

**TE/TR/TP**

I torrini elicoidali serie TE, TR e TP, sono stati studiati e realizzati per risolvere il problema dell' estrazione dell'aria da ogni tipo di ambiente, in particolare per gli ambienti industriali, allevamenti zootecnici e/o produttivi in genere.

I suddetti vengono posti sui tetti degli edifici. Le temperatura di funzionamento non deve essere inferiori ai -20°C e non superiori ai +40°C. In esecuzione speciale possono superare questi limiti. La gamma è prodotta per soddisfare ogni esigenza d'installazione, in funzione delle più svariate tipologie di copertura.

### CARATTERISTICHE

I torrini serie TE, TR e TP, hanno come fulcro principale il tipo di convogliatore che lo distingue.

A cassa lunga, a singola flangia piana, è costruito da spessori proporzionali al suo fabbisogno, e può nascere con 2 modelli differenti. Adatti ad ogni tipo di esigenza. Assemblato al motore elettrico, ed al convogliatore, vengono applicate le giranti CIESSE serie HIGHWIND, a profilo alare monodirezionale.

### TIPO DI COSTRUZIONE

Convogliatore circolare cassa lunga, a singola flangia piana, provvisto di, è realizzabile in 4 diversi materiali. Acciaio al carbonio, in acciaio inox AISI 304 e 316 e in alluminio.

Le rete antinfortunistica, lato motore e lato girante, è in acciaio al carbonio o acciaio inox AISI 304, ed è costruita nel rispetto delle norme vigenti UNI EN 294.

La giranti, ad alto rendimento e a profilo alare, sono in materiale plastico (polipropilene o nylon vetro) o in alluminio. L'equilibratura viene eseguita secondo le norme vigenti UNI ISO 1940.

Sono provvisti di cappello parapiooggia e struttura portante in resina poliester rinforzata con fibra di vetro (per la serie TP in acciaio zincato a freddo), che rende questi estrattori particolarmente idonei nell' esposizione permanente agli agenti atmosferici.

A richiesta è la serranda a gravità in alluminio.

In esecuzione standard, il motore elettrico fornito presenta protezione IP 55, isolamento CL F, rendimento EEF2, servizio S 1, tropicalizzati, tutti costruiti secondo le norme vigenti IEC/ EEC (UNELMEC).

Con i suddetti motori, è disponibile l' esecuzione 4.

### ESECUZIONI SPECIALI

- Alte prestazioni (portate e pressioni superiori a quelle indicate a catalogo)
- Esecuzioni a normativa ATEX
- Esecuzione per evacuazione fumi (omologati 400°/2h)
- Esecuzioni a disegno del cliente.

*The helical fans mod. TE, TR and TP have been designed and manufactured in order to solve the air extraction problem in any type of environment, in particular in industrial environments, zootechnical breedings and/or general production environments.*

*The fans are placed on the roofs of the buildings.*

*The working temperature shall not be lower than -20°C and higher than +40°C. The special executions can exceed these temperature limits. The production range has been designed in order to meet any installation requirement, according to any type of roofing.*

### SPECIAL CHARACTERISTICS

*The fans mod. TE, TR and TP are mainly characterised by the type of conveyor. With long casing, single flat flange, it is manufactured with shims proportional to its requirements. It can be executed in 2 different models and meets any type of requirement.*

*The conveyor is equipped with electric motor and uni-directional CIESSE impeller mod. HIGHWIND with wing profile.*

### CONSTRUCTION TYPE

*Round conveyor with long casing and flat flange; it can be manufactured with 4 different materials: carbon steel, stainless steel aisi 304 and 316 and aluminium.*

*The motor-side and wheel-side safety net is made of carbon steel or stainless steel AISI 304, and is manufactured according to the UNI EN 294 standards in force.*

*The high-performance wheels with wing profile are made of plastic material (polypropylene or glass nylon) or aluminium. The balancing is carried out according to the uni iso 1940 standards in force.*

