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# SPORLAN ADVANCED & SPECIALIST

**VOLUME 2**

**TRAINING  
MODULES**



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## MODULE 1

1 hour

### Overview of Supermarket System Types and Strategies

- Design & Building Various Parallel Systems
- Sporlan Component Selection & Design Considerations
- Oil Management Operation
- Defrost Types & Other System Functionality



## MODULE 2

2 hours

### 12 Common Thermostatic Expansion Valves Problems & Solutions

- Understanding Common Thermostatic Expansion Valve Failures
- Trouble Shooting & Diagnostics
- Balancing Pressures & Understanding Thermostatic Expansion Valve Operation
- Proper Installation & Component Placement



## MODULE 3

1 hour

### Basic CO<sub>2</sub> System Operation, Control & Electronic Expansion Valves



## MODULE 1

2 hour

### Supermarket Specialist – Systems

- Operation Setup & Control
- Split Condenser Systems
- Defrost Strategies & Efficacy
- Heat Reclaim Methodology & Utilization
- Sub-Cooling Usage & Performances
- Oil Management Systems
- Refrigerant Conversions & Considerations

## MODULE 2

2 hour

### Sporlan Virtual Engineer Software & Selection Program & the Effects of Design

- Introduction to Virtual Engineer & Selection Software
- Interpreting Results & Component Selections
- Importance of Accurate Design Conditions & Entry
- Using Virtual Engineer to Troubleshoot & Diagnose Sporlan Components
- Validating Alternative Selections
- Considering Calculated Values to Determine Additional Components Required



#### Welcome to Parker Sporlan's Virtual Engineer Sizing and Selection Tool

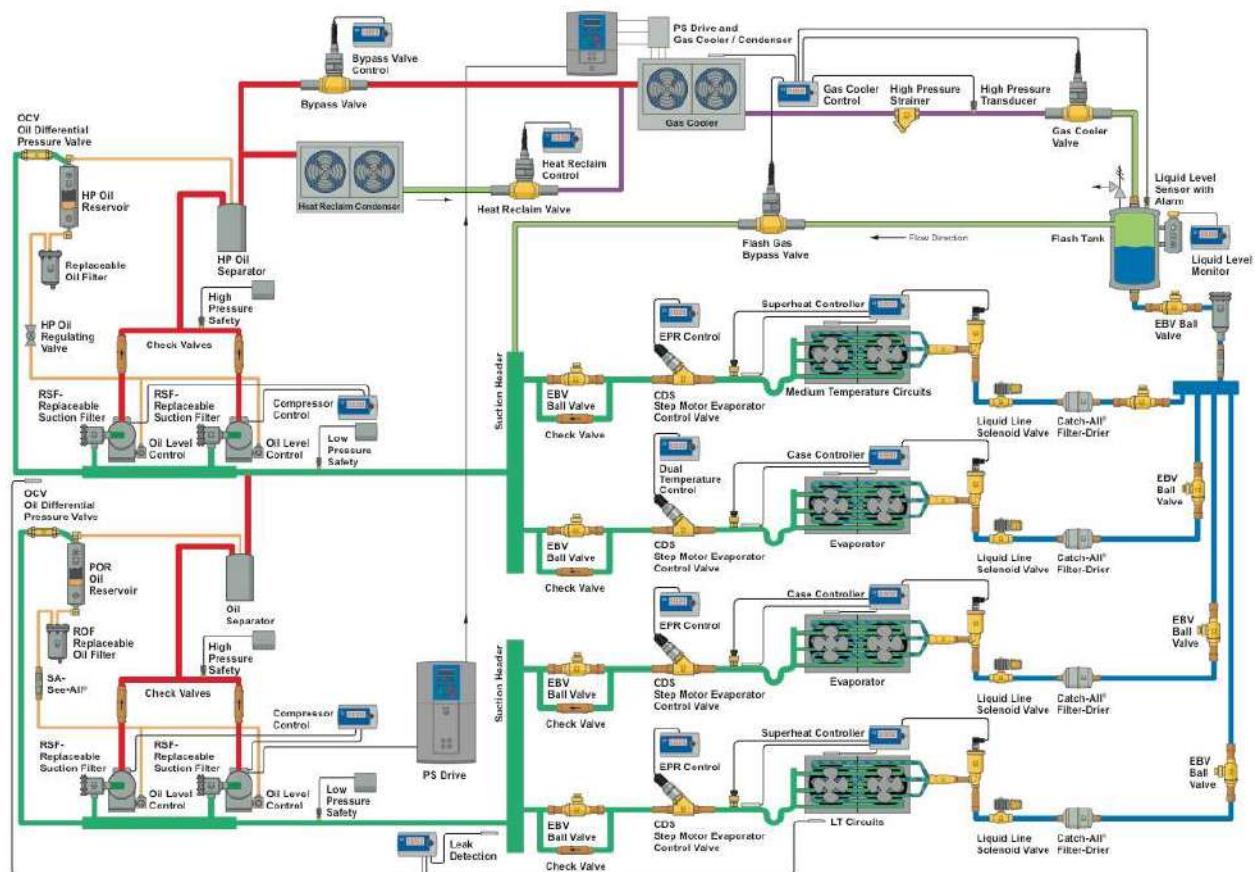


Parker Sporlan's Virtual Engineer is an innovative design tool for climate control and refrigeration applications.

