

AQUA-TRAXX® PBX

Drip tape

AquaTraXX® PBX is the innovative drip tape which ensures an accurate and uniform distribution of water and nutrients to all plants.

The AquaTraXX® PBX flow path has been designed with a proportionally balanced cross-section (PBX) to optimise turbulence in the drippers in order to obtain:

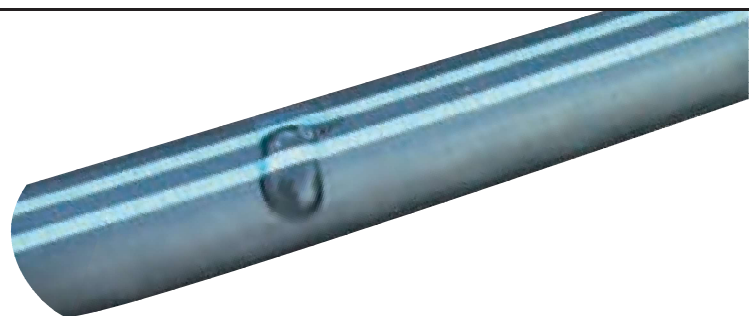
- Greater water speed;
- High resistance to clogging;
- Better flow path definition;
- A wide range of products with low flow rates and very close drippers.

AquaTraXX® PBX is the drip tape which ensures the best performance on the market, excellent uniformity of delivery and extraordinary quality.

RANGE

Thanks to the PBX technology, AquaTraXX® offers the most extensive and complete range of products on the market

- Diameter 16 mm (5/8")
 - Wall thickness 5/6/7/8/10/12 and 15 mil
- Diameter 22 mm (7/8")
 - Wall thickness 5/7/8/10/12 and 15 mil
- Dripper spacing 10/15/20/30/40/45/60 cm
- 9 different drippers
 - 2.13 l/h @ 0.7 bar
 - 1.41 l/h @ 0.7 bar
 - 1.14 l/h @ 0.7 bar
 - 0.87 l/h @ 0.7 bar
 - 0.64 l/h @ 0.7 bar
 - 0.57 l/h @ 0.7 bar
 - 0.42 l/h @ 0.7 bar
 - 0.38 l/h @ 0.7 bar
 - 0.30 l/h @ 0.7 bar



MAIN FEATURES

Thanks to the innovative technology and high quality standards of the product, the AquaTraXX® PBX features are unique on the market

- High resistance for quick easy installation (shorter laying times and therefore lower labour costs and less risk of damaging the product);
- Extraordinary efficiency, allowing implementing long side lines with very uniform water distribution and therefore high crop uniformity;
- Durability and excellent reliability achieved through meticulous design and a constant, precise control of the extrusion process;
- High resistance to clogging thanks to the PBX technology; Large outlet section produced using laser technology;
- A dripper inlet filter prevents sediment deposits from entering the dripper;
- The large number of inlet holes per dripper ensures constant and uniform water delivery;
- Excellent VC (Variation Coefficient) thanks to the precision of the flow path which guarantees a completely turbulent flow;
- Double blue line for easy identification;
- Single extrusion process, guaranteeing uniform dimensions and mechanical characteristics (no welding, no seams);
- Product ID code laser-engraved on the tubing.

APPLICATIONS

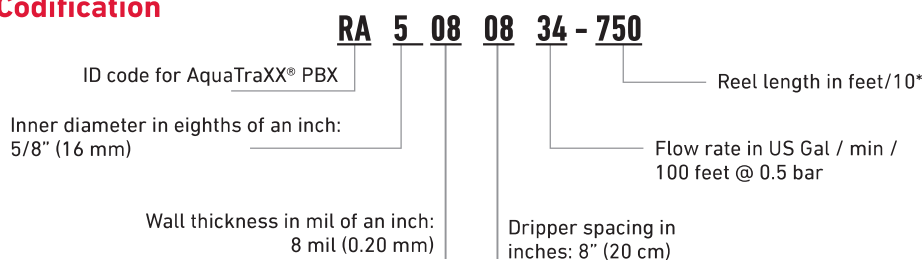
AquaTraXX® PBX is ideal for irrigating:

- Extensive crops: corn, sorghum, chard, tobacco;
- Horticultural crops:
 - Solanaceae (tomatoes, potatoes, peppers, aubergines);
 - Brassicaceae (cauliflower, broccoli, cabbage);
 - Asteraceae (artichokes, lettuce, chicory);
 - Cucurbitaceae (courgettes, melons, water melons, cucumbers, pumpkins);
 - Liliaceae (asparagus, onions, garlic, leeks, shallots);
 - Apiaceae (fennel, parsley, celery);
- Small fruit: strawberries, bilberries, raspberries, blackberries, blackcurrants;
- Medicinal herbs.



