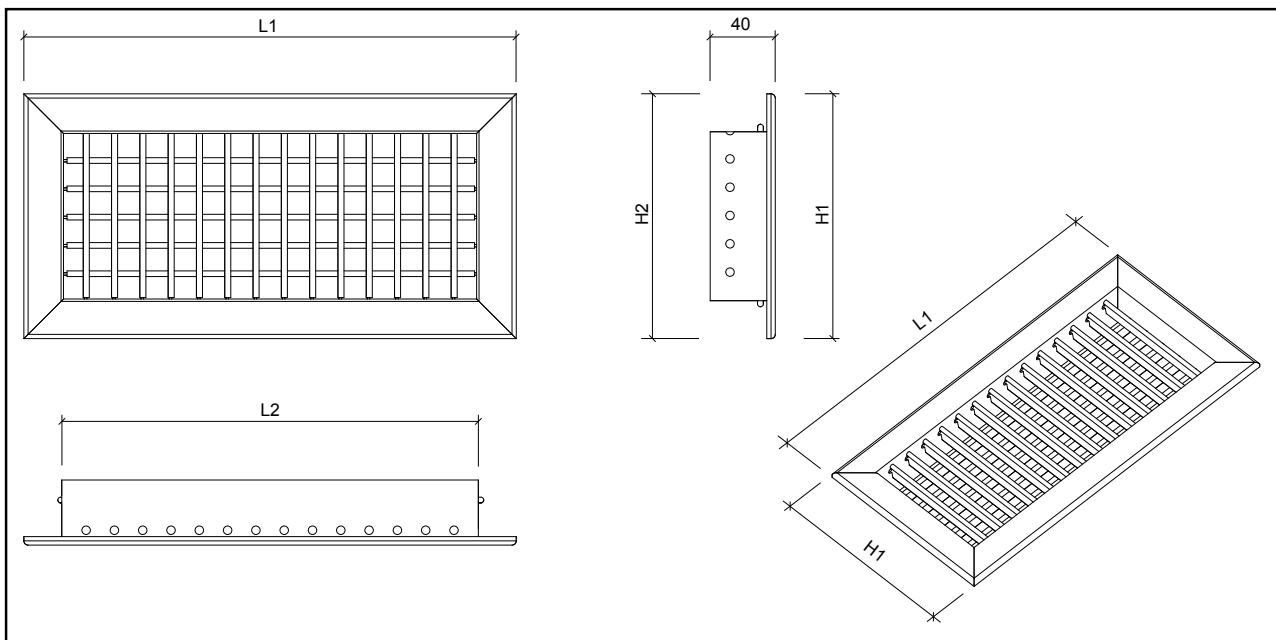
OUTLET LOUVRES AND INTAKE GRILLE (WITH AIR FILTER)

In high-strength enamelled sheet metal, they are complete with fixed louvres in thermoplastic material for the distribution/intake of air.

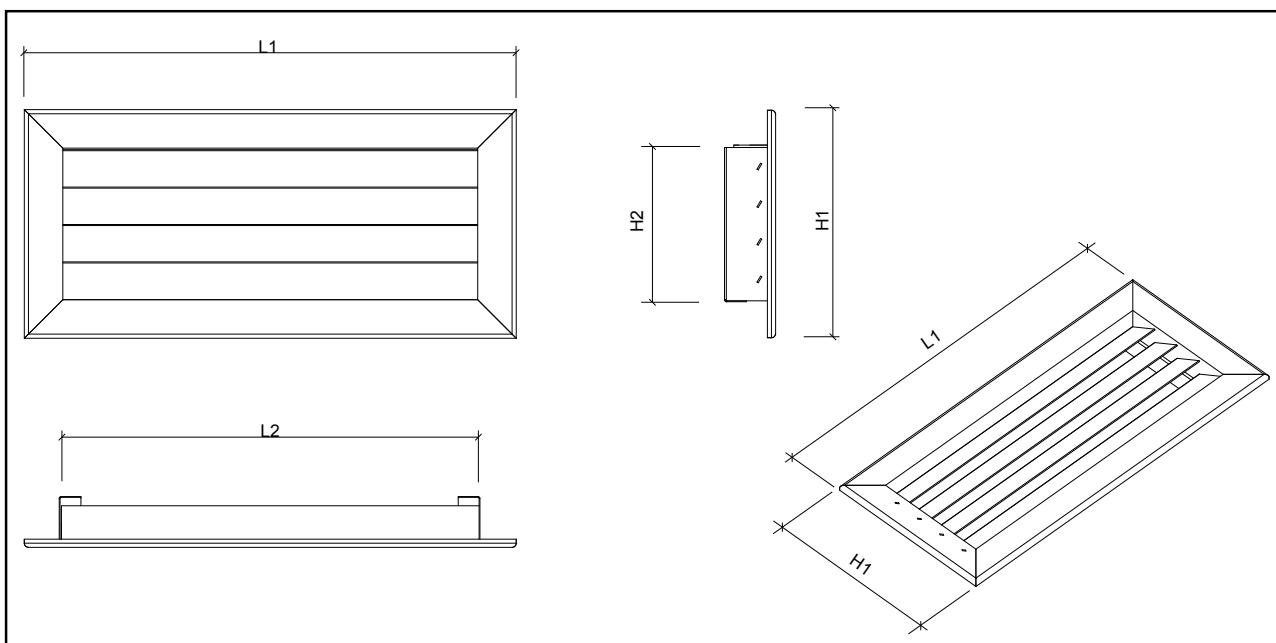


| COMFAIR | HC | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| L1 | mm | 300 | 500 | 700 | 700 | 900 | 900 | 900 | 1100 | 1100 | * | * | * |
| T1 | mm | 330 | 530 | 730 | 730 | 930 | 930 | 930 | 1130 | 1130 | * | * | * |

* On request

ALUMINIUM ADJUSTABLE SUPPLY AIR GRILL (WITHOUT FILTER)

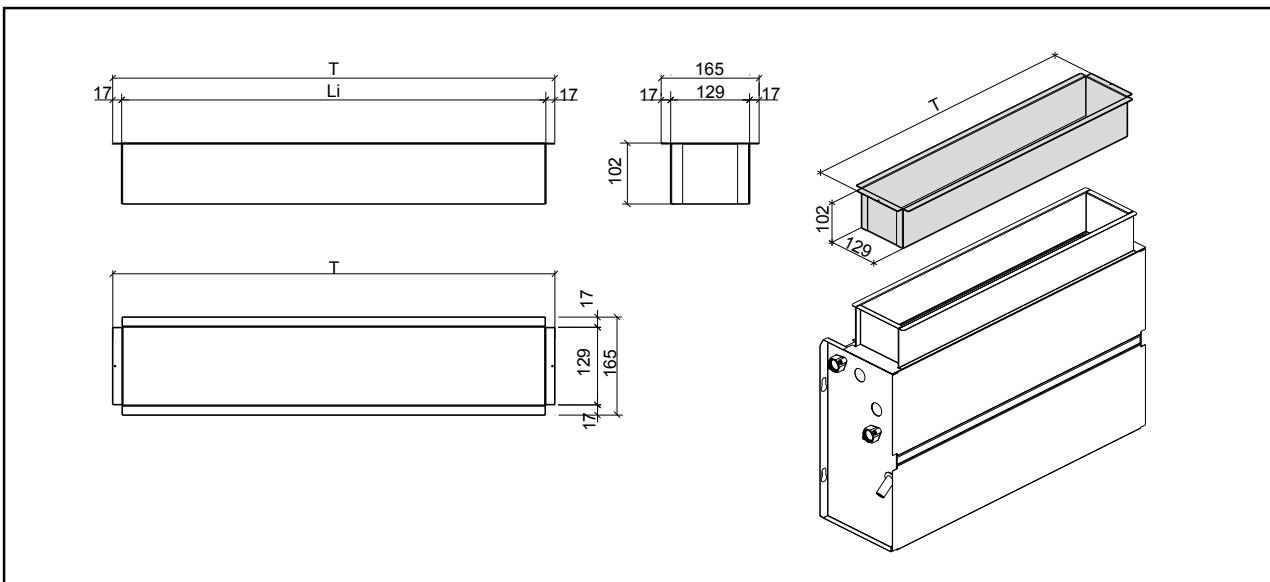
| COMFAIR | HC | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| L1 | mm | 348 | 548 | 748 | 748 | 948 | 948 | 948 | 1148 | 1148 | 1376 | 1676 | 1676 |
| H1 | mm | 173 | 173 | 173 | 173 | 173 | 173 | 173 | 173 | 173 | 173 | 181 | 181 |
| L2 | mm | 295 | 495 | 695 | 695 | 895 | 895 | 895 | 1095 | 1095 | 1320 | 1620 | 1620 |
| H2 | mm | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 128 | 128 |

ALUMINIUM FIX INTAKE AIR GRILL WITH AIR FILTER

| COMFAIR | HC | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| L1 | mm | 355 | 555 | 755 | 755 | 955 | 955 | 955 | 1155 | 1155 | 1374 | 1674 | 1674 |
| H1 | mm | 165 | 165 | 165 | 165 | 165 | 165 | 165 | 165 | 165 | 179 | 179 | 179 |
| L2 | mm | 303 | 503 | 703 | 703 | 903 | 903 | 903 | 1103 | 1103 | 1322 | 1622 | 1622 |
| H2 | mm | 112 | 112 | 112 | 112 | 112 | 112 | 112 | 112 | 112 | 126 | 126 | 126 |

TELESCOPIC EXTENSION FOR STRAIGHT FITTINGS AND ELBOWS

In galvanised sheet metal, it is used as support for the straight fittings or elbows both on the air intake and outlet.



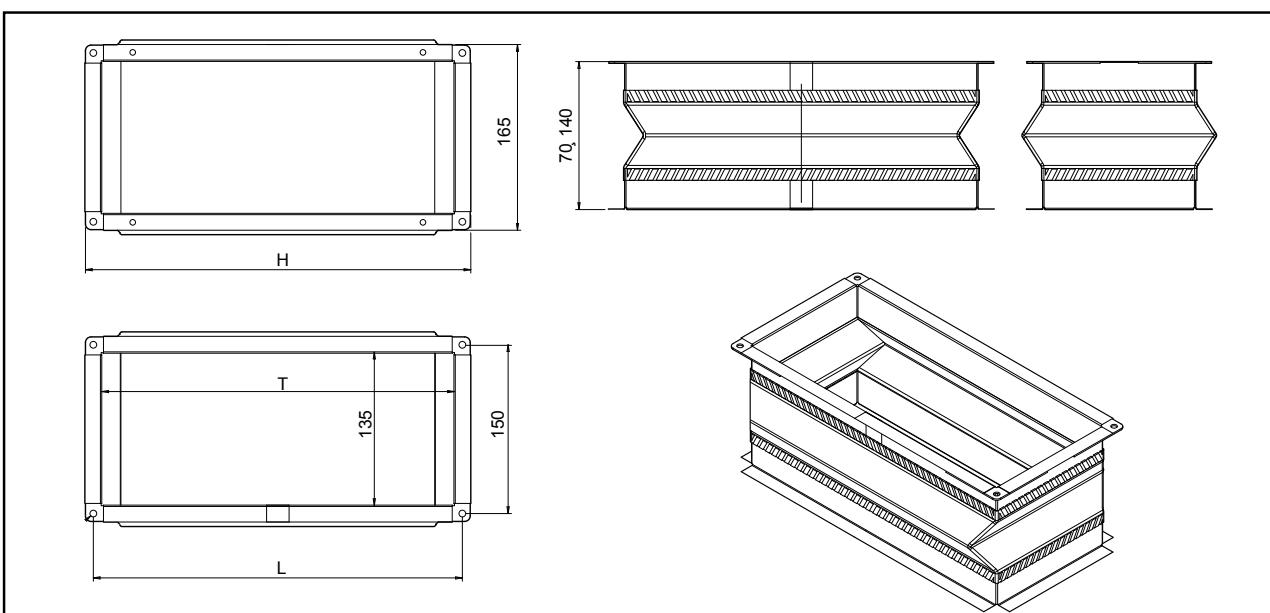
| COMFAIR | HC | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| Li (inside Ø) | mm | 307 | 507 | 707 | 707 | 907 | 907 | 907 | 1107 | 1107 | * | * | * |
| T | mm | 340 | 540 | 740 | 740 | 940 | 940 | 940 | 1140 | 1140 | * | * | * |

* On request

ANTI-VIBRATION JOINT

Made of galvanized steel with double silicon fabric (for high temperatures).

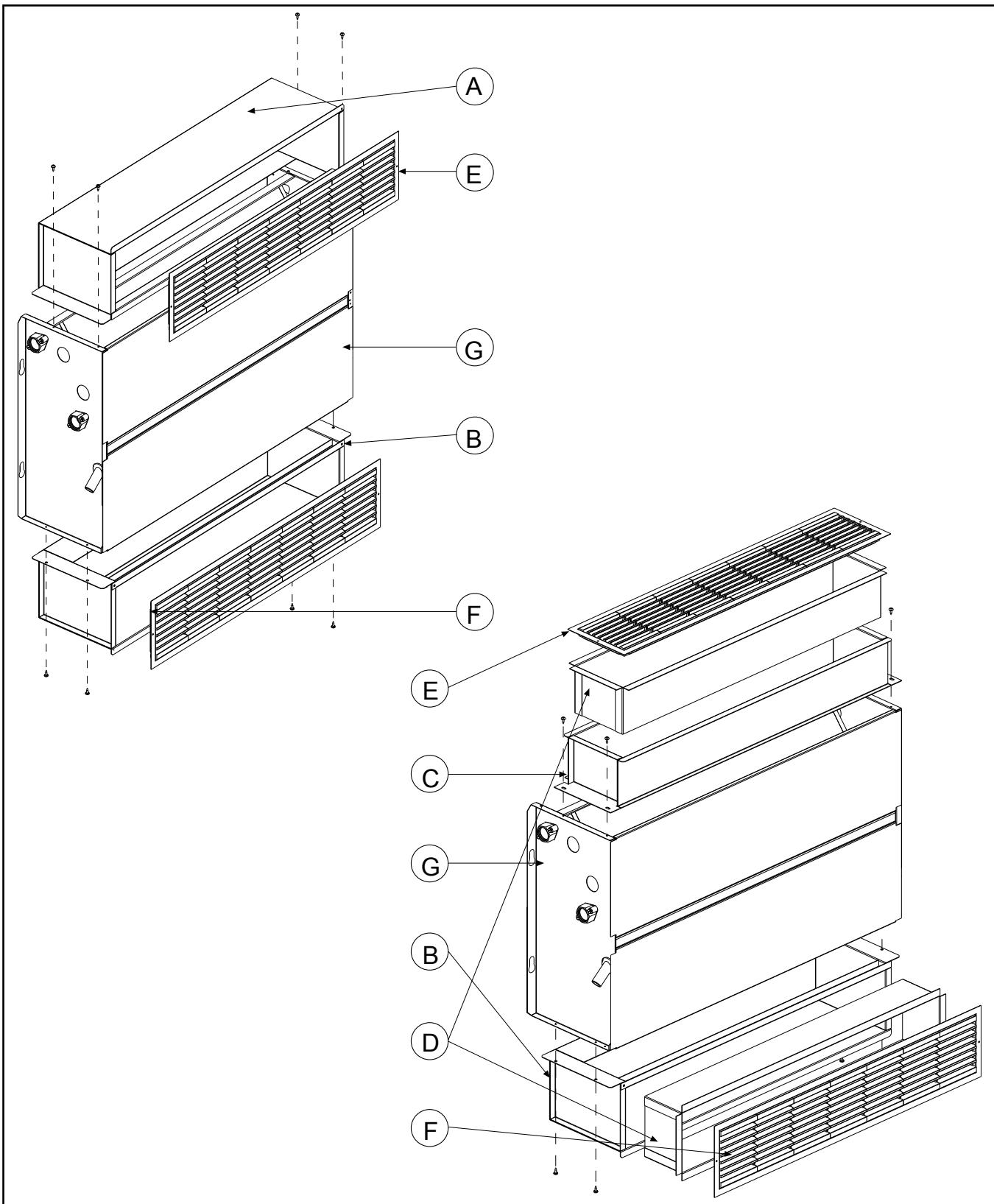
It is suitable to connect fancoils to straight and 90° plenums in order to reduce noise and / or vibrations



| COMFAIR | HC | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| L | mm | 328 | 528 | 728 | 728 | 928 | 928 | 928 | 1128 | 1128 | * | * | * |
| T | mm | 342 | 542 | 742 | 742 | 942 | 942 | 942 | 1142 | 1142 | * | * | * |
| H | mm | 313 | 513 | 713 | 713 | 913 | 913 | 913 | 1113 | 1113 | * | * | * |

* On request

EXAMPLE OF USE OF FITTINGS AND GRILLES/LOUVRES



A: Elbow on outlet

B: Elbow on intake

C: Straight fitting on outlet

D: Telescopic extension for straight fittings and elbow

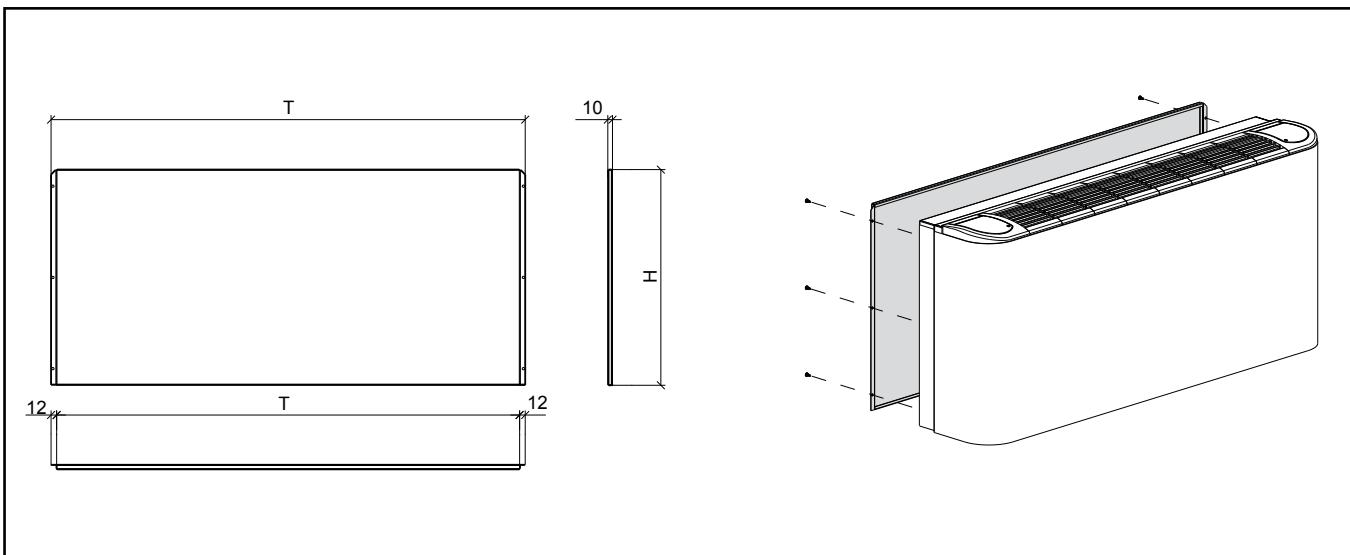
E: Outlet louvres (without air filter)

F: intake grille (with air filter)

G: Fan coil

ENAMELLED REAR PANEL (FOR STANDARD CABINET)

Painted sheet metal for closing the rear part of the fan coil when exposed (for standard housing)

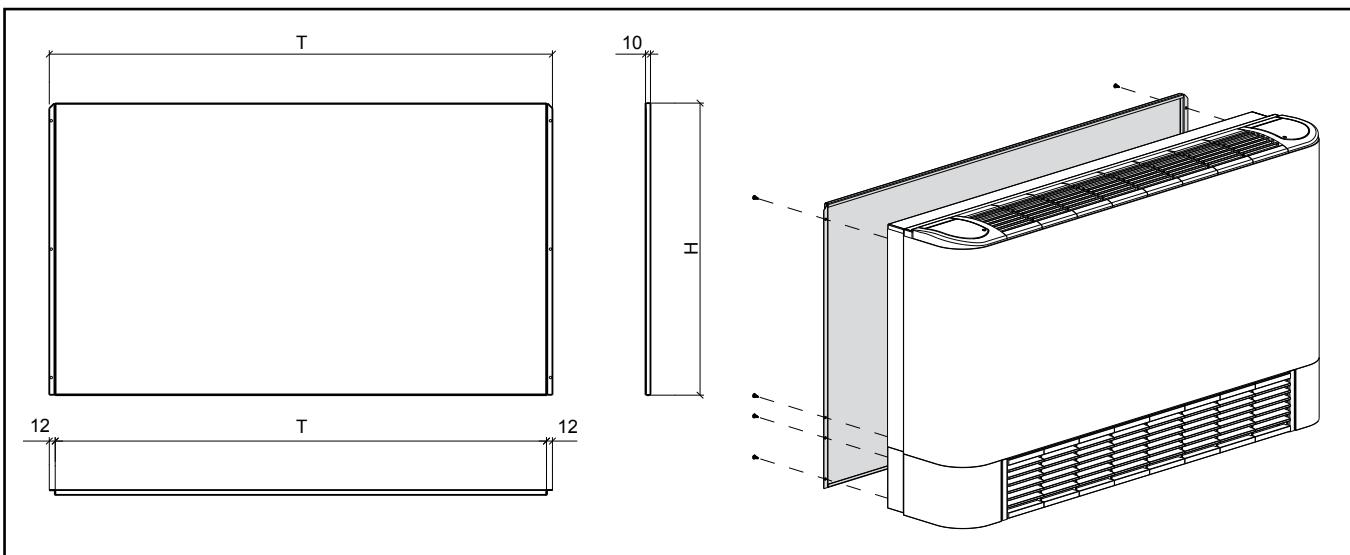


| COMFAIR | HC | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| T | mm | 637 | 837 | 1037 | 1037 | 1237 | 1237 | 1237 | 1437 | 1437 | * | * | * |
| L | mm | 613 | 813 | 1013 | 1013 | 1213 | 1213 | 1213 | 1413 | 1413 | * | * | * |
| H | mm | 480 | 480 | 480 | 480 | 480 | 480 | 485 | 485 | 485 | * | * | * |

* On request

ENAMELLED REAR PANEL (FOR HOUSING WITH PLINTH)

Painted sheet metal for closing the rear part of the fan coil when exposed (for housing with plinth)

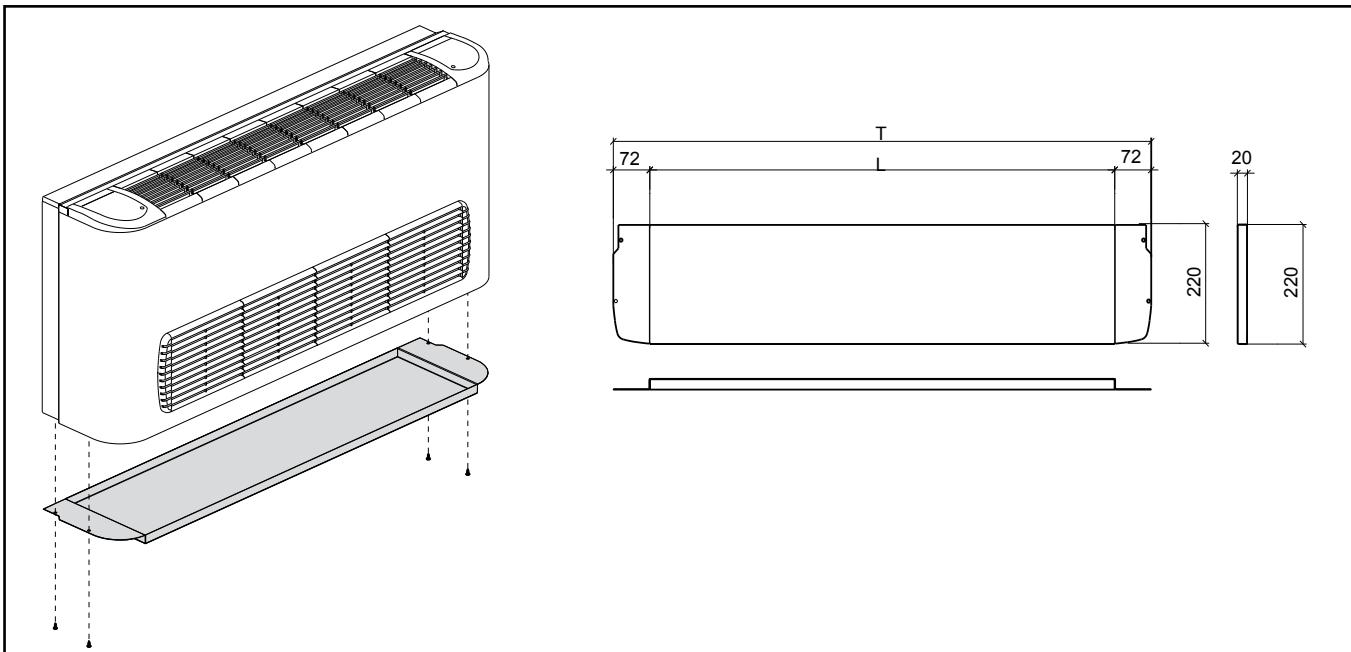


| COMFAIR | HC | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| T | mm | 637 | 837 | 1037 | 1037 | 1237 | 1237 | 1237 | 1437 | 1437 | * | * | * |
| L | mm | 613 | 813 | 1013 | 1013 | 1213 | 1213 | 1213 | 1413 | 1413 | * | * | * |
| H | mm | 601 | 601 | 601 | 601 | 601 | 601 | 706 | 706 | 706 | * | * | * |

