

FANCOIL
for heating, cooling and climate control



TIVANO

Tivano, maximum comfort and versatility

The new Tivano range consists of fan coils for heating, cooling and climate control. Tivano can be sited almost anywhere, from residential to light-commercial application, thanks to its elegant design and very compact dimensions (high performance from only 150 mm depth!).

Tivano can be matched both with high temperature heat generators, like boilers, and with low temperature ones, like heat pumps. It is therefore compatible with Hydronic Unit, with all condensing boilers and with integrated hybrid systems.

Tivano offers excellent thermal comfort in all seasons. It

heats and cools very quickly and, once the desired temperature is reached, it keeps it with pinpoint accuracy and minimum noise.

The range comes in two product versions: the standard version (Tivano) and the radiant version (Tivano R), that can both be either wall-mounted or horizontally installed under-ceiling, with the addition of specific "tray" kits, available as option. Tivano, featuring a 2-pipe coil, is available in 5 different sizes, and thanks to a wide range of specific optional kits, like valves control devices, feet and other hydraulic accessories, offers a great number of application possibilities.

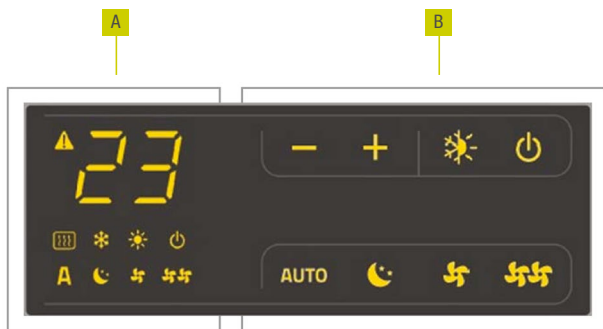


TECHNOLOGY AND MANAGEMENT

Tivano, DC-Inverter Technology

Tivano is a product with DC-Inverter technology and is equipped with a high efficiency permanent magnet engine. For Tivano control and regulation, two different optional accessories are available. The first option is a display, that can be installed onboard on the right side, with SOFT TOUCH function, 3-speed regulation and

“auto” function, for an automatic step-by-step modulation towards the setpoint. The second option is an interface board, to be installed inside the product, for the connection with 3-speed remote controls (remote control is not standard supplied).



KEY:

- A** Display
- B** Touch buttons

| ICONS | FUNCTIONS |
|----------|----------------------------------|
| A | Automatic step-by-step operation |
| | Minimum operation |
| | Maximum ventilation speed |
| | Ultra low noise operation |
| | Heating ON |
| | Cooling ON |

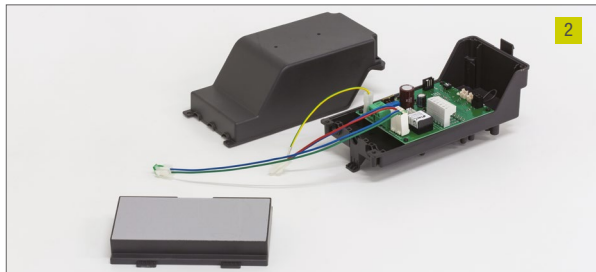
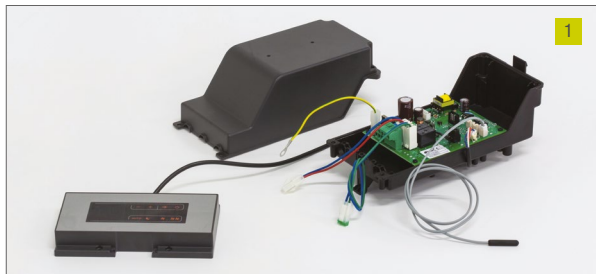
TECHNOLOGY

Accessories for control and installation

Tivano fan coil offers a wide range of accessories for the installation and customization of the product in order to enable its installation anywhere: feet for floorstanding

installation or to cover the pipes, in case they come up from the floor; 3-way valve group with electrical actuator and 2-way valve ON/OFF or proportional.

