



Horizontal discharge  
version CVHT-H



Vertical discharge  
version CVHT-V

Range of belt driven cabinet fans designed for smoke extraction in fire conditions and certified F400-120 (CE marked). The casings are manufactured from heavy gauge galvanised sheet steel. All models incorporate double inlet forward curved centrifugal impellers. Belt-driven transmission system mounted external to the air stream. Motor mounted within the fan cabinet onto a specific support giving optimal belt tension. Supplied as standard in horizontal discharge (code H) or vertical (code V) configuration with motor, pulley and belt assembly on the right hand side of the unit when viewed from the discharge end.

#### Motors

All motors are IP55, class F insulation. Electrical supply.

Three phase 220-240/380-415-50/60\* Hz up to 4 kW.

(\*Check Easyvent for 60Hz available models)

Three phase 380-415V-50Hz, for higher power motors and two speed motors. (See characteristics chart).

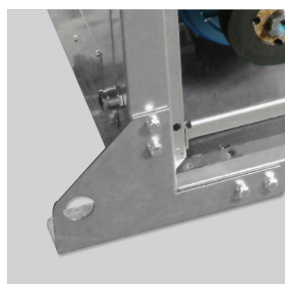
#### On request

Motor, pulley and belt assembly fitted on the left hand side of the unit when viewed from the discharge end (TI version).

Two speed motors (4/6 and 4/8 poles).

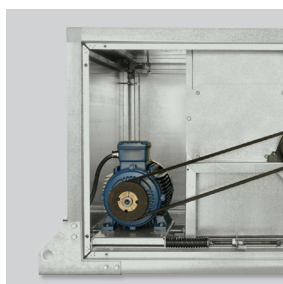
Single phase motors 230V-50Hz up to 2,2 kW.

Single phase motor (CVHB) up to 2,2 kW.



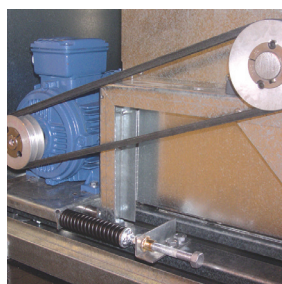
#### Easy to install

The cabinets have fixing points on the corners easing the installation either on the floor or ceiling.



#### Compact design

Motor inside the fan casing, providing a smaller size and a higher compacity.



#### Automatically tensioned and maintenance free system

Exclusive of S&P. The only system ensuring a constant belt tension without any maintenance required.



#### Robustness

Quality finishing, with aluminium corners providing a high robustness.

#### Specific applications



Officially approved to EN12101-3 standard.  
Certificate n° 0370-CPD-0359



Continuous operation



Car parks

### TECHNICAL CHARACTERISTICS

Before installation check that the product electrical characteristics listed on the data plate label (voltage, power, frequency, etc.) match those of the intended electrical supply.

| Model      | Motor power  |              | Fan speed     |               | Airflow        |                | The biggest possible motor (Kg) |
|------------|--------------|--------------|---------------|---------------|----------------|----------------|---------------------------------|
|            | Minimum (kW) | Maximum (kW) | Minimum (rpm) | Maximum (rpm) | Minimum (m³/h) | Maximum (m³/h) |                                 |
| CVHT-9/9   | 0,25         | 1,1          | 800           | 1700          | 980            | 5.850          | 105                             |
| CVHT-10/10 | 0,25         | 2,2          | 700           | 1700          | 1.200          | 7.500          | 132                             |
| CVHT-12/12 | 0,37         | 3,0          | 600           | 1500          | 1.500          | 12.950         | 176                             |
| CVHT-15/15 | 1,1          | 4,0          | 600           | 1200          | 3.150          | 16.350         | 216                             |
| CVHT-18/18 | 1,1          | 7,5          | 400           | 950           | 2.700          | 25.900         | 294                             |
| CVHT-20/20 | 2,2          | 7,5          | 500           | 1000          | 4.220          | 31.600         | 342                             |
| CVHT-22/22 | 2,2          | 15,0         | 400           | 850           | 5.200          | 38.700         | 360                             |
| CVHT-25/25 | 2,2          | 15,0         | 350           | 750           | 4.810          | 53.970         | 515                             |
| CVHT-30/28 | 3,0          | 18,5         | 300           | 600           | 9.500          | 61.250         | 648                             |