* On request

BOTTOM PANEL WITHOUT GRILLE

Painted sheet metal for closing the bottom part of the fan coil when exposed (for versions with front intake)

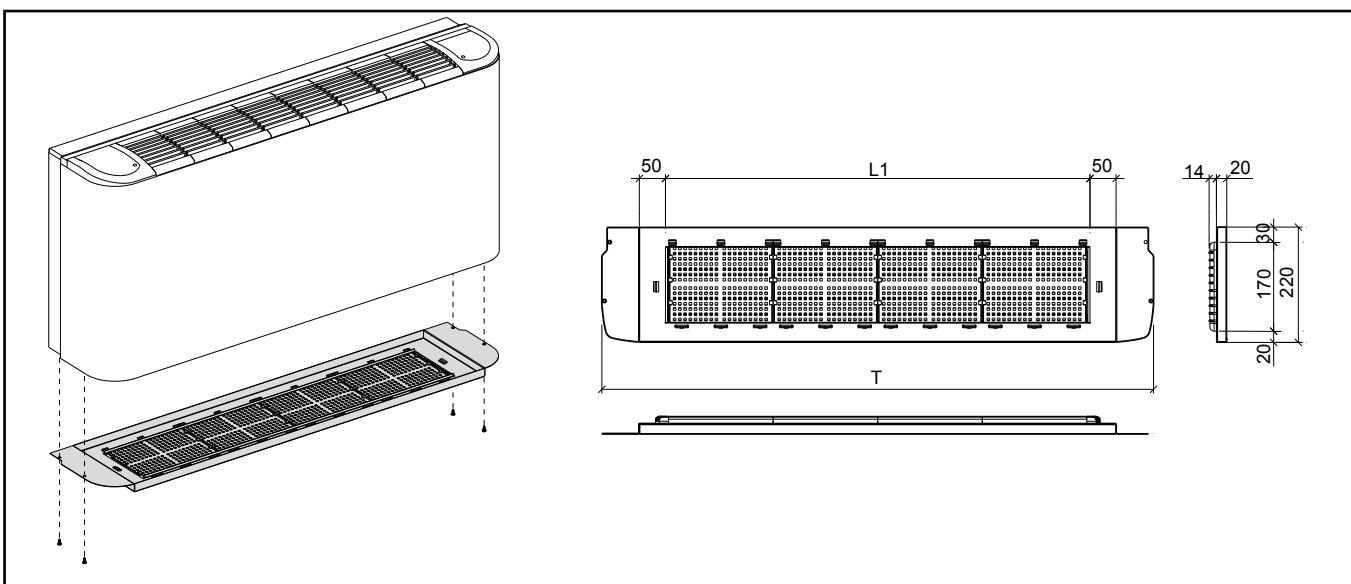


| COMFAIR | HC | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| T | mm | 655 | 855 | 1055 | 1055 | 1255 | 1255 | 1255 | 1455 | 1455 | * | * | * |
| L | mm | 512 | 712 | 912 | 912 | 1112 | 1112 | 1112 | 1312 | 1312 | * | * | * |

* On request

BOTTOM PANEL WITH GRILLE AND FILTER

Painted sheet metal for closing the bottom part of the fan coil when exposed (for versions with bottom intake)

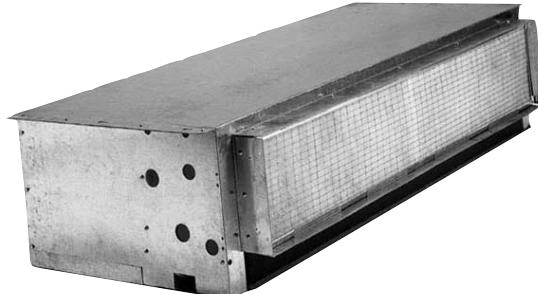


| COMFAIR | HC | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| T | mm | 655 | 855 | 1055 | 1055 | 1255 | 1255 | 1255 | 1455 | 1455 | * | * | * |
| L | mm | 412 | 612 | 812 | 812 | 1012 | 1012 | 1012 | 1212 | 1212 | * | * | * |

* On request

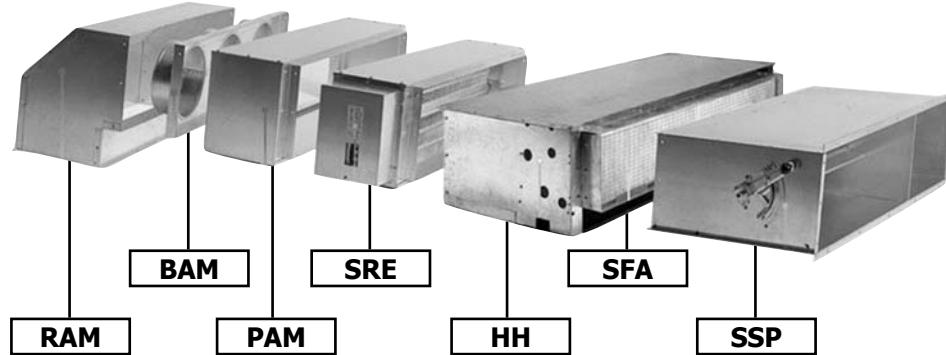
HIGH PRESSURE FAN COIL UNITS - HH

Comfair HH fan coil units are designed to operate against higher external static pressures (from 105 to 260 Pa), and are available in 7 sizes.



All standard units can be supplied with a complete range of factory or site fitted accessories, allowing a multitude of configurations for all typical applications, for example :

- auxiliary condensate drain pan (UTC)
- air Filter section (SFA)
- auxiliary Coil
- fresh air inlet damper (SSP)
- electric heater (SRE)
- inlet, supply and exhaust air plenums (PAM, RAM et BAM)

**FAN SECTION**

Composed of one or two double inlet centrifugal fans with aluminium blades, mounted in horizontal position and statically and dynamically balanced. The electric motor is fitted with overload protection and has three speeds. It is constructed to comply with all relevant International standards, with a capacitor permanently in circuit. Motors are connected directly to the fan shafts and are located on anti-vibration mounts to ensure particularly quiet operation.

CHASSIS

The chassis is manufactured from thick (1mm) galvanised sheet steel.

COILS

Water Heat exchangers are copper tubes with aluminium fins, bonded to the tubes by a mechanical expansion process. Coil connections are of female type antitorsion and headers are fitted with easily accessible air-vents.

CONTROL PANEL

Comfair HH fan coil units must be controlled from a separate remote controller. A large selection of controllers with varying levels of function is available to satisfy most requests.

Options delivered separately : Ambient Thermostats (TA), Minimum water temperature thermostat (TC), Remote (wall mounted) controllers (CD1, CD2/X1, ...).

**AIR FILTER**

Simple to remove, it comprises a metal frame containing a washable acrylic filter media (filtration efficiency EU 2).

MANUAL FRESH AIR INLET DAMPER

Produced from Alu-Zinc sheet metal, it allows the introduction of fresh air up to a maximum of 30% of the total air volume.

**ELECTRIC HEATER**

Electric heater elements meet all of the relevant International safety standards and are fitted as standard with a safety cut-out thermostat and automatic reset. Heater elements are factory fitted with all electrical wiring and are connected to the control panel via a contactor.

AUXILIARY COIL

In order to offer the best solutions for 4 pipe applications, a supplementary 1 row coil can be ordered factory fitted.

INLET, SUPPLY AND EXHAUST AIR PLENUMS

Plenums are constructed from galvanised sheet steel allow for easy connection to ductwork.



All data are at Eurovent conditions.
<http://www.eurovent-certification.com/>

PROGRAM: FC-2-H

| COMFAIR | | HH | 10 | 20 | 30 | 40 | 50 |
|---------------------------------|---------|-----------|-----------|-----------|-----------|-----------|-----------|
| Sensible cooling capacity | kW | Min | 3,11 | 4,02 | 5,63 | 6,11 | 7,23 |
| | | Med | 3,46 | 5,02 | 6,93 | 7,88 | 9,44 |
| | | Max | 3,63 | 5,64 | 7,36 | 8,63 | 11 |
| Total cooling capacity | kW | Min | 3,82 | 5,16 | 7,21 | 7,79 | 8,91 |
| | | Med | 4,2 | 6,35 | 8,66 | 9,81 | 11,3 |
| | | Max | 4,4 | 7,05 | 9,2 | 10,6 | 13,1 |
| Heating capacity | kW | Min | 4,3 | 6,13 | 8,66 | 9,23 | 11,2 |
| | | Med | 4,75 | 7,62 | 10,5 | 11,8 | 14,5 |
| | | Max | 4,98 | 8,51 | 11,2 | 12,8 | 16,9 |
| Water pressure drops in cooling | kPa | Min | 18,1 | 19,3 | 20,8 | 17,2 | 16,6 |
| | | Med | 21,9 | 29,2 | 30 | 27,3 | 26,9 |
| | | Max | 24 | 35,9 | 33,8 | 31,9 | 35,9 |
| Water pressure drops in heating | kPa | Min | 16,7 | 17 | 17,7 | 15,1 | 15,4 |
| | | Med | 20,2 | 25,7 | 25,6 | 23,9 | 24,9 |
| | | Max | 22,2 | 31,7 | 28,9 | 27,9 | 33,2 |
| Fan electrical power | kW | Min | 0,11 | 0,15 | 0,3 | 0,31 | 0,28 |
| | | Med | 0,12 | 0,19 | 0,32 | 0,34 | 0,41 |
| | | Max | 0,16 | 0,24 | 0,32 | 0,34 | 0,58 |
| Voltage | V/Ph/Hz | - | 230/1/50 | | | | |
| Sound power level | dB(A) | Min | 63 | 53 | 61 | 58 | 62 |
| | | Med | 67 | 62 | 68 | 65 | 69 |
| | | Max | 68 | 66 | 70 | 69 | 74 |

PROGRAM: FC-4-H

| COMFAIR | | HH | 10 | 20 | 30 | 40 | 50 |
|---------------------------------|---------|-----------|-----------|-----------|-----------|-----------|-----------|
| Sensible cooling capacity | kW | Min | 2,66 | 4,02 | 5,4 | 5,76 | 6,89 |
| | | Med | 2,93 | 5 | 6,66 | 7,44 | 9,02 |
| | | Max | 3,1 | 5,63 | 7,07 | 8,04 | 10,6 |
| Total cooling capacity | kW | Min | 3,13 | 5,12 | 6,51 | 7,03 | 8,31 |
| | | Med | 3,44 | 6,3 | 7,82 | 8,86 | 10,6 |
| | | Max | 3,6 | 7 | 8,3 | 9,57 | 12,3 |
| Heating capacity | kW | Min | 3,61 | 5,04 | 7,5 | 8,23 | 9,3 |
| | | Med | 3,98 | 6,27 | 8,73 | 9,93 | 12 |
| | | Max | 4,18 | 7 | 9,17 | 10,6 | 14 |
| Water pressure drops in cooling | kPa | Min | 12 | 14,4 | 17,7 | 13,9 | 14,2 |
| | | Med | 14,5 | 21,8 | 25,2 | 21,8 | 23 |
| | | Max | 15,9 | 26,8 | 28 | 25 | 30,8 |
| Water pressure drops in heating | kPa | Min | 20 | 11,9 | 25,3 | 13,3 | 15 |
| | | Med | 24,3 | 18,4 | 33,8 | 19,3 | 24,9 |
| | | Max | 26,8 | 22,9 | 37 | 21,7 | 33,8 |
| Fan electrical power | kW | Min | 0,11 | 0,14 | 0,3 | 0,31 | 0,28 |
| | | Med | 0,12 | 0,17 | 0,32 | 0,34 | 0,41 |
| | | Max | 0,16 | 0,22 | 0,32 | 0,34 | 0,58 |
| Voltage | V/Ph/Hz | - | 230/1/50 | | | | |
| Sound power level | dB(A) | Min | 63 | 53 | 61 | 59 | 61 |
| | | Med | 67 | 62 | 68 | 66 | 68 |
| | | Max | 69 | 66 | 70 | 70 | 73 |

2 PIPES SYSTEM

| COMFAIR | HH | 10 | 20 | 30 | 40 | 50 | 60 | 70 |
|---|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total cooling capacity ⁽¹⁾ | W | 3640 | 7050 | 9200 | 10600 | 13100 | 27800 | 50600 |
| | Frig/h | 3130 | 6063 | 7912 | 9116 | 11266 | 23908 | 43516 |
| Sensible cooling capacity ⁽¹⁾ | W | 2870 | 5640 | 7360 | 8630 | 11000 | 21100 | 39500 |
| | Frig/h | 2,468 | 4,85 | 6,33 | 7,422 | 9,46 | 18,146 | 33,97 |
| Heating capacity ⁽³⁾ | W | 4972 | 8512 | 11210 | 12800 | 16818 | 32430 | 60111 |
| | kcal/h | 4276 | 7320 | 9641 | 11008 | 14464 | 27890 | 51696 |
| Water flow ^{(1) (3)} | l/h | 626 | 1213 | 1582 | 1823 | 2253 | 4782 | 8703 |
| | l/s | 0,174 | 0,337 | 0,441 | 0,506 | 0,626 | 1,328 | 2,418 |
| Water pressure drops in cooling ⁽¹⁾ | kPa | 24 | 35,9 | 33,8 | 31,9 | 35,9 | 34 | 40 |
| | mWG. | 2,4 | 3,7 | 3,4 | 3,3 | 3,7 | 3,5 | 4,1 |
| Water pressure drops in heating ⁽³⁾ | kPa | 22,2 | 31,7 | 28,9 | 27,9 | 33,2 | 24 | 30 |
| | mWG. | 2,3 | 3,2 | 2,9 | 2,8 | 3,4 | 2,4 | 3,1 |
| Heating capacity ⁽²⁾ | W | 8400 | 14300 | 18850 | 21520 | 28490 | 54240 | 100810 |
| | kcal/h | 7224 | 12298 | 16211 | 18507 | 24502 | 46647 | 86698 |
| Water flow ⁽²⁾ | l/h | 722 | 1230 | 1621 | 1850 | 2450 | 4664 | 8670 |
| | l/s | 0,201 | 0,342 | 0,45 | 0,514 | 0,681 | 1,296 | 2,408 |
| Water pressure drops in heating ⁽²⁾ | kPa | 18,3 | 29,6 | 27,5 | 26,1 | 35,6 | 20,7 | 27 |
| | mWG. | 1,9 | 3 | 2,8 | 2,7 | 3,6 | 2,1 | 2,8 |
| Electrical heater heating capacity ⁽⁴⁾ | W | 3000 | 6000 | | 9000 | | 12000 | 18000 |
| | kcal/h | 2586 | 5172 | | 7759 | | 10345 | 15517 |
| Electrical heater power input ⁽⁴⁾ | A | 4,56 | 9,12 | | 13,67 | | 18,23 | 27,35 |
| Electric heater heating capacity ⁽⁵⁾ | W | 4500 | 9000 | | 12000 | | 18000 | 24000 |
| | kcal/h | 3879 | 7759 | | 10345 | | 15517 | 20690 |
| Electrical heater input current ⁽⁵⁾ | A | 6,84 | 13,67 | | 18,23 | | 27,35 | 36,46 |
| Air flow ⁽⁶⁾ | m ³ /h | 837 | 1423 | 1951 | 2131 | 3002 | 4678 | 9250 |
| | m ³ /s | 0,233 | 0,395 | 0,542 | 0,592 | 0,834 | 1,299 | 2,569 |
| Fan speed ⁽⁶⁾ | rpm | 1360 | 1360 | 1200 | 1207 | 1382 | 806 | 822 |
| Sound power level ⁽⁷⁾ | dB(A) | 68 | 66 | 70 | 69 | 75 | 78 | 81 |
| Motor electrical power ⁽⁸⁾ | W | 160 | 240 | 320 | 340 | 580 | 1320 | 2600 |
| Motor electrical input ⁽⁸⁾ | A | 0,72 | 0,97 | 1,43 | 1,51 | 2,58 | 5,86 | 11,54 |
| Electrical supply | V/Ph/Hz | | | | 230/1/50 | | | |

Above mentioned technical data are calculated at the following operating conditions:

- Maximum fan speed
- Standard unit without ducts (fancoil operating without external back pressure)

(1) Cooling: entering water temperature 7°C, leaving water temperature 12°C, entering air temperature 27°C W.B.; 19°C D.B.

(2) Heating: entering water temperature 50°C, same water flow as in cooling, entering air temperature 20°C

(3) Heating: entering water temperature 70°C, leaving water temperature 60°C, entering air temperature 20°C

(4) Electric heaters section SRE - B: electric heaters capacities, lower speed cabling (SRE - B supplied as accessory only)

(5) Electric heaters section SRE - A: electric heaters capacities, high speed cabling (SRE - A supplied as accessory only)

(6) Air flow and fan speed: fancoil performances with cleaned filter

(7) Sound power level: sound power measured following ISO 23741

(8) Electrical data referred to the maximum available speed

2 PIPES SYSTEM**CORRECTION COEFFICIENT FOR DIFFERENT AVAILABLE SPEEDS**

| COMFAIR | HH | 10 | 20 | 30 | 40 | 50 | 60 | 70 |
|---------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total cooling capacity | 1 | 0,84 min | 0,74 min | 0,79 min | 0,74 min | 0,68 min | 0,77 min | 0,78 min |
| | 2 | 0,95 med | 0,90 med | 0,94 med | 0,93 med | 0,87 med | 0,89 med | 0,90 med |
| | 3 | 0,98 | 0,96 | 1,00 max |
| | 4 | 1,00 max | 1,00 max | - | - | - | - | - |
| Sensible cooling capacity | 1 | 0,86 min | 0,71 min | 0,77 min | 0,71 min | 0,65 min | 0,75 min | 0,76 min |
| | 2 | 0,95 med | 0,89 med | 0,94 med | 0,91 med | 0,85 med | 0,88 med | 0,89 med |
| | 3 | 0,98 | 0,95 | 1,00 max |
| | 4 | 1,00 max | 1,00 max | - | - | - | - | - |
| Heating capacity | 1 | 0,86 min | 0,72 min | 0,77 min | 0,72 min | 0,67 min | 0,75 min | 0,77 min |
| | 2 | 0,95 med | 0,90 med | 0,94 med | 0,92 med | 0,86 med | 0,88 med | 0,89 med |
| | 3 | 0,98 | 0,96 | 1,00 max |
| | 4 | 1,00 max | 1,00 max | - | - | - | - | - |
| Air flow | 1 | 0,81 min | 0,63 min | 0,69 min | 0,63 min | 0,56 min | 0,69 min | 0,70 min |
| | 2 | 0,93 med | 0,85 med | 0,91 med | 0,89 med | 0,80 med | 0,84 med | 0,85 med |
| | 3 | 0,97 | 0,94 | 1,00 max |
| | 4 | 1,00 max | 1,00 max | - | - | - | - | - |

Data indicated as min., med., max. concern the 3 standard speeds set at the factory. Upon customer request other 3 speeds among the 6 speeds available can be connected.

NOTE: The symbol (-) means that for HH30 to HH70, only 3 fan speeds are available. For HH10 and HH20, upon customer request other 3 speeds among the 4 available speeds can be connected.

4 PIPES SYSTEM

| COMFAIR | HH | 10 | 20 | 30 | 40 | 50 | 60 | 70 |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total cooling capacity ⁽¹⁾ | W | 3600 | 7000 | 8300 | 9570 | 12300 | 24950 | 45550 |
| | Frig/h | 3096 | 6020 | 7138 | 8230 | 10578 | 21457 | 39173 |
| Sensible cooling capacity ⁽¹⁾ | W | 3100 | 5630 | 7070 | 8040 | 10600 | 20150 | 37750 |
| | Frig/h | 2666 | 4842 | 6080 | 6914 | 9116 | 17329 | 32465 |
| Heating capacity ⁽²⁾ | W | 4180 | 7000 | 9170 | 10600 | 14000 | 38800 | 70150 |
| | kcal/h | 3595 | 6020 | 7886 | 9116 | 12040 | 33368 | 60330 |
| Water flow in cooling ⁽¹⁾ | l/h | 619 | 1205 | 1428 | 1646 | 2116 | 4291 | 7835 |
| | l/s | 0,172 | 0,335 | 0,397 | 0,457 | 0,588 | 1,192 | 2,176 |
| Water flow in heating ⁽²⁾ | l/h | 360 | 602 | 789 | 912 | 1204 | 3337 | 6033 |
| | l/s | 0,1 | 0,167 | 0,219 | 0,253 | 0,334 | 0,927 | 1,676 |
| Water pressure drops in cooling ⁽¹⁾ | kPa | 15,9 | 26,8 | 28 | 25 | 30,8 | 27 | 32 |
| | mWG. | 1,6 | 2,7 | 2,9 | 2,5 | 3,1 | 2,8 | 3,3 |
| Water pressure drops in heating ⁽²⁾ | kPa | 26,8 | 22,9 | 37 | 21,7 | 33,8 | 33 | 36 |
| | mWG. | 2,7 | 2,3 | 3,8 | 2,2 | 3,4 | 3,4 | 3,7 |
| Heating capacity ⁽³⁾ | W | 2557 | 4275 | 5593 | 6441 | 8547 | 23730 | 42898 |
| | kcal/h | 2204 | 3686 | 4822 | 5553 | 7368 | 20457 | 36981 |
| Water flow ⁽³⁾ | l/h | 446 | 746 | 976 | 1124 | 1492 | 4141 | 7486 |
| | l/s | 0,124 | 0,207 | 0,271 | 0,312 | 0,414 | 1,15 | 2,079 |
| Water pressure drops in heating ⁽³⁾ | kPa | 46 | 39 | 62 | 36 | 58 | 56 | 62 |
| | mWG. | 4,7 | 4 | 6,3 | 3,7 | 5,9 | 5,8 | 6,3 |
| Air flow ⁽⁴⁾ | m³/h | 795 | 1352 | 1853 | 2024 | 2852 | 4444 | 8788 |
| | m³/s | 0,221 | 0,376 | 0,515 | 0,562 | 0,792 | 1,234 | 2,441 |
| Fan speed ⁽⁴⁾ | rpm | 1365 | 1365 | 1205 | 1214 | 1387 | 810 | 832 |
| Sound power level ⁽⁵⁾ | dB(A) | 69 | 66 | 70 | 70 | 73 | 78 | 81 |
| Motor electrical power ⁽⁶⁾ | W | 162 | 218 | 322 | 340 | 582 | 1320 | 2600 |
| Motor electrical input ⁽⁶⁾ | A | 0,72 | 0,97 | 1,43 | 1,51 | 2,58 | 5,86 | 11,54 |
| Electrical supply | V/Ph/Hz | | | | 230/1/50 | | | |

Above mentioned technical data are calculated at the following operating conditions:

- Maximum fan speed
- Standard unit without ducts (fancoil operating without external back pressure)

(1) Cooling: entering water temperature 7°C, leaving water temperature 12°C, entering air temperature 27°C W.B.; 19°C D.B.

(2) Heating: entering water temperature 70°C, leaving water temperature 60°C, entering air temperature 20°C

(3) Heating: entering water temperature 50°C, same water flow as in cooling, entering air temperature 20°C

(4) Air flow and fan speed: fancoil performances with cleaned filter

(5) Sound power level: sound power measured following ISO 23741

(6) Electrical data referred to the maximum available speed

CORRECTION COEFFICIENT FOR DIFFERENT AVAILABLE SPEEDS

| COMFAIR | HH | 10 | 20 | 30 | 40 | 50 | 60 | 70 |
|---------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total cooling capacity | 1 | 0,87 min | 0,73 min | 0,78 min | 0,73 min | 0,68 min | 0,76 min | 0,78 min |
| | 2 | 0,96 med | 0,90 med | 0,94 med | 0,93 med | 0,86 med | 0,89 med | 0,90 med |
| | 3 | 0,98 | 0,96 | 1,00 max |
| | 4 | 1,00 max | 1,00 max | - | - | - | - | - |
| Sensible cooling capacity | 1 | 0,86 min | 0,71 min | 0,76 min | 0,72 min | 0,65 min | 0,74 min | 0,76 min |
| | 2 | 0,94 med | 0,89 med | 0,94 med | 0,93 med | 0,85 med | 0,87 med | 0,89 med |
| | 3 | 0,98 | 0,96 | 1,00 max |
| | 4 | 1,00 max | 1,00 max | - | - | - | - | - |
| Heating capacity | 1 | 0,89 min | 0,77 min | 0,82 min | 0,78 min | 0,73 min | 0,78 min | 0,80 min |
| | 2 | 0,96 med | 0,92 med | 0,95 med | 0,94 med | 0,89 med | 0,90 med | 0,91 med |
| | 3 | 0,98 | 0,97 | 1,00 max |
| | 4 | 1,00 max | 1,00 max | - | - | - | - | - |
| Air flow | 1 | 0,81 min | 0,63 min | 0,69 min | 0,63 min | 0,56 min | 0,69 min | 0,70 min |
| | 2 | 0,93 med | 0,85 med | 0,91 med | 0,89 med | 0,80 med | 0,84 med | 0,85 med |
| | 3 | 0,97 | 0,94 | 1,00 max |
| | 4 | 1,00 max | 1,00 max | - | - | - | - | - |

Data indicated as min., med., max. concern the 3 standard speeds set at the factory. Upon customer request other 3 speeds among the 6 speeds available can be connected.