*The fans are equipped with rain-protection cap and framework made of polyester resin reinforced with glass fiber (for the mod. "TP" made of cold-galvanized steel), so to make this type of extractors particularly suitable to permanent weathering exposure. On request they can be equipped with a gravity aluminium gate.*

*The standard execution foresees an electric motor with protection class IP 55, insulation CL F, performance EEF2, service S 1; the motors are tropicalized, and they are all manufactured according to the IEC/ EEC (UNELMEC) standards in force.*

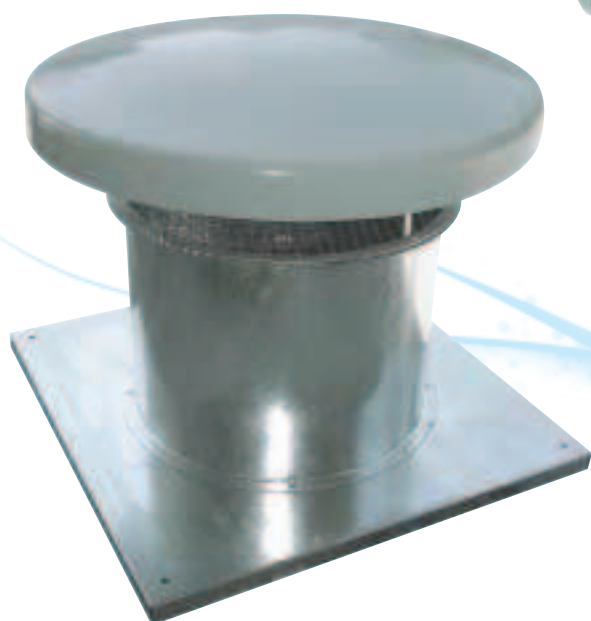
*With such motors executions 4 are available.*

### SPECIAL EXECUTIONS

- High performance executions (with capacity and pressure values higher than those shown in the catalogues)
- ATEX- standard executions
- Execution for fumes evacuation (certified 400°/2h )
- Executions according to client's drawings

# TE/TR

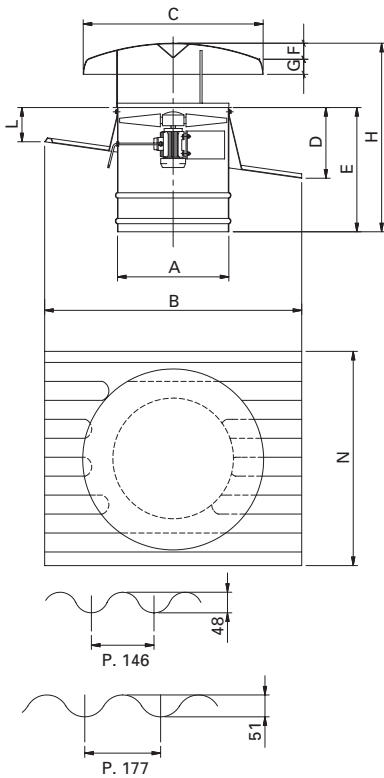
## Caratteristiche generali General features