### ACOUSTIC CHARACTERISTICS

Sound power spectrum: To obtain the sound power level spectrum subtract the correction values (dB(A)) shown in the table below at the corresponding octave average frequencies from the value provided in the product performance.

| Model      | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | 16000 Hz |
|------------|-------|--------|--------|--------|---------|---------|---------|---------|----------|
| CVHT-9/9   | 17    | 15     | 11     | 12     | 4       | 5       | 14      | 19      | 27       |
| CVHT-10/10 | 17    | 15     | 11     | 11     | 4       | 5       | 14      | 20      | 27       |
| CVHT-12/12 | 16    | 14     | 11     | 10     | 4       | 5       | 15      | 21      | 27       |
| CVHT-15/15 | 13    | 13     | 10     | 10     | 5       | 5       | 15      | 22      | 27       |
| CVHT-18/18 | 11    | 12     | 9      | 9      | 5       | 6       | 15      | 22      | 27       |
| CVHT-20/20 | 10    | 11     | 8      | 8      | 6       | 7       | 16      | 23      | 27       |
| CVHT-22/22 | 9     | 11     | 7      | 8      | 6       | 8       | 17      | 24      | 27       |
| CVHT-25/25 | 9     | 11     | 7      | 8      | 6       | 8       | 17      | 25      | 27       |
| CVHT-30/28 | 9     | 11     | 7      | 8      | 6       | 8       | 18      | 25      | 27       |

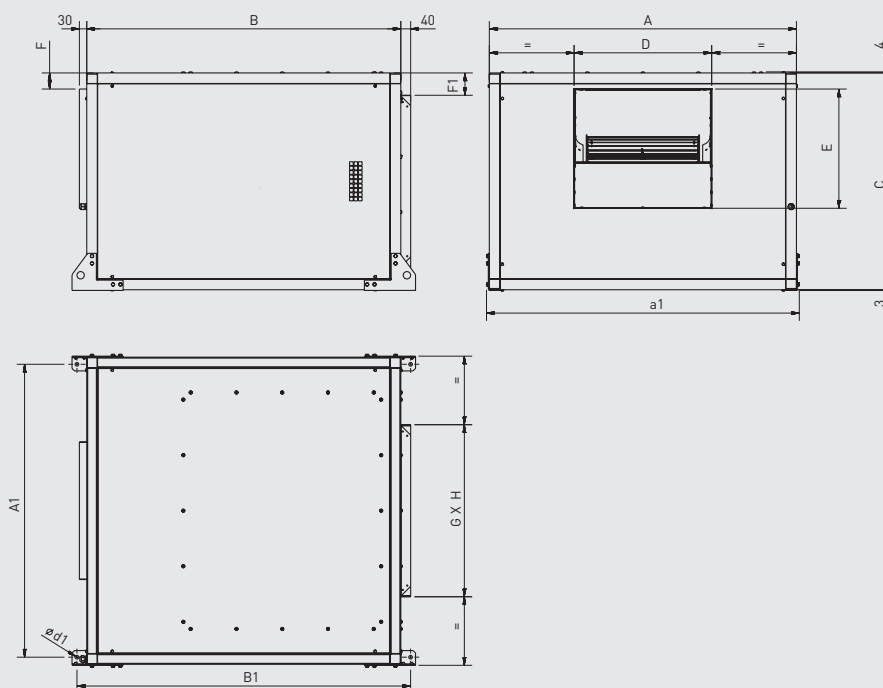
### MOTOR POWERS (KW) FOR CVHT PRODUCT RANGE

| 1 SPEED | 4 POLES   | 0,25      | 0,37      | 0,55      | 0,75      | 1,1       | 1,5      | 2,2      | 3       | 4      | 5,5     | 7,5     | 11     | 15     | 18,5 |
|---------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|---------|--------|---------|---------|--------|--------|------|
| 2 SPEED | 4/6 POLES | 0,25/0,09 | -         | -         | 0,7/0,2   | 0,85/0,25 | 1,4/0,5  | 2,4/0,75 | 3,4/1,1 | 4/1,2  | 6,3/1,9 | 9/3     | 11/3,7 | 15/5   | -    |
|         | 4/8 POLES | 0,25/0,06 | 0,37/0,07 | 0,55/0,09 | 0,75/0,12 | 1,1/0,18  | 1,5/0,25 | 2,2/0,37 | 3/0,55  | 4/0,75 | 5,5/1,1 | 7,5/1,5 | 11/2,8 | 15/3,8 | -    |

NOTE: For 2 speed motors, the powers may have small variations depending on the motor manufacturer.

