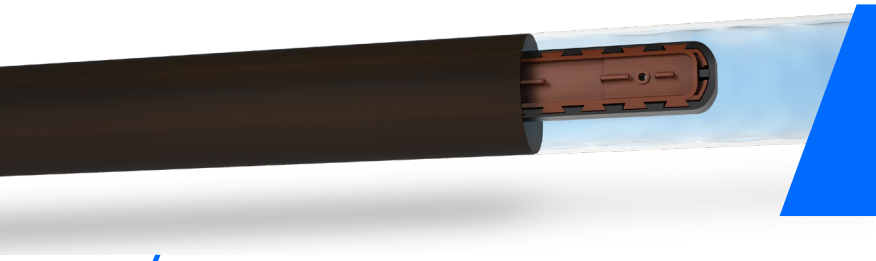
# Techline® **CV XR**

Pressure compensating (PC) in-line drip emitter with built in check valve. Same industry leading features as Techline CV now with Cupron injected directly into the emitters.



Root Intrusion Protection

Cupron Copper Oxide

Check Valve

## Benefits & Features

- **Cupron Enhanced Dripper** — Copper Oxide is embedded into the emitter and is an effective deterrent against root intrusion without any reliance on chemicals. Cupron Copper oxide provides long lasting protection due to non migrating active ingredients, lasting the life of the Techline.
- **Check Valve (CNL)** — All emitters turn on and off at the same time, maximizing balance of application. Holds back up to 4.6' of water. No low emitter drainage, great on slopes, and delivers more precise watering.
- **Anti-Siphon Mechanism** — Prevents contaminants from being drawn into the dripper, making it ideal for sub surface applications.
- **Pressure Compensated** — Precise and equal amounts of water delivered over a broad pressure range ensuring 100% uniformity of water and nutrient distribution along the laterals.
- **Physical Root Barrier** — Offset flow path, extra large bath area, and raised outlets provide another level of protection by physically blocking roots from the labyrinth.
- **Continuous Self-Flushing Mechanism** — Flushes debris throughout operation, while ensuring constant dripper operation.
- **Large Filtration Area** — The Techline™ CVXR Dripper is highly resistant to clogging from poor quality water, thus increasing filtration efficiency.
- **TurboNet™** — TurboNet technology improves dripper performances by widening the tooth pattern, maximizing flow path velocity, allowing contaminants to pass easily through the dripper, virtually eliminating plugging.

NETAFIM™
GROW MORE WITH LESS

# Specifications

- Broad choice of emitter flow rates: 0.42, 0.61, 0.92 GPH.
- Emitter spacings: 12" and 18".
- Pressure compensated range: 14.5 - 58 psi.
- Check Valve (CNL): Emitters open at 14.5 psi and shut off at 2 psi to hold back 4.6 FT of water.
- Recommended filtration: 120 mesh.
- Coil length: 250 & 1000 FT.

| GENERAL GUIDELINES | TURF | | | | | | | | | SHRUB & GROUNDCOVER | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LOAM SOIL | | | SANDY SOIL | | | COARSE SOIL | | | LOAM SOIL | | | SANDY SOIL | | | COARSE SOIL | | |
| EMITTER FLOW | 0.42 GPH | | | 0.61 GPH | | | 0.92 GPH | | | 0.42 GPH | | | 0.61 GPH | | | 0.9 2GPH | | |
| EMITTER SPACING | 12″ | | | 12″ | | | 12″ | | | 18″ | | | 12″ | | | 12″ | | |
| LATERAL (ROW) SPACING | 12″ | 14″ | 18″ | 12″ | 14″ | 18″ | 12″ | 14″ | 16″ | 18″ | 21″ | 24″ | 16″ | 18″ | 20″ | 16″ | 18″ | 20″ |
| BURIAL DEPTH | Bury evenly throughout the zone from 4″to 6″ | | | | | | | | | On-surface or bury evenly throughout the zone to a maximum of 6″ | | | | | | | | |
| APPLICATION RATE (INCHES/HOUR) | 0.64 | 0.55 | 0.43 | 0.98 | 0.84 | 0.65 | 1.48 | 1.27 | 1.11 | 0.30 | 0.26 | 0.23 | 0.73 | 0.65 | 0.59 | 1.11 | 0.99 | 0.89 |
| TIME TO APPLY ¼″ OF WATER (MINUTES) | 23 | 27 | 35 | 15 | 18 | 23 | 10 | 12 | 13 | 50 | 58 | 66 | 20 | 23 | 26 | 13 | 15 | 17 |

Following these maximum spacing guidelines, emitter flow selection can be increased if desired by the designer.
0.92 GPH flow rate available for areas requiring higher infiltration rates, such as coarse sandy soils.