| REF. | CODE | DESCRIPTION |
|---|----------|--|
| ACCESSORIES FOR CONTROL AND REGULATION | | |
| 1 | 20116484 | ALPHA TIVANO 20 IN - control for onboard installation with speed selector |
| 2 | 20116481 | ALPHA TIVANO REMOTO - interface board for three-speed control (control not included) |



| REF. | CODE | DESCRIPTION |
|--------------------------|----------|---|
| OTHER ACCESSORIES | | |
| 3 | 20116486 | 2-way solenoid valve kit (for circulators at variable flow) |
| 4 | 20116489 | 3-way solenoid valve kit for circulators at fixed flow) |



| REF. | CODE | DESCRIPTION |
|--------------------------|----------|----------------|
| OTHER ACCESSORIES | | |
| 5 | 20116493 | 2-way taps kit |
| 6 | 20116500 | White feet kit |



| REF. | CODE | DESCRIPTION |
|--------------------------|----------|----------------------|
| OTHER ACCESSORIES | | |
| 7 | 20116503 | 90° "L" coupling kit |
| 8 | 20116505 | Fitting spacer kit |



TECHNOLOGY

Ideal for heating, cooling and climate control

Double range with radiant versions and standard versions

Reduced dimensions, 150mm depth only

Five sizes of capacity and 2-pipe hydraulics

Control and regulation with DC-Inverter Technology

Ultra low noise and maximum power thanks to the tangential fan

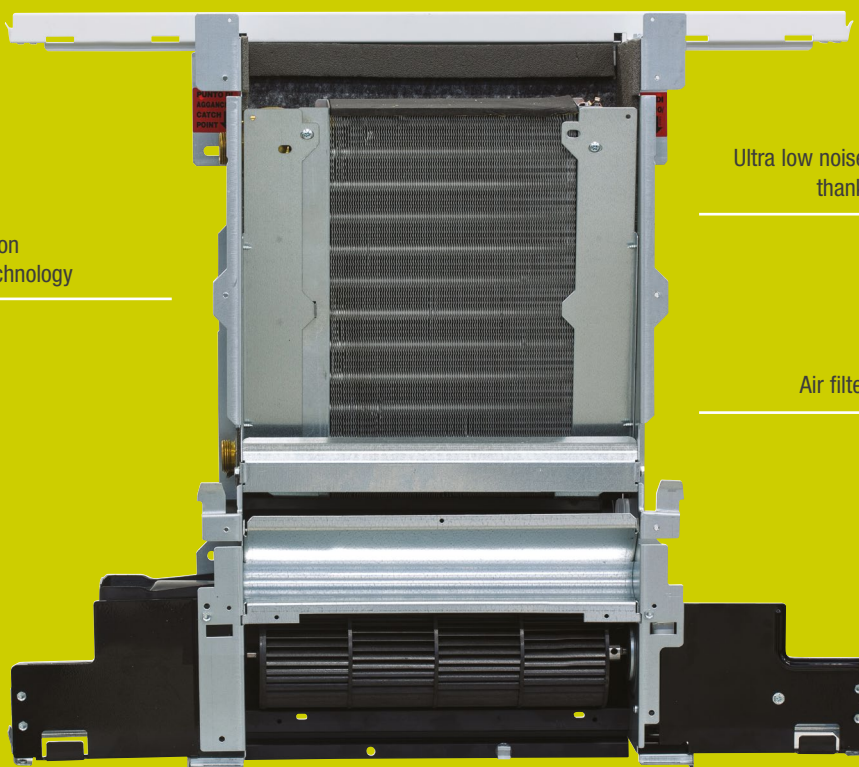
Air filter supplied as standard

Can be matched with condensing boilers, heat pumps and hybrid systems

Suitable for wall-mounted or under-ceiling installation, thanks to the "tray" kits available as option