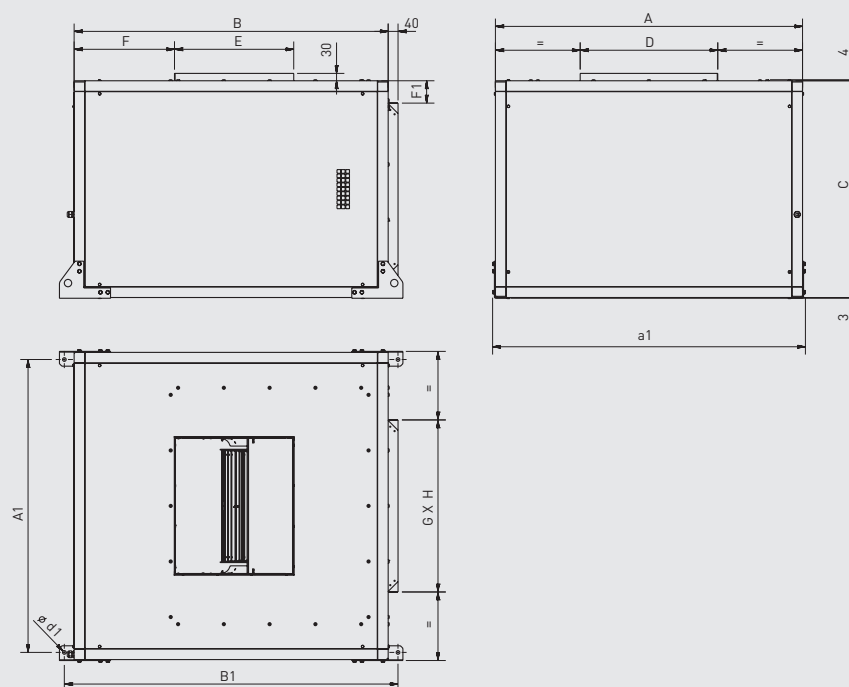
DIMENSIONS (mm)

CVHT 9-10-12-15-18 Horizontal



| Model        | A    | A1   | a1   | B     | B1    | C     | D   | ø d1 | E     | F    | F1    | GxH     |
|--------------|------|------|------|-------|-------|-------|-----|------|-------|------|-------|---------|
| CVHT-9/9-H   | 759  | 701  | 782  | 783   | 863   | 592   | 304 | 15   | 264   | 65,5 | 96    | 400x400 |
| CVHT-10/10-H | 821  | 763  | 844  | 837   | 917   | 618   | 337 | 15   | 293,5 | 65,5 | 84    | 450x450 |
| CVHT-12/12-H | 945  | 887  | 968  | 959   | 1.039 | 680,5 | 400 | 15   | 345   | 65,5 | 90,25 | 500x500 |
| CVHT-15/15-H | 1104 | 1046 | 1127 | 1.092 | 1.172 | 776   | 476 | 15   | 407   | 65,5 | 88    | 600x600 |
| CVHT-18/18-H | 1250 | 1192 | 1273 | 1.278 | 1.358 | 882   | 560 | 15   | 485   | 65,5 | 91    | 700x700 |