NOTE: The symbol (-) means that for HH30 to HH70, only 3 fan speeds are available. For HH10 and HH20, upon customer request other 3 speeds among the 4 available speeds can be connected.

WORKING LIMITS - HH



Maximum entering water temperature: 70°C
Minimum entering water temperature: +4°C
Maximum working pressure: 8 Bar

Maximum entering air temperature: 40°C
Minimum entering air temperature: +4°C

WATER FLOW AND PRESSURE DROP LIMITS, 3R COIL (HH10 TO HH50) AND 4R COIL (HH60 AND HH70)

| COMFAIR | HH | 10 | 20 | 30 | 40 | 50 | 60 | 70 |
|-----------------------------|-----|------|------|------|------|------|------|-------|
| Minimal water flow | l/h | 175 | 225 | 275 | 325 | 375 | 825 | 1400 |
| Minimal water pressure drop | kPa | 1,3 | 1,1 | 1 | 1 | 1 | 1 | 1 |
| Maximal water flow | l/h | 1300 | 1850 | 2275 | 2700 | 3150 | 6900 | 11575 |
| maximal water pressure drop | kPa | 70,8 | 71,9 | 70 | 69,9 | 70,1 | 70,4 | 70,3 |

Data given for medium water temperature at 9,5°C

WATER FLOW AND PRESSURE DROP LIMITS, 1 ROW COIL (HH10 TO HH50) AND 2R COIL (HH60 AND HH70)

| COMFAIR | HH | 10 | 20 | 30 | 40 | 50 | 60 | 70 |
|-----------------------------|-----|------|------|------|------|------|------|------|
| Minimal water flow | l/h | 75 | 125 | 150 | 200 | 225 | 600 | 1025 |
| Minimal water pressure drop | kPa | 1,2 | 1 | 1,3 | 1 | 1,2 | 1,1 | 1 |
| Maximal water flow | l/h | 575 | 1050 | 1100 | 1650 | 1725 | 4900 | 8450 |
| maximal water pressure drop | kPa | 68,5 | 69,7 | 70 | 69,2 | 69,6 | 70,7 | 70,2 |

Data given for medium water temperature at 65°C

3 WAYS VALVE

Using of 2 or 3 ways valves is compulsory when the unit is used for cooling to avoid condensate in the external structure (bearing structure and cabinet). As alternative install a regulating system to stop coil water entering when the fan is off.

MAXIMUM FAN STATIC PRESSURE

When the units is connected with ducts fan air flow is reduced due to the ducting pressure drops.

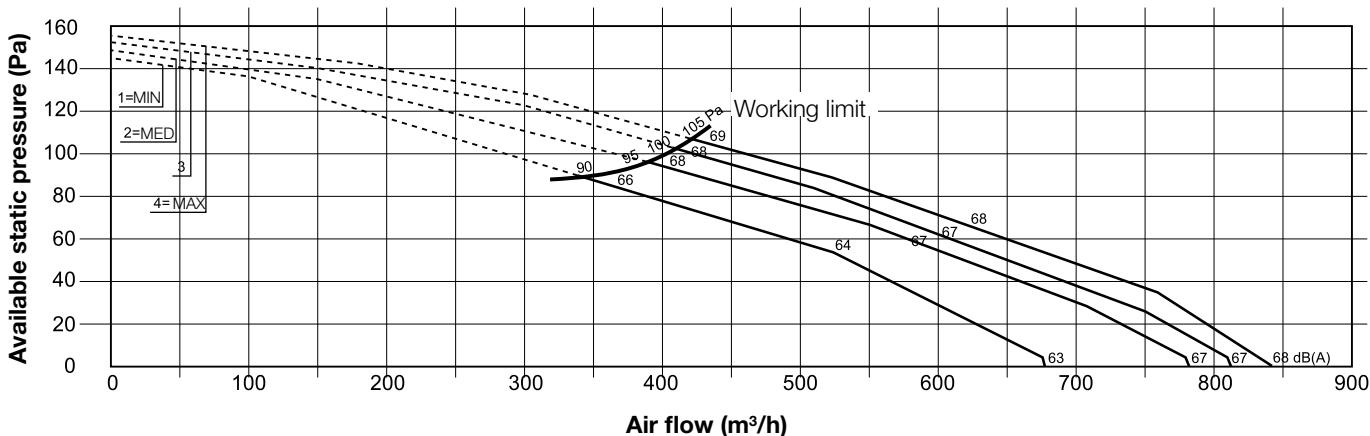
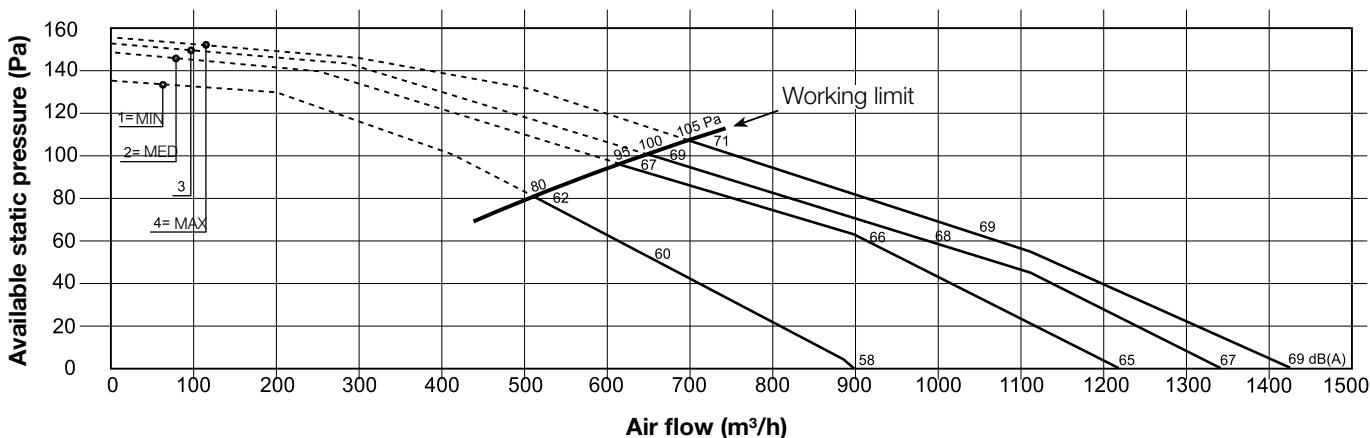
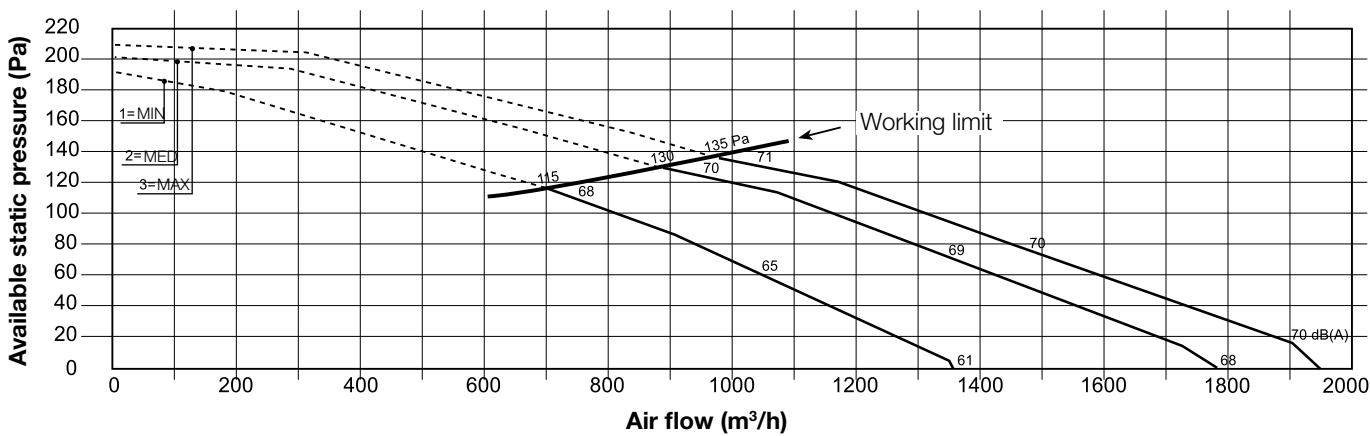
With very high pressure drops fancoil air flow becomes too low and electric motor which is connected to the fan can be damaged. For this reason we recommand static pressures lower than the maximum limit static pressures indicated in the schedule.

NOTE: When the fancoil is operating with the maximum operating indicated static pressure value, air flow is half in comparison with the unit without ducts at the same working speed. Definitively the static pressure limit corresponds to the back pressure ables to half fancoil air flow (as a consequence the fancoil unit performances like heating & cooling capacity, will be reduced of about 50%).

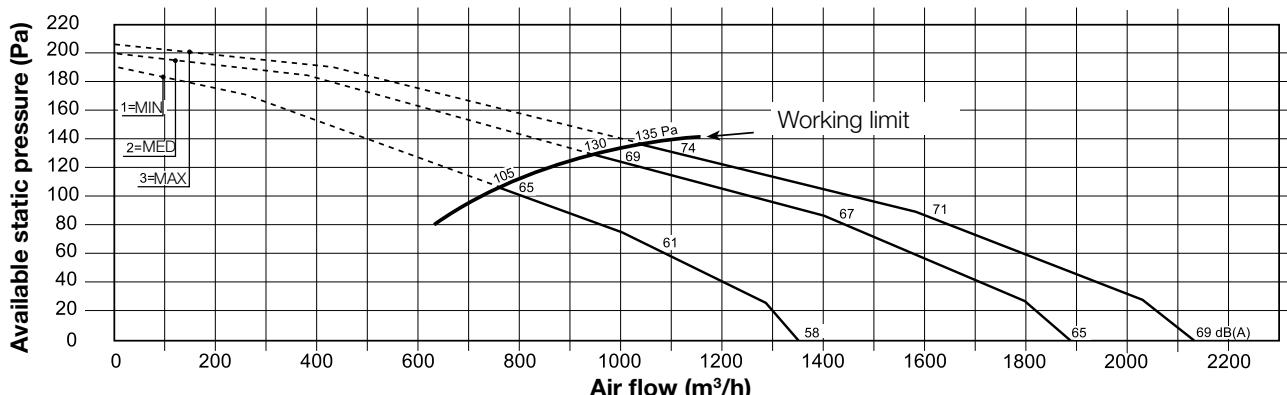
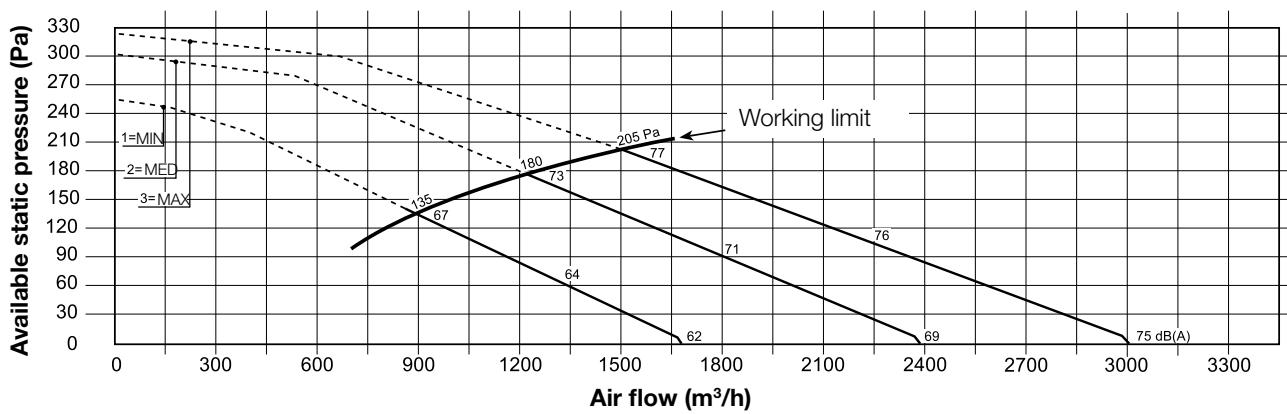
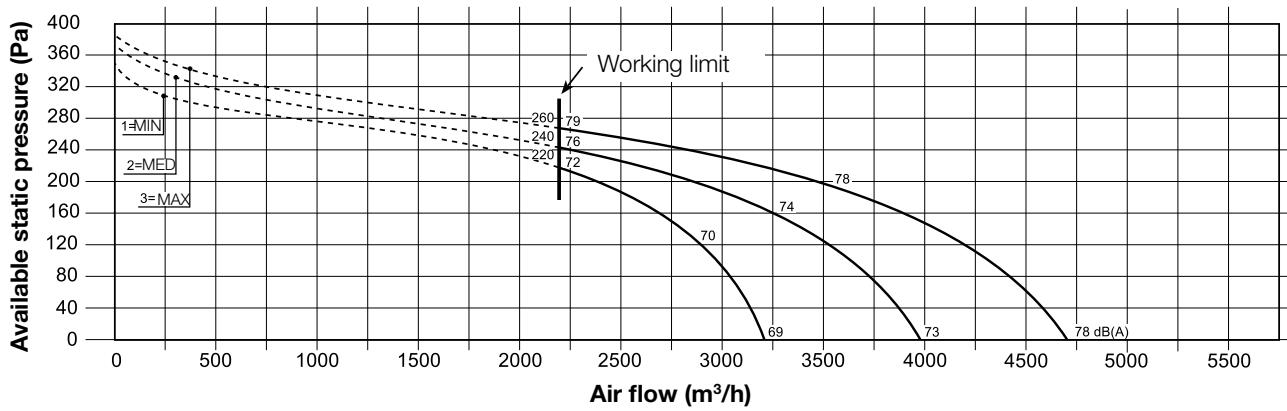
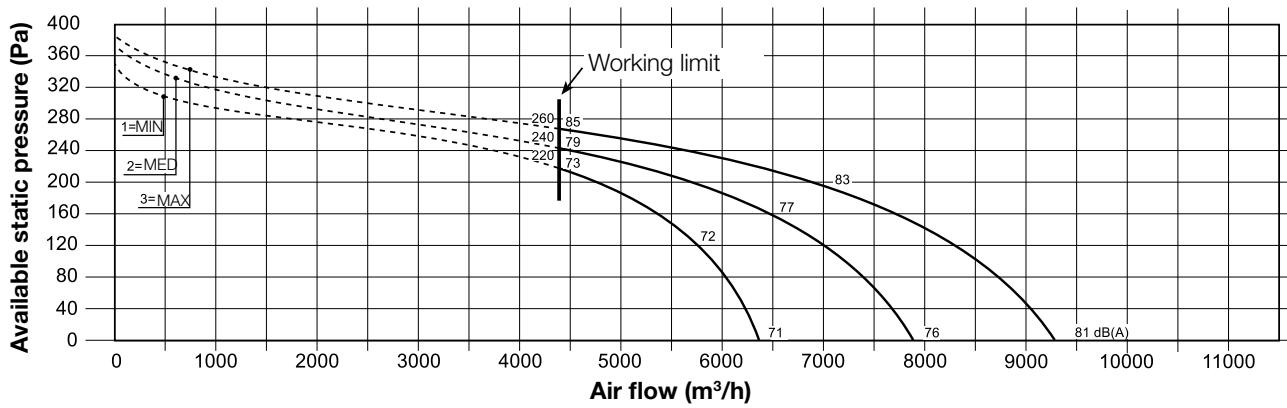
| COMFAIR | HH | 10 | 20 | 30 | 40 | 50 | 60 | 70 |
|----------------|----|----|---------|---------|---------|---------|---------|---------|
| 2 pipes system | 1 | Pa | 90 min | 80 min | 115 min | 105 min | 135 min | 220 min |
| | 2 | Pa | 95 med | 95 med | 130 med | 130 med | 180 med | 240 med |
| | 3 | Pa | 100 | 100 | 135 max | 135 max | 205 max | 260 max |
| | 4 | Pa | 105 max | 105 max | - | - | - | - |
| 4 pipes system | 1 | Pa | 75 min | 70 min | 95 min | 90 min | 110 min | 180 min |
| | 2 | Pa | 85 med | 80 med | 115 med | 115 med | 155 med | 210 med |
| | 3 | Pa | 90 | 85 | 120 max | 120 max | 180 max | 220 max |
| | 4 | Pa | 95 max | 90 max | - | - | - | - |

Data indicated as min., med., max. concern the 3 standard speeds set at the factory. Upon customer request other 3 speeds among the 6 speeds available can be connected.

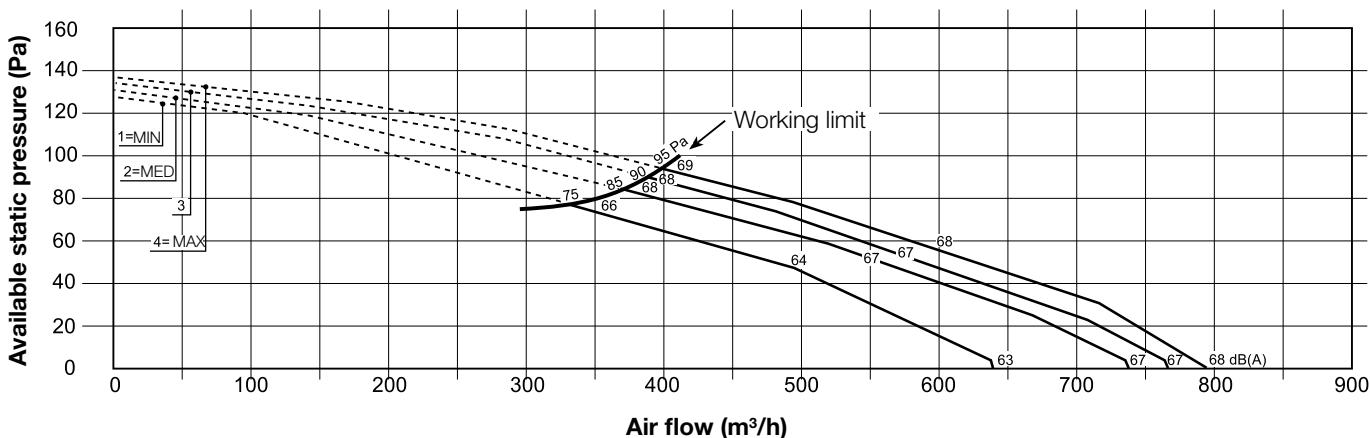
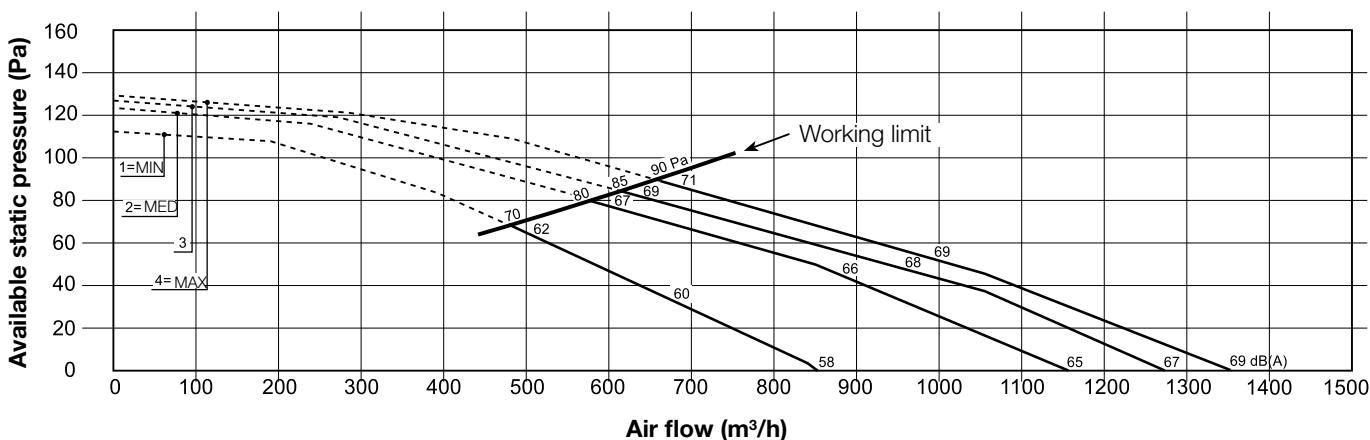
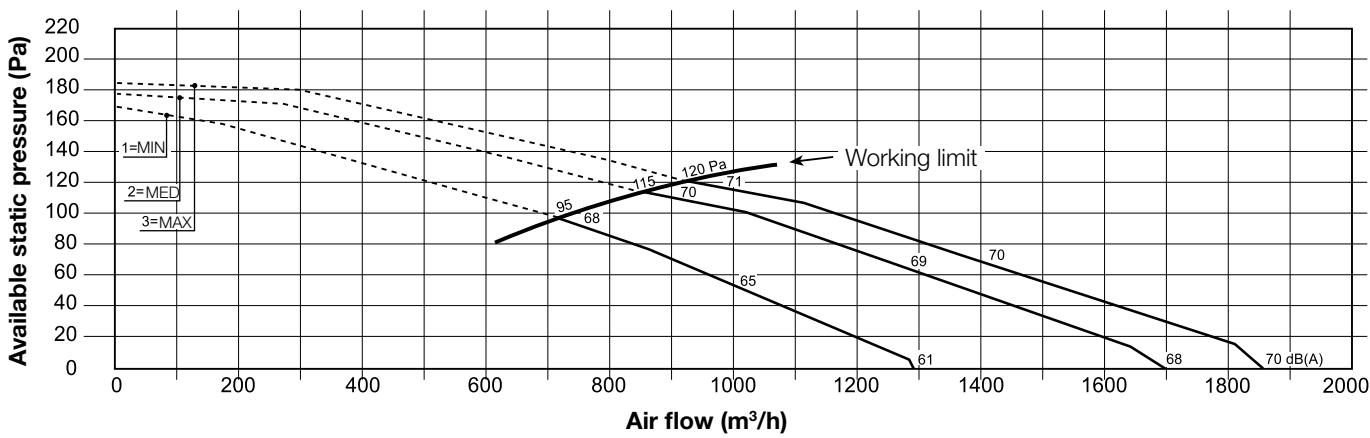
NOTE: The symbol (-) means that for HH30 to HH70, only 3 fan speeds are available. For HH10 and HH20, upon customer request other 3 speeds among the 4 available speeds can be connected.