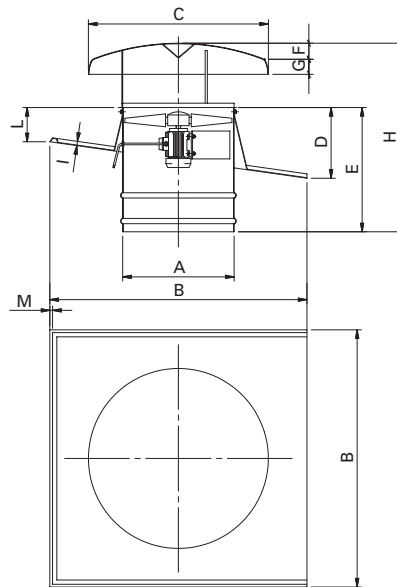
# TE Dimensioni d'ingombro

## Overall dimensions

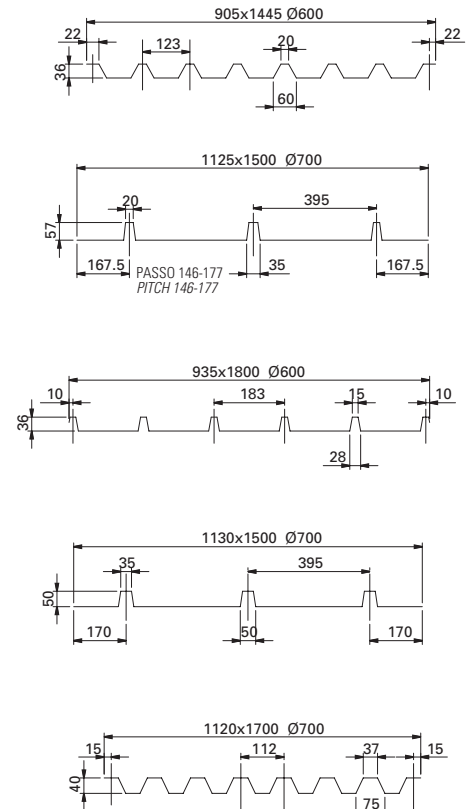
**PASSO 146 - 177**  
**PITCH 146 - 177**



**PIANA**  
**PLAIN**



**GRECATE**  
**FRATTED**



**CONVERSA COPERTURA IN VETRORESINA - PASSO 146/177**  
**FIBREGLASS COVERING VALLEY - PITCH 146/177**

| MODELLO<br>TYPE             | øA  | B            | C    | D          | E   | F   | G  | H    | I | L          | M | N           | P              | ø Vent. |
|-----------------------------|-----|--------------|------|------------|-----|-----|----|------|---|------------|---|-------------|----------------|---------|
| 40/74 D                     |     | 1500         |      |            |     |     |    |      |   |            |   |             | 146            |         |
| 40/74 E                     | 415 | 1200<br>1500 | 840  | 330        | 570 | 75  | 70 | 900  |   | 235        |   | 820         | 146-177<br>177 | 400     |
| 50/74 D                     |     | 1500         |      |            |     |     |    |      |   |            |   |             | 146            |         |
| 50/74 E                     | 515 | 1224<br>1500 | 840  | 400<br>355 | 570 | 75  | 70 | 900  |   | 285<br>200 |   | 1050<br>920 | 146-177<br>177 | 500     |
| 60/74 C - 60/74 D - 60/76 F |     | 1500         |      |            |     |     |    |      |   |            |   |             | 146            |         |
| 60/78 F - 60/84 A - 60/84 C | 615 | 1224         | 985  | 355        | 570 | 140 | 90 | 1000 |   | 200        |   | 1050        | 146-177        | 600     |
| 60/86 D                     |     | 1500         |      |            |     |     |    |      |   |            |   |             | 177            |         |
| 70/84 B - 70/86 D           |     | 1500         |      |            |     |     |    |      |   |            |   |             | 146            |         |
| 70/86 F - 70/88 E           | 715 | 1500         | 1090 | 355        | 570 | 75  | 45 | 1000 |   | 200        |   | 1100        | 177            | 700     |