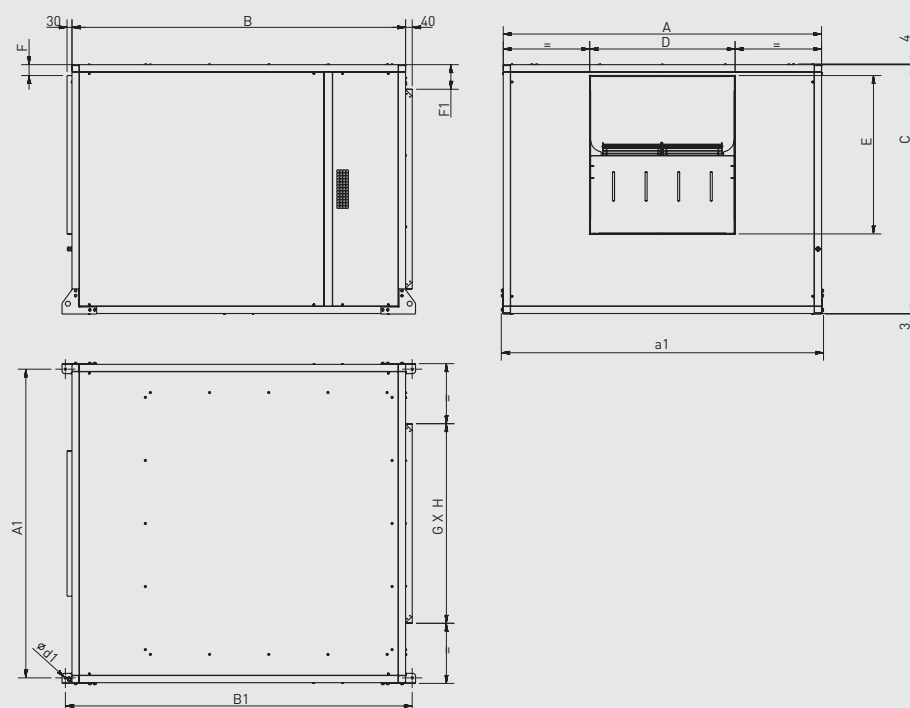
CVHT 9-10-12-15-18 Vertical



| Model        | A    | A1   | a1   | B     | B1    | C     | D   | ø d1 | E     | F     | F1    | GxH     |
|--------------|------|------|------|-------|-------|-------|-----|------|-------|-------|-------|---------|
| CVHT-9/9-V   | 759  | 701  | 782  | 783   | 863   | 592   | 304 | 15   | 264   | 316,5 | 96    | 400x400 |
| CVHT-10/10-V | 821  | 763  | 844  | 837   | 917   | 618   | 337 | 15   | 293,5 | 316,5 | 84    | 450x450 |
| CVHT-12/12-V | 945  | 887  | 968  | 959   | 1.039 | 680,5 | 400 | 15   | 345   | 343,5 | 90,25 | 500x500 |
| CVHT-15/15-V | 1104 | 1046 | 1127 | 1.092 | 1.172 | 776   | 476 | 15   | 407   | 368,5 | 88    | 600x600 |
| CVHT-18/18-V | 1250 | 1192 | 1273 | 1.278 | 1.358 | 882   | 560 | 15   | 485   | 408,5 | 91    | 700x700 |

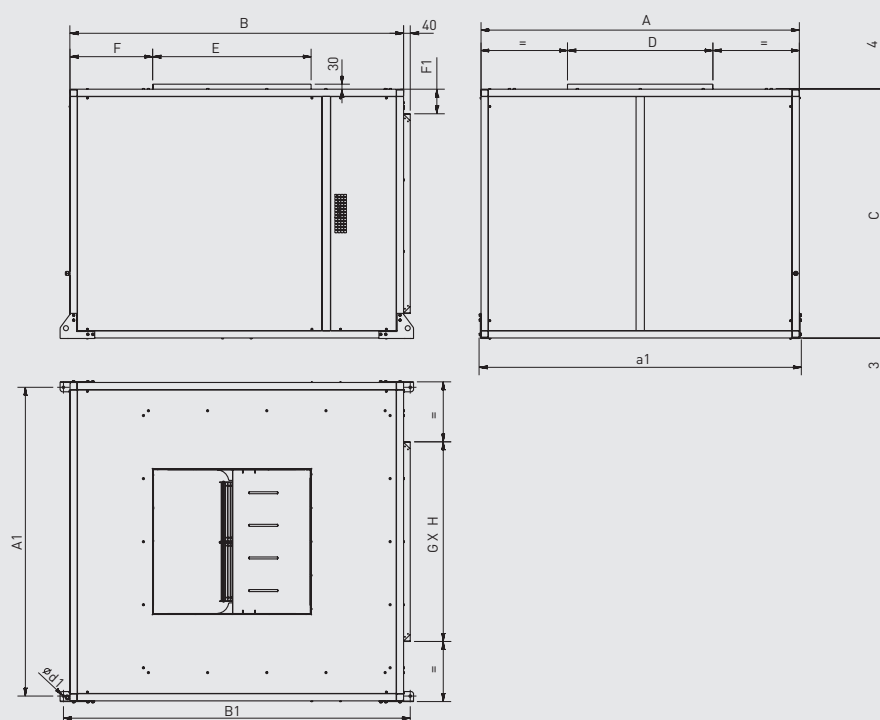
DIMENSIONS (mm)