HH10 - 2 PIPES SYSTEM (3 ROW COIL DATA)

HH20 - 2 PIPES SYSTEM (3 ROW COIL DATA)

HH30 - 2 PIPES SYSTEM (3 ROW COIL DATA)


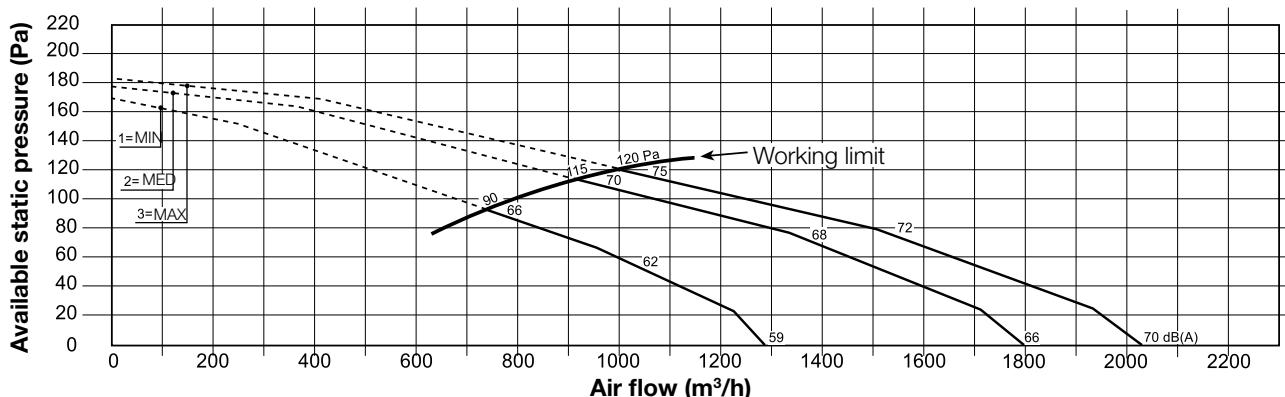
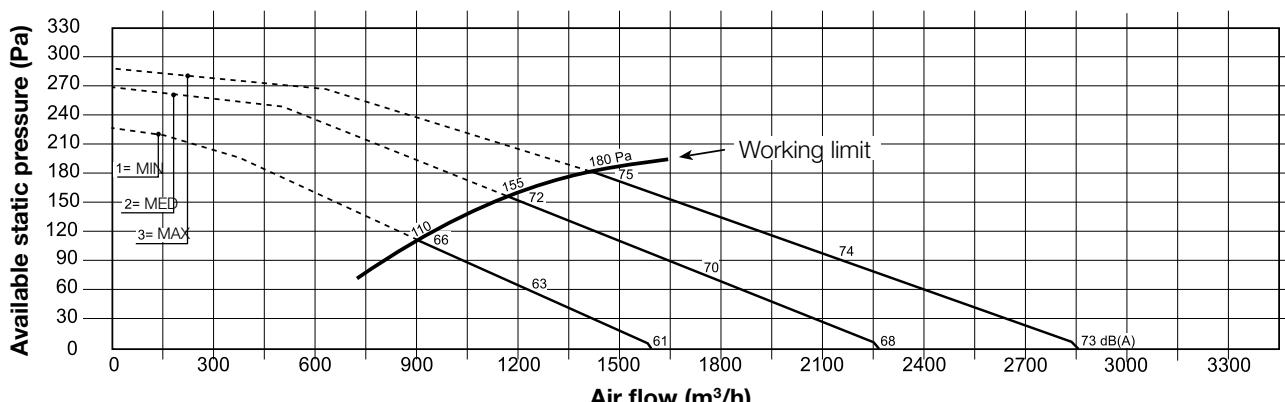
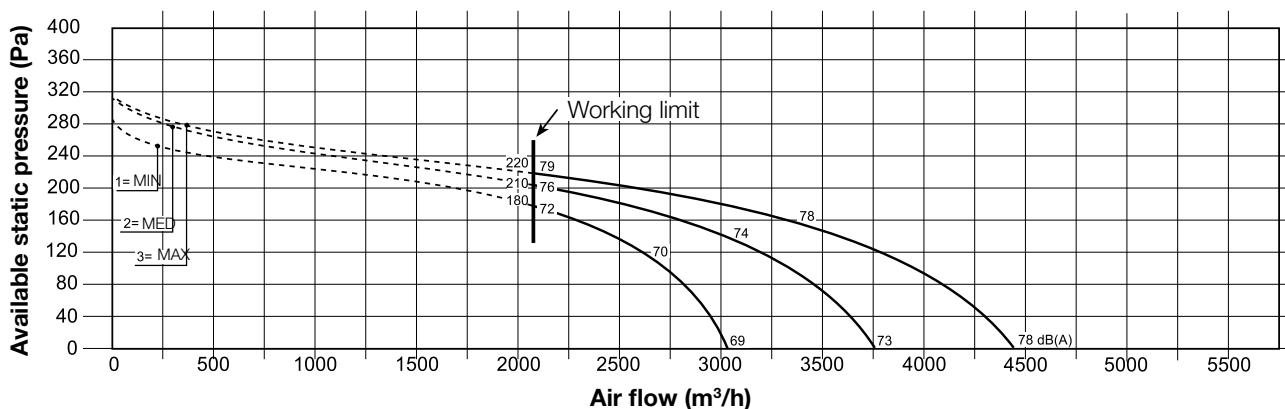
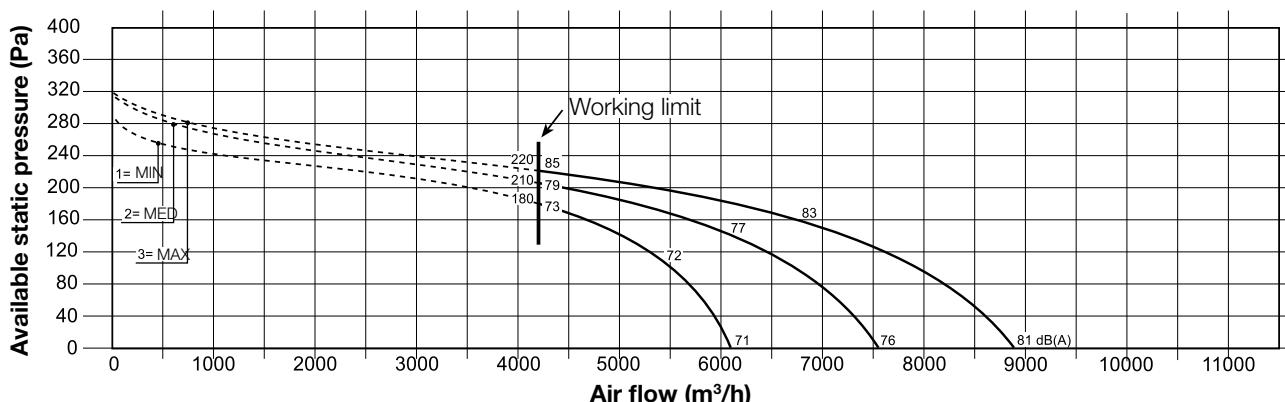
Data indicated as min., med., max. concern the 3 standard speeds set at the factory. Upon customer request other 3 speeds among the 6 speeds available can be connected.

HH40 - 2 PIPES SYSTEM (3 ROW COIL DATA)**HH50 - 2 PIPES SYSTEM (3 ROW COIL DATA)****HH60 - 2 PIPES SYSTEM (3 ROW COIL DATA)****HH70 - 2 PIPES SYSTEM (3 ROW COIL DATA)**

Data indicated as min., med., max. concern the 3 standard speeds set at the factory. Upon customer request other 3 speeds among the 6 speeds available can be connected.

HH10 - 4 PIPES SYSTEM (3 ROW + 1 ROW COIL DATA)

HH20 - 4 PIPES SYSTEM (3 ROW + 1 ROW COIL DATA)

HH30 - 4 PIPES SYSTEM (3 ROW + 1 ROW COIL DATA)


Data indicated as min., med., max. concern the 3 standard speeds set at the factory. Upon customer request other 3 speeds among the 6 speeds available can be connected.

HH40 - 4 PIPES SYSTEM (3 ROW + 1 ROW COIL DATA)

HH50 - 4 PIPES SYSTEM (3 ROW + 1 ROW COIL DATA)

HH60 - 4 PIPES SYSTEM (3 ROW + 1 ROW COIL DATA)

HH70 - 4 PIPES SYSTEM (3 ROW + 1 ROW COIL DATA)


Data indicated as min., med., max. concern the 3 standard speeds set at the factory. Upon customer request other 3 speeds among the 6 speeds available can be connected.

2 PIPES SYSTEM

| COMFAIR | Speeds | Std electric wiring (*) | Frequency spectrum - Ref. octave band (Hz) | | | | | | | Total sound power (dB(A)) |
|---------|--------|-------------------------|--|------|------|------|------|------|------|---------------------------|
| | | | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | |
| HH10 | 1 | Min | 68,1 | 60,6 | 59,3 | 57,9 | 54,9 | 52,3 | 45,9 | 63 |
| | 2 | Med | 71,4 | 64,5 | 62,8 | 62 | 59 | 57 | 51,5 | 67 |
| | 3 | | 71,4 | 65,4 | 63,3 | 62,5 | 59,6 | 57,6 | 52,6 | 67,5 |
| | 4 | Max | 71,9 | 65,7 | 63,7 | 62,9 | 60,1 | 58,2 | 53,4 | 68 |
| HH20 | 1 | Min | 57,2 | 51,4 | 50,9 | 47,6 | 44,8 | 39,5 | 32 | 53 |
| | 2 | Med | 65,2 | 60 | 58,7 | 56,9 | 54,1 | 51,3 | 45,3 | 62 |
| | 3 | | 66,9 | 61,7 | 60,1 | 58,9 | 56,1 | 53,8 | 48,6 | 64 |
| | 4 | Max | 68,4 | 63,9 | 61,8 | 60,6 | 58,2 | 56,2 | 51,4 | 66 |
| HH30 | 1 | Min | 61,9 | 57,6 | 58,7 | 55,9 | 53 | 49,6 | 42,7 | 61 |
| | 2 | Med | 67,6 | 64,2 | 64,8 | 64 | 60,4 | 52 | 54 | 68 |
| | 3 | Max | 68,3 | 65,6 | 63,8 | 66,2 | 62,1 | 60,9 | 56,6 | 70 |
| HH40 | 1 | Min | 67,5 | 53,5 | 54,2 | 51,9 | 49,6 | 46 | 38,6 | 58 |
| | 2 | Med | 68,3 | 59,7 | 61 | 59,8 | 57,2 | 56,2 | 51,4 | 65 |
| | 3 | Max | 69,2 | 63,3 | 64,1 | 64,3 | 61 | 60,5 | 56,7 | 69 |
| HH50 | 1 | Min | 63,7 | 57,8 | 58,4 | 58 | 54,8 | 48,2 | 39,1 | 62 |
| | 2 | Med | 70,4 | 64,7 | 63,6 | 64,2 | 62,6 | 59,3 | 52,2 | 69 |
| | 3 | Max | 75,6 | 71,2 | 68,8 | 69,6 | 68,7 | 66,5 | 61,1 | 75 |
| HH60 | 1 | Min | 71,3 | 66,3 | 68,8 | 63,4 | 58,1 | 54,1 | 41,6 | 69 |
| | 2 | Med | 73,8 | 69 | 72,7 | 67,7 | 62,5 | 59 | 48 | 73 |
| | 3 | Max | 74 | 73,6 | 77,3 | 73,1 | 68,1 | 64,8 | 54,7 | 78 |
| HH70 | 1 | Min | 67,3 | 67,8 | 70,6 | 65,8 | 61 | 56,8 | 44,7 | 71 |
| | 2 | Med | 75,9 | 72 | 75,1 | 71,2 | 66,3 | 62,9 | 51,9 | 76 |
| | 3 | Max | 73,7 | 76,9 | 79,3 | 76,7 | 71,9 | 68,7 | 58,9 | 81 |

4 PIPES SYSTEM

| COMFAIR | Speeds | Std electric wiring (*) | Frequency spectrum - Ref. octave band (Hz) | | | | | | | Total sound power (dB(A)) |
|---------|--------|-------------------------|--|------|------|------|------|------|------|---------------------------|
| | | | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | |
| HH10 | 1 | Min | 68,1 | 60,6 | 59,3 | 57,9 | 54,9 | 52,3 | 45,9 | 63 |
| | 2 | Med | 71,4 | 64,5 | 62,8 | 62 | 59 | 57 | 51,5 | 67 |
| | 3 | | 71,9 | 65,9 | 63,8 | 63 | 60,1 | 58,1 | 53,1 | 68 |
| | 4 | Max | 72,9 | 66,7 | 64,7 | 63,9 | 61,1 | 59,2 | 53,4 | 69 |
| HH20 | 1 | Min | 57,2 | 51,4 | 50,9 | 47,6 | 44,8 | 39,5 | 32 | 53 |
| | 2 | Med | 65,2 | 60 | 58,7 | 56,9 | 54,1 | 51,3 | 45,3 | 62 |
| | 3 | | 66,9 | 61,7 | 60,1 | 58,9 | 56,1 | 53,8 | 48,6 | 64 |
| | 4 | Max | 68,4 | 63,9 | 61,8 | 60,9 | 58,2 | 56,2 | 51,4 | 66 |
| HH30 | 1 | Min | 61,9 | 57,6 | 58,7 | 55,9 | 53 | 49,6 | 42,7 | 61 |
| | 2 | Med | 67,6 | 64,2 | 64,8 | 64 | 60,4 | 52 | 54 | 68 |
| | 3 | Max | 68,3 | 65,6 | 63,8 | 66,2 | 62,1 | 60,9 | 56,6 | 70 |
| HH40 | 1 | Min | 68,5 | 54,5 | 55,2 | 52,9 | 50,6 | 47 | 39,6 | 59 |
| | 2 | Med | 69,3 | 60,7 | 62 | 60,8 | 58,2 | 57,2 | 52,4 | 66 |
| | 3 | Max | 70,2 | 64,3 | 65,1 | 65,3 | 62 | 61,5 | 57,7 | 70 |
| HH50 | 1 | Min | 62,7 | 56,8 | 57,4 | 57 | 53,8 | 47,2 | 38,1 | 61 |
| | 2 | Med | 69,4 | 63,7 | 62,6 | 63,2 | 61,6 | 58,3 | 51,2 | 68 |
| | 3 | Max | 73,6 | 69,2 | 66,8 | 67,6 | 66,7 | 64,5 | 59,1 | 73 |
| HH60 | 1 | Min | 71,3 | 66,3 | 68,8 | 63,4 | 58,1 | 54,1 | 41,6 | 69 |
| | 2 | Med | 73,8 | 69 | 72,7 | 67,7 | 62,5 | 59 | 48 | 73 |
| | 3 | Max | 74 | 73,6 | 77,3 | 73,1 | 68,1 | 64,8 | 54,7 | 78 |
| HH70 | 1 | Min | 67,3 | 67,8 | 70,6 | 65,8 | 61 | 56,8 | 44,7 | 71 |
| | 2 | Med | 75,9 | 72 | 75,1 | 71,2 | 66,3 | 62,9 | 51,9 | 76 |
| | 3 | Max | 73,7 | 76,9 | 79,3 | 76,7 | 71,9 | 68,7 | 58,9 | 81 |

Data indicated as min., med., max. concern the 3 standard speeds set at the factory. Upon customer request other 3 speeds among the 6 speeds available can be connected.

AIR PRESSURE DROPS FOR THE MAIN ACCESSORIES - HH

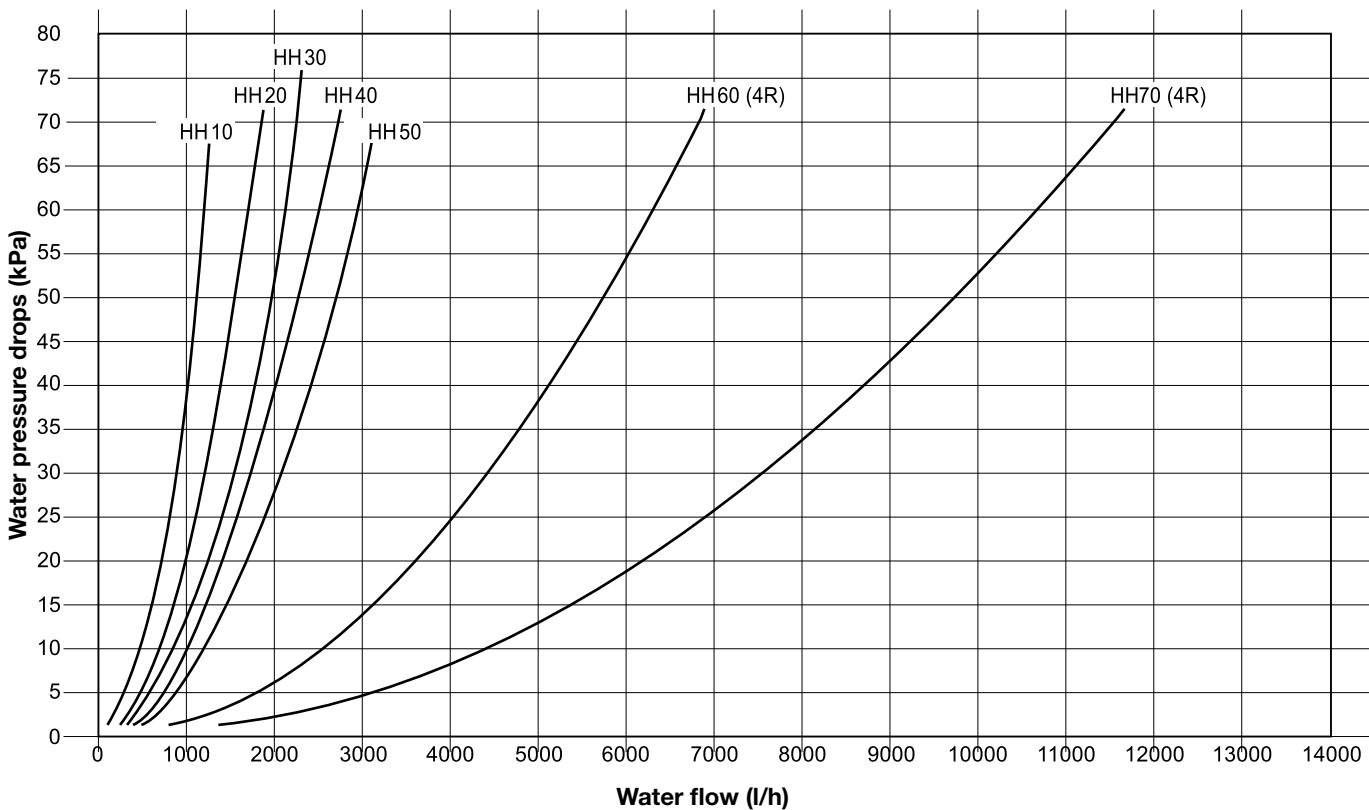


| Air flow dB(A) | Description of the accessories | | | | | | | | |
|---------------------|--|--|---|--------------------------------|---|--|--|---|-----------------------|
| | Fresh air lower section (SSP) With completely open fresh air Lower position | Fresh air lower section (SSP) With completely closed fresh air Lower position | Straight intake/ Supply plenum (PAM) | 90° intake/supply plenum (RAM) | Intake/Supply section with spigot section (BAM) | Heating section with electric heater (SRE) | Standard air filter in medium stemming condition | Standard air filter in limit stemming condition | CLEANING IS NECESSARY |
| COMFAIR HH10 | | | | | | | | | |
| 837 | 8,7 | 7,5 | 1,2 | 2,8 | 5,3 | 50,6 | 55,1 | 110 | |
| 800 | 7,9 | 6,9 | 1,1 | 2,5 | 4,8 | 46,2 | 50,4 | 101 | |
| 700 | 6,1 | 5,3 | 0,8 | 1,9 | 3,7 | 35,4 | 38,5 | 77,1 | |
| 600 | 4,5 | 3,9 | 0,6 | 1,4 | 2,7 | 26 | 28,3 | 56,6 | |
| 500 | 3,1 | 2,7 | 0,4 | 1 | 1,9 | 18 | 19,7 | 39,3 | |
| 400 | 2 | 1,7 | 0,3 | 0,6 | 1,2 | 11,5 | 12,6 | 25,2 | |
| 330 | 1,3 | 1,2 | - | 0,4 | 0,8 | 7,9 | 8,6 | 17,1 | |
| COMFAIR HH20 | | | | | | | | | |
| 1423 | 9,3 | 8,1 | 1,2 | 2,9 | 8,4 | 52,1 | 56,7 | 113 | |
| 1400 | 9 | 7,8 | 1,2 | 2,8 | 8,1 | 50,4 | 54,9 | 110 | |
| 1200 | 6,6 | 5,7 | 0,9 | 2,1 | 6 | 37 | 40,3 | 80,7 | |
| 1000 | 4,6 | 4 | 0,6 | 1,4 | 4,1 | 25,7 | 28 | 56 | |
| 800 | 2,9 | 2,5 | 0,4 | 0,9 | 2,7 | 16,5 | 17,9 | 35,9 | |
| 600 | 1,6 | 1,4 | - | 0,5 | 1,5 | 9,3 | 10,1 | 20,2 | |
| 400 | 0,7 | 0,6 | - | - | 0,7 | 4,1 | 4,5 | 9 | |
| COMFAIR HH30 | | | | | | | | | |
| 1951 | 14,1 | 12,2 | 1,6 | 4,4 | 15,8 | 59,5 | 64,9 | 130 | |
| 1800 | 12 | 10,4 | 1,4 | 3,8 | 13,5 | 50,7 | 55,2 | 110 | |
| 1600 | 9,5 | 8,2 | 1,1 | 3 | 10,6 | 40 | 43,6 | 87,3 | |
| 1400 | 7,2 | 6,3 | 0,8 | 2,3 | 8,2 | 30,6 | 33,4 | 66,8 | |
| 1200 | 5,3 | 4,6 | 0,6 | 1,7 | 6 | 22,5 | 24,5 | 49,1 | |
| 1000 | 3,7 | 3,2 | 0,4 | 1,2 | 4,2 | 15,6 | 17 | 34,1 | |
| 800 | 2,4 | 2,1 | 0,3 | 0,7 | 2,7 | 10 | 10,9 | 21,8 | |
| 650 | 1,6 | 1,4 | - | 0,5 | 1,8 | 6,6 | 7,2 | 14,4 | |
| COMFAIR HH40 | | | | | | | | | |
| 2131 | 10,9 | 9,5 | 1,3 | 3,4 | 10,7 | 45,6 | 49,7 | 99,4 | |
| 2000 | 9,6 | 8,3 | 1,2 | 3 | 9,4 | 40,2 | 43,8 | 87,6 | |
| 1800 | 7,8 | 6,8 | 0,9 | 2,5 | 7,6 | 32,5 | 35,5 | 70,9 | |
| 1600 | 6,1 | 5,3 | 0,7 | 1,9 | 6 | 25,7 | 28 | 56 | |
| 1400 | 4,7 | 4,1 | 0,6 | 1,5 | 4,6 | 19,7 | 21,5 | 42,9 | |
| 1200 | 3,5 | 3 | 0,4 | 1,1 | 3,4 | 14,5 | 15,8 | 31,5 | |
| 1000 | 2,4 | 2,1 | 0,3 | 0,8 | 2,4 | 10 | 10,9 | 21,9 | |
| 800 | 1,5 | 1,3 | - | 0,5 | 1,5 | 6,4 | 7 | 14 | |
| 650 | 1 | 0,9 | - | 0,3 | 1 | 4,2 | 4,6 | 9,2 | |
| COMFAIR HH50 | | | | | | | | | |
| 3002 | 15,4 | 13,4 | 1,6 | 4,4 | 21,8 | 57 | 62,1 | 124 | |
| 2600 | 11,6 | 10,1 | 1,2 | 3,3 | 16,4 | 42,7 | 46,6 | 93,1 | |
| 2200 | 8,3 | 7,2 | 0,9 | 2,4 | 11,7 | 30,6 | 33,3 | 66,7 | |
| 1800 | 5,5 | 4,8 | 0,6 | 1,6 | 7,8 | 20,5 | 22,3 | 44,6 | |
| 1400 | 3,4 | 2,9 | 0,3 | 1 | 4,7 | 12,4 | 13,5 | 27 | |
| 1000 | 1,7 | 1,5 | - | 0,5 | 2,4 | 6,3 | 6,9 | 13,8 | |
| 800 | 1,1 | 1 | - | 0,3 | 1,5 | 4 | 4,4 | 8,8 | |
| COMFAIR HH60 | | | | | | | | | |
| 4678 | 8,5 | 7,4 | 0,9 | 2,5 | 13,7 | 27,6 | 30,1 | 60,1 | |
| 4500 | 7,9 | 6,8 | 0,9 | 2,3 | 12,7 | 25,5 | 27,8 | 55,6 | |
| 4000 | 6,2 | 5,4 | 0,7 | 1,8 | 10 | 20,2 | 22 | 43,9 | |
| 3500 | 4,8 | 4,1 | 0,5 | 1,4 | 7,7 | 15,4 | 16,8 | 33,6 | |
| 3000 | 3,5 | 3 | 0,4 | 1 | 5,6 | 11,3 | 12,4 | 24,7 | |
| 2500 | 2,4 | 2,1 | 0,3 | 0,7 | 3,9 | 7,9 | 8,6 | 17,2 | |
| 2000 | 1,6 | 1,4 | - | 0,5 | 2,5 | 5 | 5,5 | 11 | |
| 1600 | 1 | 0,9 | - | 0,3 | 1,6 | 3,2 | 3,5 | 7 | |
| COMFAIR HH70 | | | | | | | | | |
| 9250 | 13,7 | 11,9 | 1,4 | 4 | 12,4 | 43,8 | 47,8 | 95,5 | |
| 9000 | 12,9 | 11,2 | 1,3 | 3,8 | 11,7 | 41,5 | 45,2 | 90,4 | |
| 8200 | 10,7 | 9,3 | 1,1 | 3,1 | 9,7 | 34,4 | 37,5 | 75,1 | |
| 7400 | 8,7 | 7,6 | 0,9 | 2,5 | 7,9 | 28 | 30,6 | 61,1 | |
| 6600 | 6,9 | 6 | 0,7 | 2 | 6,3 | 22,3 | 24,3 | 48,6 | |
| 5800 | 5,4 | 4,7 | 0,6 | 1,6 | 4,9 | 17,2 | 18,8 | 37,5 | |
| 5000 | 4 | 3,5 | 0,4 | 1,2 | 3,6 | 12,8 | 14 | 27,9 | |
| 4200 | 2,8 | 2,4 | 0,3 | 0,8 | 2,6 | 9 | 9,8 | 19,7 | |
| 3400 | 1,8 | 1,6 | - | 0,5 | 1,7 | 5,9 | 6,5 | 12,9 | |
| 3200 | 1,6 | 1,4 | - | 0,5 | 1,5 | 5,2 | 5,7 | 11,4 | |