# TE Dimensioni d'ingombro

## Overall dimensions

### CONVERSA PIANA CON BORDO PER TEGOLE E TERRAZZI FLAT VALLEY WITH EDGE FOR ROOFING TILES AND TERRACES

| MODELLO<br>TYPE  | øA  | B         | C    | D   | E   | F   | G  | H    | I  | L   | M  | N | P | ø Vent. |
|--|-----|-----------|------|-----|-----|-----|----|------|----|-----|----|---|---|---------|
| 40/74 D - 40/74 E  | 415 | 800       | 840  | 330 | 570 | 75  | 70 | 900  | 20 | 245 | 10 |   |   | 400     |
| 50/74 D - 50/74 E  | 515 | 1000      | 840  | 330 | 570 | 75  | 70 | 900  | 20 | 230 | 10 |   |   | 500     |
| 60/74 C - 60/74 D - 60/76 F<br>60/78 F - 60//84 A<br>60/84 C - 60/86 D | 615 | 1000      | 985  | 330 | 570 | 140 | 90 | 1000 | 20 | 230 | 10 |   |   | 600     |
| 70/84 B - 70/86 D<br>70/86 F - 70/88 E                                 | 715 | 1270x1240 | 1090 | 355 | 570 | 75  | 45 | 1030 | 20 | 230 | 10 |   |   | 700     |

### CONVERSA DOPPIA PENDENZA CON PASSO 177 PER TEGOLE CON PENDENZA 28,6% DOUBLE SLOPE VALLEY PITCH 177 AND FLAT VALLEY FOR ROOFING TILES - GRADIENT 28,6%

| MODELLO<br>TYPE  | øA  | B    | C   | D   | E   | F   | G  | H    | I | L   | M | N    | P   | ø Vent. |
|--|-----|------|-----|-----|-----|-----|----|------|---|-----|---|------|-----|---------|
| 60/74 C - 60/74 D - 60/76 F<br>60/78 F - 60//84 A<br>60/84 C - 60/86 D | 615 | 1200 | 985 | 370 | 570 | 140 | 90 | 1000 |   | 370 |   | 1080 | 177 | 600     |

### CONVERSA PER CAPANNONI AD ARCATI PARABOLICA - FRECCIA mm 25 - PASSO 146/177 VALLEY FOR FACTORY BUILDINGS WITH PARABOLIC ARCADE - CAMBER mm 25 - PITCH 146/177

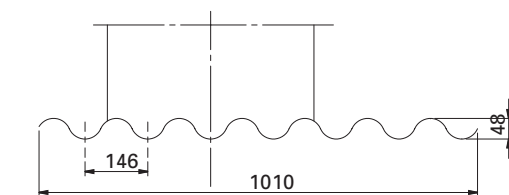
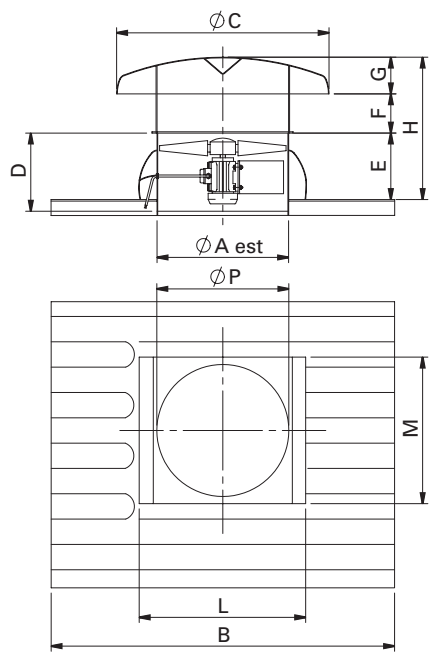
| MODELLO<br>TYPE                         | øA  | B    | C   | D   | E   | F   | G  | H    | I | L   | M | N    | P              | ø Vent. |
|---|-----|------|-----|-----|-----|-----|----|------|---|-----|---|------|----------------|---------|
| 60/74 C - 60/74 D - 60/76 F             |     | 1500 |     |     |     |     |    |      |   |     |   |      | 146            |         |
| 60/78 F - 60//84 A - 60/84 C<br>60/86 D | 615 | 1200 | 985 | 295 | 570 | 140 | 90 | 1000 |   | 195 |   | 1040 | 146/177<br>177 | 600     |