| Code | Dripper spacing (cm) | Individual dripper flow rate (l/h) @ | | Flow rate per metre (l/h/m) @ | | Required filtration mesh |
|---------------------------|----------------------|--------------------------------------|---------|-------------------------------|---------|--------------------------|
| | | 0.55 bar | 0.7 bar | 0.55 bar | 0.7 bar | |
| Dripper (2.13 l/h) | | | | | | |
| RAXxx04265-yyy | 10 | 2.00 | 2.13 | 20.00 | 21.30 | |
| RAXxx08133-yyy | 20 | 2.00 | 2.13 | 10.00 | 10.65 | |
| Dripper (1.41 l/h) | | | | | | |
| RAXxx04170-yyy | 10 | 1.29 | 1.41 | 12.90 | 14.10 | |
| RAXxx06112-yyy | 15 | 1.29 | 1.41 | 8.60 | 9.40 | |
| RAXxx0884-yyy | 20 | 1.29 | 1.41 | 6.45 | 7.05 | |
| RAXxx1256-yyy | 30 | 1.29 | 1.41 | 4.30 | 4.70 | |
| RAXxx1642-yyy | 40 | 1.29 | 1.41 | 3.23 | 3.53 | |
| RAXxx2428-yyy | 60 | 1.29 | 1.41 | 2.15 | 2.35 | |
| Dripper (1.14 l/h) | | | | | | |
| RAXxx04134-yyy | 10 | 1.02 | 1.14 | 10.20 | 11.40 | |
| RAXxx0867-yyy | 20 | 1.02 | 1.14 | 5.10 | 5.70 | |
| RAXxx1245-yyy | 30 | 1.02 | 1.14 | 3.40 | 3.80 | |
| RAXxx1634-yyy | 40 | 1.02 | 1.14 | 2.55 | 2.85 | |
| RAXxx2422-yyy | 60 | 1.02 | 1.14 | 1.70 | 1.90 | |
| Dripper (0.87 l/h) | | | | | | |
| RAXxx04100-yyy | 10 | 0.76 | 0.87 | 7.60 | 8.70 | |
| RAXxx0667-yyy | 15 | 0.76 | 0.87 | 5.07 | 5.80 | |
| RAXxx0850-yyy | 20 | 0.76 | 0.87 | 3.80 | 4.35 | |
| RAXxx1234-yyy | 30 | 0.76 | 0.87 | 2.53 | 2.90 | |
| RAXxx1625-yyy | 40 | 0.76 | 0.87 | 1.90 | 2.18 | |
| RAXxx2417-yyy | 60 | 0.76 | 0.87 | 1.27 | 1.45 | |
| Dripper (0.64 l/h) | | | | | | |
| RAXxx0650-yyy | 15 | 0.57 | 0.64 | 3.80 | 4.27 | |
| RAXxx1225-yyy | 30 | 0.57 | 0.64 | 1.90 | 2.13 | |
| RAXxx1817-yyy | 45 | 0.57 | 0.64 | 1.27 | 1.42 | |
| Dripper (0.57 l/h) | | | | | | |
| RAXxx0467-yyy | 10 | 0.49 | 0.57 | 4.90 | 5.70 | |
| RAXxx0834-yyy | 20 | 0.49 | 0.57 | 2.45 | 2.85 | |
| RAXxx1222-yyy | 30 | 0.49 | 0.57 | 1.63 | 1.90 | |
| RAXxx1617-yyy | 40 | 0.49 | 0.57 | 1.23 | 1.43 | |
| RAXxx2411-yyy | 60 | 0.49 | 0.57 | 0.82 | 0.95 | |
| Dripper (0.42 l/h) | | | | | | |
| RAXxx0825-yyy | 20 | 0.38 | 0.42 | 1.90 | 2.10 | |
| RAXxx1613-yyy | 40 | 0.38 | 0.42 | 0.95 | 1.05 | |
| Dripper (0.38 l/h) | | | | | | |
| RAXxx0822-yyy | 20 | 0.34 | 0.38 | 1.70 | 1.90 | |
| RAXxx1611-yyy | 40 | 0.34 | 0.38 | 0.85 | 0.95 | |
| Dripper (0.30 l/h) | | | | | | |
| RAXxx0817-yyy | 20 | 0.27 | 0.30 | 1.35 | 1.50 | |
| RAXxx1608-yyy | 40 | 0.27 | 0.30 | 0.68 | 0.75 | |

Codification



* excluding 5 mil, 7 mil and short reels for which the length is expressed in metres/100.