CVHT 20-22-25-30 Horizontal



| Model        | A    | A1   | a1   | B    | B1   | C      | D     | ø d1 | E     | F    | F1     | GxH       |
|--------------|------|------|------|------|------|--------|-------|------|-------|------|--------|-----------|
| CVHT-20/20-H | 1414 | 1356 | 1437 | 1495 | 1575 | 1051   | 636   | 15   | 631   | 65,5 | 125,5  | 800x800   |
| CVHT-22/22-H | 1542 | 1448 | 1565 | 1638 | 1718 | 1142,5 | 697,5 | 15   | 705,5 | 65,5 | 121,25 | 900x900   |
| CVHT-25/25-H | 1697 | 1639 | 1720 | 1800 | 1880 | 1278   | 801   | 15   | 805   | 65,5 | 139    | 1000x1000 |
| CVHT-30/28-H | 1914 | 1856 | 1937 | 2005 | 2084 | 1495,5 | 874,5 | 15   | 952,5 | 65,5 | 147,75 | 1200x1200 |

CVHT 20-22-25-30 Vertical

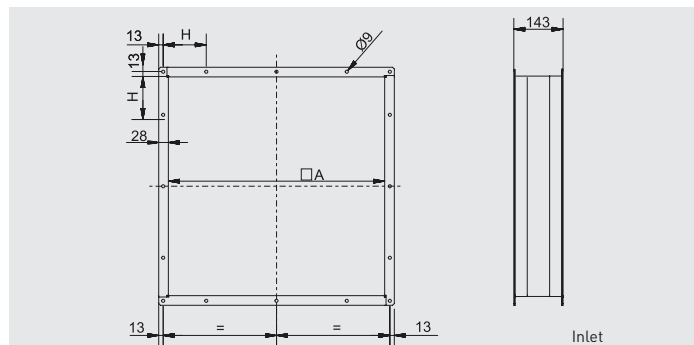


| Model        | A    | A1   | a1   | B     | B1    | C      | D     | ø d1 | E     | F     | F1     | GxH       |
|--------------|------|------|------|-------|-------|--------|-------|------|-------|-------|--------|-----------|
| CVHT-20/20-V | 1414 | 1356 | 1437 | 1495  | 1.575 | 1.051  | 636   | 15   | 631   | 451,5 | 125,5  | 800x800   |
| CVHT-22/22-V | 1542 | 1484 | 1565 | 1.638 | 1.718 | 1142,5 | 697,5 | 15   | 705,5 | 498   | 121,25 | 900x900   |
| CVHT-25/25-V | 1697 | 1639 | 1720 | 1.800 | 1.880 | 1278   | 801   | 15   | 805   | 497,5 | 139    | 1000x1000 |
| CVHT-30/28-V | 1914 | 1856 | 1937 | 2.005 | 2.084 | 1495,5 | 874,5 | 15   | 952,5 | 496,5 | 147,75 | 1200x1200 |