### CONVERSA PER COPERTURA IN LASTRE DI LAMIERA - PASSO 75 COVERING VALLEY PLATES - PITCH 75

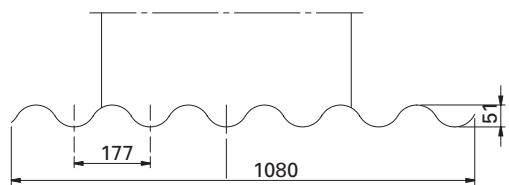
| MODELLO<br>TYPE   | øA  | B    | C   | D   | E   | F  | G  | H   | I | L   | M | N   | P  | ø Vent. |
|-------------------|-----|------|-----|-----|-----|----|----|-----|---|-----|---|-----|----|---------|
| 40/74 D - 40/74 E | 415 | 1400 | 840 | 440 | 570 | 75 | 70 | 900 |   | 290 |   | 895 | 75 | 400     |
| 50/74 D - 50/74 E | 515 | 1400 | 840 | 340 | 570 | 75 | 70 | 900 |   | 190 |   | 895 | 75 | 500     |

# TR Dimensioni d'ingombro

## Overall dimensions



CONVERSA ONDULATA - PASSO ONDA 146  
CORRUGATED VALLEY - WAVINESS PITCH 146

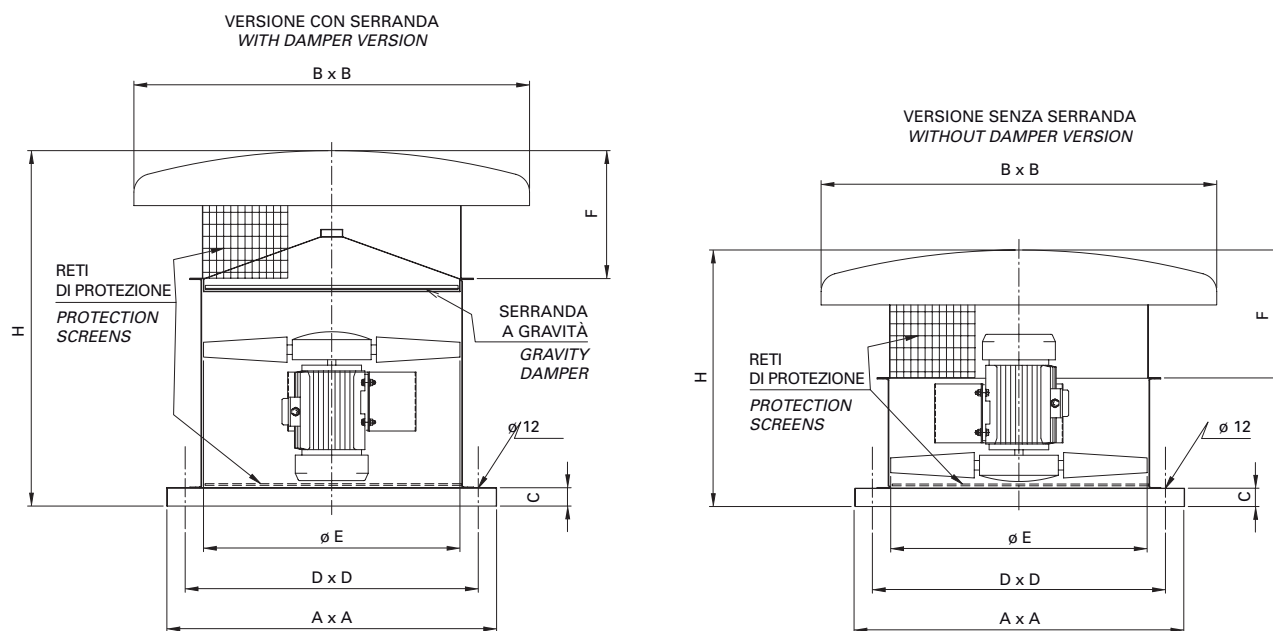


CONVERSA ONDULATA - PASSO ONDA 177  
CORRUGATED VALLEY - WAVINESS PITCH 177

| MODELLO<br>TYPE | $\varnothing A$ | B    | $\varnothing C$ | D   | E   | F   | G   | H   | L    | M   | $\varnothing P$ | Kg. |
|-----------------|-----------------|------|-----------------|-----|-----|-----|-----|-----|------|-----|-----------------|-----|
| TR4             | 415             | 1500 | 840             | 300 | 340 | 140 | 145 | 625 | 704  | 580 | 420             | 39  |
| TR5             | 515             | 1500 | 840             | 400 | 340 | 100 | 145 | 585 | 704  | 580 | 520             | 41  |
| TR6             | 615             | 1500 | 985             | 450 | 500 | 150 | 230 | 880 | 1040 | 795 | 620             | 57  |
| TR7             | 715             | 1500 | 1090            | 550 | 500 | 160 | 170 | 830 | 1040 | 795 | 720             | 77  |

# TP Dimensioni d'ingombro

## Overall dimensions



### MODELLO TYPE

| MODELLO<br>TYPE | AxA       | BxB         | C  | DxD     | øE  | F   | H   | Kg. |
|-----------------|-----------|-------------|----|---------|-----|-----|-----|-----|
| <b>TP 400</b>   | 650 x 650 | 840 x 840   | 50 | 550x550 | 400 | 330 | 950 | 34  |
| <b>TP 500</b>   | 700 x 700 | 840 x 840   | 50 | 600x600 | 400 | 330 | 950 | 39  |
| <b>TP 600</b>   | 800 x 800 | 980 x 980   | 50 | 700x700 | 400 | 330 | 950 | 52  |
| <b>TP 700</b>   | 900 x 900 | 1080 x 1080 | 50 | 550x550 | 400 | 330 | 950 | 60  |



| MODELLO<br>TYPE | Motore<br>Motor | Potenza kW<br>Power kW | Giri Min<br>RPM | Volts<br>Volts | Corr. nominale<br>Rated current | Livello sonoro dB(A)<br>Noise level dB(A) | Peso kg.<br>Weight Kg |
|-----------------|-----------------|------------------------|-----------------|----------------|---------------------------------|---|-----------------------|
| 40/74 D-T       | 63b             | 0,18                   | 1350            | 230/400        | 0,57                            | 66  | 26                    |
| 40/74 F-T       | 71a             | 0,25                   | 1380            | 230/400        | 0,77                            | 67  | 26                    |
| 50/74 D-T       | 71b             | 0,37                   | 1370            | 230/400        | 1,05                            | 71  | 31                    |