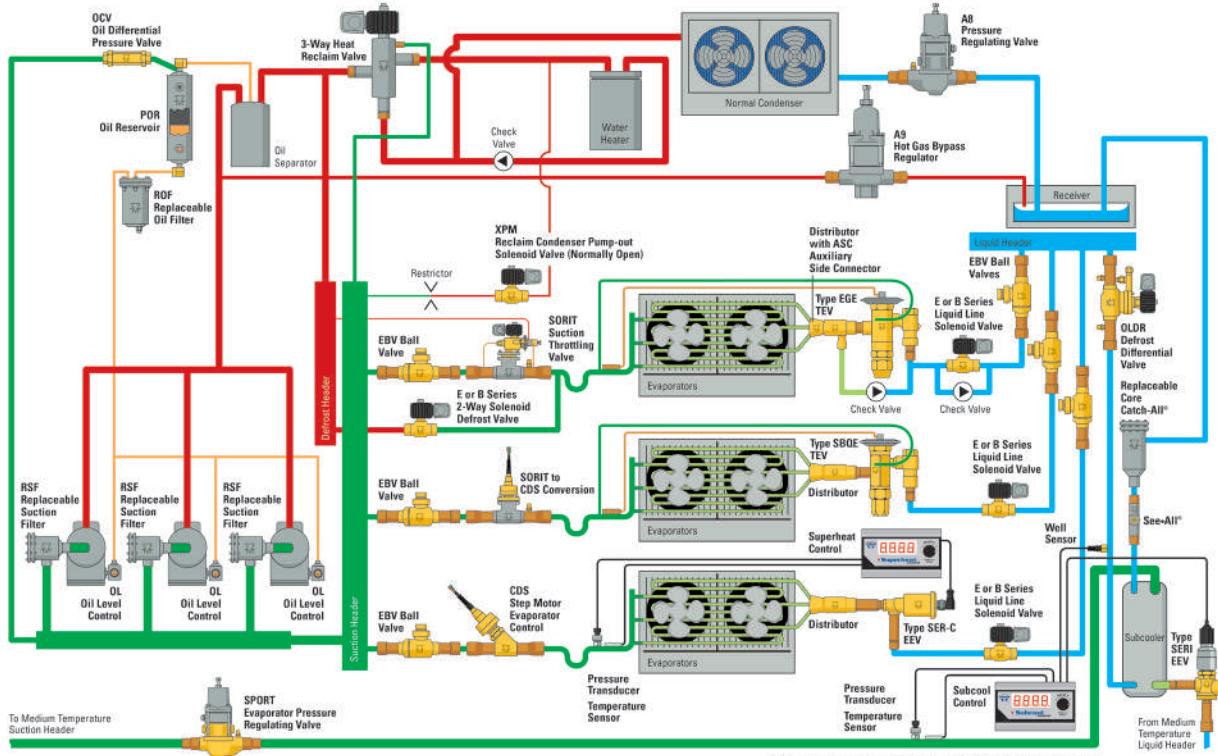
Save engineering time with three simple steps:

1. Enter application details using the intuitive interface
2. Size and select products that meet the demands of your application
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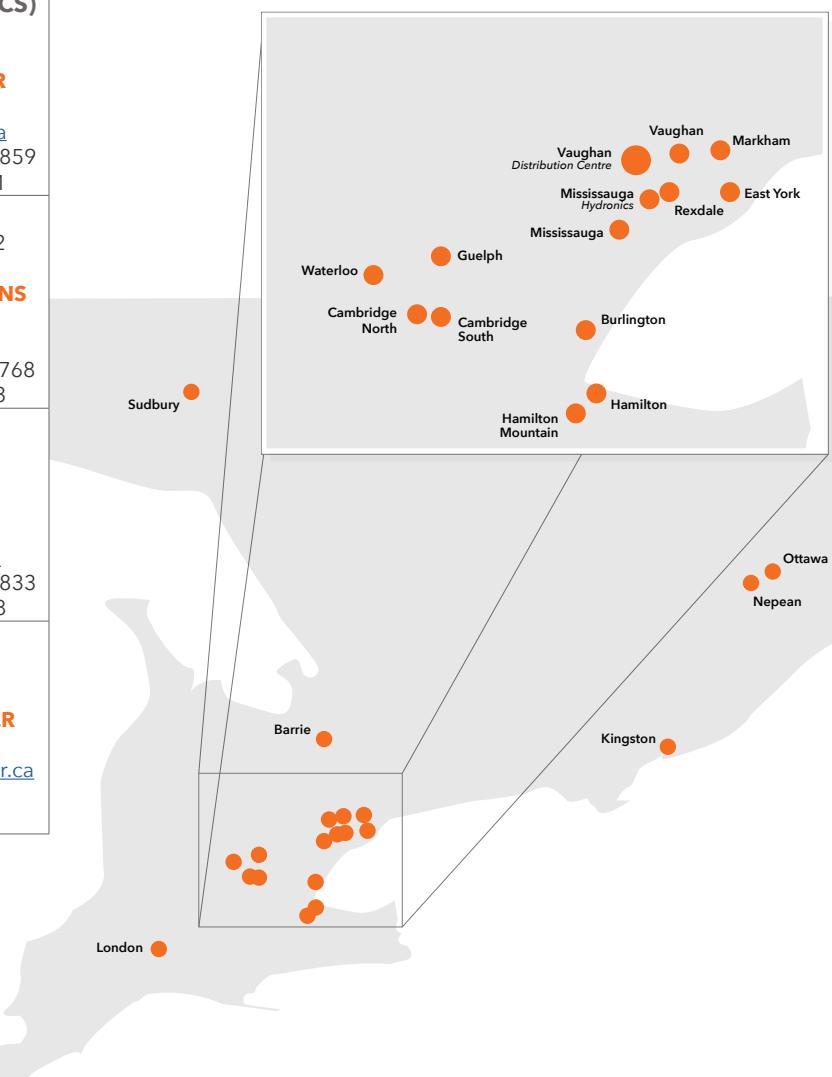
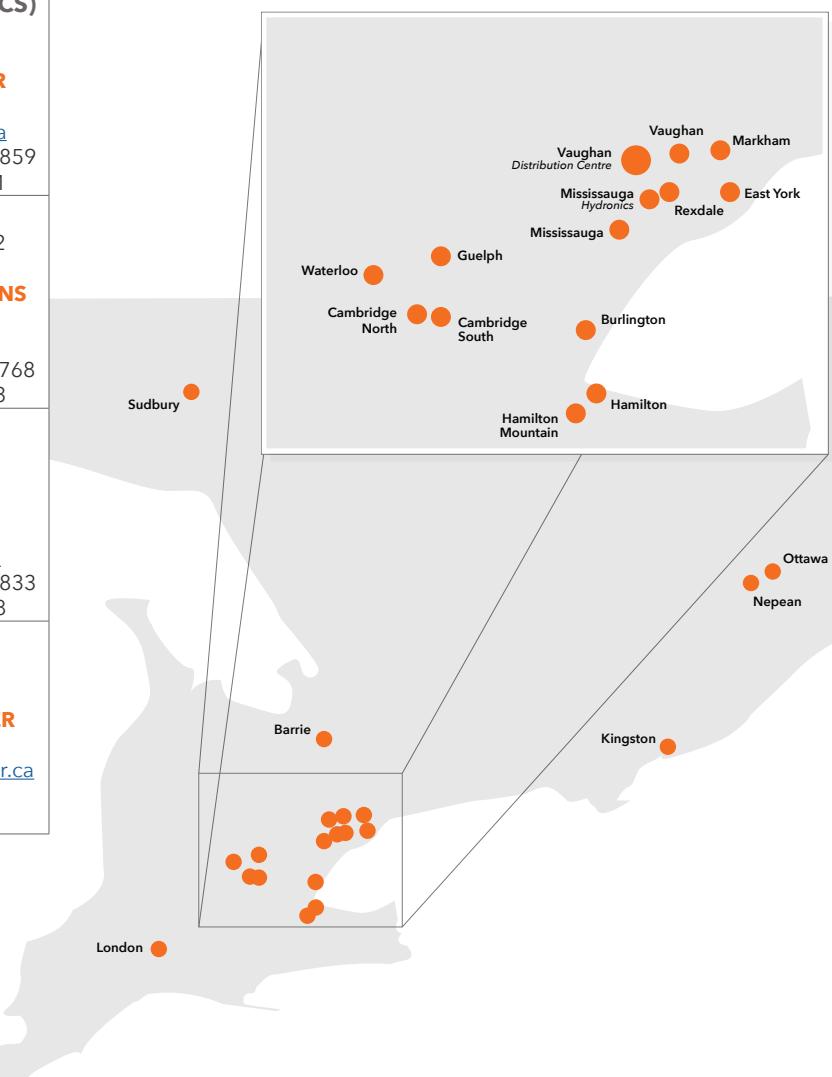


## SPORLAN Supermarket Piping Diagram



Schematic is for component location only, not a typical piping recommendation.

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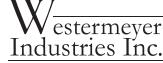
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