### MOUNTING ACCESSORIES

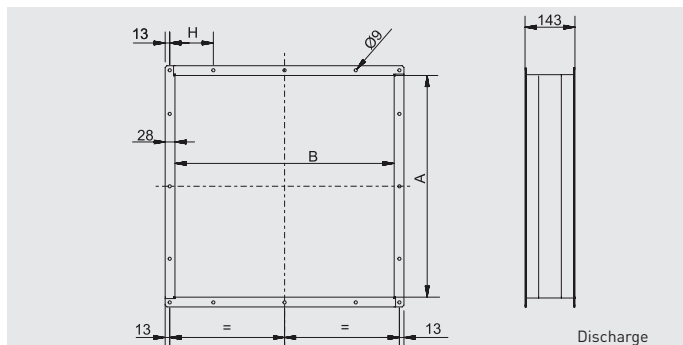


**ACOP RECT F400**  
Rectangular flexible connectors.



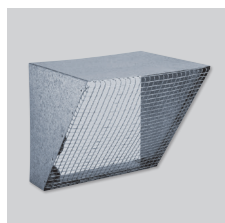
| Model Cabinet | Inlet                    |      |     |          |
|---------------|--------------------------|------|-----|----------|
|               | Model                    | A    | H   | Nº holes |
| CVHT-9/9      | ACOP RECT F400 9/9 ASP   | 402  |     | 8        |
| CVHT-10/10    | ACOP RECT F400 10/10 ASP | 452  |     | 8        |
| CVHT-12/12    | ACOP RECT F400 12/12 ASP | 502  |     | 8        |
| CVHT-15/15    | ACOP RECT F400 15/15 ASP | 602  |     | 8        |
| CVHT-18/18    | ACOP RECT F400 18/18 ASP | 702  |     | 8        |
| CVHT-20/20    | ACOP RECT F400 20/20 ASP | 802  | 168 | 16       |
| CVHT-22/22    | ACOP RECT F400 22/22 ASP | 902  | 199 | 16       |
| CVHT-25/25    | ACOP RECT F400 25/25 ASP | 1002 | 208 | 16       |
| CVHT-30/28    | ACOP RECT F400 30/28 ASP | 1202 | 247 | 16       |

Dimensions (mm)

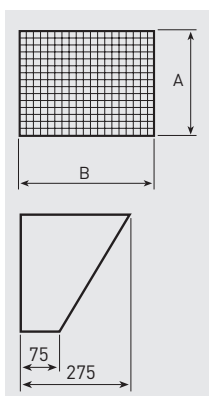


| Model Cabinet | Discharge                |     |     |     |          |
|---------------|--------------------------|-----|-----|-----|----------|
|               | Model                    | A   | B   | H   | Nº holes |
| CVHT-9/9      | ACOP RECT F400 9/9 IMP   | 305 | 265 |     | 8        |
| CVHT-10/10    | ACOP RECT F400 10/10 IMP | 338 | 294 |     | 8        |
| CVHT-12/12    | ACOP RECT F400 12/12 IMP | 401 | 346 |     | 8        |
| CVHT-15/15    | ACOP RECT F400 15/15 IMP | 477 | 408 |     | 8        |
| CVHT-18/18    | ACOP RECT F400 18/18 IMP | 561 | 486 |     | 8        |
| CVHT-20/20    | ACOP RECT F400 20/20 IMP | 637 | 632 | 125 | 8        |
| CVHT-22/22    | ACOP RECT F400 22/22 IMP | 698 | 706 | 150 | 16       |
| CVHT-25/25    | ACOP RECT F400 25/25 IMP | 802 | 806 | 175 | 16       |
| CVHT-30/28    | ACOP RECT F400 30/28 IMP | 875 | 953 | 210 | 16       |

Dimensions (mm)

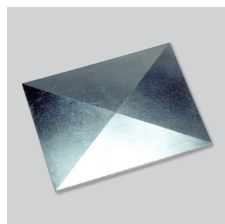


**CVD (Discharge) - CVA (Inlet)**  
**Protection guards**  
Wire protection guards for mounting on the discharge sides of the cabinets.