High speed to reach the set point on heating and on cooling

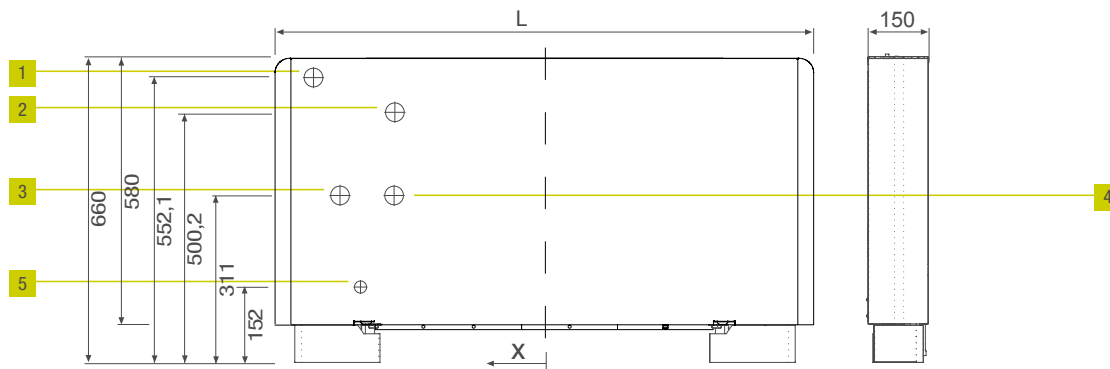
Ideal for residential and light-commercial application



TECHNICAL DRAWINGS

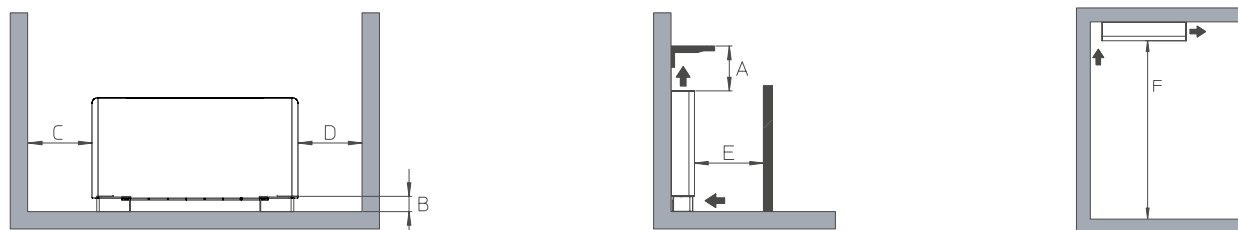
| TIVANO - TIVANO R | U.O.M | 23 | 45 | 64 | 76 | 94 |
|--|-------|-------|-------|-------|-------|-------|
| DIMENSIONS | | | | | | |
| L | mm | 723 | 923 | 1123 | 1323 | 1523 |
| WEIGHT | | | | | | |
| Net weight | Kg | 17 | 20 | 23 | 26 | 29 |
| HYDRAULIC CONNECTIONS - DISTANCE FROM MIDPOINT (X DISTANCE) - IN CASE OF WALL PIPES | | | | | | |
| 1- Inlet for 3-way diverter valve installation (with spacer connection) | mm | 325,5 | 425,5 | 525,5 | 625,5 | 725,5 |
| 2- Inlet for 2-way valve installation (with 90° connection) | mm | 205,8 | 305,8 | 405,8 | 505,8 | 605,8 |
| 3- Outlet via 3-way valve | mm | 284,8 | 384,8 | 484,8 | 584,8 | 684,8 |
| 4- Outlet via 2-way valve | mm | 205,8 | 305,8 | 405,8 | 505,8 | 605,8 |
| 5- Condensate drain | mm | 254 | 354 | 454 | 654 | 754 |
| CLEARANCE | | | | | | |
| A | mm | 140 | 140 | 140 | 140 | 140 |
| B | mm | 80 | 80 | 80 | 80 | 80 |
| C | mm | 20 | 20 | 20 | 20 | 20 |
| D | mm | 20 | 20 | 20 | 20 | 20 |
| E | mm | 400 | 400 | 400 | 400 | 400 |
| F | mm | 2500 | 2500 | 2500 | 2500 | 2500 |

TIVANO - TIVANO R



KEY:

- 1** Inlet for 3-ways diverter valve installation with spacer connection (using code 20116489 and code 20116505)
- 2** Inlet for 2-ways valve installation with 90° connection (using code 20116486 with code 20116503 or code 20116493 with code 20116503)
- 3** Outlet via 3-ways valve
- 4** Outlet via 2-ways valve
- 5** Condensate drain