The identification for AquaTraXX® PBX made in Romania is "PA"

AQUA-TRAXX® PBX

Drip tape

PERFORMANCE

The following tables indicate the maximum length of the lines in relation to the inflow water pressure.

Note:

When determining the maximum line length, the maximum inflow pressure as indicated in the "Technical Data" table must be complied with.

DIAMETER 5/8" (16 MM) - Land slope 0%

| Code | Dripper Flow rate @ 0.7 bar | Dripper spacing | Distribution uniformity (EU) | Maximum lengths in metres | | | | | |
|----------------|-----------------------------|-----------------|------------------------------|---------------------------|-----------|-----------|-----------|-----------|-----------|
| | | | | @ 0.5 bar | @ 0.6 bar | @ 0.7 bar | @ 0.8 bar | @ 0.9 bar | @ 1.0 bar |
| RA5xx04265-yyy | 2.13 l/h | 10 cm | 85% | 54 | 62 | 66 | 66 | 67 | 67 |
| | | | 90% | 51 | 52 | 52 | 52 | 53 | 53 |
| RA5xx08133-yyy | 2.13 l/h | 20 cm | 85% | 114 | 131 | 142 | 145 | 146 | 146 |
| | | | 90% | 112 | 113 | 114 | 115 | 116 | 118 |
| RA5xx04170-yyy | 1.41 l/h | 10 cm | 85% | 90 | 92 | 93 | 93 | 94 | 94 |
| | | | 90% | 73 | 74 | 74 | 75 | 75 | 76 |
| RA5xx06112-yyy | 1.41 l/h | 15 cm | 85% | 95 | 109 | 119 | 120 | 121 | 122 |
| | | | 90% | 94 | 95 | 96 | 96 | 97 | 98 |
| RA5xx0884-yyy | 1.41 l/h | 20 cm | 85% | 140 | 142 | 144 | 145 | 146 | 147 |
| | | | 90% | 113 | 114 | 115 | 116 | 118 | 118 |
| RA5xx1256-yyy | 1.41 l/h | 30 cm | 85% | 182 | 184 | 185 | 187 | 188 | 189 |
| | | | 90% | 147 | 149 | 150 | 151 | 152 | 153 |
| RA5xx04134-yyy | 1.14 l/h | 10 cm | 85% | 104 | 105 | 106 | 107 | 108 | 108 |
| | | | 90% | 84 | 85 | 85 | 86 | 87 | 87 |
| RA5xx0867-yyy | 1.14 l/h | 20 cm | 85% | 162 | 164 | 165 | 167 | 168 | 170 |
| | | | 90% | 131 | 132 | 133 | 134 | 135 | 136 |
| RA5xx1245-yyy | 1.14 l/h | 30 cm | 85% | 210 | 212 | 214 | 216 | 217 | 219 |
| | | | 90% | 170 | 172 | 173 | 175 | 176 | 177 |
| RA5xx1634-yyy | 1.14 l/h | 40 cm | 85% | 253 | 256 | 258 | 260 | 262 | 263 |
| | | | 90% | 204 | 206 | 208 | 209 | 211 | 212 |
| RA5xx04100-yyy | 0.87 l/h | 10 cm | 85% | 127 | 128 | 129 | 130 | 131 | 132 |