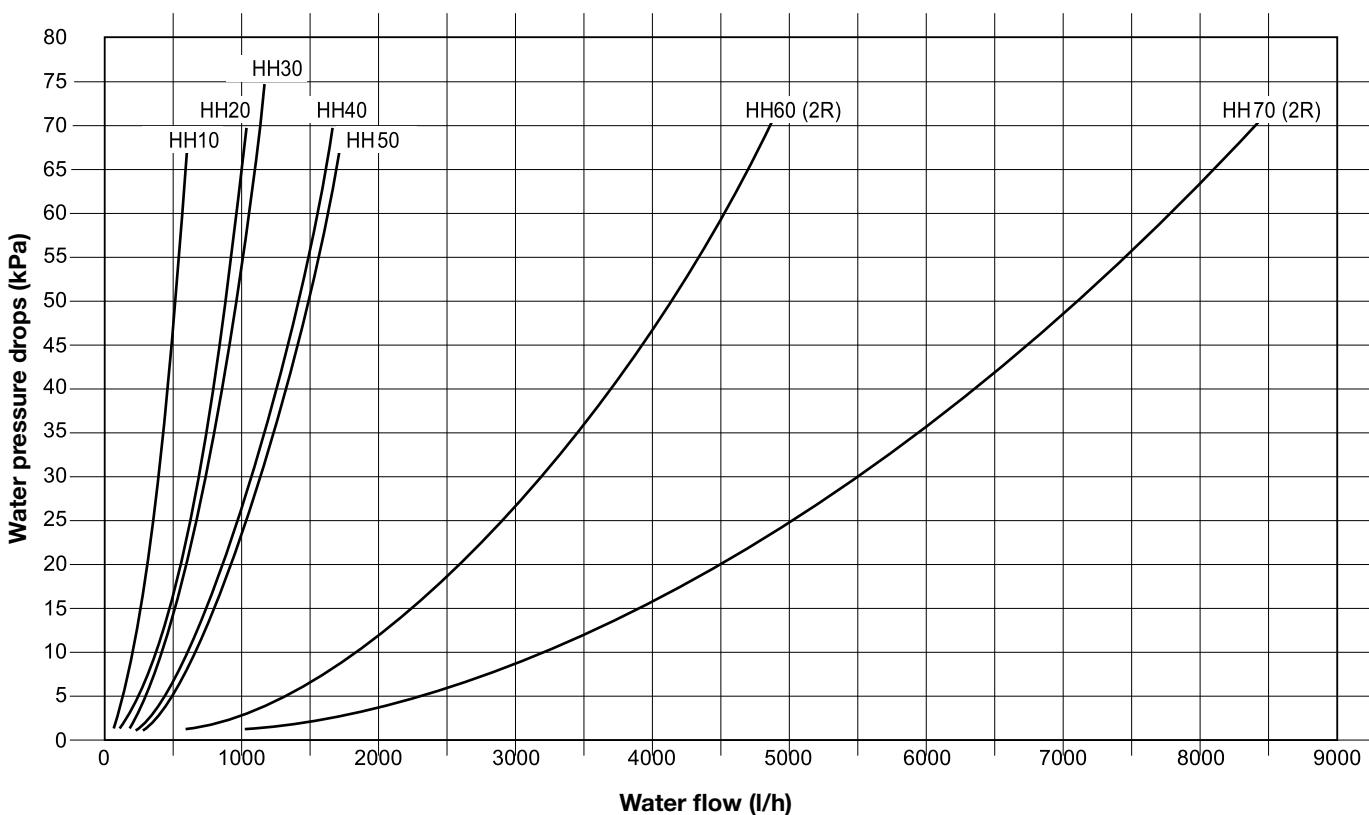
WATER COIL PRESSURE DROP DIAGRAM - HH

LENOX

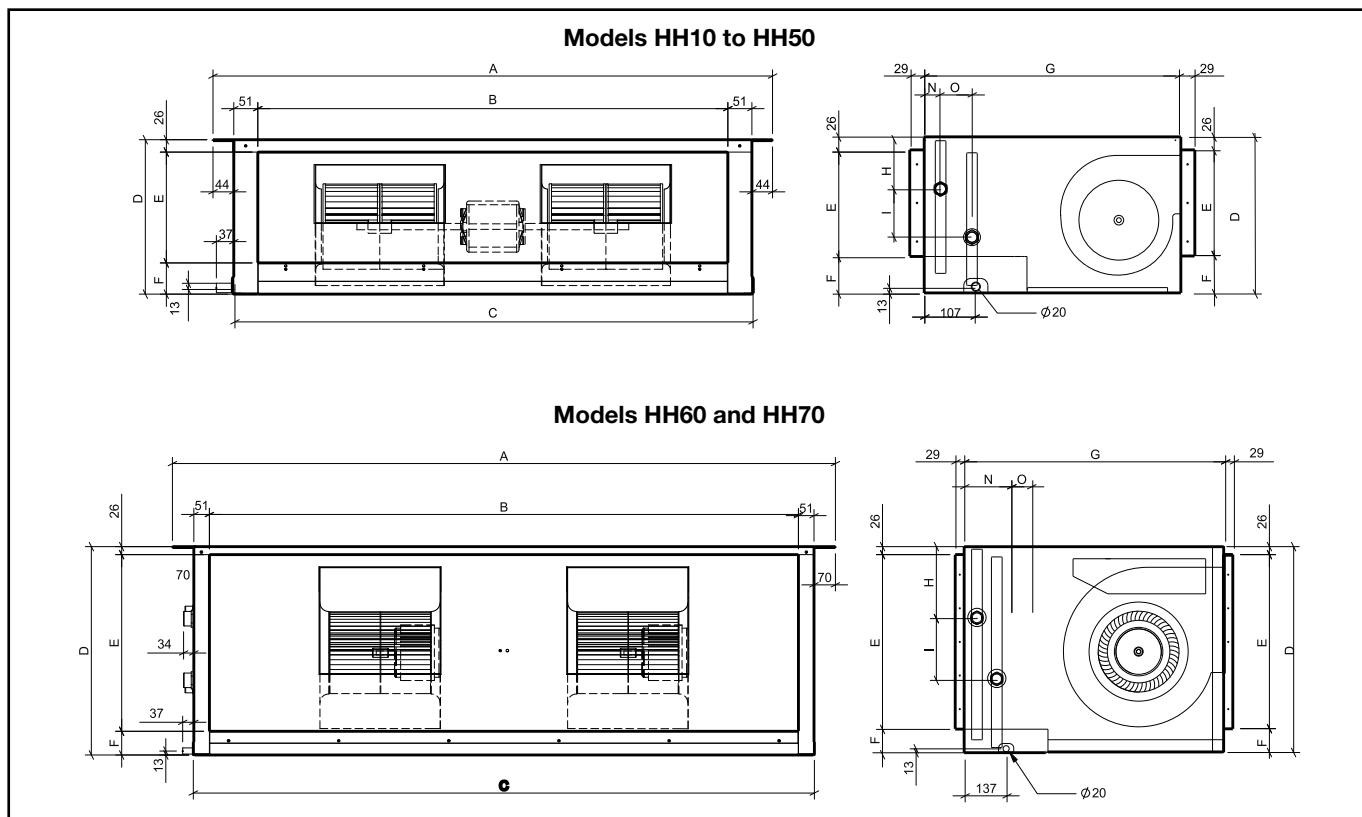
STANDARD COIL (Ref. water medium temperature 9,5°C)



AUXILIARY COIL (Ref. water medium temperature 65°C)

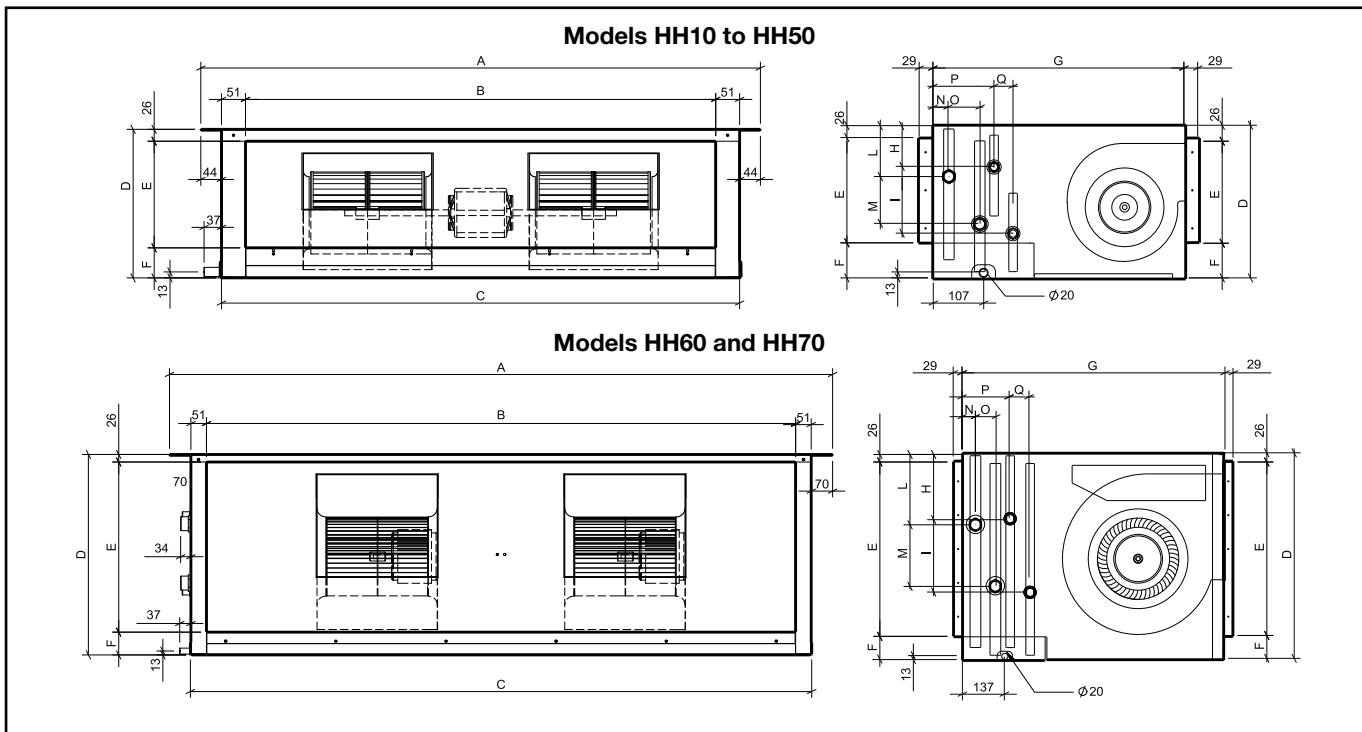


GENERAL DIMENSIONS - 2 PIPES SYSTEM



| COMFAIR | HH | 10 | 20 | 30 | 40 | 50 | 60 | 70 |
|--|------------------------------------|----------------|-------|--------|--------|--------|--------|--------|
| Fans motor number | nr | 1-1 | 2-1 | 2-1 | 2-1 | 2-1 | 1-1 | 2-2 |
| Coil used for both cooling and heating | Rows number | nr | 3 | | | | 4 | |
| | Finned pack length | mm | 523 | 873 | 973 | 1213 | | 1900 |
| | Number of pipes per row | nr | 11 | | 12 | 14 | 26 | |
| | Fin spacing | mm | | | 2,1 | | | |
| | Number of feeding circuits | nr | 3 | 4 | 5 | 6 | 8 | 16 |
| | Shape | mmxmm | | | 25x22 | | | |
| | Finned pack depth | mm | | 66 | | | 88 | |
| | Frontal surface | m ² | 0,144 | 0,240 | 0,292 | 0,364 | 0,425 | 0,788 |
| | Total surface of fins | m ² | 8,128 | 13,567 | 16,495 | 20,564 | 23,991 | 59,407 |
| | Water content | liter | 1,36 | 2,18 | 2,63 | 3,25 | 3,79 | 9,38 |
| Unit general features | Hydraulic connections (Ø male gas) | Ø | 1/2" | | 3/4" | 1" | 1"1/4 | 1"1/2 |
| | A | mm | 738 | 1088 | 1188 | 1428 | 1428 | 1481 |
| | B | mm | 548 | 898 | 998 | 1238 | 1238 | 1239 |
| | C | mm | 650 | 1000 | 1100 | 1340 | 1340 | 1341 |
| | D | mm | 300 | | 325 | 375 | | 675 |
| | E | mm | | 232 | | 275 | | 575 |
| | F | mm | 41 | | 65 | | 75 | |
| | G | mm | | | 533 | | | 852 |
| | H | mm | 96 | | 107 | 133 | | 235 |
| | I | mm | | | 100 | | | 200 |
| | N | mm | | | 35 | | | 43 |
| | O | mm | | | 65 | | | |
| | Net weight | kg | 28 | 36 | 41 | 46 | 57 | 117 |
| | | | | | | | | 192 |

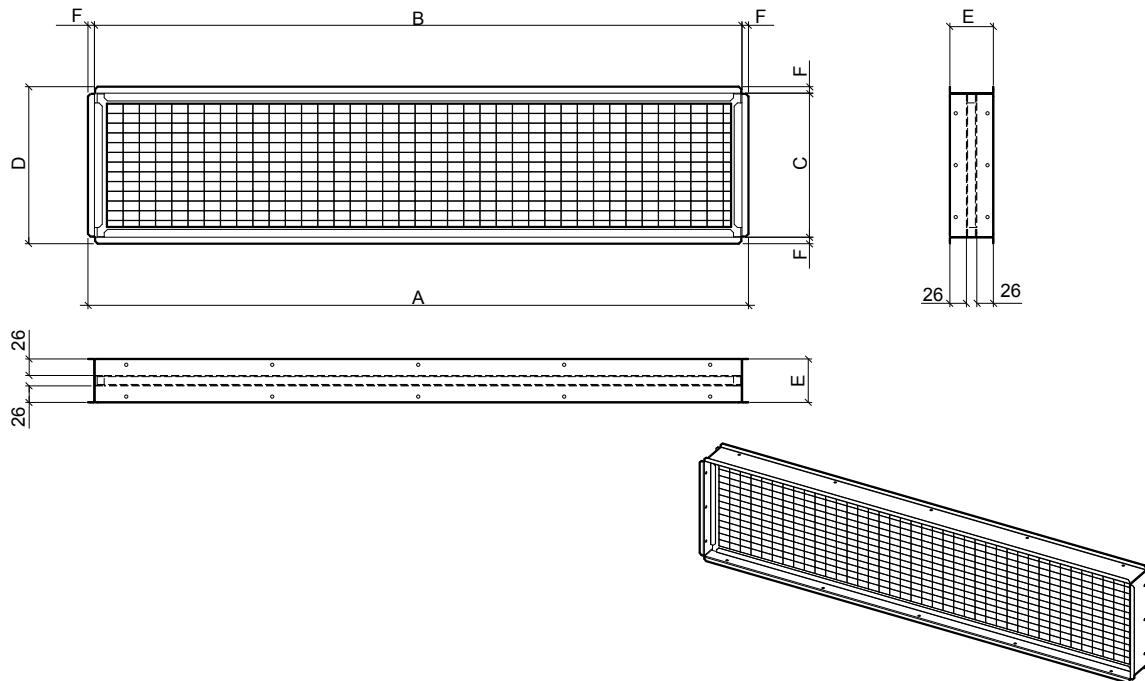
GENERAL DIMENSIONS - 4 PIPES SYSTEM



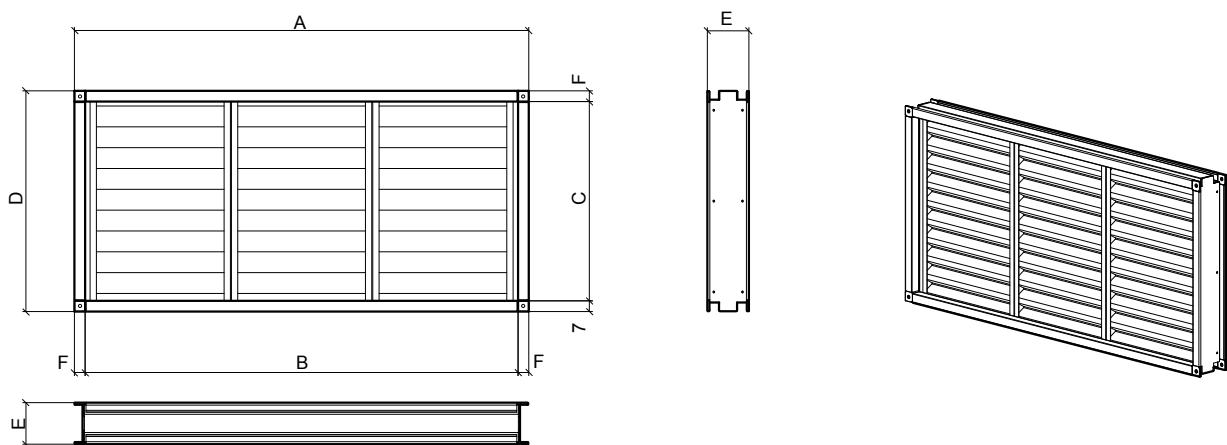
| | HH | 10 | 20 | 30 | 40 | 50 | 60 | 70 |
|-----------------------|------------------------------------|----------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Fans motor number | nr | 1-1 | 2-1 | 2-1 | 2-1 | 2-1 | 1-1 | 2-2 |
| Coil used for cooling | Rows number | nr | | 3 | | | | 4 |
| | Finned pack length | mm | 523 | 873 | 973 | 1213 | 1213 | 1213 |
| | Number of pipes per row | nr | | 11 | | 12 | | 26 |
| | Fin spacing | mm | | | | 2 | | |
| | Number of feeding circuits | nr | 3 | 4 | 5 | 6 | 8 | 16 |
| | Shape | mmxmm | | | 25x22 | | | |
| | Finned pack depth | mm | | | 66 | | | 88 |
| | Frontal surface | m ² | 0,144 | 0,240 | 0,292 | 0,364 | 0,425 | 0,788 |
| | Total surface of fins | m ² | 8,128 | 13,567 | 16,495 | 20,564 | 23,991 | 59,407 |
| | Water content | liter | 1,36 | 2,18 | 2,63 | 3,25 | 3,79 | 9,38 |
| | Hydraulic connections (Ø male gas) | Ø | 1/2" | | 3/4" | 1" | 1"1/4 | 1"1/2 |
| Coil used for heating | Rows number | nr | | 1 | | | | 2 |
| | Finned pack length | mm | 523 | 873 | 973 | | 1213 | 1900 |
| | Number of pipes per row | nr | | 11 | | 12 | | 26 |
| | Fin spacing | mm | | | | 2,1 | | |
| | Number of feeding circuits | nr | 1 | | 2 | | 3 | 10 |
| | Shape | mmxmm | | | 25x25 | | | |
| | Finned pack depth | mm | | | | 25 | | |
| | Frontal surface | m ² | 0,144 | 0,240 | 0,292 | 0,364 | 0,425 | 0,788 |
| | Total surface of fins | m ² | 2,709 | 4,522 | 5,498 | 6,855 | 7,997 | 29,704 |
| | Water content | liter | 0,45 | 0,73 | 0,88 | 1,08 | 1,26 | 4,69 |
| | Hydraulic connections (Ø male gas) | Ø | | 1/2" | | 3/4" | 1" | 1"1/4 |
| Unit general features | A | mm | 738 | 1088 | 1188 | 1428 | 1428 | 1481 |
| | B | mm | 548 | 898 | 998 | 1238 | 1238 | 1239 |
| | C | mm | 650 | 1000 | 1100 | 1340 | 1341 | 2028 |
| | D | mm | 300 | | 325 | | 375 | 675 |
| | E | mm | | 232 | | | 275 | 575 |
| | F | mm | 41 | | 65 | | | 75 |
| | G | mm | | | 533 | | | 852 |
| | H | mm | 96 | | 107 | | 133 | 235 |
| | I | mm | | | 100 | | | 200 |
| | L | mm | 75 | | 87 | | 113 | 213 |
| | M | mm | | | 140 | | | 240 |
| | N | mm | | | 35 | | | 42 |
| | O | mm | | | 95 | | | 114 |
| | P | mm | | 35 | | 32 | | 43 |
| | Q | mm | | | 40 | | | 65 |
| | Net weight | kg | 30 | 38 | 44 | 49 | 61 | 130 |
| | | | | | | | | 210 |

SFA (AIR FILTER SECTION)

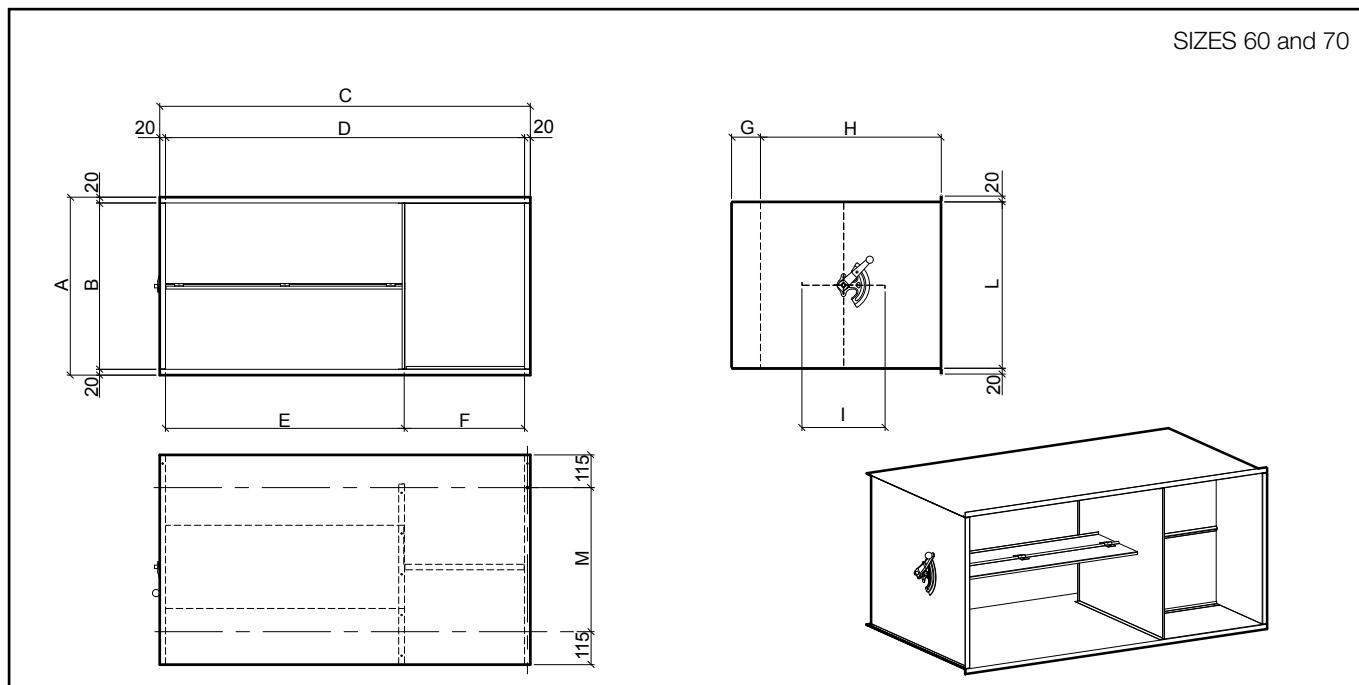
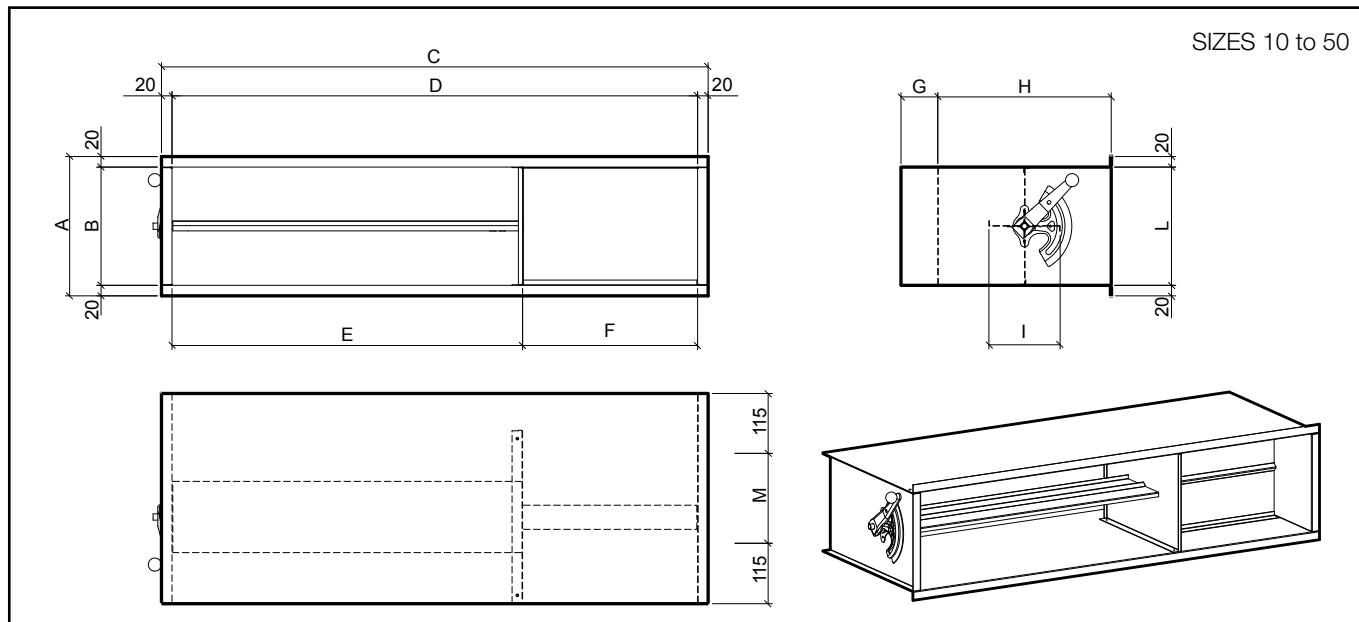
SIZES 10 to 50