TECHNICAL DATA

| DESCRIPTION and MODELS | U.O.M. | TIVANO 23 / R 23 | TIVANO 45 / R 45 | TIVANO 64 / R 64 | TIVANO 76 / R 76 | TIVANO 94 / R 94 |
|---|-------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| PERFORMANCE | | | | | | |
| Total cooling capacity ^(a) | W | 1062 | 2056 | 3211 | 3759 | 4423 |
| Sensible cooling capacity | W | 829 | 1562 | 2517 | 2997 | 3565 |
| Water flow rate | l/h | 183 | 354 | 552 | 647 | 761 |
| Water losses | kPa | 7,6 | 8,4 | 23,0 | 18,3 | 24,8 |
| Heating capacity with 50°C inlet water ^(b) | W | 1387 | 2720 | 3827 | 4572 | 5591 |
| Water flow rate (50 °C water inlet) | l/h | 185 | 357 | 558 | 653 | 769 |
| Water losses (50 °C water inlet) | kPa | 6,3 | 7,0 | 17,5 | 14,5 | 19,2 |
| Heating capacity with 70°C water inlet ^(c) | W | 2347 | 4530 | 6436 | 7619 | 9356 |
| Water flow rate (70°C Δt 10) | l/h | 202 | 390 | 553 | 655 | 805 |
| Water losses (70°C Δt 10) | kPa | 6,9 | 7,5 | 16,1 | 13,5 | 19,4 |
| Cooling capacity without ventilation (70°C Δt 10) | W | 322 | 379 | 447 | 563 | 690 |
| HYDRAULIC FEATURES | | | | | | |
| Water coil content | litre | 0,47 | 0,8 | 1,13 | 1,46 | 1,8 |
| Maximum operating pressure | bar | 10 | 10 | 10 | 10 | 10 |
| Hydraulic connections | inch | eurokonus 3/4 | | | | |
| AEREAULIC DATA | | | | | | |
| Airflow at "Performance" ^(d) | m ³ /h | 191(*) | 377(*) | 543(*) | 678(*) | 763(*) |
| Airflow at medium speed (AUTO mode) | m ³ /h | 111(*) | 247(*) | 360(*) | 444(*) | 484(*) |
| Airflow at minimum ventilation speed | m ³ /h | 54(*) | 153(*) | 246(*) | 366(*) | 422(*) |
| Maximum static pressure available | Pa | 10 | 10 | 13 | 13 | 13 |
| ELECTRICAL DATA | | | | | | |
| Power supply | V/ph/Hz | 230/1/50 | | | | |
| Maximum power consumption ^(e) | W | 15,1 | 23,2 | 26,4 | 36 | 40,3 |
| Maximum current input ^(e) | A | 0,14 | 0,21 | 0,24 | 0,35 | 0,38 |
| Absorbed power at minimum speed | W | 6 | 12 | 14 | 18 | 19 |
| SOUND LEVEL | | | | | | |
| Sound pressure at "Performance" ^(g) | dB(A) | 43,6 | 44,5 | 46,9 | 47,5 | 48,7 |
| Sound pressure at medium airflow ^(g) | dB(A) | 34,4 | 35,3 | 35,7 | 36,2 | 38,9 |
| Sound pressure at minimum airflow ^(g) | dB(A) | 25,3 | 26,5 | 26,6 | 27,4 | 28,7 |
| Sound pressure at temperature 'setpoint' ^(g) | dB(A) | 19,8 | 20,5 | 23,3 | 23,8 | 24,7 |

KEY:

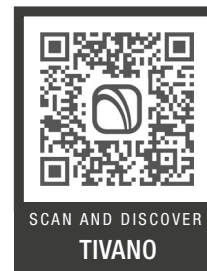
- a** Coil inlet water temperature 7°C, coil outlet water temperature 12°C, air temperature 27°C d.b. and 19°C w.b. (UNI EN 1397)
- b** Coil inlet water temperature 50°C, water flow rate as in cooling, air temperature 20°C (UNI EN 1397)
- c** Coil inlet water temperature 70°C, coil outlet water temperature 60°C, air temperature 20°C
- d** Air flow rate measured with clean filters
- e** With the maximum number of revolutions
- g** Sound pressure measured in semi-anechoic chamber according to ISO 7779

(*) Cooling Airflow data.

Concerning Heating Airflow, it is 20 m³/h higher on the model 23 and 40 m³/h higher on all other models, at every speed.



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