

# **The Professionals of Turf Irrigation**

## **Die Spezialisten für Rasenberegnung**



**Irrigation systems for  
tennis courts**

# Standard version tennis court



## Dynamic and indestructible

Hot days and fast games are greatest things in a tennis season, but the exciting match can become a dusty affair if the court is not being irrigated. Only a regular moistening of the red gravel surface enables a perfect play and increases the lifetime of the expensive surface. And in case of lawn courts, our professional irrigation will provide lush green and steady growth.

PERROT sprinklers are available with two different mechanisms. You can either choose impact or gear drive sprinklers – both techniques have been developed to perfection. Once installed PERROT irrigation systems will render a good service for many years.

Easy-to-maintain design: Only a few screws have to be loosened and the sprinkler insert can be taken out of the housing without the need for digging. Leading to merely short interruptions of the irrigation during dry seasons.

## LVZA 22

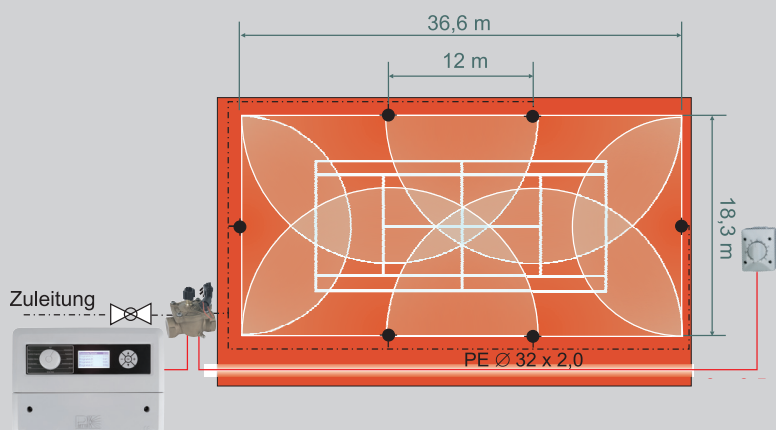
Nozzle size \_\_\_\_\_ 4-4,5 mm  
 Operating pressure \_\_\_\_\_ 2,6-6,0 bar  
 Casting range \_\_\_\_\_ 10,0 - 12,5 m  
 Flow rate \_\_\_\_\_ 0,9-1,8 m³/h  
 Trajectory \_\_\_\_\_ 22°  
 Inlet \_\_\_\_\_ 3/4" female thread

## HYDRA XS

Nozzle size \_\_\_\_\_ 4-4,5 mm  
 Operating pressure \_\_\_\_\_ 2,6-6,0 bar  
 Casting range \_\_\_\_\_ 10,0 - 12,5 m  
 Flow rate \_\_\_\_\_ 0,9-1,8 m³/h  
 Trajectory \_\_\_\_\_ 22°  
 Inlet \_\_\_\_\_ 3/4" female thread



## Layout tennis court irrigation system with impact or gear drive sprinklers



### Irrigation sequence:

All sprinklers of a single tennis court are combined in one irrigation section. Sprinkler nozzle Ø 4,0 mm

### Flow rate:

Sprinkler at side  $Q = 1,14 \text{ m}^3/\text{h}$   
 6 sprinkler at side  $Q = 6,84 \text{ m}^3/\text{h}$   
 Max. flow rate per irrigation section  $Q = 6,84 \text{ m}^3/\text{h}$

### Operating pressure:

Pressure at the sprinkler nozzle  $H = 4,0 \text{ bar}$   
 Required flow pressure at the valve for a water intake of  $6,84 \text{ m}^3/\text{h}$   $H = 5,5 \text{ bar}$

### Precipitation average:

10,0 mm/h

### No. of sprinklers:

Lateral sprinkler: LVZA 22 WT / HYDRA-XS WH 6 Stück





## Upgrade for your tennis court

Is your sprinkler system with four pop-up sprinklers outdated? Does it no longer function properly? In this case, we recommend the following solution for renovation.

Your sprinkler system corresponds to the installation layout shown here. Whether you select the robust, maintenance-free LVZA 22 WT impact pop-up sprinklers or the precise HYDRA-XS WH turbine pop-up sprinklers – you always achieve a perfect result without dry spots or puddles.