| 50/74 E-T       | 80a             | 0,55                   | 1380            | 230/400        | 1,42                            | 72  | 34                    |
| 60/74 C-T       | 80a             | 0,55                   | 1380            | 230/400        | 1,42                            | 76  | 40                    |
| 60/74 D-T       | 80b             | 0,75                   | 1380            | 230/400        | 1,9                             | 77  | 40                    |
| 60/76 F-T       | 80a             | 0,37                   | 910             | 230/400        | 1,1                             | 68  | 42                    |
| 60/78 F-T       | 80a             | 0,18                   | 690             | 230/400        | 0,81                            | 66  | 40                    |
| 60/84 A-T       | 90s             | 1,1                    | 1410            | 230/400        | 2,7                             | 77  | 45                    |
| 60/84 C-T       | 90La            | 1,5                    | 1410            | 230/400        | 3,4                             | 80  | 50                    |
| 60/86 D-T       | 90s             | 0,75                   | 940             | 230/400        | 2,1                             | 75  | 49                    |
| 70/84 B-T       | 100La           | 2,2                    | 1430            | 230/400        | 4,9                             | 84  | 67                    |
| 70/86 D-T       | 90L             | 1,1                    | 930             | 230/400        | 3,0                             | 76  | 64                    |
| 70/88 F-T       | 100L            | 1,5                    | 930             | 230/400        | 3,7                             | 81  | 67                    |
| 70/88 E-T       | 90L             | 0,55                   | 705             | 230/400        | 1,95                            | 68  | 55                    |
| 40/74 D-M       | B1-63           | 0,18                   | 1370            | 230            | 1,6                             | 66  | 26                    |
| 40/74 F-M       | C1-71           | 0,25                   | 1390            | 230            | 2,2                             | 67  | 26                    |
| 50/74 D-M       | C2-71           | 0,37                   | 1350            | 230            | 3,2                             | 70  | 31                    |
| 50/74 E-M       | D2-80           | 0,55                   | 1395            | 230            | 4,8                             | 72  | 34                    |
| 60/74 C-M       | D2-80           | 0,55                   | 1395            | 230            | 4,8                             | 76  | 40                    |
| 60/74 D-M       | D3-80           | 0,75                   | 1350            | 230            | 6,3                             | 77  | 40                    |
| 60/84 A-M       | 11-90s          | 1,1                    | 1350            | 230            | 7,8                             | 45  | 45                    |

