

# SPECIFICATION: EP3



**Supplier:** NBP International Inc., 135-10500 Côte de Liesse, Lachine, QC, H8T 1A4, Canada

**1.0 Product:** RinkSense – EP3

- .1 A cylindrical water treatment device which creates a rotational flow through the use of a proprietary platform. Pressure gradients, shear force and cavitation resulting from the flow change the condition of the water, which allows the water to freeze with improved crystalline formation.
- .2 Capable of being used to treat municipal standard potable water at temperatures between 10 & 20 °C. For use in indoor ice rinks for the purpose of building an ice sheet and/or resurfacing an ice sheet without the addition of chemicals, filters or additional energy supply.

**2.0 Construction:**

- .1 Components made from stainless steel (SS 316L) meeting CSA/ASTM specifications
- .2 Unit is to have 7 year warranty
- .3 Max. Pressure: 414 kPa (60 psi)<sup>1</sup>
- .4 Min. Pressure : 152 kPa (22 psi)
- .5 Max. Temperature: 100 °C
- .6 Flow rate at max. pressure: 76 lpm (20 US gpm)
- .7 Sizes and tolerances: EP3

| Overall Length          | Diameter           | Pipe connection |
|-------------------------|--------------------|-----------------|
| 914 mm (36 in)          | 98 mm (3.5 in)     | 98 mm (3.5 in)  |
| ± 6 mm (¼ in)           | ± 1.6 mm (1/16 in) |                 |
| Seasonal water delivery | 430 k USG          | 1,630 k Liters  |

- .8 Acceptable Manufacturer: NBP International Inc.

**3.0 Installation**

- .1 Vertical or horizontal installations are acceptable.
- .2 Install in accordance with local code authority.
- .3 Install in accordance with manufacturer's instructions.
- .4 Flow direction: Single flow direction marked on unit
- .5 Exit flow condition: Straight, min. 710 mm (2 ft)
- .6 Minimize bends between flow exit and fill pipe

<sup>1</sup>Pressure limits refer to service life. See ANSI B31.1 for burst pressures which are higher.