| | | | 90% | 102 | 103 | 104 | 105 | 105 | 106 |
| RA5xx0667-yyy | 0.87 l/h | 15 cm | 85% | 163 | 165 | 167 | 168 | 170 | 171 |
| | | | 90% | 132 | 133 | 135 | 136 | 136 | 137 |
| RA5xx0851-yyy | 0.87 l/h | 20 cm | 85% | 197 | 199 | 201 | 202 | 204 | 205 |
| | | | 90% | 159 | 160 | 161 | 163 | 164 | 165 |
| RA5xx1234-yyy | 0.87 l/h | 30 cm | 85% | 255 | 258 | 260 | 262 | 264 | 265 |
| | | | 90% | 206 | 208 | 209 | 211 | 212 | 214 |
| RA5xx1625-yyy | 0.87 l/h | 40 cm | 85% | 306 | 309 | 312 | 315 | 317 | 318 |
| | | | 90% | 246 | 250 | 252 | 254 | 256 | 257 |
| RA5xx0650-yyy | 0.64 l/h | 15 cm | 85% | 197 | 200 | 201 | 202 | 204 | 205 |
| | | | 90% | 159 | 160 | 162 | 163 | 164 | 165 |
| RA5xx1226-yyy | 0.64 l/h | 30 cm | 85% | 306 | 309 | 312 | 315 | 317 | 318 |
| | | | 90% | 246 | 250 | 252 | 254 | 255 | 257 |
| RA5xx0467-yyy | 0.57 l/h | 10 cm | 85% | 166 | 168 | 170 | 171 | 173 | 174 |
| | | | 90% | 134 | 135 | 137 | 138 | 139 | 139 |
| RA5xx0834-yyy | 0.57 l/h | 20 cm | 85% | 259 | 262 | 264 | 266 | 268 | 269 |
| | | | 90% | 209 | 211 | 213 | 214 | 216 | 217 |
| RA5xx1222-yyy | 0.57 l/h | 30 cm | 85% | 335 | 339 | 342 | 344 | 347 | 349 |
| | | | 90% | 270 | 274 | 276 | 278 | 280 | 281 |
| RA5xx1617-yyy | 0.57 l/h | 40 cm | 85% | 402 | 407 | 411 | 414 | 416 | 419 |
| | | | 90% | 324 | 328 | 331 | 333 | 336 | 338 |
| RA5xx0825-yyy | 0.42 l/h | 20 cm | 85% | 302 | 304 | 305 | 306 | 307 | 308 |
| | | | 90% | 241 | 242 | 243 | 244 | 245 | 245 |
| RA5xx1613-yyy | 0.42 l/h | 40 cm | 85% | 472 | 475 | 477 | 480 | 481 | 482 |
| | | | 90% | 381 | 383 | 385 | 387 | 388 | 389 |
| RA5xx0822-yyy | 0.38 l/h | 20 cm | 85% | 322 | 324 | 326 | 327 | 328 | 329 |
| | | | 90% | 258 | 259 | 260 | 261 | 263 | 263 |
| RA5xx1611-yyy | 0.38 l/h | 40 cm | 85% | 496 | 498 | 500 | 502 | 503 | 506 |
| | | | 90% | 400 | 401 | 404 | 405 | 406 | 408 |
| RA5xx0817-yyy | 0.30 l/h | 20 cm | 85% | 379 | 381 | 383 | 384 | 385 | 386 |
| | | | 90% | 304 | 305 | 306 | 308 | 308 | 308 |
| RA5xx1608-yyy | 0.30 l/h | 40 cm | 85% | 589 | 591 | 594 | 596 | 598 | 599 |
| | | | 90% | 470 | 472 | 474 | 476 | 477 | 479 |