## SPECIFYING MODEL NUMBER

Reference for Ordering Information Chart

A Techline CVXR Dripline = **TLCVXR**

SAMPLE MODEL NUMBER

**TLCVXR4-1210**
(A) (B) (C) (D)

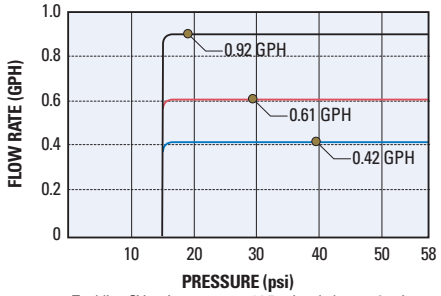
B **EMITTER FLOW RATE**
0.42 GPH= **4**
0.61 GPH= **6**
0.92 GPH= **9**

C **EMITTER SPACING**
12″ = **12**
18″ = **18**

D **COIL LENGTH**
250′ = **025**
1,000′ = **10**

**BLANK TUBING MODEL NUMBERS:**
250′ = TLCVXR0025
1,000′ = TLCVXR010

## FLOW RATE VS. PRESSURE




Techline CV emitters open at 14.5 psi and close at 2 psi.

## ORDERING INFORMATION

| FLOW RATE | EMITTER SPACING | COIL LENGTH | MODEL NUMBER |
|---|---|---|---|
| 0.42 GPH | 12″ | 250′ | TLCVXR4-12025 |
| | | 1,000′ | TLCVXR4-1210 |
| | 18″ | 250′ | TLCVXR4-18025 |
| | | 1,000′ | TLCVXR4-1810 |
| 0.61 GPH | 12″ | 250′ | TLCVXR6-12025 |
| | | 1,000′ | TLCVXR6-1210 |
| | 18″ | 250′ | TLCVXR6-18025 |
| | | 1,000′ | TLCVXR6-1810 |
| 0.92 GPH | 12″ | 250′ | TLCVXR9-12025 |
| | | 1,000′ | TLCVXR9-1210 |
| | 18″ | 250′ | TLCVXR9-18025 |
| | | 1,000′ | TLCVXR9-1810 |
| BLANK TUBING | | 250′ | TLCVXR0025 |
| | | 1,000′ | TLCVXR010 |

## MAXIMUM LENGTH OF A SINGLE LATERAL (FEET)

| EMITTER SPACING | | 12″ | | | 18″ | | |
|---|---|---|---|---|---|---|---|
| EMITTER FLOW (GPH) | | 0.42 | 0.61 | 0.92 | 0.42 | 0.61 | 0.92 |
| INLET PRESSURE | 20 psi | 242 | 190 | 144 | 344 | 270 | 204 |
| | 25 psi | 302 | 238 | 180 | 429 | 338 | 257 |
| | 35 psi | 380 | 299 | 227 | 540 | 426 | 323 |
| | 45 psi | 436 | 343 | 260 | 620 | 489 | 371 |
| | 55 psi | 480 | 378 | 287 | 684 | 539 | 410 |
| | 60 psi | 500 | 393 | 298 | 713 | 561 | 426 |

## FLOW PER 100 FEET

| EMITTER SPACING | 0.42 EMITTER | | 0.61 EMITTER | | 0.92 EMITTER | |
|---|---|---|---|---|---|---|
| | GPH | GPM | GPH | GPM | GPH | GPM |
| 12″ | 42.3 | 0.71 | 60.8 | 1.01 | 92.5 | 1.54 |
| 18″ | 28.2 | 0.47 | 40.5 | 0.68 | 61.6 | 1.03 |

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