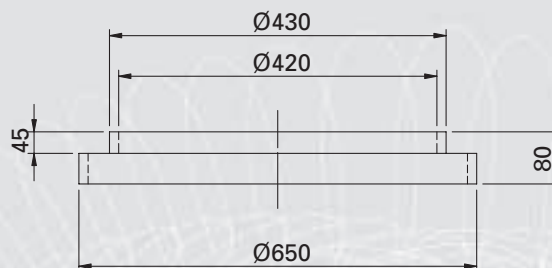
## Prestazioni - Performances

| MOD.<br>TYPE | Portata<br>Flowrate | PRESSIONE IN mmH <sup>2</sup> O - PRESSURE IN mmH <sup>2</sup> O |    |      |      |      |      |      |      |     |     |     |     |     |     |     |
|--------------|---------------------|--|----|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|
|              |                     | 4  | 13 | 18   | 27   | 35   | 54   | 70   | 87   | 110 | 143 | 170 | 223 | 256 | 294 | 330 |
| 40/74 D-T    | m3/h                | 20   | 19 | 17   | 16   | 15   | 11   | 7    |      |     |     |     |     |     |     |     |
| 40/74 F-T    | m3/h                | 23   | 21 | 20   | 19   | 18   | 15   | 13   | 12   |     |     |     |     |     |     |     |
| 50/74 D-T    | m3/h                |  |    | 23   | 22   | 21   | 19   | 18   | 15   | 11  |     |     |     |     |     |     |
| 50/74 E-T    | m3/h                |  |    | 25   | 24   | 23   | 22   | 20   | 19   | 15  | 10  |     |     |     |     |     |
| 60/74 C-T    | m3/h                |  |    |      | 28   | 27   | 26   | 25   | 24   | 21  | 17  | 13  |     |     |     |     |
| 60/74 D-T    | m3/h                |  |    |      | 32   | 31   | 30   | 29   | 28   | 26  | 23  | 20  | 12  |     |     |     |
| 60/76 F-T    | m3/h                |  | 18 | 17,5 | 17   | 16,5 | 16   | 15,5 | 15   | 14  | 13  | 12  |     |     |     |     |
| 60/78 F-T    | m3/h                |  |    | 10   | 9,7  | 9,3  | 9    | 8,5  | 8    | 7   | 6   |     |     |     |     |     |
| 60/84 A-T    | m3/h                |  |    |      | 41   | 39   | 37   | 34   | 31   | 24  | 18  | 13  |     |     |     |     |
| 60/84 C-T    | m3/h                |  |    |      | 43   | 42   | 41   | 39   | 37   | 33  | 27  | 24  | 17  | 15  |     |     |
| 60/86 D-T    | m3/h                |  | 21 | 20   | 19   | 18   | 17   | 16   | 15   | 12  | 11  | 10  |     |     |     |     |
| 70/84 B-T    | m3/h                |  |    | 48   | 47   | 46   | 44   | 43   | 42   | 40  | 38  | 35  | 28  | 23  | 17  |     |
| 70/86 D-T    | m3/h                |  |    | 23   | 22   | 21   | 20   | 19   | 18   | 17  | 16  | 15  | 14  | 13  | 10  |     |
| 70/88 F-T    | m3/h                |  |    | 26   | 25   | 24   | 23   | 22   | 21   | 20  | 19  | 18  | 17  | 16  | 15  | 14  |
| 70/88 E-T    | m3/h                |  |    | 13   | 12,5 | 12   | 11,5 | 11   | 10,5 | 10  | 9   | 8   | 7   |     |     |     |
| 40/74 D-M    | m3/h                | 20   | 19 | 17   | 16   | 15   | 11   | 7    |      |     |     |     |     |     |     |     |
| 40/74 F-M    | m3/h                | 23   | 21 | 20   | 19   | 18   | 15   | 13   | 12   |     |     |     |     |     |     |     |
| 50/74 D-M    | m3/h                |  |    | 23   | 22   | 21   | 19   | 18   | 15   | 11  |     |     |     |     |     |     |
| 50/74 E-M    | m3/h                |  |    | 25   | 24   | 23   | 22   | 20   | 19   | 15  | 10  |     |     |     |     |     |
| 60/74 C-M    | m3/h                |  |    | 28   | 27   | 26   | 25   | 24   | 21   | 17  | 13  |     |     |     |     |     |
| 60/74 D-M    | m3/h                |  |    | 32   | 31   | 30   | 29   | 28   | 26   | 23  | 20  | 12  |     |     |     |     |
| 60/84 A-M    | m3/h                |  |    | 41   | 39   | 37   | 34   | 31   | 24   | 18  | 13  |     |     |     |     |     |