The Irrloc application allows you to quickly and easily dimension your irrigation system, including on uneven land. With Irrloc you can also dimension the drip line feed manifold and view delivery uniformity on the line and the irrigation block.

Free download: www.toro-ag.it



DIAMETER 7/8" (22 MM) – Land slope 0%

| Code | Dripper Flow rate @ 0.7 bar | Dripper spacing | Distribution uniformity (EU) | Maximum lengths in metres | | | | | |
|----------------|-----------------------------|-----------------|------------------------------|---------------------------|-----------|-----------|-----------|-----------|-----------|
| | | | | @ 0.5 bar | @ 0.6 bar | @ 0.7 bar | @ 0.8 bar | @ 0.9 bar | @ 1.0 bar |
| RA7xx08133-yyy | 2.13 l/h | 20 cm | 85% | 233 | 268 | 294 | 296 | 309 | 301 |
| | | | 90% | 232 | 234 | 236 | 238 | 239 | 240 |
| RA7xx06112-yyy | 1.41 l/h | 15 cm | 85% | 194 | 224 | 245 | 246 | 249 | 251 |
| | | | 90% | 192 | 194 | 197 | 198 | 200 | 201 |
| RA7xx0867-yyy | 1.14 l/h | 20 cm | 85% | 288 | 291 | 294 | 296 | 298 | 301 |
| | | | 90% | 233 | 235 | 237 | 239 | 240 | 242 |
| RA7xx1245-yyy | 1.14 l/h | 30 cm | 85% | 373 | 378 | 381 | 384 | 387 | 389 |
| | | | 90% | 302 | 305 | 307 | 309 | 311 | 313 |
| RA7xx1634-yyy | 1.14 l/h | 40 cm | 85% | 448 | 453 | 456 | 460 | 464 | 466 |
| | | | 90% | 361 | 365 | 368 | 370 | 373 | 375 |
| RA7xx04100-yyy | 0.87 l/h | 10 cm | 85% | 225 | 227 | 229 | 231 | 233 | 234 |
| | | | 90% | 181 | 183 | 185 | 186 | 187 | 188 |
| RA7xx0667-yyy | 0.87 l/h | 15 cm | 85% | 291 | 294 | 296 | 300 | 301 | 303 |
| | | | 90% | 234 | 237 | 239 | 241 | 243 | 244 |
| RA7xx0851-yyy | 0.87 l/h | 20 cm | 85% | 349 | 354 | 357 | 359 | 362 | 364 |
| | | | 90% | 282 | 285 | 287 | 289 | 291 | 293 |
| RA7xx1234-yyy | 0.87 l/h | 30 cm | 85% | 452 | 457 | 461 | 465 | 468 | 470 |
| | | | 90% | 365 | 368 | 372 | 375 | 378 | 381 |
| RA7xx0467-yyy | 0.57 l/h | 10 cm | 85% | 295 | 298 | 302 | 304 | 306 | 308 |
| | | | 90% | 238 | 241 | 243 | 245 | 246 | 249 |
| RA7xx0834-yyy | 0.57 l/h | 20 cm | 85% | 460 | 464 | 468 | 472 | 475 | 478 |
| | | | 90% | 370 | 374 | 379 | 382 | 383 | 387 |
| RA7xx1222-yyy | 0.57 l/h | 30 cm | 85% | 595 | 601 | 606 | 610 | 615 | 608 |
| | | | 90% | 478 | 486 | 490 | 494 | 497 | 500 |
| RA7xx0825-yyy | 0.42 l/h | 20 cm | 85% | 528 | 531 | 534 | 536 | 538 | 539 |
| | | | 90% | 426 | 428 | 431 | 433 | 434 | 435 |
| RA7xx1613-yyy | 0.42 l/h | 40 cm | 85% | 822 | 827 | 831 | 833 | 836 | 838 |
| | | | 90% | 664 | 667 | 670 | 672 | 674 | 676 |
| RA7xx0822-yyy | 0.38 l/h | 20 cm | 85% | 566 | 569 | 571 | 573 | 574 | 576 |
| | | | 90% | 457 | 459 | 461 | 462 | 463 | 465 |
| RA7xx1611-yyy | 0.38 l/h | 40 cm | 85% | 876 | 885 | 889 | 891 | 894 | 896 |
| | | | 90% | 706 | 713 | 717 | 719 | 721 | 723 |
| RA7xx0817-yyy | 0.30 l/h | 20 cm | 85% | 664 | 668 | 671 | 673 | 674 | 677 |
| | | | 90% | 536 | 539 | 541 | 543 | 544 | 546 |
| RA7xx1608-yyy | 0.30 l/h | 40 cm | 85% | 1033 | 1038 | 1042 | 1046 | 1050 | 1052 |
| | | | 90% | 833 | 837 | 840 | 843 | 847 | 849 |

The Irrloc application allows you to quickly and easily dimension your irrigation system, including on uneven land. With Irrloc you can also dimension the drip line feed manifold and view delivery uniformity on the line and the irrigation block.
Free download: www.toro-ag.it