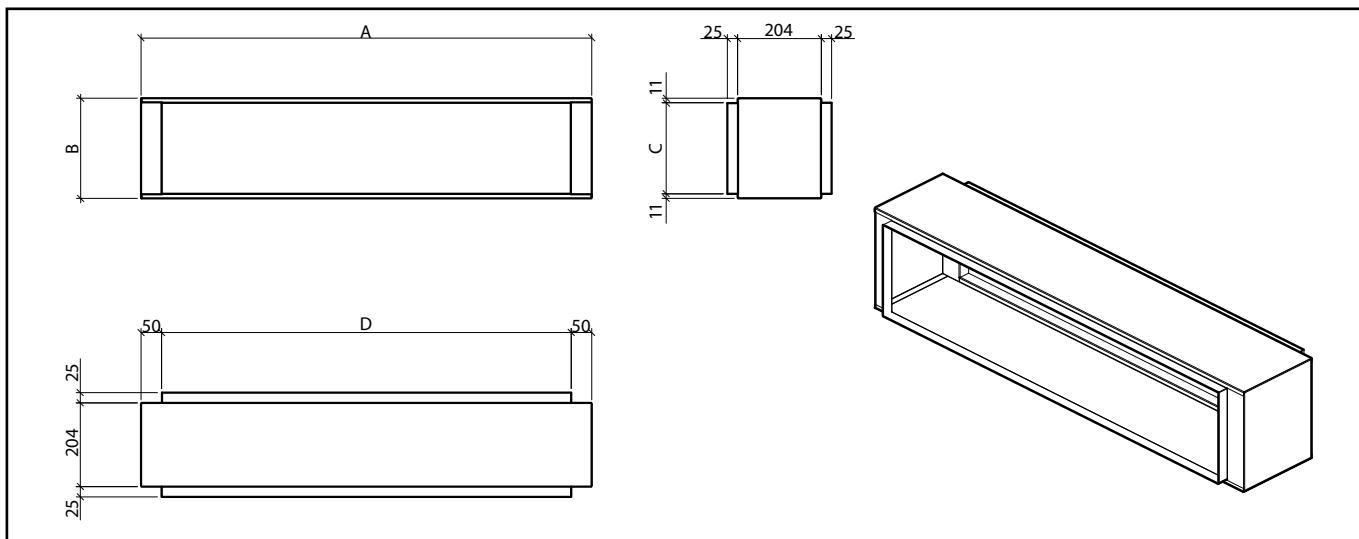
SIZES 60 and 70



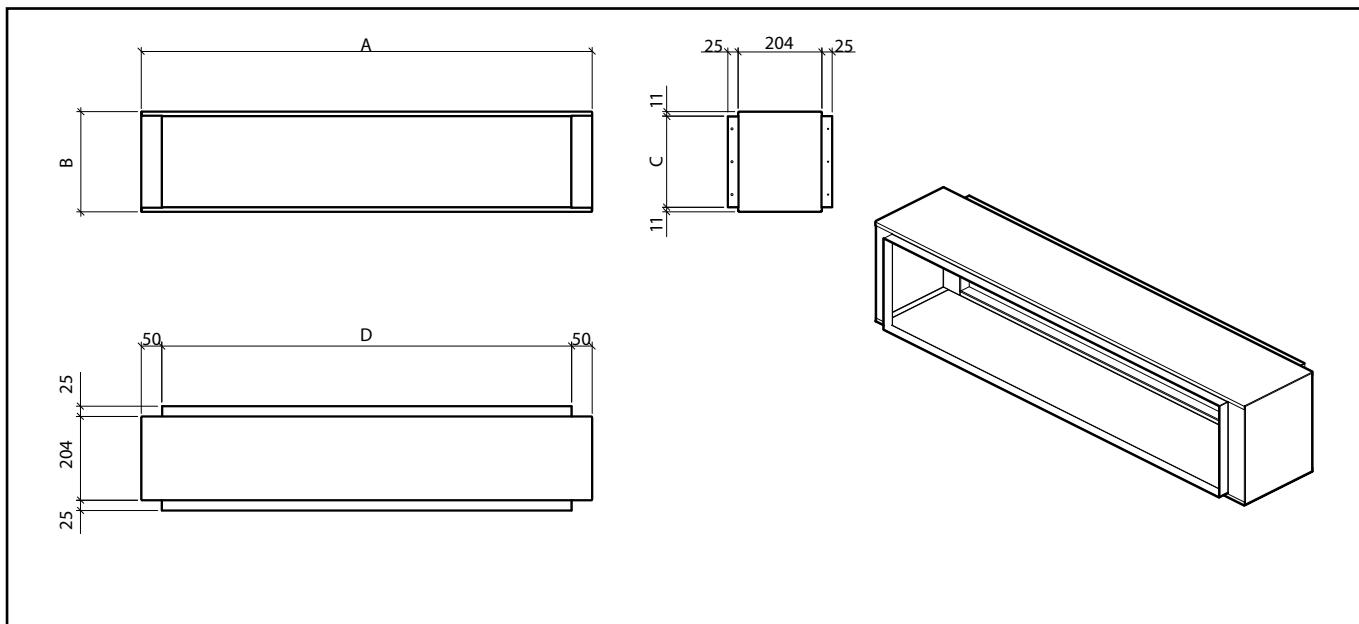
| COMFAIR | HH | 10 | 20 | 30 | 40 | 50 | 60 | 70 |
|---------|----|-----|-----|------|------|------|------|------|
| A | mm | 566 | 918 | 1018 | 1258 | 1258 | 1290 | 1985 |
| B | mm | 546 | 898 | 998 | 1238 | 1238 | 1230 | 1924 |
| C | mm | 195 | 195 | 222 | 222 | 272 | 568 | 568 |
| D | mm | 215 | 215 | 242 | 242 | 292 | 625 | 625 |
| E | mm | 67 | 67 | 67 | 67 | 67 | 118 | 118 |
| F | mm | 10 | 10 | 10 | 10 | 10 | 31 | 31 |

SSP (SECTION WITH FRESH AIR LOUVER - MANUAL)

| COMFAIR | HH | 10 | 20 | 30 | 40 | 50 | 60 | 70 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| A | mm | 240 | 240 | 265 | 265 | 310 | 615 | 725 |
| B | mm | 200 | 200 | 225 | 225 | 270 | 575 | 575 |
| C | mm | 590 | 940 | 1040 | 1280 | 1280 | 1280 | 1969 |
| D | mm | 550 | 900 | 1000 | 1240 | 1240 | 1240 | 1929 |
| E | mm | 365 | 600 | 665 | 825 | 825 | 825 | 642 |
| F | mm | 185 | 300 | 335 | 415 | 415 | 415 | 1286 |
| G | mm | 70 | 70 | 70 | 70 | 70 | 100 | 100 |
| H | mm | 330 | 330 | 330 | 330 | 330 | 625 | 625 |
| I | mm | 136 | 136 | 136 | 136 | 136 | 288 | 288 |
| L | mm | 200 | 200 | 225 | 225 | 275 | 575 | 575 |
| M | mm | 170 | 170 | 170 | 170 | 170 | 498 | 498 |

PAM (STRAIGHT PLENUM: INTAKE)

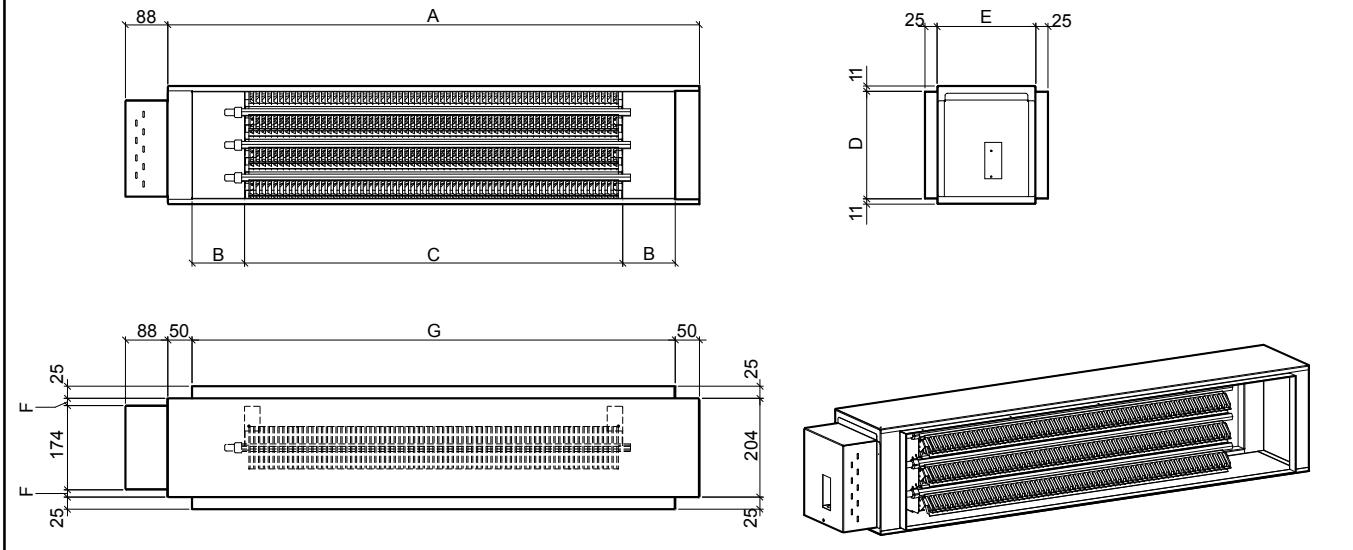
| COMFAIR | HH | 10 | 20 | 30 | 40 | 50 | 60 | 70 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| A | mm | 648 | 998 | 1098 | 1338 | 1338 | 1342 | 2026 |
| B | mm | 219 | 219 | 244 | 244 | 294 | 595 | 595 |
| C | mm | 197 | 197 | 222 | 222 | 272 | 572 | 572 |
| D | mm | 548 | 898 | 998 | 1238 | 1238 | 1242 | 1926 |

PAM (STRAIGHT PLENUM: SUPPLY)

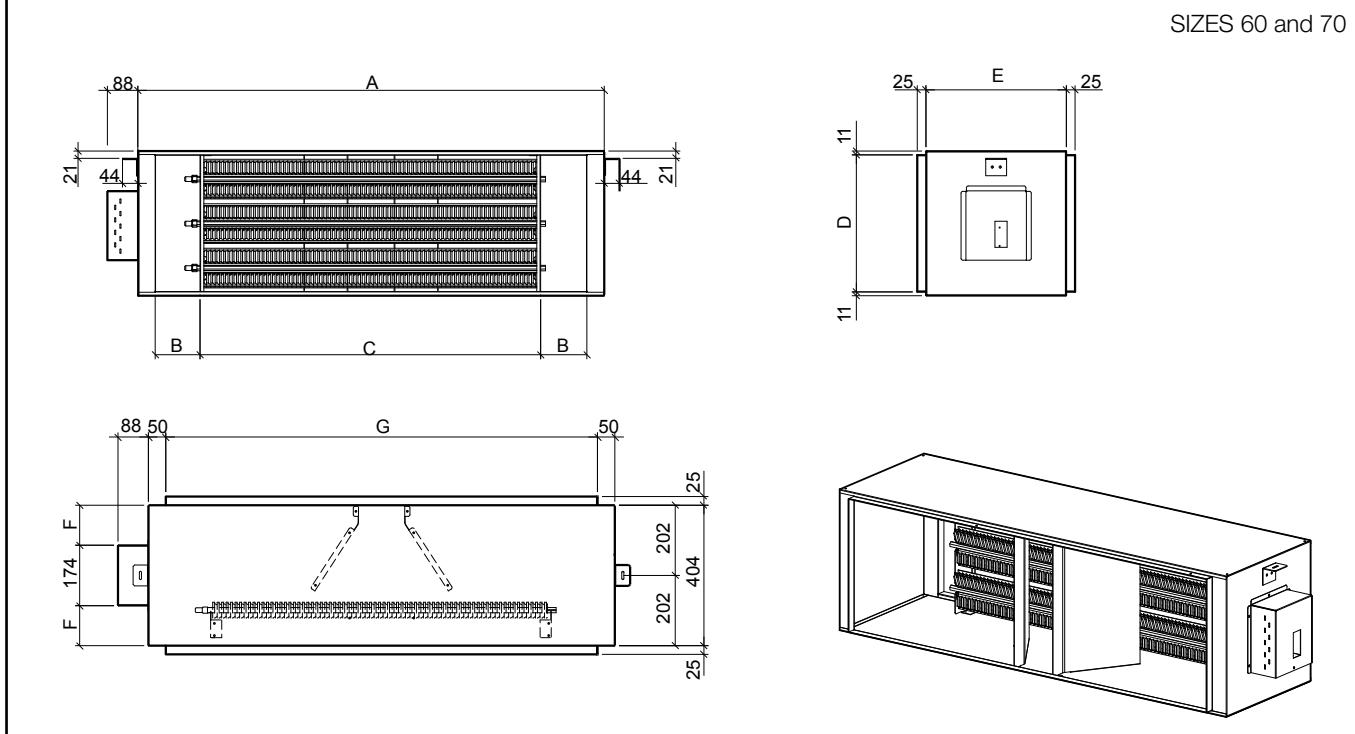
| COMFAIR | HH | 10 | 20 | 30 | 40 | 50 | 60 | 70 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| A | mm | 648 | 998 | 1098 | 1338 | 1338 | 1342 | 2026 |
| B | mm | 219 | 219 | 244 | 244 | 294 | 416 | 416 |
| C | mm | 197 | 197 | 222 | 222 | 272 | 394 | 394 |
| D | mm | 548 | 898 | 998 | 1238 | 1238 | 1242 | 1926 |

SRE (HEATING SECTION WITH ELECTRIC HEATER - 380V)

SIZES 10 to 50



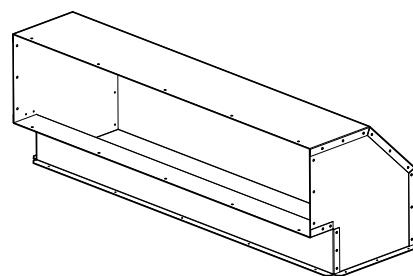
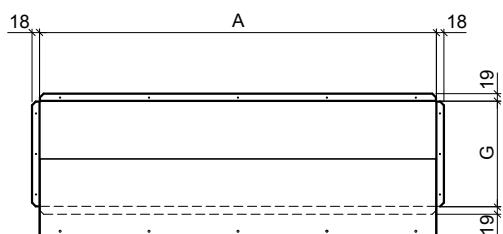
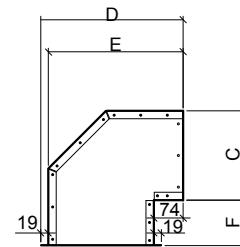
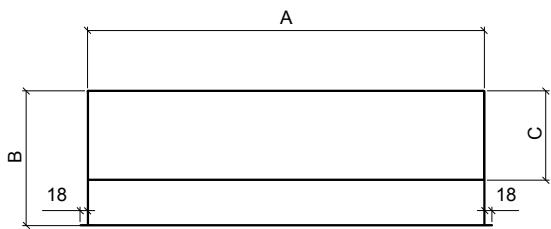
SIZES 60 and 70



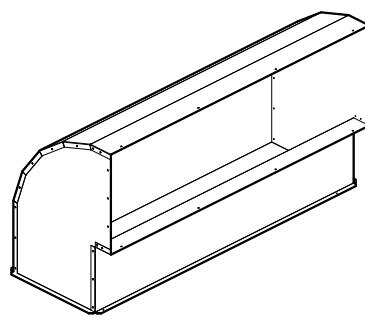
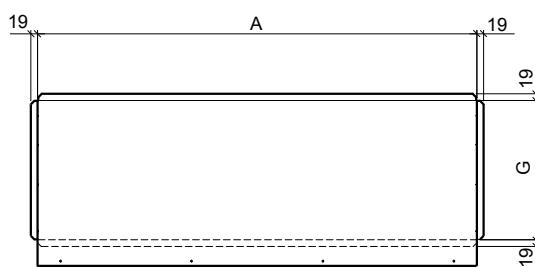
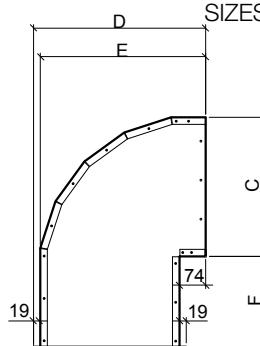
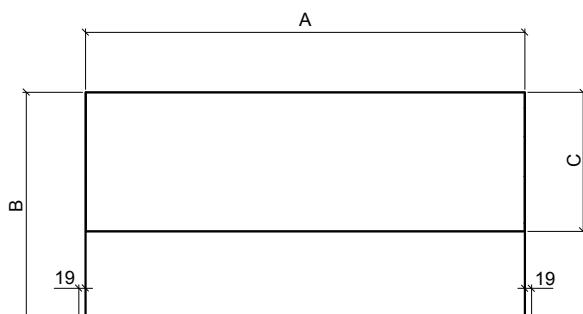
| COMFAIR | HH | 10 | 20 | 30 | 40 | 50 | 60 | 70 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| A | mm | 648 | 998 | 1098 | 1338 | 1338 | 1342 | 2029 |
| B | mm | 84 | 159 | 109 | 128 | 128 | 131 | * |
| C | mm | 380 | 580 | 780 | 980 | 980 | 980 | 1929 |
| D | mm | 197 | 197 | 222 | 222 | 272 | 394 | 394 |
| E | mm | 204 | 204 | 204 | 204 | 204 | 404 | 404 |
| F | mm | 15 | 15 | 15 | 15 | 15 | 115 | 115 |
| G | mm | 548 | 898 | 998 | 1238 | 1238 | 1242 | 1929 |

RAM (90° PLENUM: SUPPLY)

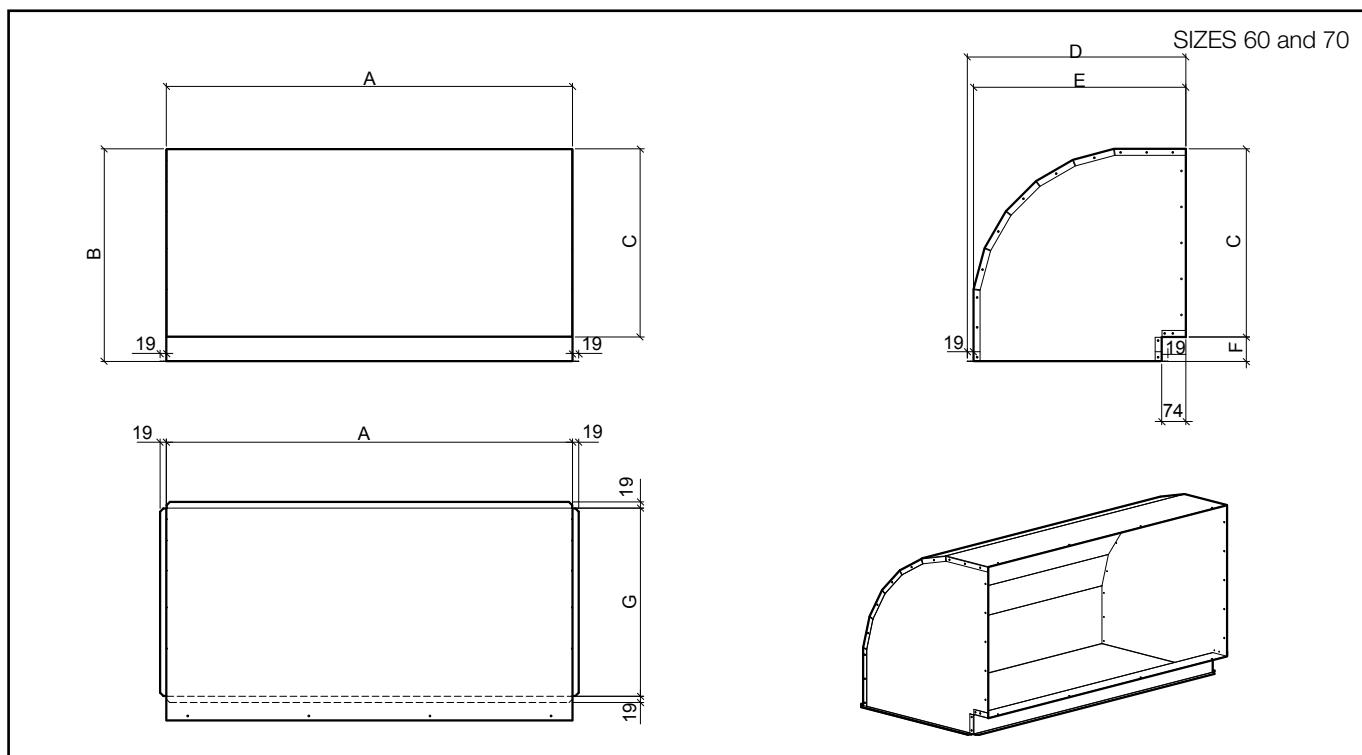
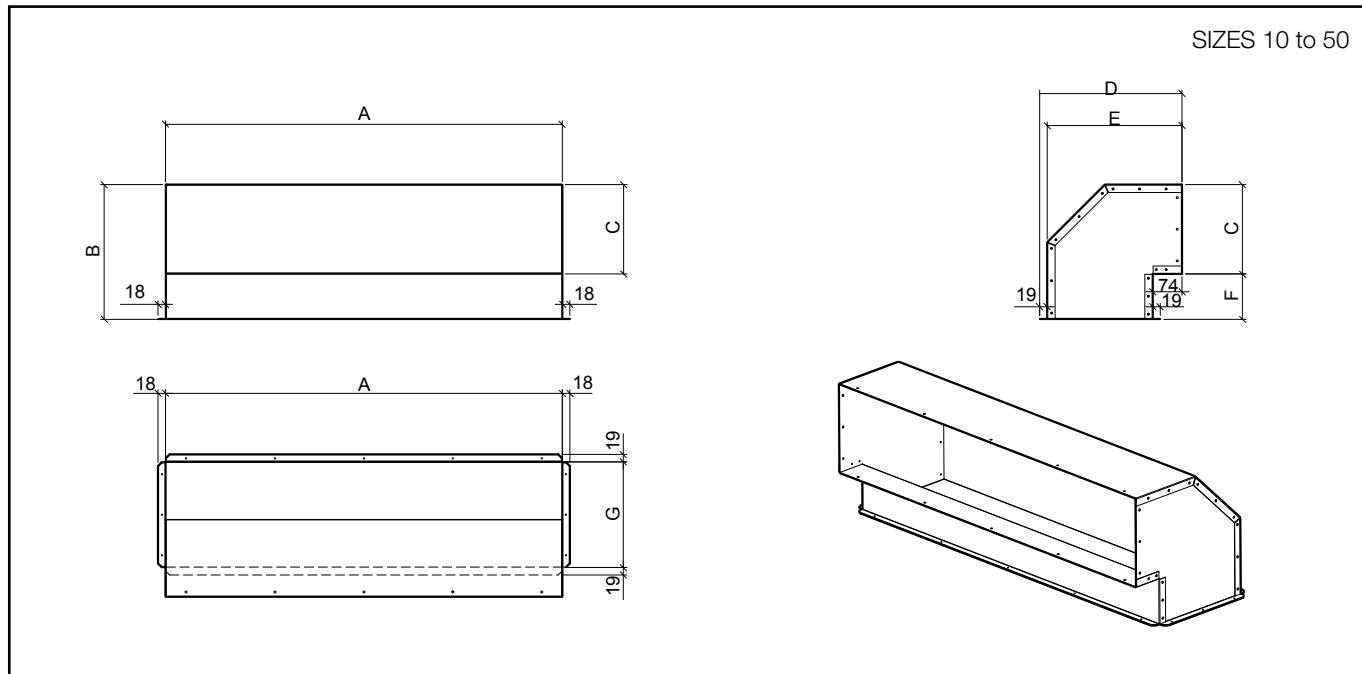
SIZES 10 to 50