The lower connection is a particularly stable brass thread. The central water supply inside the sprinkler is extremely low-friction and one reason why it has the longest casting range in this sprinkler class.

## Layout tennis court irrigation system Renovation of a tennis court with 4 pop-up sprinklers

### Irrigation sequence:

All sprinklers of a single tennis court are combined in one irrigation section..

### Flow rate:

1 sprinkler at side  
4 sprinklers at side  
Max. Flow rate per section

**LVZA/HYDRA-XS**  
Nozzle Ø 4,5/4,0mm

Q= 1,60 / 1,30 m³/h  
Q= 6,40 / 5,20 m³/h  
Q= 6,40 / 5,20 m³/h

### Operating pressure:

Pressure at the sprinkler nozzle  
Required flow pressure at the valve for a water intake of 6,40 / 5,20 m³/h

H= 5,0 bar

H= 6,0 bar

### Precipitation average:

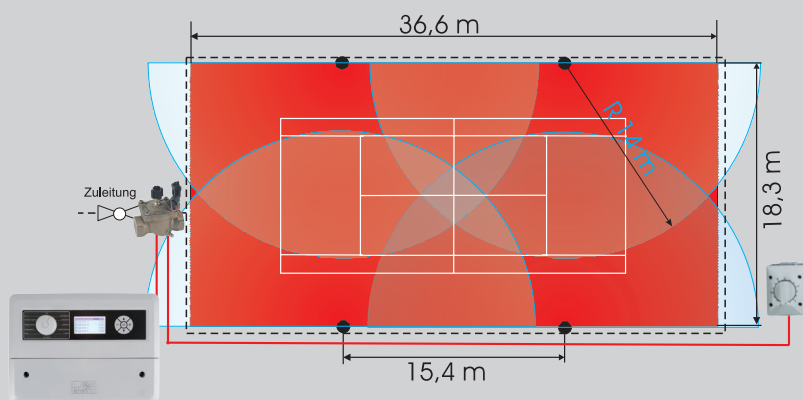
Mittlerer Niederschlag

9,6 / 7,8 mm/h

### No. of sprinklers:

Lateral sprinkler: LVZA 22 WT / HYDRA-XS WH

4 Stück



## Control system

Do you want to irrigate your field automatically over night or in the morning? Do you also want to wet the field quickly after every match?

The combination of the WaterControl and the short-term timer switch gives you control over the dust at all times.





**www.perrot.de**

**PERROT**

**Regnerbau Calw GmbH**  
**Industriestrasse 19-29**  
**D 75382 Althengstett**  
**Germany**  
**Tel. +49(0)7051/162-0**  
**Fax +49(0)7051/162-133**  
**Mail: perrot@perrot.de**

### **Extract of References**

D- Rothenbaumchaussee, Hamburg  
D- TC Hannover 96, Hannover  
D- Stadion Rot-Weiss e.V., Köln  
D- TA SG Untertürkheim, Stuttgart  
D- TC Nagold  
D- PSV Reutlingen  
D- TUS Esslingen  
D- TC Heilbronn  
D- SV Althengstett  
D- TC Iffezheim  
D- TC Eintracht Freiburg  
D- ESV Laim, München  
D- TC Rosenheim  
D- DJK Ingolstadt  
D- TC Blau Weiss Ulm  
D- DJK Eintracht Süd, Nürnberg  
D- Rot-Weiss Erlangen  
D- T.V. Jahn Schweinfurt  
B- TC Ostend, Oostende  
B- TC Centre Int. Européenne, Overijse  
BG- Levski Spartak, Sofia  
CH- TC Grasshopper Zürich  
CH- TC Freiburg  
CZ- TK CNB Praha  
CZ- TJ Slavia Pilsener Urquell, Pilzen  
CZ- Sports Center of Ministry of the Interior, Prag  
DK- Lyngby Stadion og Sommerdal, Lyngby  
HR- Tennis Center Libertas, Dubrovnik  
KE- Nairobi Club  
KR- Towel Park Tennis Court, Changwon  
LU- TC Ettelbruck  
PL- OSIR Lubin  
SI- Tennis Klub Celje  
TR- Levent Tennis Kulübü