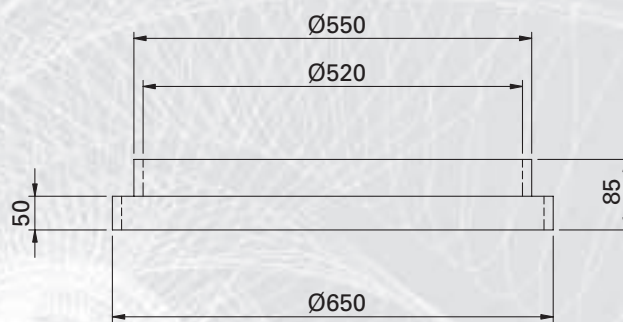
Pt (mm H<sub>2</sub>O)



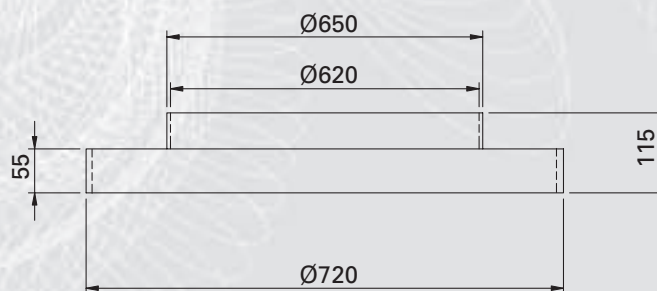
## Riduzione VTR 600/400 VTR 600/400 adapter



## Riduzione VTR 600/500 VTR 500/400 adapter



## Riduzione VTR 700/600 VTR 700/600 adapter



## Serranda di chiusura a gravità da:

Ø 400 a Ø 500 fino a 1400 giri  
Ø 600 a Ø 700 solo a 700/900 giri max.

### VTR 700/600 adapter

from Ø 400 to Ø 500 up to 1400 rpm  
from Ø 600 to Ø 700 only for 700/900 rpm max.