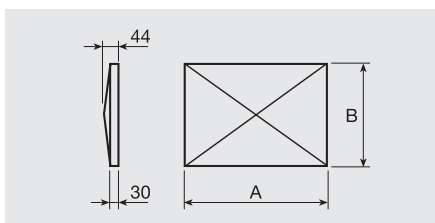


| Cabinet model | Discharge   |     |     | Inlet       |      |      |
|---------------|-------------|-----|-----|-------------|------|------|
|               | Guard model | A   | B   | Guard model | A    | B    |
| CVHT-9/9      | CVD-9       | 263 | 303 | CVA-9       | 403  | 403  |
| CVHT-10/10    | CVD-10      | 292 | 336 | CVA-10      | 453  | 453  |
| CVHT-12/12    | CVD-12      | 344 | 399 | CVA-12      | 503  | 503  |
| CVHT-15/15    | CVD-15      | 406 | 476 | CVA-15      | 603  | 603  |
| CVHT-18/18    | CVD-18      | 482 | 559 | CVA-18      | 703  | 703  |
| CVHT-20/20    | CVD-20      | 633 | 633 | CVA-20      | 803  | 803  |
| CVHT-22/22    | CVD-22      | 698 | 703 | CVA-22      | 903  | 903  |
| CVHT-25/25    | CVD-25      | 799 | 803 | CVA-25      | 1003 | 1003 |
| CVHT-30/28    | CVD-30      | 873 | 948 | CVA-30      | 1203 | 1203 |

Dimensions (mm)



**CHTI**  
**Pitched roof cover**  
For outdoor mounted installations of horizontal discharge cabinet fans.



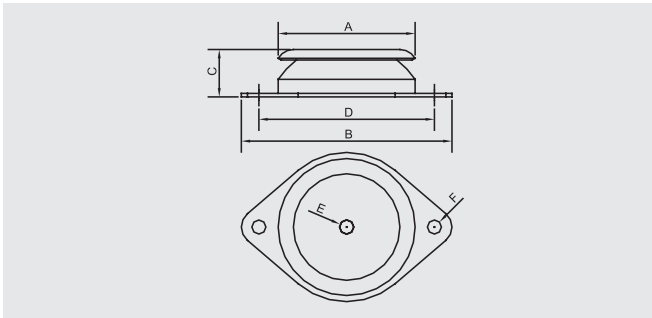
| Cabinet model | Cover model | A      | B      |
|---------------|-------------|--------|--------|
| CVHT-H-9/9    | CHTI-9/9    | 787    | 763    |
| CVHT-H-10/10  | CHTI-10/10  | 841    | 825    |
| CVHT-H-12/12  | CHTI-12/12  | 963    | 949    |
| CVHT-H-15/15  | CHTI-15/15  | 1096   | 1108   |
| CVHT-H-18/18  | CHTI-18/18  | 1284   | 1254   |
| CVHT-H-20/20  | CHTI-20/20  | 1499.5 | 1418.5 |
| CVHT-H-22/22  | CHTI-22/22  | 1642.5 | 1546.5 |
| CVHT-H-25/25  | CHTI-25/25  | 1804.5 | 1701.5 |
| CVHT-H-30/28  | CHTI-30/28  | 2009.5 | 1918.5 |

Dimensions (mm)

MOUNTING ACCESSORIES



**PAVZ**  
Rubber anti-vibration mounts with metallic bases that absorb vibration and attenuate the noise produced in the installation.



| Box Model  | Model          | A   | B   | C  | D   | ØE  | ØF   | Max. load*<br>(kg) |
|------------|----------------|-----|-----|----|-----|-----|------|--------------------|
| CVHT-9/9   | PAVZ-60 SH 75  | 60  | 90  | 24 | 76  | M6  | 6,2  | 45                 |
| CVHT-10/10 | PAVZ-60 SH 75  | 60  | 90  | 24 | 76  | M6  | 6,2  | 45                 |
| CVHT-12/12 | PAVZ-80 SH 60  | 80  | 120 | 27 | 100 | M8  | 8,2  | 80                 |
| CVHT-15/15 | PAVZ-80 SH 60  | 80  | 120 | 27 | 100 | M8  | 8,2  | 80                 |
| CVHT-18/18 | PAVZ-80 SH 60  | 80  | 120 | 27 | 100 | M8  | 8,2  | 80                 |
| CVHT-20/20 | PAVZ-100 SH 45 | 100 | 148 | 28 | 124 | M10 | 10,2 | 105                |
| CVHT-22/22 | PAVZ-100 SH 45 | 100 | 148 | 28 | 124 | M10 | 10,2 | 105                |
| CVHT-25/25 | PAVZ-100 SH 60 | 100 | 148 | 28 | 124 | M10 | 10,2 | 180                |
| CVHT-30/28 | PAVZ-100 SH 60 | 100 | 148 | 28 | 124 | M10 | 10,2 | 180                |

Dimensions (mm)  
\* The indicated value is the maximum load for each one of the anti-vibration mounts.