AQUA-TRAXX® PBX

Drip tape

Technical and Logistical data

STANDARD REELS

| Nominal diameter | Inner diameter | Wall thickness | | Pressure Min | Pressure Max | Reel length | Reel weight | Gross weight* | Reel dimensions (Ø X h) |
|------------------|----------------|----------------|---------|--------------|--------------|-------------|-------------|---------------|-------------------------|
| | | | | | | | | | |
| 16 mm (5/8") | 16.1 mm | 5 mil | 0.13 mm | 0.3 bar | 0.7 bar | 4200 m | 31.85 kg | 32.80 kg | 52.5 cm x 28 cm |
| | | 6 mil | 0.15 mm | 0.3 bar | 0.8 bar | 3048 m | 27.21 kg | 28.16 kg | 52.5 cm x 28 cm |
| | | 7 mil | 0.18 mm | 0.3 bar | 0.9 bar | 2900 m | 29.40 kg | 30.35 kg | 52.5 cm x 28 cm |
| | | 8 mil | 0.20 mm | 0.3 bar | 1.0 bar | 2286 m | 26.33 kg | 27.28 kg | 52.5 cm x 28 cm |
| | | 10 mil | 0.25 mm | 0.3 bar | 1.0 bar | 1828 m | 25.87 kg | 26.82 kg | 52.5 cm x 28 cm |
| | | 12 mil | 0.30 mm | 0.3 bar | 1.0 bar | 1554 m | 26.07 kg | 27.02 kg | 52.5 cm x 28 cm |
| | | 15 mil | 0.38 mm | 0.3 bar | 1.0 bar | 1220 m | 25.31 kg | 26.26 kg | 52.5 cm x 28 cm |
| 22 mm (7/8") | 22.3 mm | 5 mil | 0.13 mm | 0.3 bar | 0.7 bar | 3048 m | 30.00 kg | 30.95 kg | 52.5 cm x 28 cm |
| | | 7 mil | 0.18 mm | 0.3 bar | 0.7 bar | 2100 m | 28.45 kg | 29.40 kg | 52.5 cm x 28 cm |
| | | 8 mil | 0.20 mm | 0.3 bar | 0.8 bar | 1828 m | 28.12 kg | 29.07 kg | 52.5 cm x 28 cm |
| | | 10 mil | 0.25 mm | 0.3 bar | 1.0 bar | 1341 m | 25.56 kg | 26.51 kg | 52.5 cm x 28 cm |
| | | 12 mil | 0.30 mm | 0.3 bar | 1.0 bar | 1219 m | 27.65 kg | 28.60 kg | 52.5 cm x 28 cm |
| | | 15 mil | 0.38 mm | 0.3 bar | 1.0 bar | 914 m | 25.58 kg | 26.53 kg | 52.5 cm x 28 cm |

* The gross weight includes the weight of the packaging and of the pallet

| | Container 20' | Container 40' HC | Truck 13.6 m |
|-------------------|---------------|------------------|--------------|
| Quantity of reels | 280 | 704 | 768 |

| | Quantity of reels | Dimensions (lxdxh) |
|--------|-------------------|--------------------|
| Pallet | 16 | 105x105x128 cm |

SHORT REELS

| Nominal diameter | Inner diameter | Wall thickness | | Pressure Min | Pressure Max | Reel length | Reel weight | Gross weight* | Reel dimensions (Ø X h) |
|------------------|----------------|----------------|---------|--------------|--------------|-------------|-------------|---------------|-------------------------|
| | | | | | | | | | |
| 16 mm (5/8") | 16.1 mm | 6 mil | 0.15 mm | 0.3 bar | 0.8 bar | 400 m | 4.1 kg | 4.3 kg | 39.5 cm x 8.2 cm |
| | | 6 mil | 0.15 mm | 0.3 bar | 0.8 bar | 700 m | 8.3 kg | 8.6 kg | 52.5 cm x 10 cm |
| | | 8 mil | 0.20 mm | 0.3 bar | 1.0 bar | 250 m | 3.4 kg | 3.6 kg | 39.5 cm x 8.2 cm |
| | | 8 mil | 0.20 mm | 0.3 bar | 1.0 bar | 600 m | 9.5 kg | 9.8 kg | 52.5 cm x 10 cm |

* The gross weight includes the weight of the packaging and of the pallet

| Quantity of reels | Master pack | Pallet | Container 20' | Container 40' HC | Truck 13.6 m |
|-------------------|-------------|--------|---------------|------------------|--------------|
| 250 m/400 m | 4 | 120 | 1440 | 3000 | 3360 |
| 600 m/700 m | 3 | 48 | 840 | 2112 | 2304 |

| | Dimensions (lxdxh) |
|--------|--------------------|
| Pallet | 80x120x175 cm |



INSTALLATION

- The double "blue" line must always face upwards during installation under penalty of cancellation of the warranty;
- AquaTraXX® can be installed underground, under black mulch or on the surface;
- During installation avoid stretching, cutting, perforating or tearing it;
- If the soil is infected with insects with a masticatory or stinging system, we recommend disinfecting the soil;
- To avoid clogging, purge the main and secondary lines before connecting AquaTraXX®;
- When installing AquaTraXX® under mulch, begin pressurising the system within 12 hours from its installation;
- Use only water-soluble fertilisers and clear the lines of residues before interrupting irrigation;
- It is advisable to fit double-acting air valves on the manifolds to prevent impurities from being drawn in through the holes in AquaTraXX® when it is installed underground;
- When using transparent mulch, AquaTraXX® must be laid underground. Drops of condensate on the bottom of the plastic may act as a magnifying glass, concentrating sunlight and possibly leading to holes.