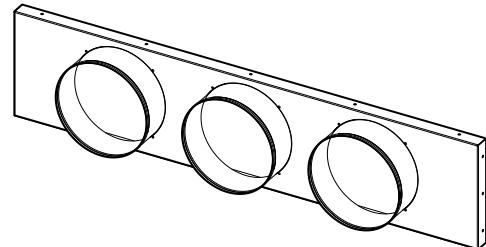
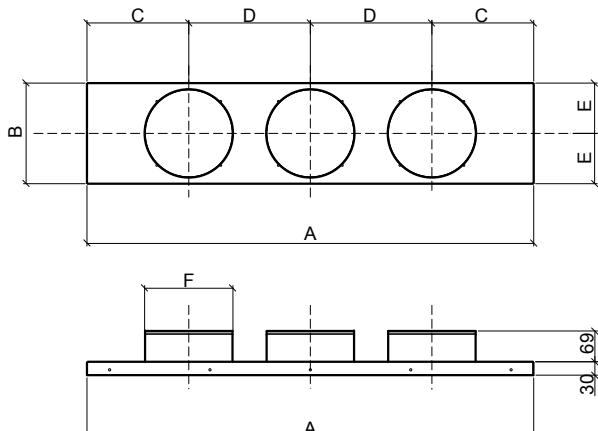
SIZES 60 and 70



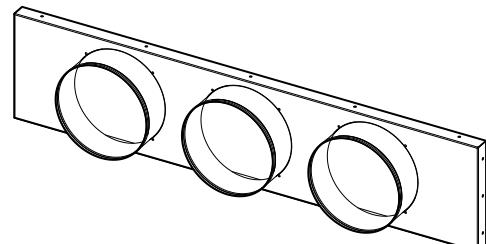
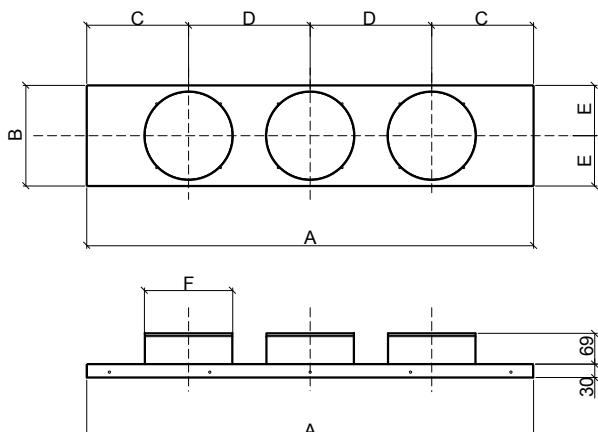
| COMFAIR | HH | 10 | 20 | 30 | 40 | 50 | 60 | 70 |
|---------|----|-----|-----|------|------|------|------|------|
| A | mm | 552 | 902 | 1002 | 1242 | 1242 | 1242 | 1932 |
| B | mm | 315 | 315 | 340 | 340 | 390 | 650 | 650 |
| C | mm | 200 | 200 | 225 | 225 | 275 | 395 | 395 |
| D | mm | 360 | 360 | 360 | 360 | 360 | 490 | 670 |
| E | mm | 340 | 340 | 340 | 340 | 340 | 470 | 650 |
| F | mm | 115 | 115 | 115 | 115 | 115 | 255 | 255 |
| G | mm | 265 | 265 | 265 | 265 | 265 | 395 | 575 |

RAM (90° PLENUM: INTAKE)

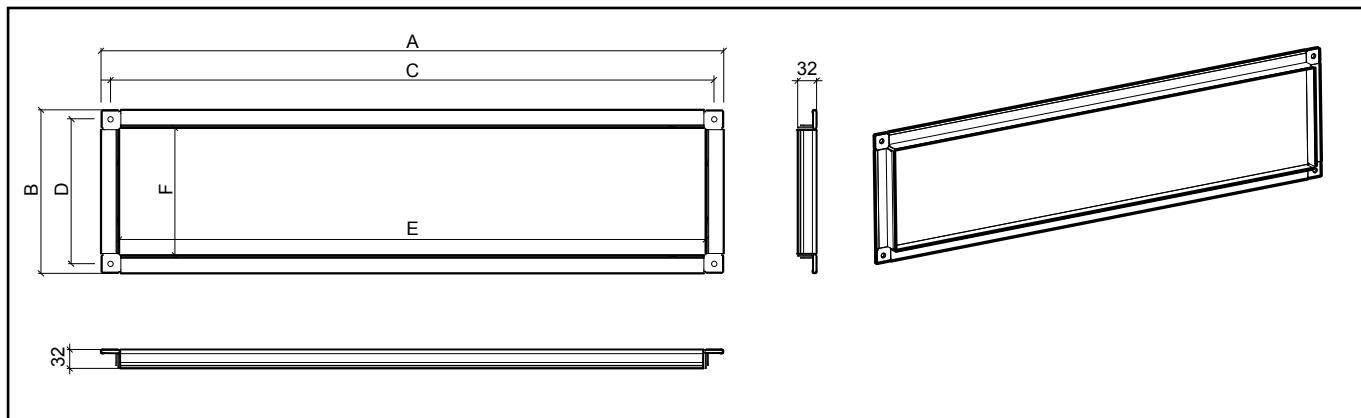
| COMFAIR | HH | 10 | 20 | 30 | 40 | 50 | 60 | 70 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| A | mm | 552 | 902 | 1002 | 1242 | 1242 | 1245 | 1932 |
| B | mm | 315 | 315 | 340 | 340 | 390 | 650 | 650 |
| C | mm | 200 | 200 | 225 | 225 | 275 | 575 | 575 |
| D | mm | 360 | 360 | 360 | 360 | 360 | 670 | 670 |
| E | mm | 340 | 340 | 340 | 340 | 340 | 650 | 650 |
| F | mm | 115 | 115 | 115 | 115 | 115 | 75 | 75 |
| G | mm | 265 | 265 | 265 | 265 | 265 | 575 | 575 |

BAM (STRAIGHT: SUPPLY)

| COMFAIR | HH | 10 | 20 | 30 | 40 | 50 | 60 | 70 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| A | mm | 550 | 900 | 1000 | 1240 | 1245 | 1245 | 1935 |
| B | mm | 200 | 200 | 226 | 226 | 276 | 416 | 416 |
| C | mm | 135 | 181 | 227 | 170 | 135 | 322,5 | 244,5 |
| D | mm | 280 | 270 | 272 | 300 | 325 | 600 | 482 |
| E | mm | 100 | 100 | 113 | 113 | 138 | 208 | 208 |
| F | mm | 2xØ200 | 3xØ200 | 3xØ200 | 4xØ200 | 4xØ200 | 2xØ400 | 4xØ400 |

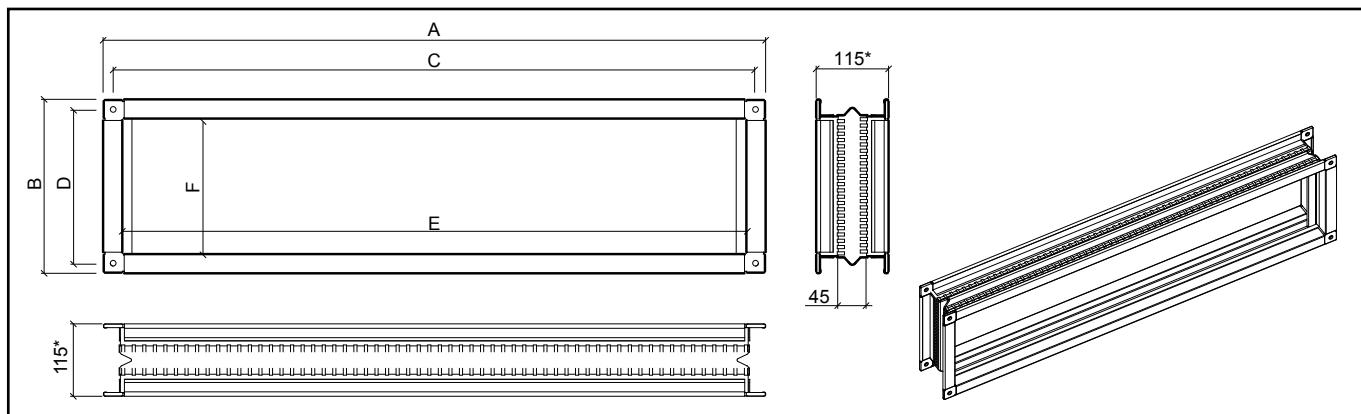
BAM (STRAIGHT: INTAKE)

| COMFAIR | HH | 10 | 20 | 30 | 40 | 50 | 60 | 70 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| A | mm | 550 | 900 | 1000 | 1240 | 1245 | 1245 | 1935 |
| B | mm | 200 | 200 | 226 | 226 | 276 | 576 | 576 |
| C | mm | 135 | 181 | 227 | 170 | 135 | 320 | 242 |
| D | mm | 280 | 270 | 272 | 300 | 325 | 600 | 482 |
| E | mm | 100 | 100 | 113 | 113 | 138 | 288 | 288 |
| F | mm | 2xØ200 | 3xØ200 | 3xØ200 | 4xØ200 | 4xØ200 | 2xØ400 | 4xØ400 |

FAM (CONNECTION FLANGE)**INTAKE****SUPPLY**

| COMFAIR | HH | 10 | 20 | 30 | 40 | 50 | 60 | 70 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| A | mm | 600 | 952 | 1052 | 1292 | 1292 | 1290 | 1985 |
| B | mm | 249 | 249 | 276 | 276 | 326 | 625 | 625 |
| C | mm | 570 | 922 | 1022 | 1262 | 1262 | 1260 | 1260 |
| D | mm | 219 | 219 | 246 | 246 | 296 | 595 | 595 |
| E | mm | 539 | 891 | 991 | 1231 | 1231 | 1230 | 1926 |
| F | mm | 188 | 188 | 215 | 215 | 265 | 565 | 565 |

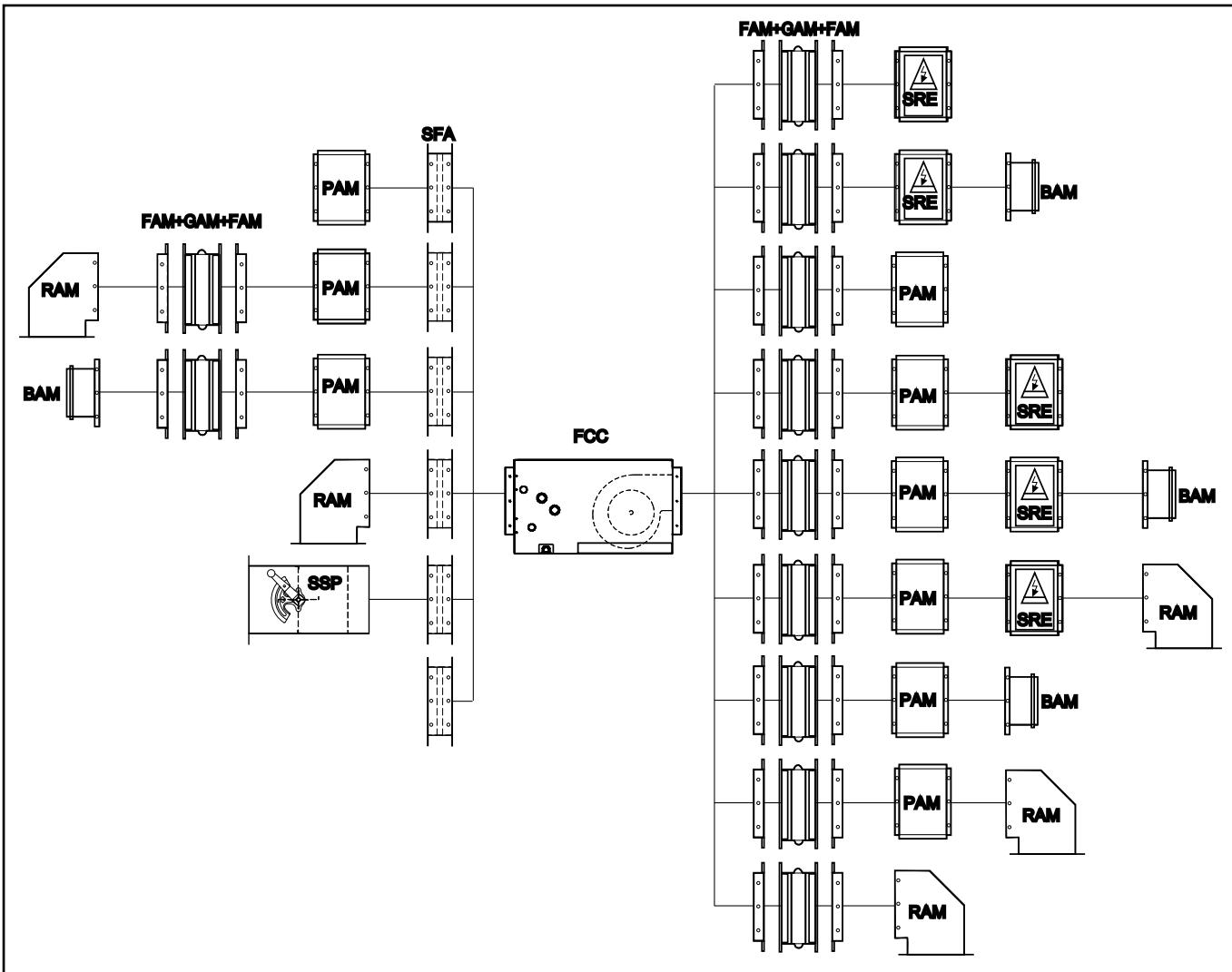
| COMFAIR | HH | 10 | 20 | 30 | 40 | 50 | 60 | 70 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| A | mm | 600 | 952 | 1052 | 1292 | 1292 | 1290 | 1985 |
| B | mm | 249 | 249 | 276 | 276 | 326 | 445 | 445 |
| C | mm | 570 | 922 | 1022 | 1262 | 1262 | 1260 | 1260 |
| D | mm | 219 | 219 | 246 | 246 | 296 | 415 | 415 |
| E | mm | 539 | 891 | 991 | 1231 | 1231 | 1230 | 1926 |
| F | mm | 188 | 188 | 215 | 215 | 265 | 385 | 385 |

GAM (ANTI-VIBRATING JOING)**INTAKE****SUPPLY**

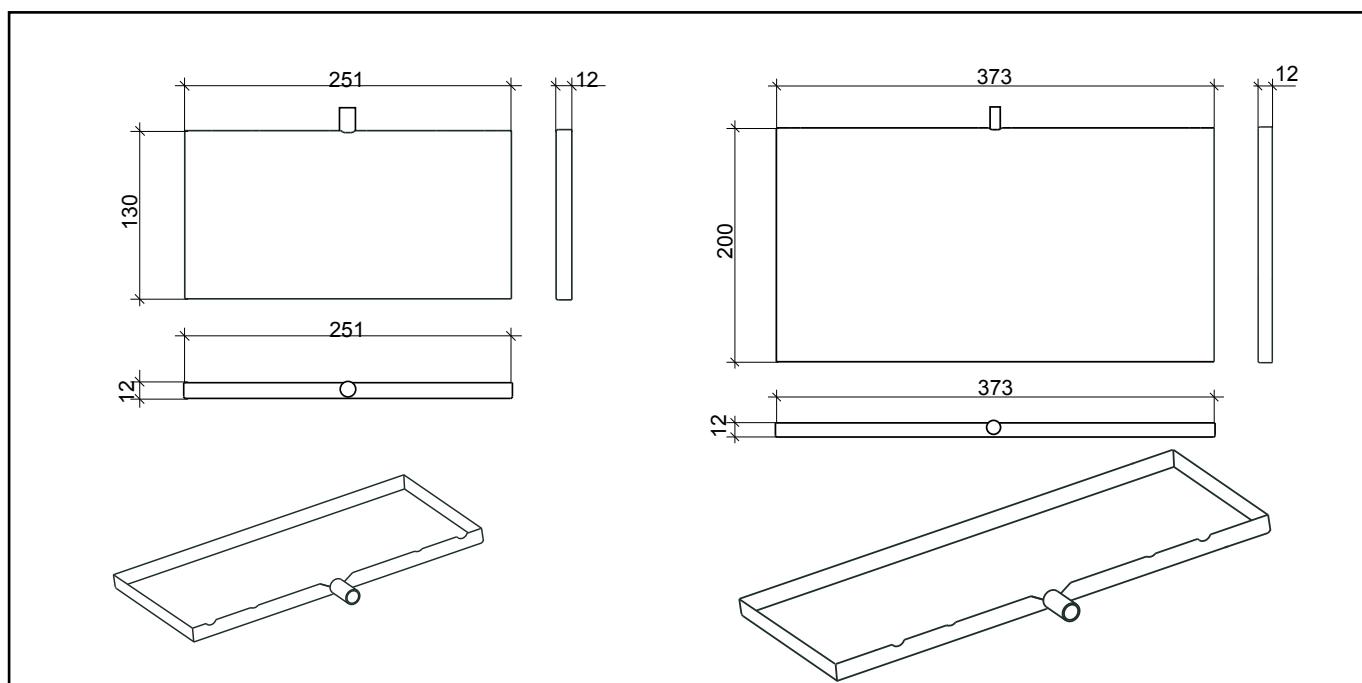
| COMFAIR | HH | 10 | 20 | 30 | 40 | 50 | 60 | 70 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| A | mm | 600 | 952 | 1052 | 1292 | 1292 | 1290 | 1985 |
| B | mm | 249 | 249 | 276 | 276 | 326 | 625 | 625 |
| C | mm | 570 | 922 | 1022 | 1262 | 1262 | 1260 | 1260 |
| D | mm | 219 | 219 | 246 | 246 | 296 | 595 | 595 |
| E | mm | 539 | 891 | 991 | 1231 | 1231 | 1230 | 1926 |
| F | mm | 188 | 188 | 215 | 215 | 265 | 565 | 565 |

| COMFAIR | HH | 10 | 20 | 30 | 40 | 50 | 60 | 70 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| A | mm | 600 | 952 | 1052 | 1292 | 1292 | 1290 | 1985 |
| B | mm | 249 | 249 | 276 | 276 | 326 | 445 | 445 |
| C | mm | 570 | 922 | 1022 | 1262 | 1262 | 1260 | 1260 |
| D | mm | 219 | 219 | 246 | 246 | 296 | 415 | 415 |
| E | mm | 539 | 891 | 991 | 1231 | 1231 | 1230 | 1926 |
| F | mm | 188 | 188 | 215 | 215 | 265 | 385 | 385 |

EXAMPLE OF ACCESSORIES



AUXILIARY DRAIN PAN



CONDENSATE DRAIN PUMP**HH 10 - 50**

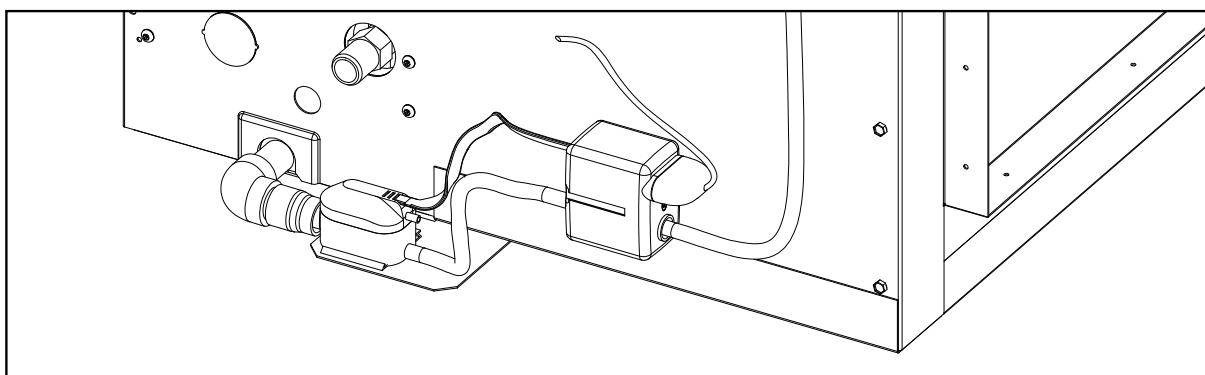
This pump is used to eliminate the condensation that collects in the tray in installations where there is no self-emptying outlet. The pump comes with filter to withhold impurities, float with activation contact, suction pipe, pump body complete with control electronics and overheating protection, wiring.

PUMP

Alarm contact normally closed that automatically cuts off the air conditioning system compressor or valve, thermal protection 90° on the pump coil, electrical connection by plug (delivered with 1 m cable), rubber mounting bracket included, ...

AVANTAGES

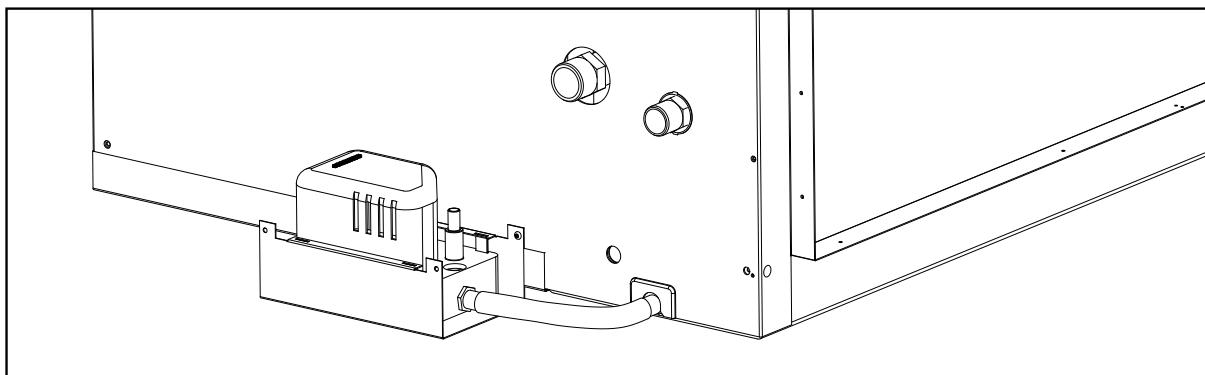
Small size, low noise level.



| | | |
|-----------------------------------|----------|------------------|
| Main supply | V/Hz - W | 230/50 - 18 |
| Max. flow rate | l/h | 20 |
| Max. suction head | m | 2 |
| Max. discharge head | m | 6 |
| Alarm contact | | NC 8 A resistive |
| Thermal protection (overheat) | °C | 90 |
| Sound level at 1 m | dB(A) | <34 |
| Pump dimensions (Lxlxh) | mm | 66 x 44 x 60 |
| Detection unit dimensions (Lxlxh) | mm | 55 x 38 x 32 |
| Weight (including box) | kg | ±0350 |

HH 60 - 70

This pump is used to eliminate the condensation that collects in the tray in installations where there is no self-emptying outlet.



| | | |
|-------------------------------|----------|------------------|
| Main supply | V/Hz - A | 230/50 - 10,8 |
| Max. flow rate | l/h | 150 |
| Max. suction head | m | 5,4 |
| Alarm contact | | NC 4 A resistive |
| Thermal protection (overheat) | °C | 110 |
| Sound level | dB(A) | <34 |
| Pump dimensions | mm | 195 x 130 x 122 |

HIGH WALL FAN COIL UNITS - HD

Comfair HD fan coil units are similar in design and use to the widely used DX high-wall mini-split systems. With a maximum width of only 210mm, the casing is manufactured from high quality plastic and is of an aesthetically pleasing design to compliment almost every environment.

**«A BREATH OF FRESH AIR»**

The fan is of a Tangential type running at low speed to guarantee low noise levels. The concept of air discharge from the unit allows efficient distribution of the treated air for maximum comfort, and simplicity of use. HD units are equipped with a system of automatic horizontal air deflection through an arc of 35° in cooling operation (10° in heating operation), which avoids stratification of the airstreams. When the unit stops, the deflector blades close automatically, which serves not only to protect the internal components against dust but also preserves the neat aesthetic appearance of the unit.

**FILTRATION AND AIR QUALITY**

The Comfair HD units not only control the temperature of the air but also the air quality in the conditioned space. Each unit is fitted with a filter and an Ioniser which produces negatively charged ions which attracts the positively charged dust particles and neutralises harmful microbes present in the atmosphere. The Ioniser comprises of a small generator, which transmits an intermittent high voltage to carbon fibres situated in the airstream.

COILS

Each unit contains a chilled and hot water coil manufactured from copper tubes with aluminium fins. Water connections are female gas ½» and each coil is fitted with an air vent. A water temperature sensor prevents low temperature discharge.

REMOTE CONTROLLER

The infra-red remote controller offers the same functions as a DX split system. It includes an LCD display which indicates the status and set points of the unit. Sixteen buttons allow fast and easy control of the operation of all functions of the unit.



All data are at Eurovent conditions.
<http://www.eurovent-certification.com/>

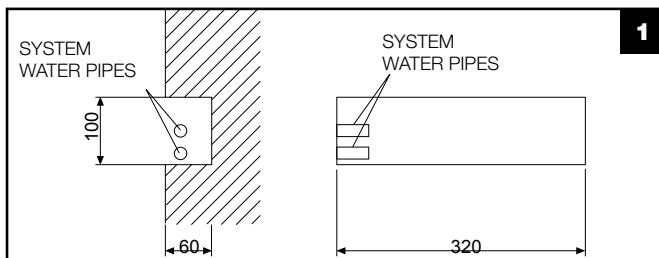
PROGRAM: FC-2-H

| COMFAIR | | HD | 1 | 2 | 3 |
|---------------------------------|---------|-----------|----------|----------|----------|
| Sensible cooling capacity | kW | Min | 1,2 | 1,55 | 2,89 |
| | | Med | 1,45 | 1,7 | 3,32 |
| | | Max | 1,7 | 1,99 | 3,44 |
| Total cooling capacity | kW | Min | 1,45 | 1,87 | 3,71 |
| | | Med | 1,73 | 2 | 4,2 |
| | | Max | 2,04 | 2,46 | 4,42 |
| Heating capacity | kW | Min | 1,81 | 2,21 | 4,51 |
| | | Med | 2,22 | 2,42 | 5,24 |
| | | Max | 2,59 | 3,32 | 5,64 |
| Water pressure drops in cooling | kPa | Min | 9,1 | 16 | 48,1 |
| | | Med | 13 | 18 | 61,4 |
| | | Max | 18 | 20 | 68,1 |
| Water pressure drops in heating | kPa | Min | 8,4 | 14 | 42,2 |
| | | Med | 12 | 16 | 54 |
| | | Max | 16,7 | 17 | 59,8 |
| Fan electrical power | kW | Min | 0,02 | 0,02 | 0,05 |
| | | Med | 0,03 | 0,03 | 0,05 |
| | | Max | 0,03 | 0,03 | 0,06 |
| Voltage | V/Ph/Hz | - | 230/1/50 | | |
| Sound power level | dB(A) | Min | 49 | 46 | 50 |
| | | Med | 52 | 50 | 57 |
| | | Max | 54 | 54 | 61 |

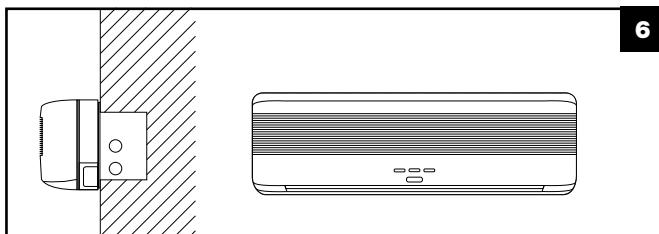
INSTALLATION WITH SIMPLE MOUNTING PLATE

The method of installing the wall-mounted water-filled fan coil of the HD range is shown below. Take into account the following:

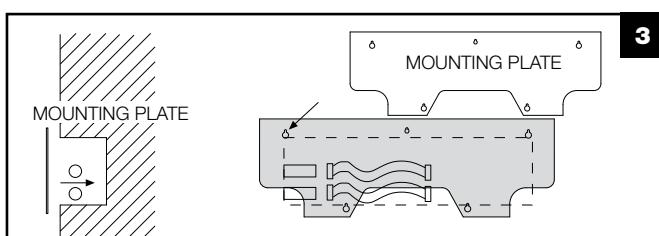
- Looking at the unit from the front, the supply pipes go from right to left.
- The system pipes must come from the left.



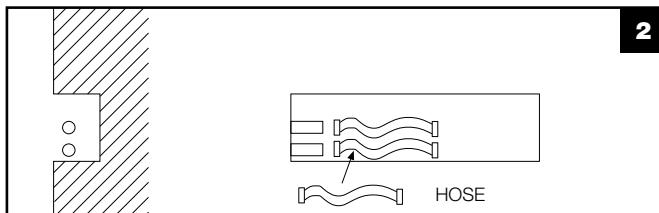
Make sufficient large hole in the wall for the system water pipes to pass through.



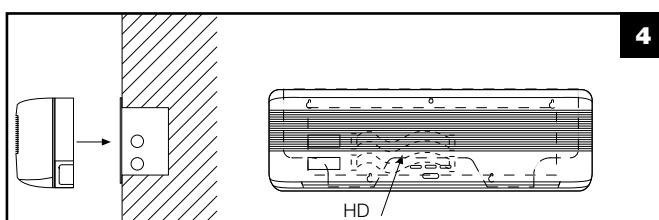
Put the fan coil back to its position of operation



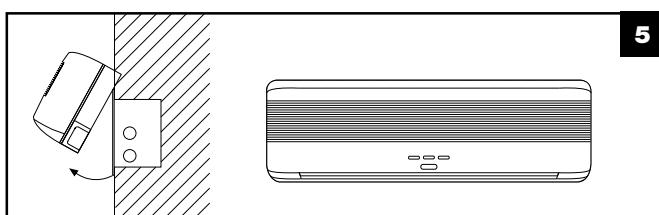
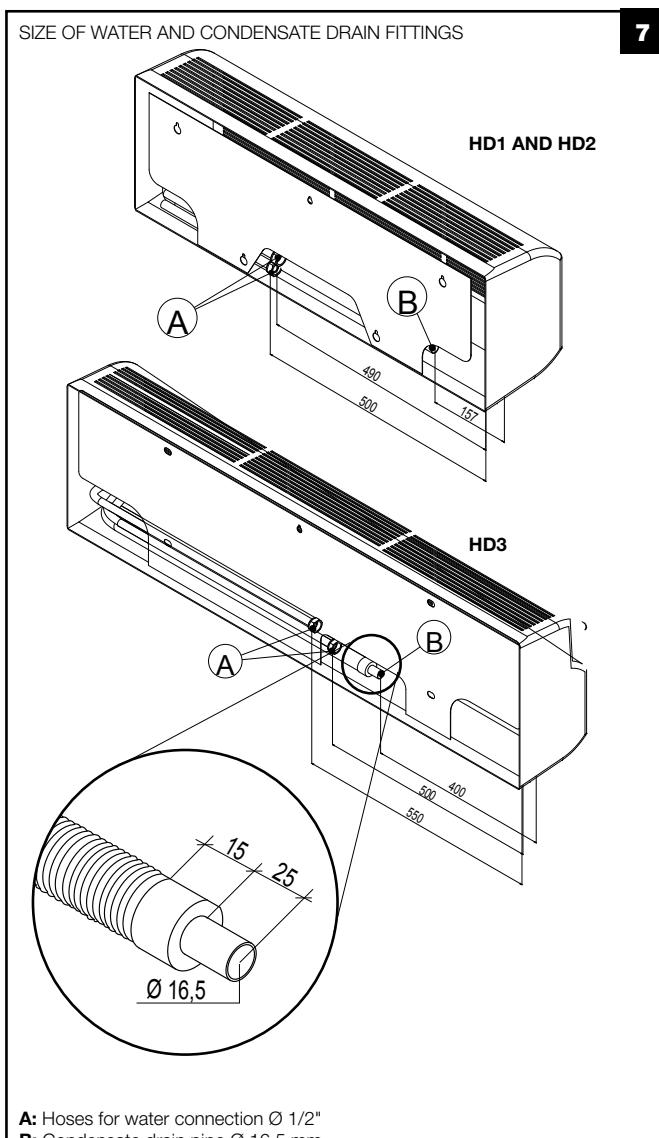
Fix the fan coil mounting plate to the wall.



Take two hoses with 1/2" fitting and connect to the systems pipes. These pipes must be lagged.



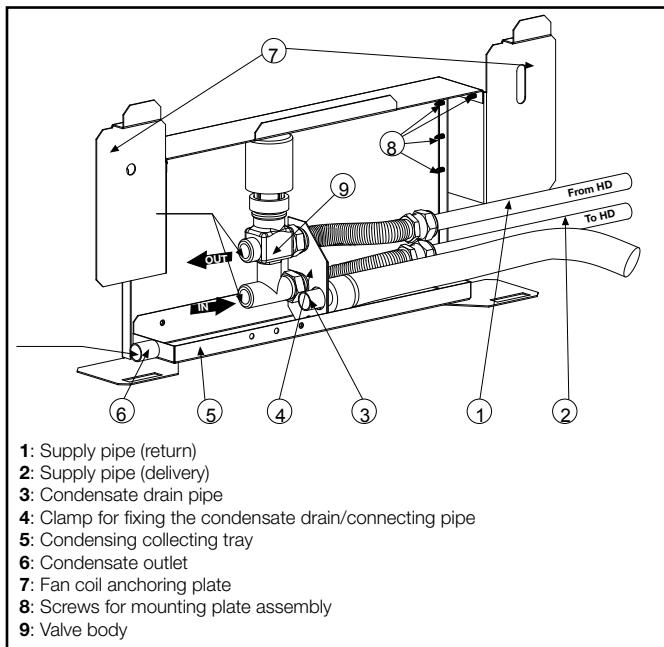
Anchor the fan coil to the mounting plate



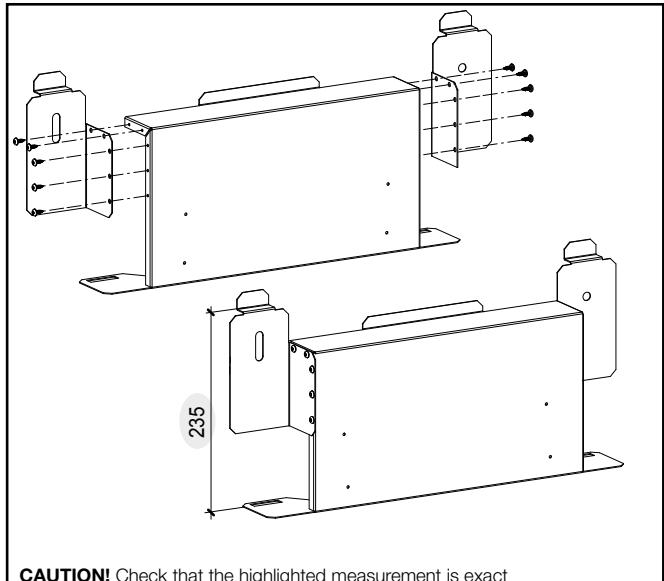
Tilt the fan coil and insert the relative polystyrene foam spacer and then carry out the water connections

INSTALLATION WITH BUILT-IN VALVES

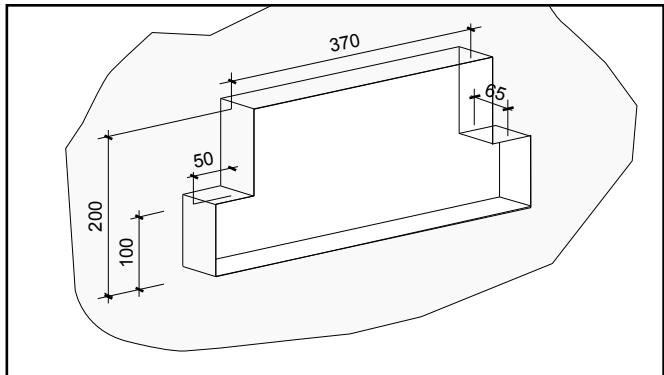
Important! It is recommended that wall-mounted water-filled fan coils are installed with ON/OFF devices.



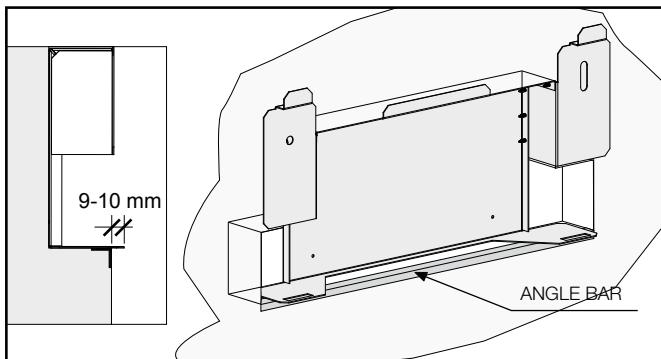
Proceed as shown below to assemble the mounting plate.



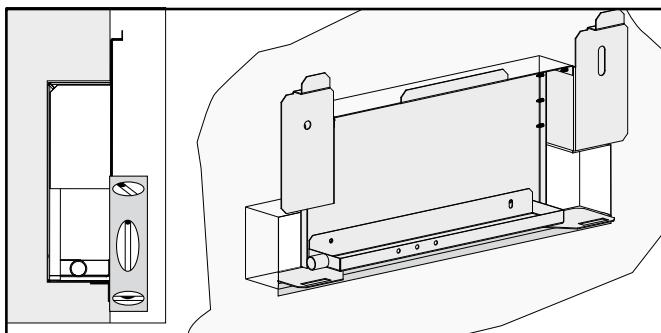
1. Identify the position on the wall where the fan coil is to be installed and create a niche with the dimensions shown below:



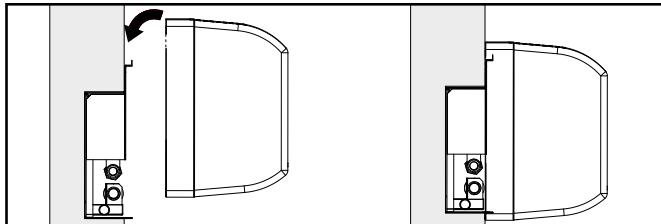
2. Cover the bottom edge of the niche with a steel angle bar (NOT supplied). Apply the mounting plate and fix it using four screws and four screw anchors in the relative holes:



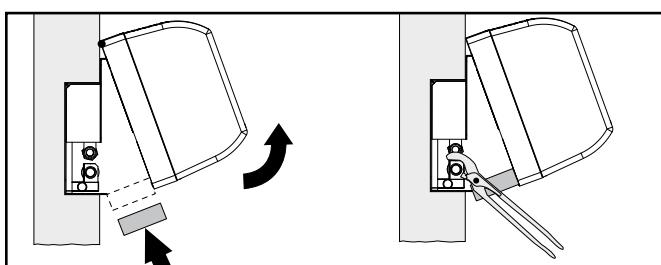
3. Fix the condensate collecting tray by inserting two self-tapping screws into the relative holes. The external surface of the tray must be flush with the wall:



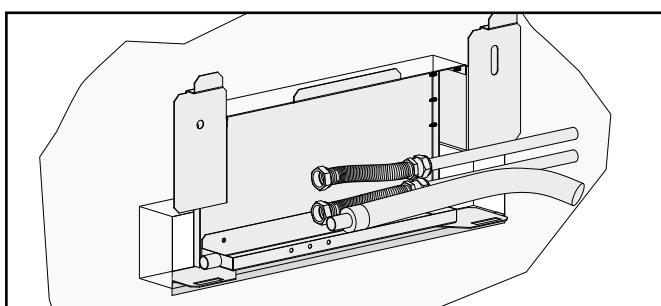
4. Position the fan coil on the mounting plate:



5. Tilt the fan coil and insert the relative polystyrene foam spacer so that the valves can be easily reached and connected to the appliance and to the mains water supply:

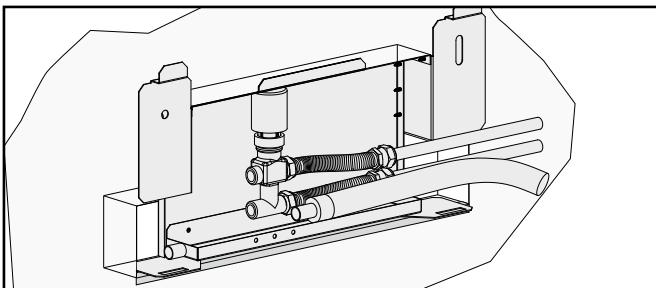


6. Connect the hoses to the fan coil supply pipes and the condensate drain hose:

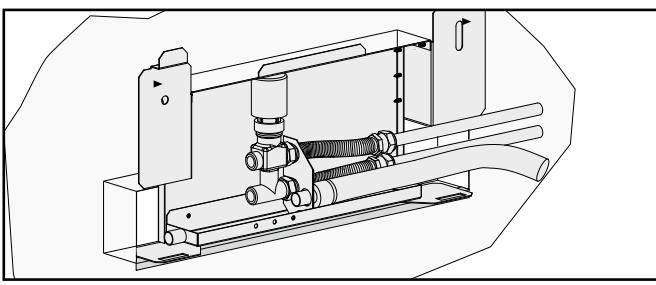


INSTALLATION WITH BUILT-IN VALVES - CONT'D

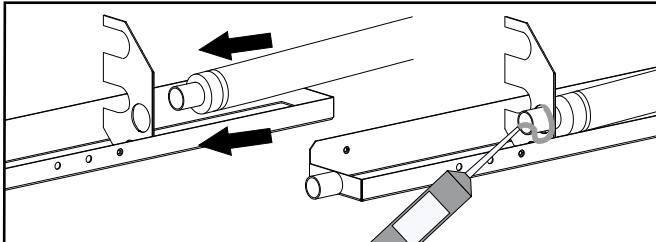
7. Connect the valve to the connecting hoses:



8. Fix the bracket for securing the condensate drain hose and the connecting hoses on the condensate collecting tray:

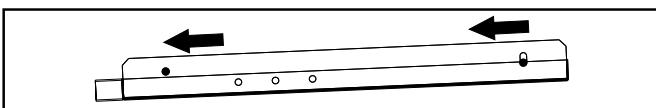


9. Fix the condensate drain hose with silicone:



10. Replace the fan coil in its original position.

CAUTION! The condensate collecting tray must be fixed so that it slopes gently downward towards the condensate drain outlet:



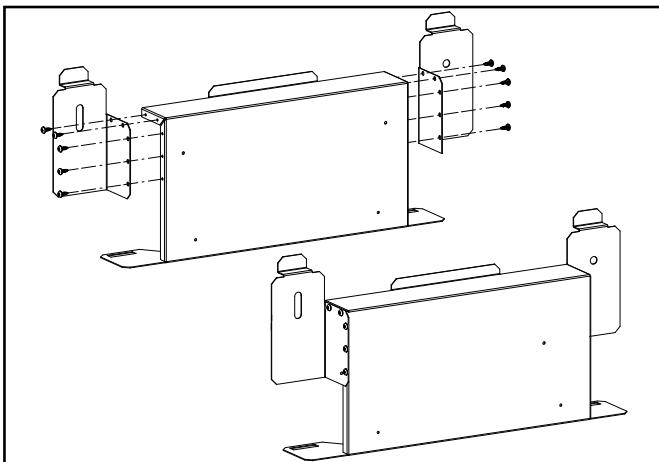
N.B.:

- Do not bend or damage the enclosed mounting plate
- Comply with the highlighted measurements (previous page)
- The base of the enclosed mounting plate must project by 9-10 mm from the wall
- The condensate collecting tray must always be flush with the wall.

INSTALLATION WITH VALVES AND OUTER FRAME

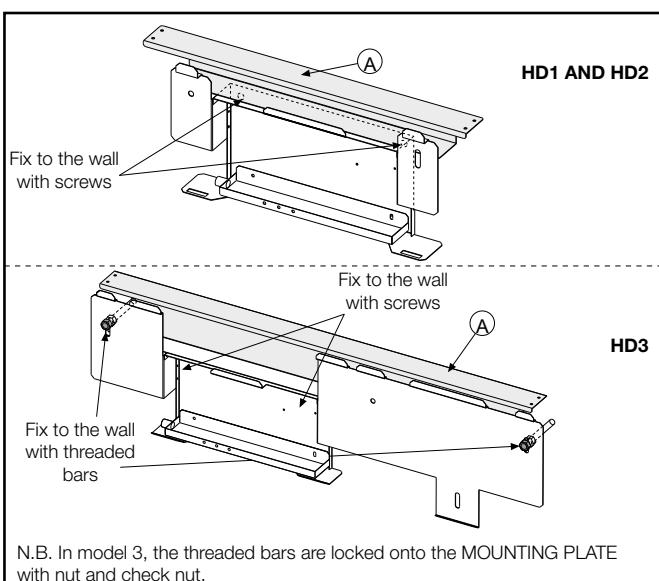
Proceed as shown below to assemble the mounting plate:

IMPORTANT! It is recommended that wall-mounted water-filled fan coils are installed with ON/OFF devices.

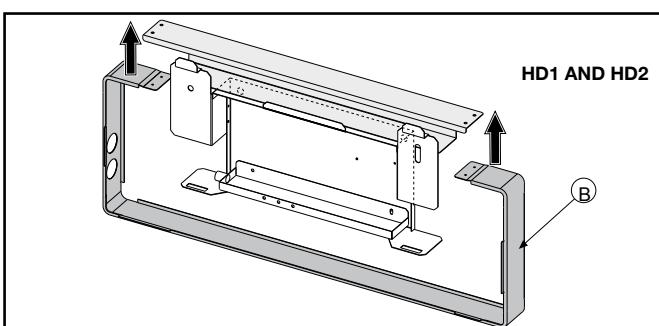


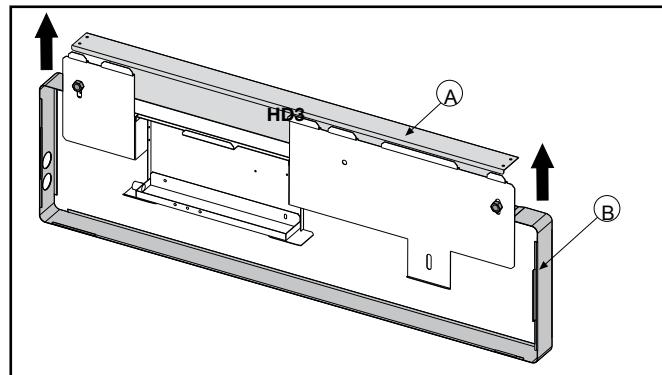
1. Mark the position on the wall where the fan coil is to be installed, then apply the mounting plate and **fix it with two screws and screws anchors in the relative holes**.

2. Position the cross rail of the frame (A) on top of the mounting plate previously fixed to the wall.

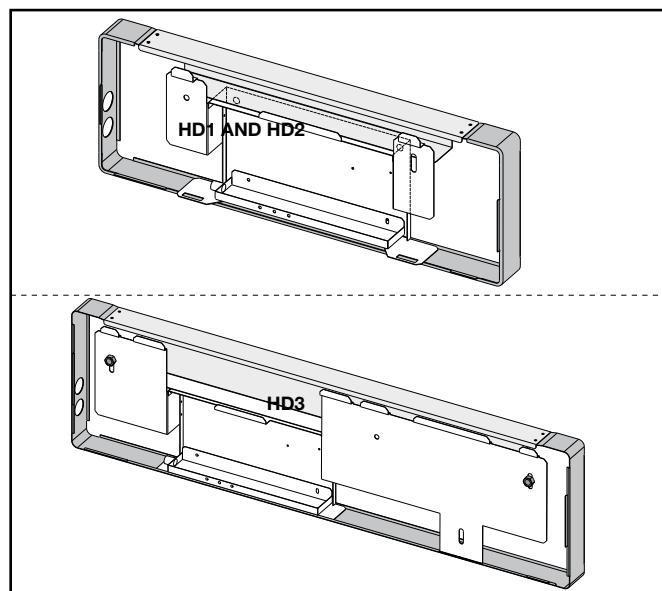


3. Fix the extension (B) to the cross rail with the 4 self-tapping screws provided in the kit:



INSTALLATION WITH VALVES AND OUTER FRAME - CONT'D

4. Final result:



5. Repeat points 4, 5, 6, 7, and 8 of the previous section (Installation with built-in valves)

GENERAL DESCRIPTION

Basic control
Delivered as standard in vertical casing units
On/Off - Heating/Cooling - 3 speeds



TA or TE thermostat
Standard or electronic thermostat
On/Off - Heating/Cooling - 3 speeds
Ambiant temperature knob adjustment



CD2X6
Wall mounted - 3 digits display
On/Off - Heating/Cooling - 3 speeds
Ambiant temperature knob adjustment



RCE 10E
Wall mounted
On/Off - Heating/Cooling - 3 speeds
Ambiant temperature knob adjustment

| | Fitted on the unit | | | | | Wall mounted | |
|-----------------------------------|--------------------|----|----|-------|--------|--------------|--------|
| | Basic | TA | TE | CD2X6 | RCE10E | CD2X6 | RCE10E |
| Characteristics | | | | | | | |
| On/Off | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Manual speed control | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Automatic fan control | | | | ◆ | ◆ | ◆ | ◆ |
| Manual Heating/Cooling control | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Automatic Heating/Cooling control | | | | ◆ | ◆ | ◆ | ◆ |
| Temperature setting knob | | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| External centralised contact | | | | ◆ | ◆ | ◆ | ◆ |
| Windows contact | | | | ◆ | ◆ | ◆ | ◆ |
| Digital display | | | | ◆ | | ◆ | |
| On/Off valve control | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Modulating valve control | | | | ◆ | ◆ | ◆ | ◆ |
| Available for | | | | | | | |
| 2 pipes | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| 2 pipes + electrical heater | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| 4 pipes | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |



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